

- **HIGH PRECISION MOULD BASES**
- **STANDARD ACCESORIES**
- **MOLDES DE ALTA PRECISIÓN**
- **ACCESORIOS STÀNDAR**



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- Moulds menu
- Medidas moldes

1



- Guide elements
- Elementos de guiado

2



- Injection
- Inyección

3



- Centring elements
- Centraje

4



- Ejection
- Expulsión

5



- Traceability
- Trazabilidad

6



- Demoulding
- Desmoldeo

7



- Cooling system
- Refrigeración

8



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- Muelles

9



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10



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- Electrical components
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- Pulido





























































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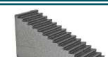






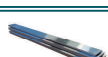


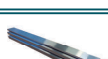













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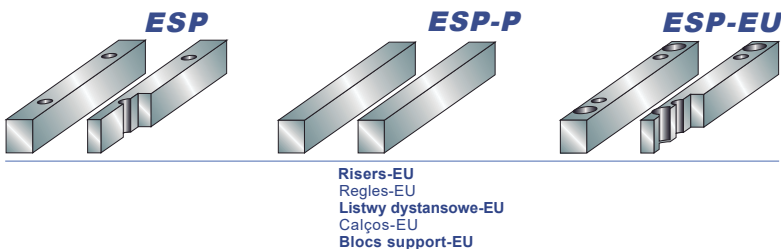
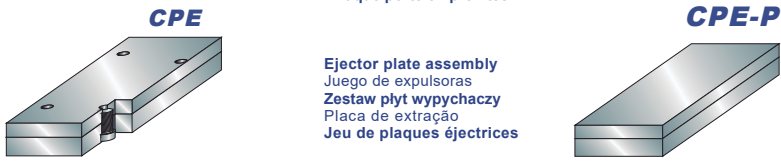
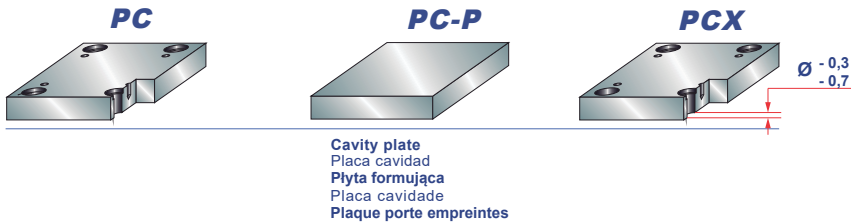
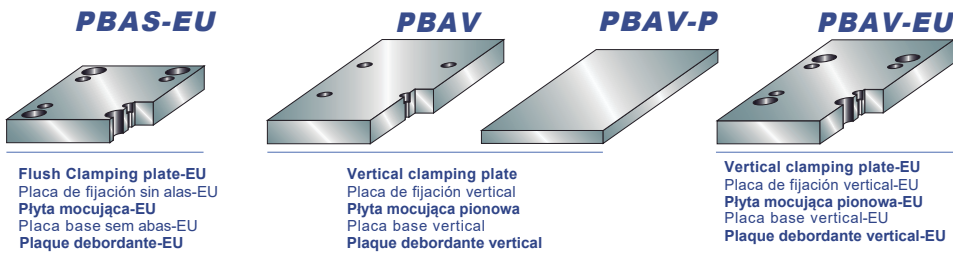
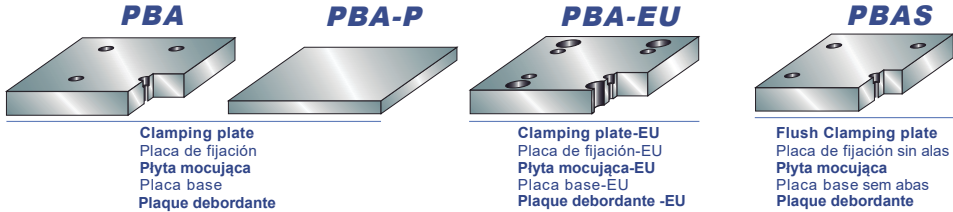
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Moulds menu



External measures

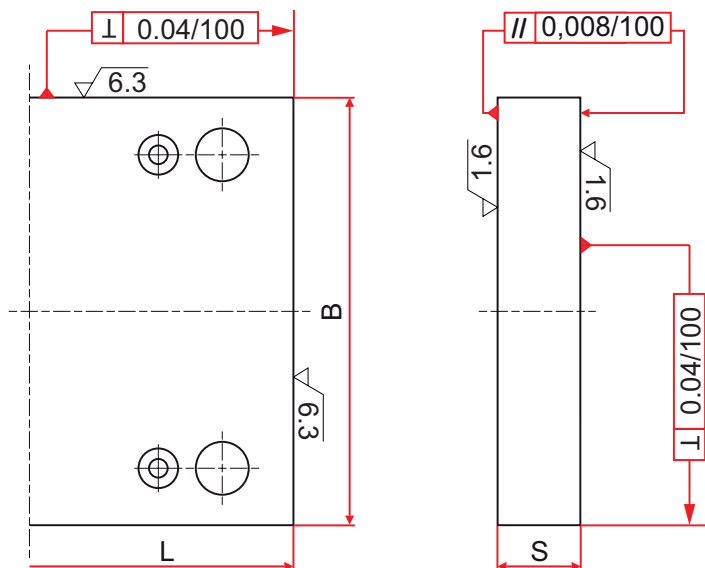
External measures - tolerances

Medidas exteriores - tolerancias

Wymiary zewnętrzne - tolerancje

Medidas externas - tolerancias

Dimensions extérieurs - tolerances



	mm	PBA - PS - ESP - CPE - PC - PCX - PCC
B	≤ 496	+0,15 0
	≤ 996	+0,20 0
L	>996	+0,30 0
		+ 0.05 / + 0.25 mm

Guide holes

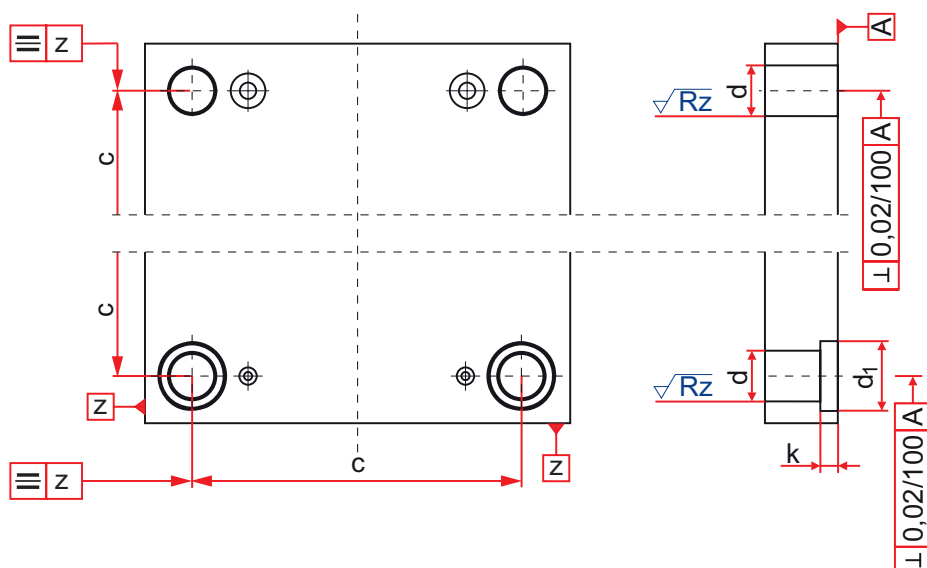
Guide holes - tolerances

Taladros guía - tolerancias

Otwory prowadzące - tolerancje

Alojamentos para guia - tolerancias

Foret pour guidage - tolerances



	mm	µm
d	>10-18	+18
	>18-30	+21
	>30-50	+25
	>50-80	+30
c	-100	±8
	>100-180	±10
	>180-315	±12
	>315-500	±15
	>500-710	±18
	>710-1000	±20
\sqrt{Rz}	d>10-80	≤10
d1	>10-80	+200 / -200
k	>3-30	+200/ 0
Z	0,10	

Screw holes

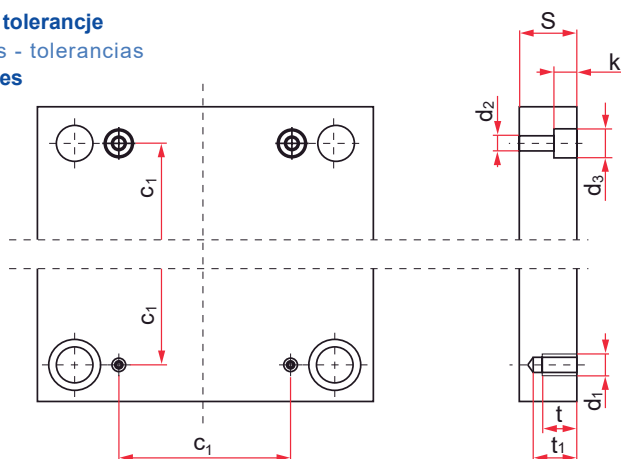
Screw holes - tolerances

Taladro para tornillos - tolerancias

Otwory śrub mocujących - tolerancje

Alojamentos de para fusos - tolerancias

Foret pour vises - tolerances



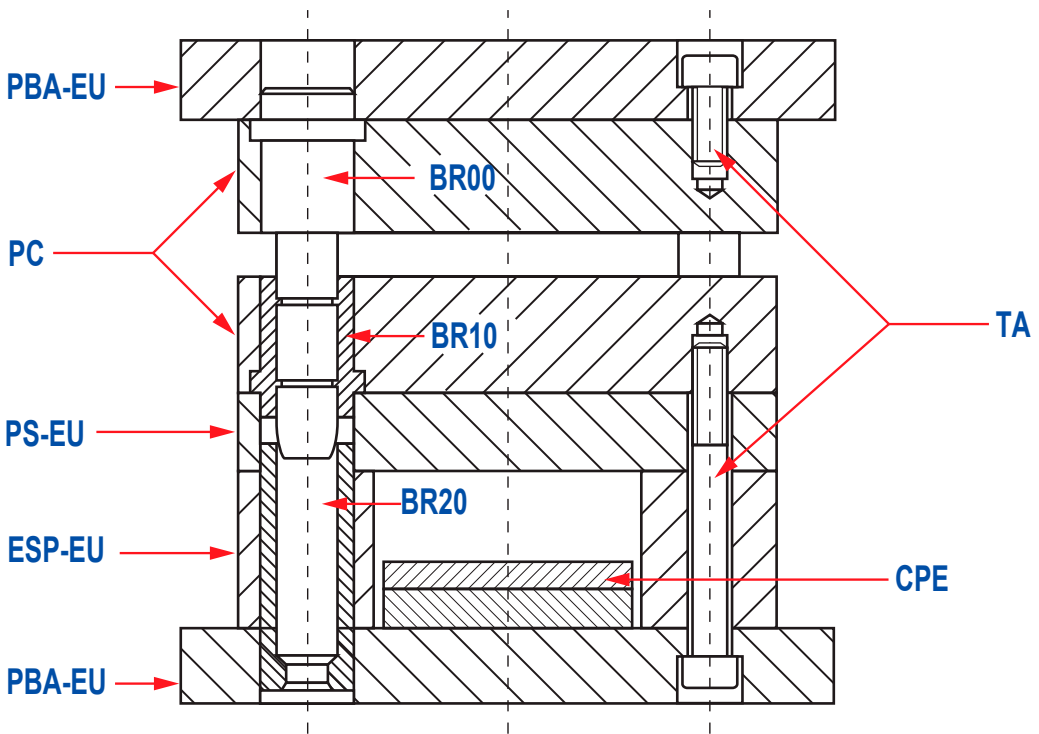
d1		M4	M6	M8	M10	M12	M16	M20
d2	Ømm	4,5	6,6	9	11	14	18	22
	Tol.	H13						
d3	Ømm	8	11	15	18	20	26	33
	Tol.	H13						
k	Ømm	4,5	7	9	13	14	18	22
	Tol.	+0,5						
C1		>30...≤120 ±0,2			>120...≤400 ±0,25		>400...≤1000 ±0,35	

d1	M4		M6		M8		M10		M12		M16		M20	
	t	t1	t	t1	t	t1	t	t1	t	t1	t	t1	t	t1
S														
9	7	-	-	-	-	-	-	-	-	-	-	-	-	-
12		9	9	11	-	-	-	-	-	-	-	-	-	-
17			12	13	12	15	-	-	-	-	-	-	-	-
22		12		15	16	20	17	20	-	-	-	-	-	-
27		20		25	22	25	-	-	-	-	-	-	-	-
36		24		30	30	34	-	-	-	-	-	-	-	-
46		32		40	39	44	-	-	-	-	-	-	-	-
56		40		50	-	-	-	-	-	-	-	-	-	-
66		-		-	-	-	-	-	-	-	-	-	-	-
76		-		-	-	-	-	-	-	-	-	-	-	-
86		-		-	-	-	-	-	-	-	-	-	-	-
96		-		-	-	-	-	-	-	-	-	-	-	-
116		-		-	-	-	-	-	-	-	-	-	-	-
136		-		-	-	-	-	-	-	-	-	-	-	-
156	-	-	-	-	-	-	-	-	-	-	-	-		
Tol.	min.7	±0,2	min.9	±0,2	min.12	±0,3	min.17	±0,3	min.20	±0,4	min.26	±0,4	min.32	±0,4

Assembly EU

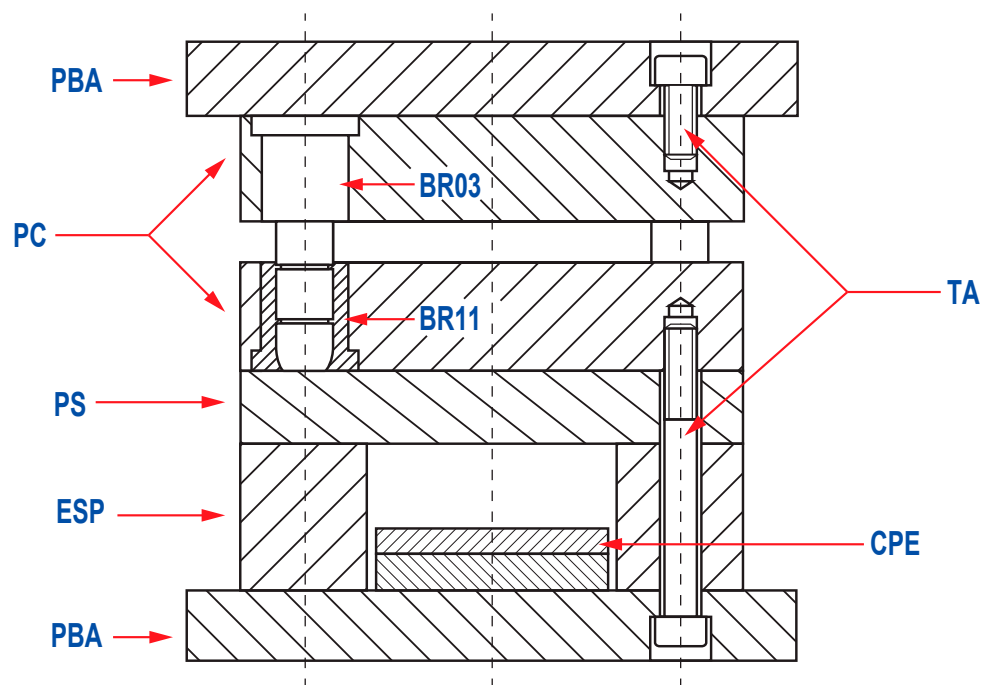


Assembly EU
Montaje EU
Złożenie EU
Montagem EU
Montage EU



Assembly Standar

Assembly standard
Montaje estandar
Złożenie standardowe
Montagem standard
Montage Standard



Steel quality



Mat. N°	1.1730
DIN	C 45 W 3.
Comp.	C: 0,45; Si: 0,30; Mn: 0,70.
Res.	Aprox. 640 N/mm2 (aprox. 65 kp/mm2).

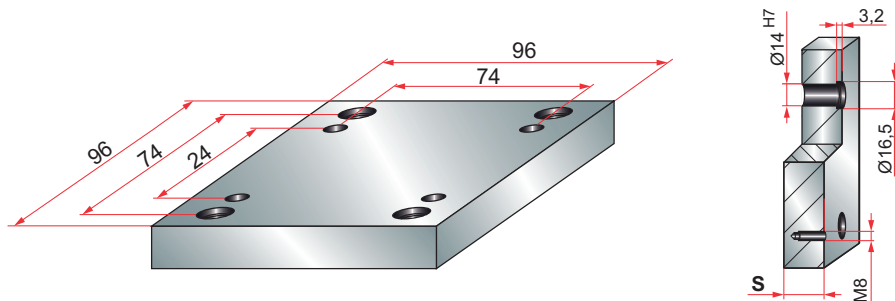
Mat. N°	1.2311
DIN	40 Cr Mn Mo 7.
Comp.	C: 0,40; Si: 0,30; Mn: 1,50; Cr: 1,90; Mo: 0,20.
Res.	Aprox. 1080 N/mm2 (aprox. 110 Kp/mm2).

Mat. N°	1.2312
DIN	40 Cr Mn Mo S 8-6.
Comp.	C: 0,38; Si: 0,30; Mn: 1,50; P: 0,020; S: 0,070; Cr: 2,00; Mo: 0,20; Cr: 5,20; Mo: 1,4; V: 1,0.
Res.	Aprox. 1080 N/mm2 (aprox. 110 kp/mm2).

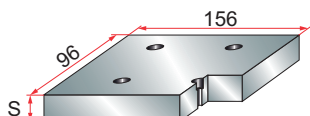
Mat. N°	1.2344
DIN	X 40 Cr Mn Mo V 5,1.
Comp.	C: 0,40; Si: 1,5; Mn: 0,40; Cr: 5,20; Mo:1,4; V: 1,0.
Res.	Aprox. 775 N/mm2 (aprox. 78 kp/mm2).

Mat. N°	1.2085
DIN	X 33 CrS 16
Comp.	C: 0,34; Si: 0,30; Mn: 0,95; P: 0,025; S: 0,10; Cr: 15,0
Res.	Aprox. 900-1050 N/mm2 (aprox. 105 kp/mm2).

	Features Charakterystyka	Applications	Zastosowanie
	Características Aptitudes	Aplicaciones	Aplicações
1.1730	Unalloyed tool steel good machinability.	Die, mold and tool making.	
	Niestopowa stal narzędziowa.	Niehartowane elementy konstrukcji form, narzędzi i urządzeń.	
	Aceros para utillajes sin aleación.	Componentes sin templar en la construcción de moldes, utillajes y dispositivos.	
	Aço para ferramentas sem liga, de fácil maquinação.	Construção dos moldes e ferramentas para peças de superestrutura, bases, calços,....	
	Acier pour outillages non allié.	Plaques et carcasses de moules matières plastiques.	
1.2311	Hardened and tempered mold steel.	Mold plates and inserts for plastics injection. Good polishing properties, good EDM properties.	
	Stal hartowana i odpuszczana.	Płyty formujące i wkładki w formach wtryskowych. Dobra polerowalność. Możliwość stosowania obróbki elektroerozyjnej.	
	Acero templado y revenido.	Placas molde y postizos para la transformación del plástico. Se deja pulir bien. Es posible aplicarle foto erosión y erosión estructural.	
	Aço pre-tratado, temperado e revenido.	Placas para moldes e postigo para a transformação de plasticos. Bóas características de polir, e possivel aplicar erosão.	
	Acier prétraité.	Moules et empreintes de moules pour matières plastiques. Aptitude au polissage, grenage et à l'usinage par electroerosion.	
1.2312	Hardened and tempered mold steel.	Conditionally suitable for core parts for pressing and injection dies without special surface requirements and low mechanical stress. Mould fittings, mould frames subject low stress. Not recommended because of poor toughness.	
	Stal hartowana i odpuszczana.	Płyty formujące i wkładki w formach wtryskowych. Dobra skrawalność, słaba polerowalność. Nie nadaje się do obróbki elektroerozyjnej.	
	Acero templado y revenido.	Solo en forma condicionada apto para punzones (machos) en herramientas de moldeo a presión e inyección, sin exigencias superficiales, escasas solicitaciones mecánicas. Accesorios de moldes, porta-moldes sujetos a pocas exigencias.	
	Aço pre-tratado, temperado e revenido.	Aplicável em apenas algumas peças centrais de molduras de injeção e de pressão, sem exigências às superfícies e de baixa tensão mecânica. Para estruturas de moldes e inserções de baixas exigências. Não é aconselhável devido à reduzida tenacidade.	
	Acier prétraité.	Seulement parfois, idéale pour poinçons (mâles) dans outils de moulage par pression ou injection, sans exigences particulières de surface et avec exigences mécaniques limitées. Accessoires moules, porte-moules soumis à des exigences limitées.	
1.2344	Hot working steel.	Extruder tools including pipe extruders. Plastics and die casting molds.	
	Stal do pracy na gorąco.	Matryce do wytłaczania rur i profili. Formy wtryskowe i do odlewania ciśnieniowego.	
	Acero para trabajo en caliente.	Matrices para extrusionar tubos y perfiles. Moldes para plásticos y fundición a presión.	
	Aço para trabalhar em quente.	Ferramentas para prensas de extrusão. Moldes para plasticos e fundição.	
	Acier pour travail en chaud.	Outillage pour extrusion. Moules pour plastique et foundrie.	
1.2085	Corrosion resistant steel for molds with high sulfur content. Very good machinability properties.	Mold holders and mold accessories used in plastic injection tools.	
	Stal nierdzewna do form, z wysoką zawartością siarki. Posiada bardzo dobre właściwości obróbcze.	Formy wtryskowe oraz akcesoria stosowane w narzędziach używanych w procesie wtrysku plastiku.	
	Acero resistente a corrosión para moldes, con elevado contenido de azufre. Muy buenas propiedades de maquinabilidad.	Porta-moldes y accesorios de moldes empleados en herramientas de inyección de plásticos.	
	Aço resistente à corrosão, para moldes com elevado grau enxofre, para ótimas características de maquinação.	Estruturas de moldes e encaixes de molduras para ferramentas de fundição resistentes a corrosão.	



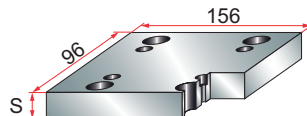
PBA



PBA	
S	17 22

mat.: 1.1730

PBA-EU

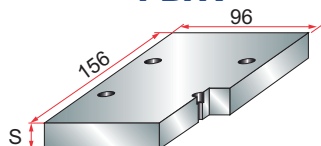


PBA-EU	
S	17 22

mat.: 1.1730



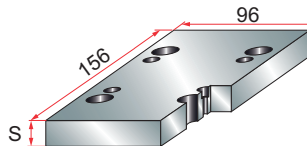
PBAV



PBAV	
S	17

mat.: 1.1730

PBAV-EU

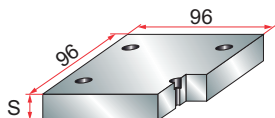


PBAV-EU	
S	17

mat.: 1.1730



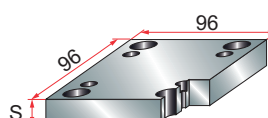
PBAS



PBAS	
S	17

mat.: 1.1730

PBAS-EU

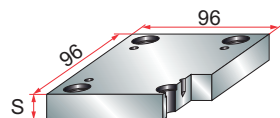


PBAS-EU	
S	17

mat.: 1.1730



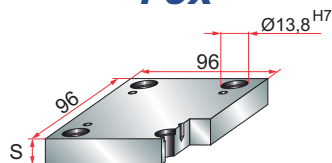
PC



		Material		
		1.1730	1.2311	1.2312
S	12	*	*	*
	17	*	*	*
	22	*	*	*
	27	*	*	*
	36	*	*	*
	46	*	*	*
56	*	*	*	



PCX



		Material			
		1.2311	1.2312	1.2085	1.2344
S	17				o
	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

PS

PS	
S	12
	17
	22

mat.: 1.1730

PS-EU

PS-EU	
S	12
	17
	22

mat.: 1.1730

ESP

ESP	
S	36
	46
	56
	66

mat.: 1.1730

ESP-EU

ESP-EU	
S	36
	46
	56
	66

mat.: 1.1730

CPE-P

mat.: 1.1730
mat.: 1.2311

P PLATES

PBA-P

PBA-P	
S	17
	22

mat.: 1.1730

PBAV-P

PBAV-P	
S	17

mat.: 1.1730

PC-P

Material					
		1.1730	1.2311	1.2312	1.2085
S	12	*	*	*	
	17	*	*	*	
	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o

* Entrega 3/4 días - Delivery 3/4 days

ESP-P

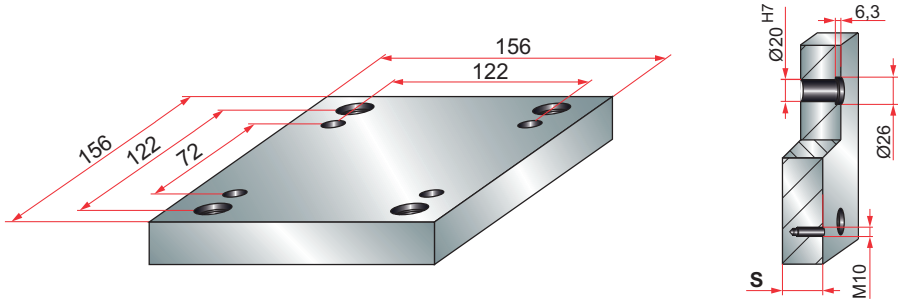
ESP-P	
S	36
	46
	56
	66

mat.: 1.1730

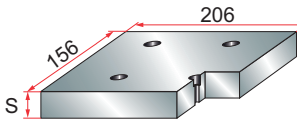
PS-P

PS-P	
S	12
	17
	22

mat.: 1.1730



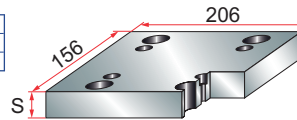
PBA



PBA	
S	22
	27

mat.: 1.1730

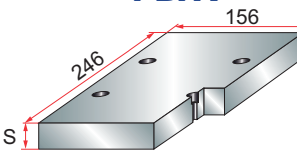
PBA-EU



PBA-EU	
S	22
	27

mat.: 1.1730

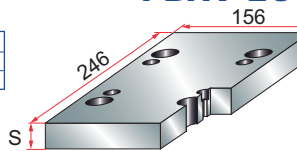
PBAV



PBAV	
S	22
	27

mat.: 1.1730

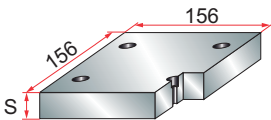
PBAV-EU



PBAV-EU	
S	22
	27

mat.: 1.1730

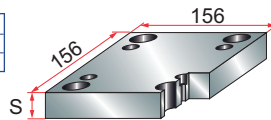
PBAS



PBAS	
S	22
	27

mat.: 1.1730

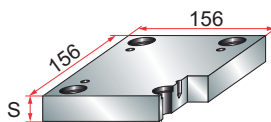
PBAS-EU



PBAS-EU	
S	22
	27

mat.: 1.1730

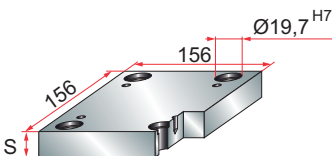
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

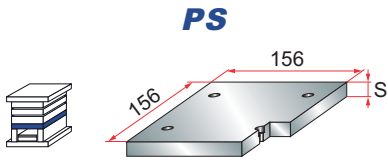
° Entrega 3/4 dias - Delivery 3/4 days

PCX



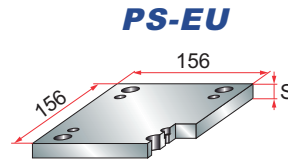
		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



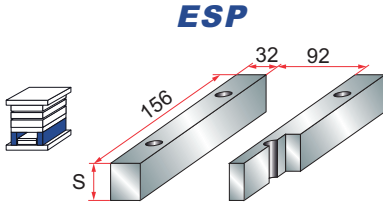
PS	
S	22
	27

mat.: 1.1730



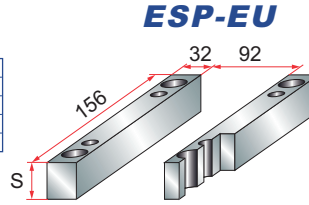
PS-EU	
S	22
	27

mat.: 1.1730



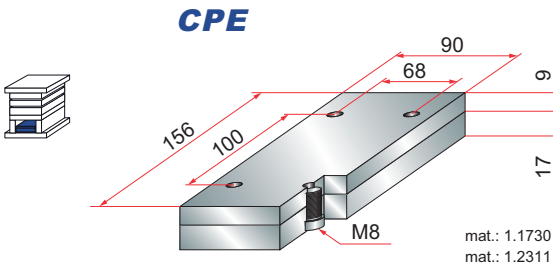
ESP	
S	46
	56
	66
	76

mat.: 1.1730



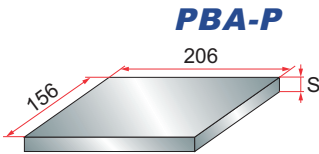
ESP-EU	
S	46
	56
	66
	76

mat.: 1.1730



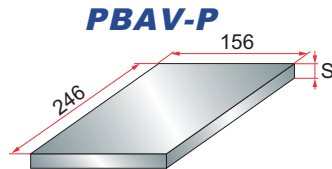
mat.: 1.1730
mat.: 1.2311

P PLATES



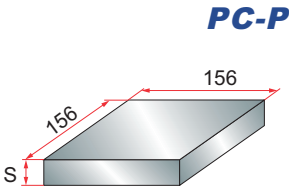
PBA-P	
S	22
	27

mat.: 1.1730



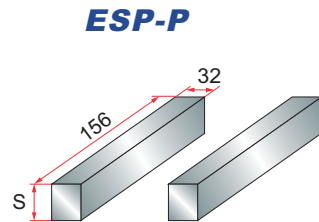
PBAV-P	
S	22
	27

mat.: 1.1730



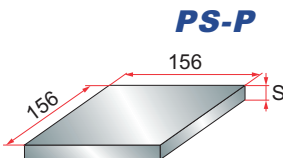
S	Material			
	1.1730	1.2311	1.2312	1.2085
22	*	*	*	o
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o

* Entrega 3/4 días - Delivery 3/4 days



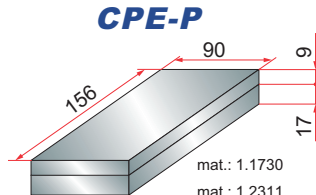
ESP-P	
S	46
	56
	66
	76

mat.: 1.1730

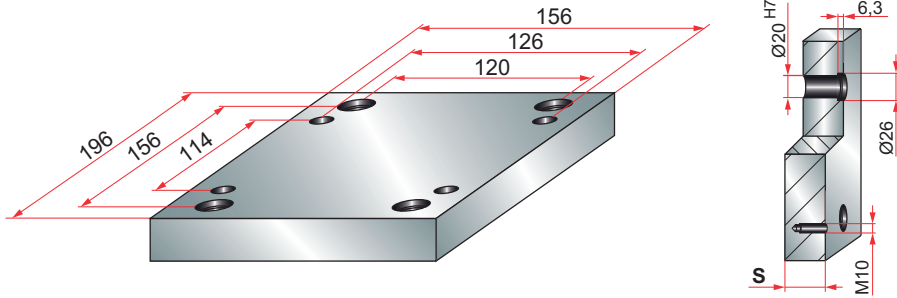


PS-P	
S	22
	27

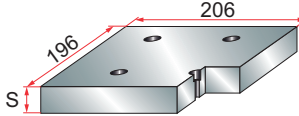
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



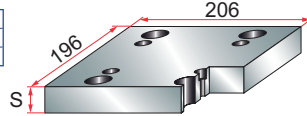
PBA



S	PBA
	22
	27

mat.: 1.1730

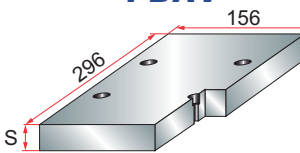
PBA-EU



S	PBA-EU
	22
	27

mat.: 1.1730

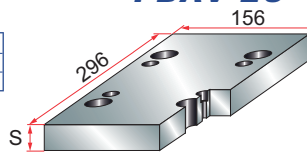
PBAV



S	PBAV
	22
	27

mat.: 1.1730

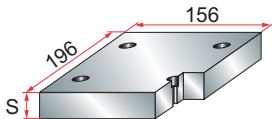
PBAV-EU



S	PBAV-EU
	22
	27

mat.: 1.1730

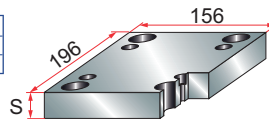
PBAS



S	PBAS
	22
	27

mat.: 1.1730

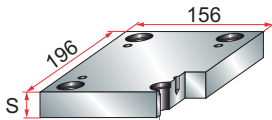
PBAS-EU



S	PBAS-EU
	22
	27

mat.: 1.1730

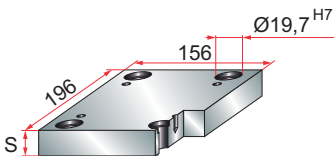
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

PS

PS	
S	22
	27

mat.: 1.1730

PS-EU

PS-EU	
S	22
	27

mat.: 1.1730

ESP

ESP	
S	46
	56
	66
	76

mat.: 1.1730

ESP-EU

ESP-EU	
S	46
	56
	66
	76

mat.: 1.1730

CPE

mat.: 1.1730
mat.: 1.2311

P PLATES

PBA-P

PBA-P	
S	22
	27

mat.: 1.1730

PBAV-P

PBAV-P	
S	22
	27

mat.: 1.1730

PC-P

S	Material			
	1.1730	1.2311	1.2312	1.2085
22	*	*	*	o
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o

ESP-P

ESP-P	
S	46
	56
	66
	76

mat.: 1.1730

* Entrega 3/4 dias - Delivery 3/4 days

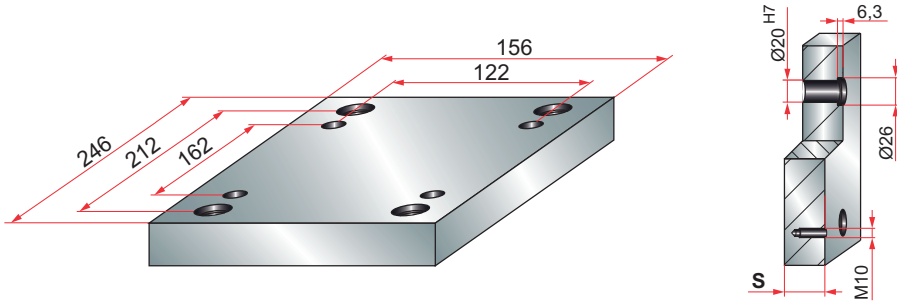
PS-P

PS-P	
S	27
	36
	46

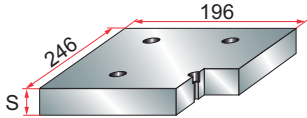
mat.: 1.1730

CPE-P

mat.: 1.1730
mat.: 1.2311



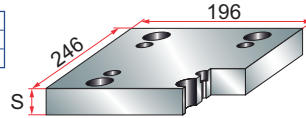
PBA



PBA	
S	22
	27

mat.: 1.1730

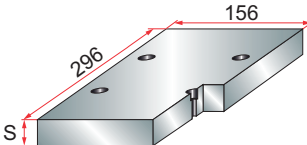
PBA-EU



PBA-EU	
S	22
	27

mat.: 1.1730

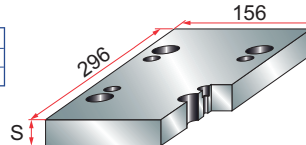
PBAV



PBAV	
S	22
	27

mat.: 1.1730

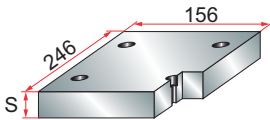
PBAV-EU



PBAV-EU	
S	22
	27

mat.: 1.1730

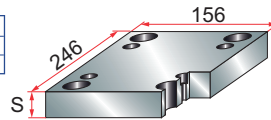
PBAS



PBAS	
S	22
	27

mat.: 1.1730

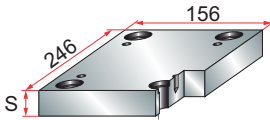
PBAS-EU



PBAS-EU	
S	22
	27

mat.: 1.1730

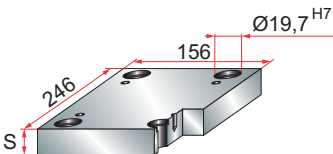
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PS

PS	
S	22
	27

mat.: 1.1730

PS-EU

PS-EU	
S	22
	27

mat.: 1.1730

ESP

ESP	
S	46
	56
	66
	76

mat.: 1.1730

ESP-EU

ESP-EU	
S	46
	56
	66
	76

mat.: 1.1730

CPE

mat.: 1.1730
mat.: 1.2311

P PLATES

PBA-P

PBA-P	
S	22
	27

mat.: 1.1730

PBAV-P

PBAV-P	
S	22
	27

mat.: 1.1730

PC-P

		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

ESP-P

ESP-P	
S	46
	56
	66
	76

mat.: 1.1730

° Entrega 3/4 días - Delivery 3/4 days

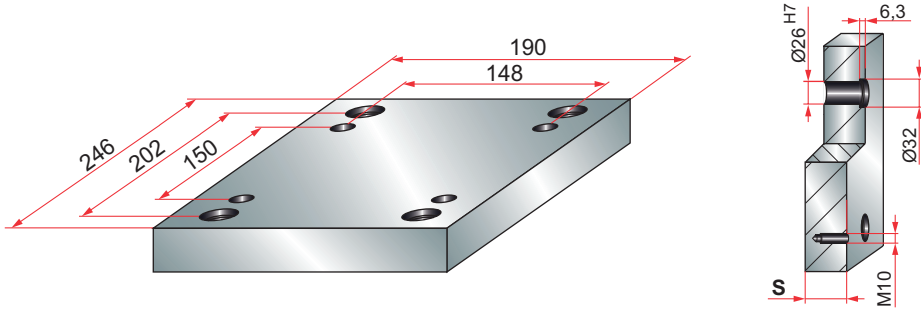
PS-P

PS-P	
S	22
	27

mat.: 1.1730

CPE-P

mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	22
	27

mat.: 1.1730

PBA-EU

PBA-EU	
S	22
	27

mat.: 1.1730

PBAV

PBAV	
S	22
	27

mat.: 1.1730

PBAV-EU

PBAV-EU	
S	22
	27

mat.: 1.1730

PBAS

PBAS	
S	22
	27

mat.: 1.1730

PBAS-EU

PBAS-EU	
S	22
	27

mat.: 1.1730

PC

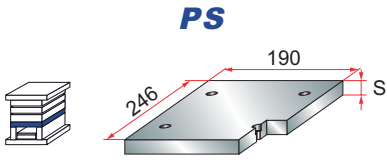
		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

PCX

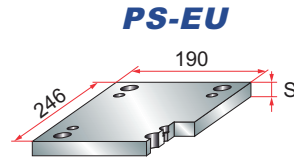
		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days



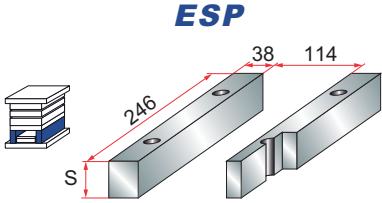
PS	
S	22
	27
	36

mat.: 1.1730



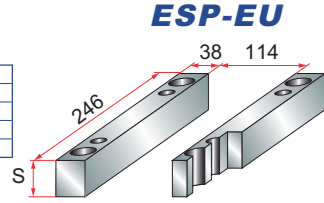
PS-EU	
S	22
	27
	36

mat.: 1.1730



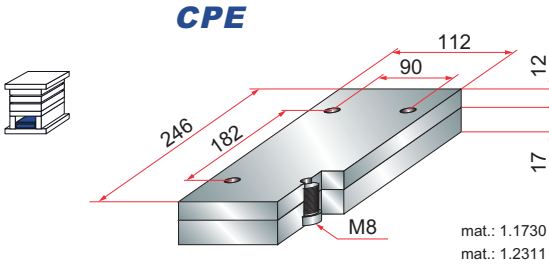
ESP	
S	46
	56
	66
	76

mat.: 1.1730



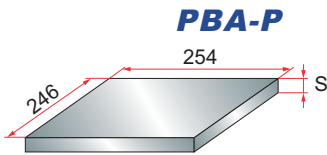
ESP-EU	
S	46
	56
	66
	76

mat.: 1.1730



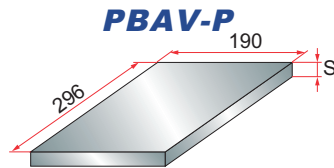
mat.: 1.1730
mat.: 1.2311

P PLATES



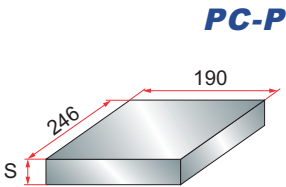
PBA-P	
S	22
	27

mat.: 1.1730



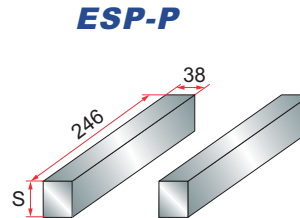
PBAV-P	
S	22
	27

mat.: 1.1730



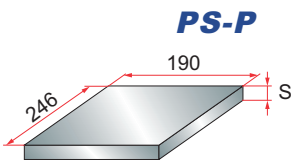
		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



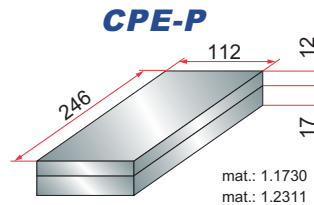
ESP-P	
S	46
	56
	66
	76

mat.: 1.1730

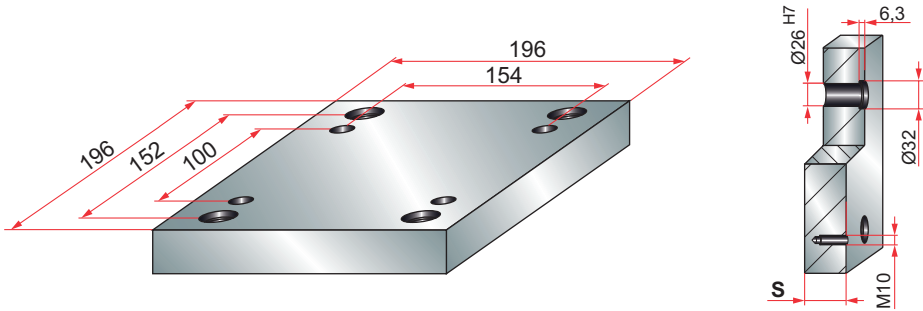


PS-P	
S	22
	27
	36

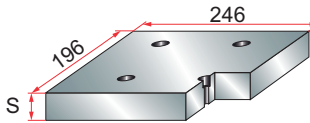
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



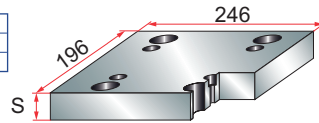
PBA



PBA	
S	22
	27

mat.: 1.1730

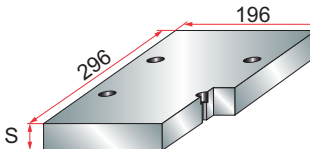
PBA-EU



PBA-EU	
S	22
	27

mat.: 1.1730

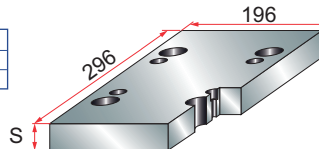
PBAV



PBAV	
S	22
	27

mat.: 1.1730

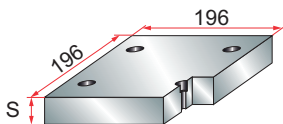
PBAV-EU



PBAV-EU	
S	22
	27

mat.: 1.1730

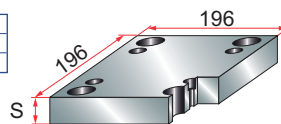
PBAS



PBAS	
S	22
	27

mat.: 1.1730

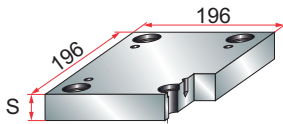
PBAS-EU



PBAS-EU	
S	22
	27

mat.: 1.1730

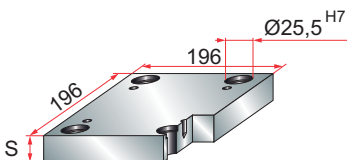
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
136	*	*	*	o	

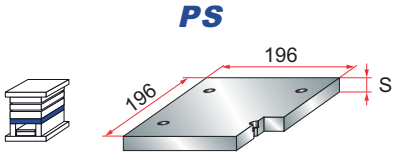
° Entrega 3/4 días - Delivery 3/4 days

PCX



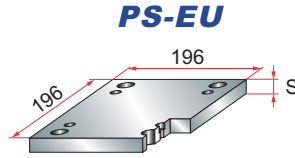
		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
136	*	*	*	o	

° Entrega 3/4 días - Delivery 3/4 days



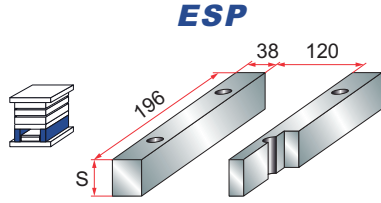
PS	
S	27
	36

mat.: 1.1730



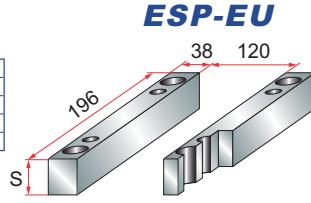
PS-EU	
S	27
	36

mat.: 1.1730



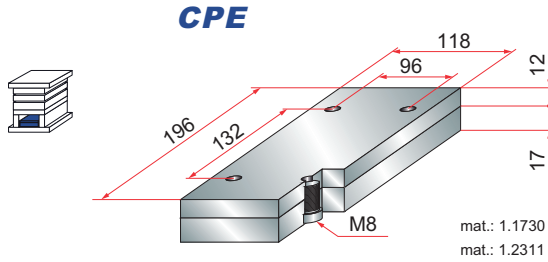
ESP	
S	46
	56
	66
	76

mat.: 1.1730



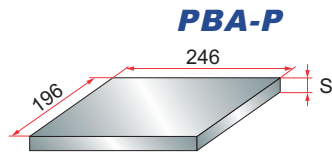
ESP-EU	
S	46
	56
	66
	76

mat.: 1.1730



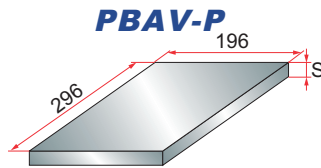
mat.: 1.1730
mat.: 1.2311

P PLATES



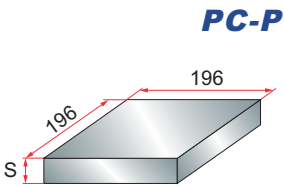
PBA-P	
S	22
	27

mat.: 1.1730



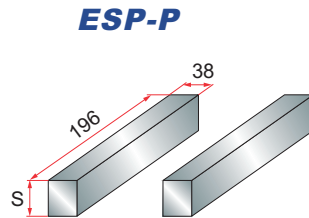
PBAV-P	
S	22
	27

mat.: 1.1730



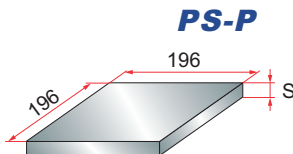
S	Material			
	1.1730	1.2311	1.2312	1.2085
22	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o

o Entrega 3/4 dias - Delivery 3/4 days



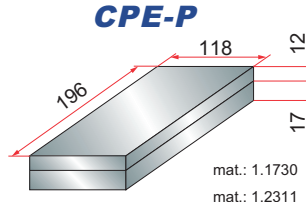
ESP-P	
S	46
	56
	66
	76

mat.: 1.1730

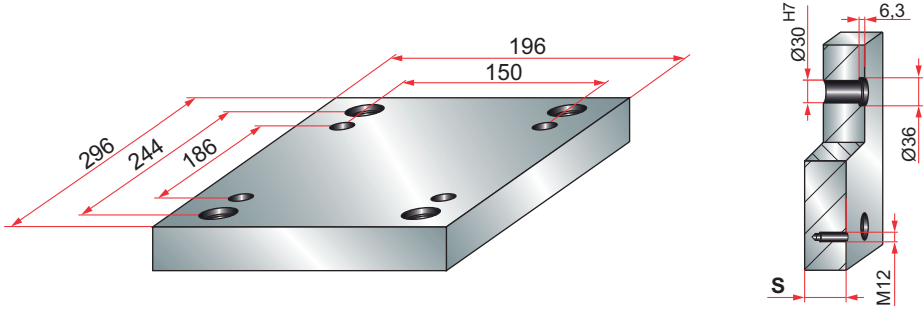


PS-P	
S	27
	36

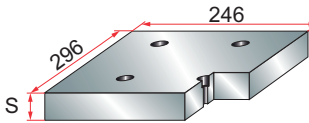
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



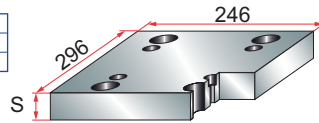
PBA



S	PBA
	27
	36

mat.: 1.1730

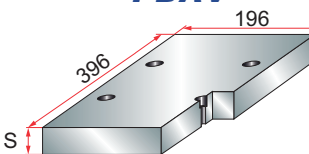
PBA-EU



S	PBA-EU
	27
	36

mat.: 1.1730

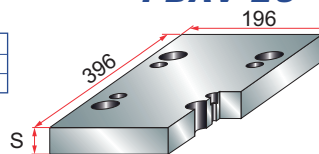
PBAV



S	PBAV
	22
	27

mat.: 1.1730

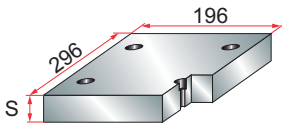
PBAV-EU



S	PBAV-EU
	22
	27

mat.: 1.1730

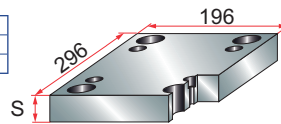
PBAS



S	PBAS
	22
	27

mat.: 1.1730

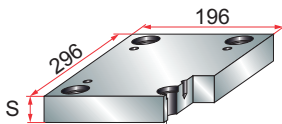
PBAS-EU



S	PBAS-EU
	22
	27

mat.: 1.1730

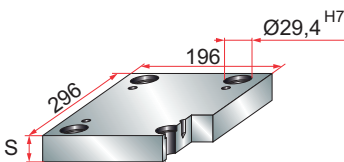
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
136	*	*	*	o	

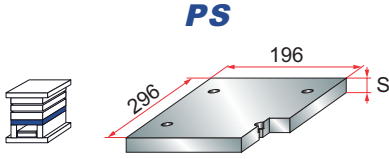
° Entrega 3/4 días - Delivery 3/4 days

PCX



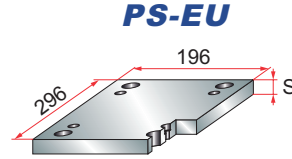
		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
136	*	*	*	o	

° Entrega 3/4 días - Delivery 3/4 days



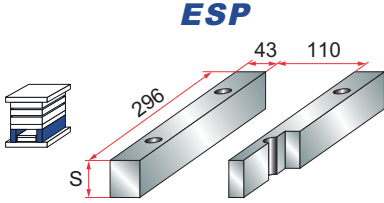
PS	
S	22
	36

mat.: 1.1730



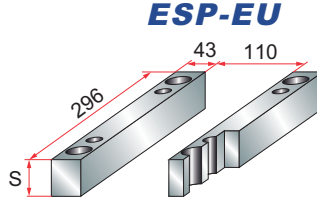
PS-EU	
S	22
	36

mat.: 1.1730



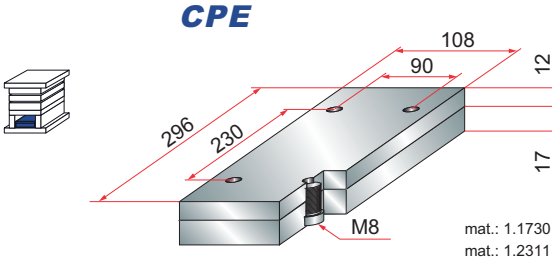
ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730



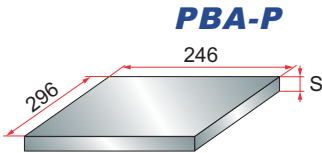
ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730



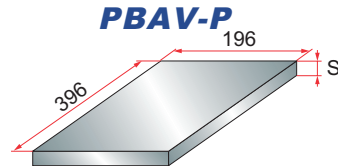
mat.: 1.1730
mat.: 1.2311

P PLATES



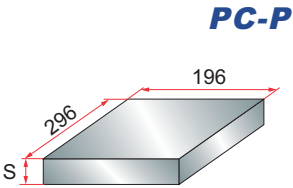
PBA-P	
S	27
	36

mat.: 1.1730



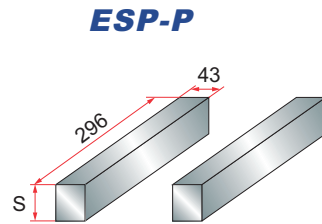
PBAV-P	
S	27
	36

mat.: 1.1730



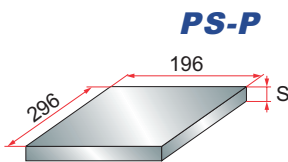
		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days



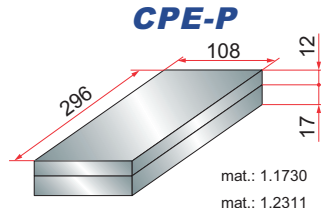
ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

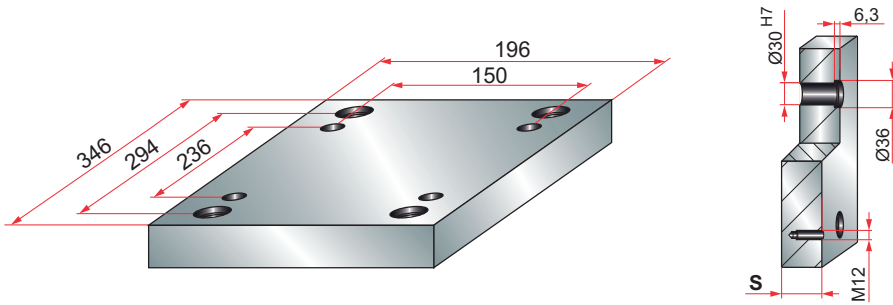


PS-P	
S	27
	36
	46

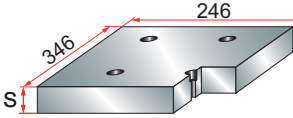
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



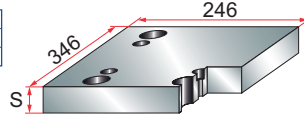
PBA



PBA	
S	27
	36

mat.: 1.1730

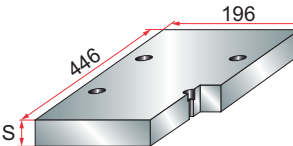
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

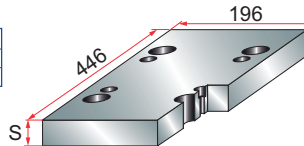
PBAV



PBAV	
S	27
	36

mat.: 1.1730

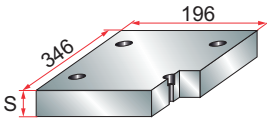
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

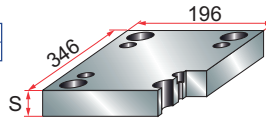
PBAS



PBAS	
S	36

mat.: 1.1730

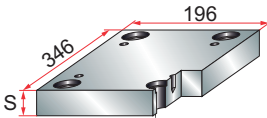
PBAS-EU



PBAS-EU	
S	36

mat.: 1.1730

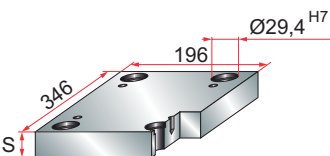
PC



S	Material			
	1.1730	1.2311	1.2312	1.2085
22	*	*	*	o
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o

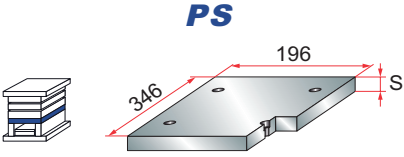
° Entrega 3/4 dias

PCX



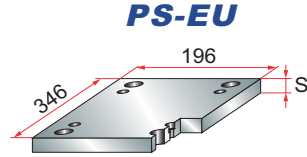
S	Material			
	1.2311	1.2312	1.2344	1.2085
22	*	*	*	o
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o

° Entrega 3/4 dias



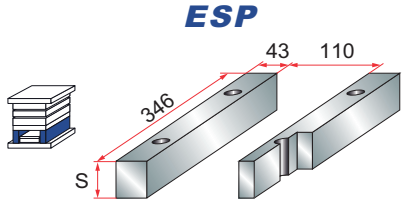
	PS
S	36

mat.: 1.1730



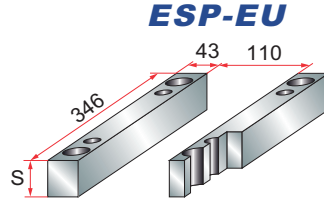
	PS-EU
S	36

mat.: 1.1730



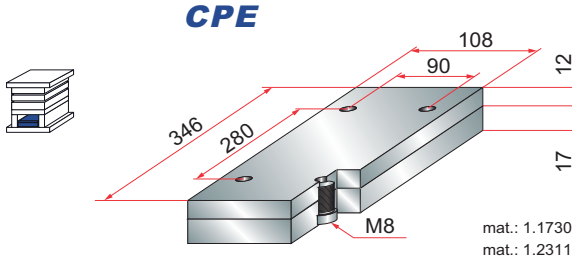
	ESP
S	56
	66
	76
	86
	96

mat.: 1.1730

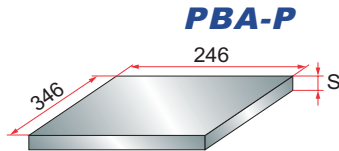


	ESP-EU
S	56
	66
	76
	86
	96

mat.: 1.1730

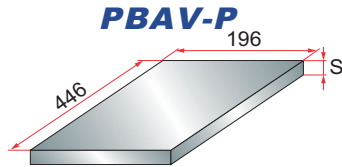


P PLATES



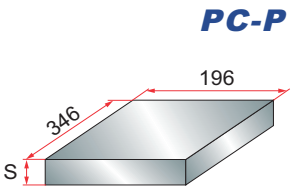
	PBA-P
S	27
	36

mat.: 1.1730



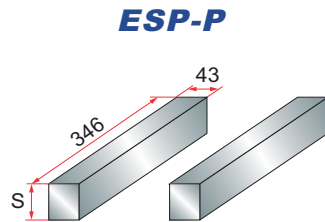
	PBAV-P
S	27
	36

mat.: 1.1730



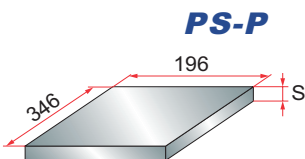
		Material		
		1.2311	1.2312	1.2085
s	22	*	*	o
	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o

o Entrega 3/4 días - Delivery 3/4 days



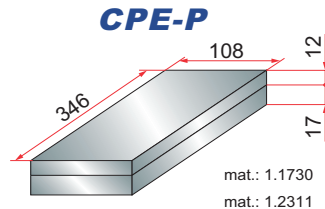
	ESP-P
S	56
	66
	76
	86
	96

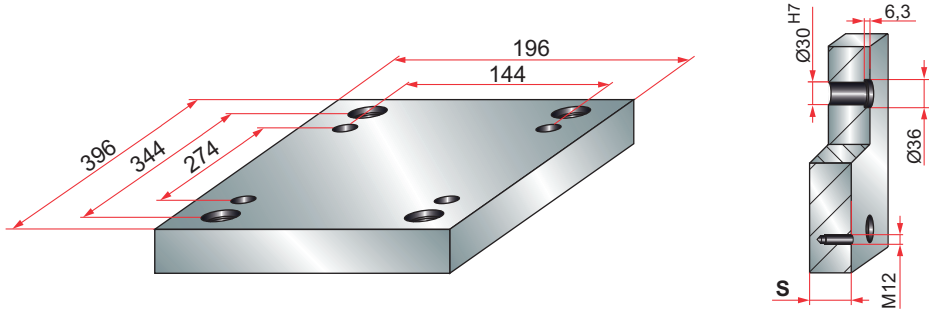
mat.: 1.1730



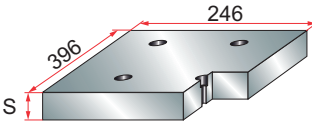
	PS-P
S	36

mat.: 1.1730





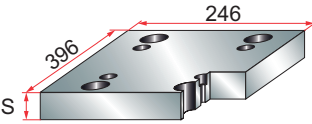
PBA



PBA	
S	27
	36

mat.: 1.1730

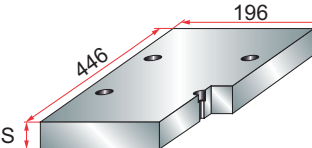
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

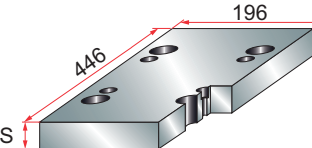
PBAV



PBAV	
S	27
	36

mat.: 1.1730

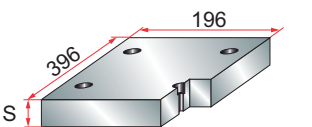
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

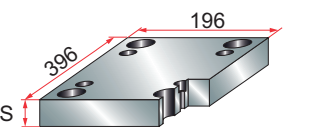
PBAS



PBAS	
S	36

mat.: 1.1730

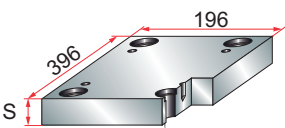
PBAS-EU



PBAS-EU	
S	36

mat.: 1.1730

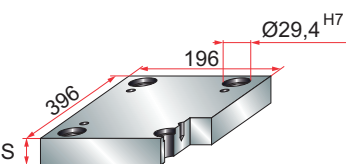
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
136	*	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days

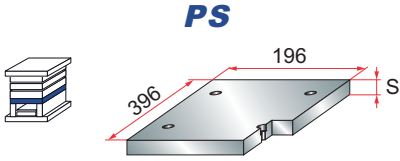
PCX



Ø29,4 H7

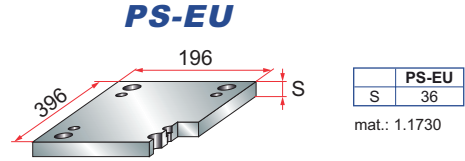
		Material			
		1.2311	1.2312	1.2344	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
136	*	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days



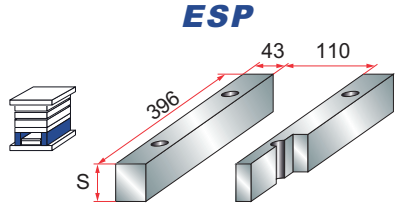
	PS
S	36

mat.: 1.1730



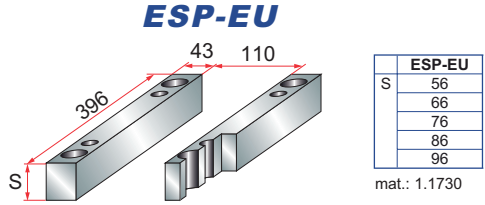
	PS-EU
S	36

mat.: 1.1730



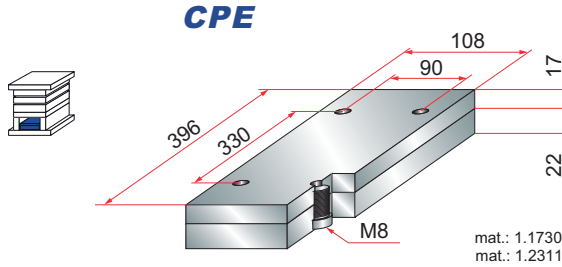
	ESP
S	56
	66
	76
	86
	96

mat.: 1.1730

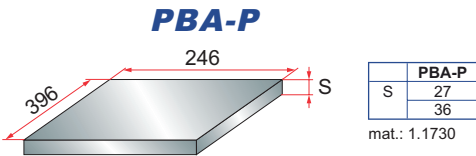


	ESP-EU
S	56
	66
	76
	86
	96

mat.: 1.1730

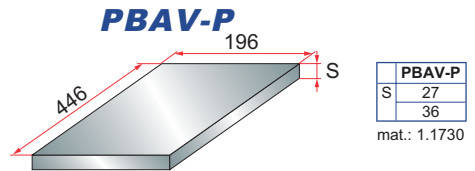


P PLATES



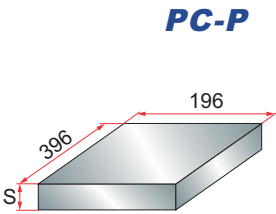
	PBA-P
S	27
	36

mat.: 1.1730



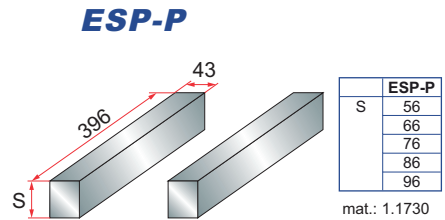
	PBAV-P
S	27
	36

mat.: 1.1730



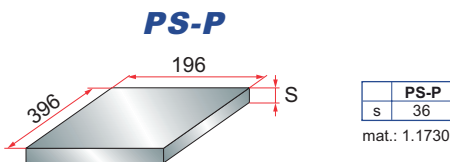
		Material			
		1.1730	1.2311	1.2312	1.2085
s	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o

^o Entrega 3/4 días



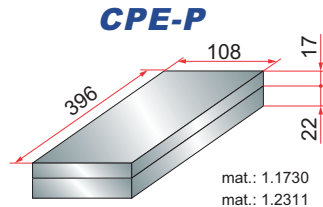
	ESP-P
S	56
	66
	76
	86
	96

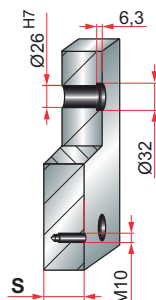
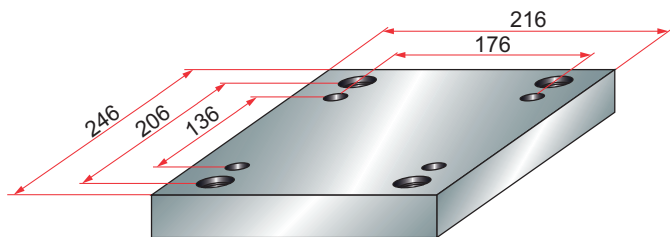
mat.: 1.1730



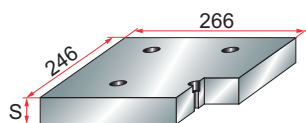
	PS-P
s	36

mat.: 1.1730





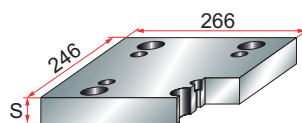
PBA



PBA	
S	22
	27
	36

mat.: 1.1730

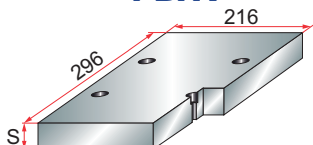
PBA-EU



PBA-EU	
S	22
	27
	36

mat.: 1.1730

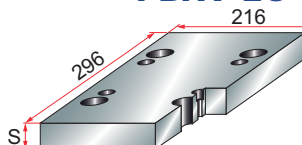
PBAV



PBAV	
S	22
	27
	36

mat.: 1.1730

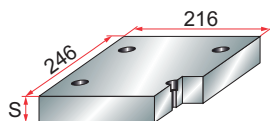
PBAV-EU



PBAV-EU	
S	22
	27
	36

mat.: 1.1730

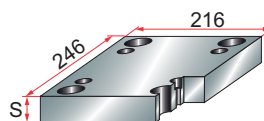
PBAS



PBAS	
S	22
	27
	36

mat.: 1.1730

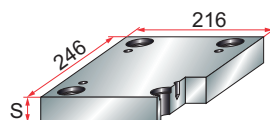
PBAS-EU



PBAS-EU	
S	22
	27
	36

mat.: 1.1730

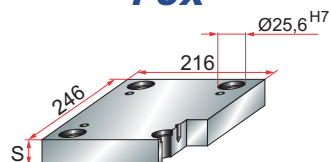
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*		o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*		o
	66	*	*		o
	76	*	*		o
	86	*	*		o
	96	*	*		o

° Entrega 3/4 días - Delivery 3/4 days

PS

PS	
S	22
	27
	36

mat.: 1.1730

PS-EU

PS-EU	
S	22
	27
	36

mat.: 1.1730

ESP

ESP	
S	46
	56
	66
	76
	86
	96

mat.: 1.1730

ESP-EU

ESP-EU	
S	46
	56
	66
	76
	86
	96

mat.: 1.1730

CPE

mat.: 1.1730
mat.: 1.2311

P PLATES

PBA-P

PBA-P	
S	22
	27
	36

mat.: 1.1730

PBAV-P

PBAV-P	
S	22
	27
	36

mat.: 1.1730

PC-P

Material				
S	1.1730	1.2311	1.2312	1.2085
	*	*	*	o
22	*	*	*	o
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

ESP-P

ESP-P	
S	46
	56
	66
	76
	86
	96

mat.: 1.1730

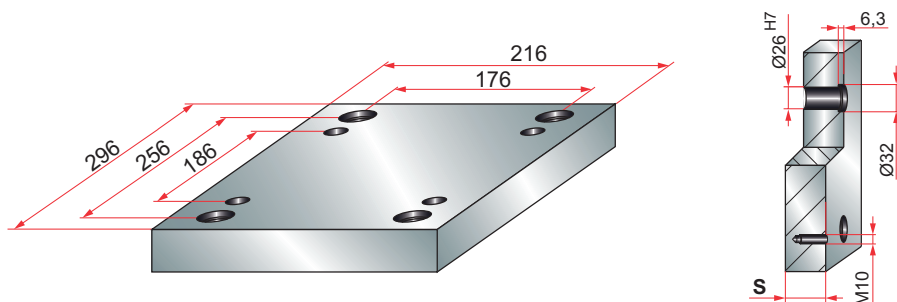
PS-P

PS-P	
S	22
	27
	36

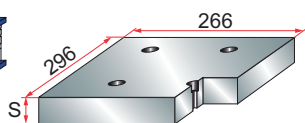
mat.: 1.1730

CPE-P

mat.: 1.1730
mat.: 1.2311



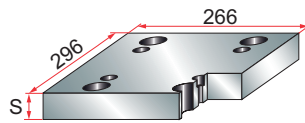
PBA



PBA	
S	22
	27
	36

mat.: 1.1730

PBA-EU

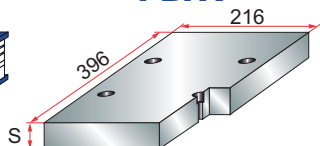


PBA-EU	
S	22
	27
	36

mat.: 1.1730



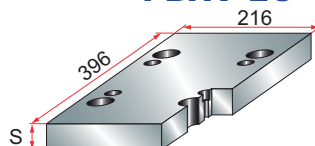
PBAV



PBAV	
S	22
	27
	36

mat.: 1.1730

PBAV-EU

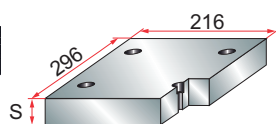


PBAV-EU	
S	22
	27
	36

mat.: 1.1730



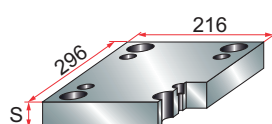
PBAS



PBAS	
S	22
	27
	36

mat.: 1.1730

PBAS-EU

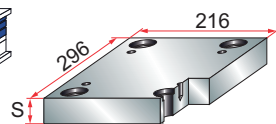


PBAS-EU	
S	22
	27
	36

mat.: 1.1730



PC

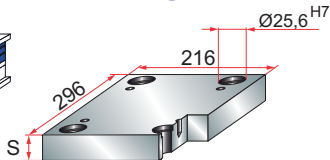


		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PS

	PS
S	22
	27
	36

mat.: 1.1730

PS-EU

	PS-EU
S	22
	27
	36

mat.: 1.1730

ESP

	ESP
S	46
	56
	66
	76
	86
	96

mat.: 1.1730

ESP-EU

	ESP-EU
S	46
	56
	66
	76
	86
	96

mat.: 1.1730

CPE

M8

mat.: 1.1730
mat.: 1.2311

P PLATES

PBA-P

	PBA-P
S	22
	27
	36

mat.: 1.1730

PBAV-P

	PBAV-P
S	22
	27
	36

mat.: 1.1730

PC-P

		Material			
		1.1730	1.2311	1.2312	1.2085
S	22	*	*	*	o
	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o

* Entrega 3/4 días - Delivery 3/4 days

ESP-P

	ESP-P
S	46
	56
	66
	76
	86
	96

mat.: 1.1730

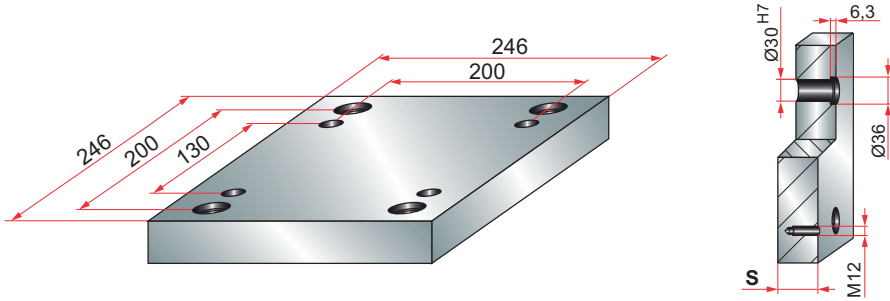
PS-P

	PS-P
S	22
	27
	36

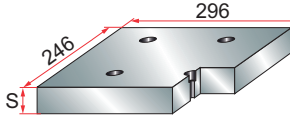
mat.: 1.1730

CPE-P

mat.: 1.1730
mat.: 1.2311



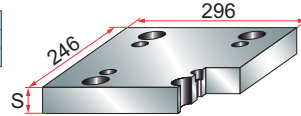
PBA



PBA	
S	27
	36

mat.: 1.1730

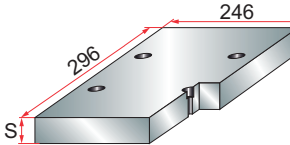
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

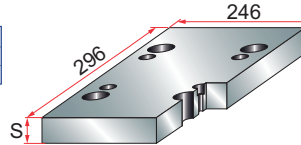
PBAV



PBAV	
S	27
	36

mat.: 1.1730

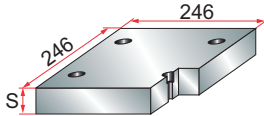
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

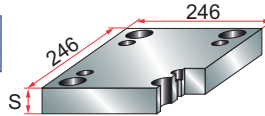
PBAS



PBAS	
S	27
	36

mat.: 1.1730

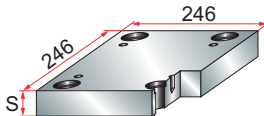
PBAS-EU



PBAS-EU	
S	27
	36

mat.: 1.1730

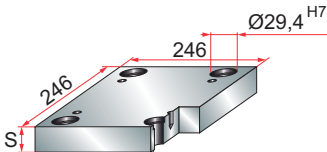
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

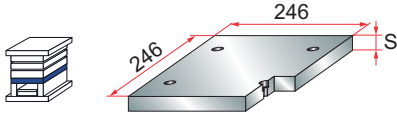
PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

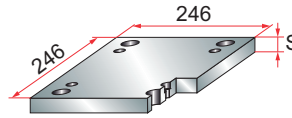
PS



PS	
S	27
	36

mat.: 1.1730

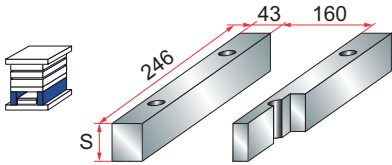
PS-EU



PS-EU	
S	27
	36

mat.: 1.1730

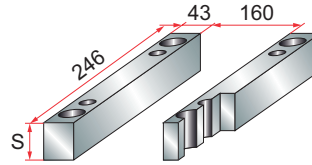
ESP



ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730

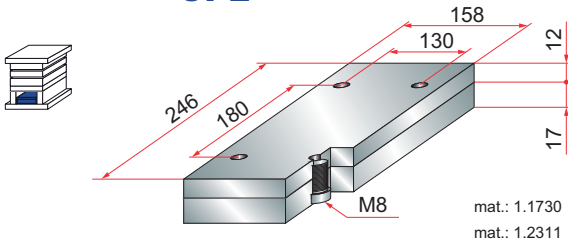
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96

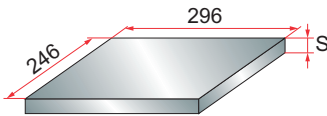
mat.: 1.1730

CPE



P PLATES

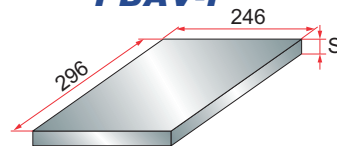
PBA-P



PBA-P	
S	27
	36

mat.: 1.1730

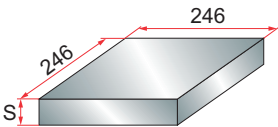
PBAV-P



PBAV-P	
S	27
	36

mat.: 1.1730

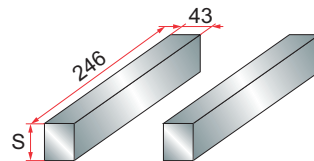
PC-P



		Material			
		1.1730	1.2311	1.2312	1.2085
s	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

o Entrega 3/4 dias - Delivery 3/4 days

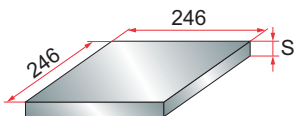
ESP-P



ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

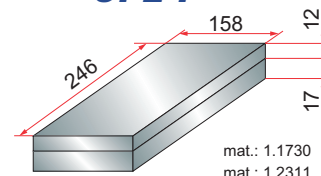
PS-P

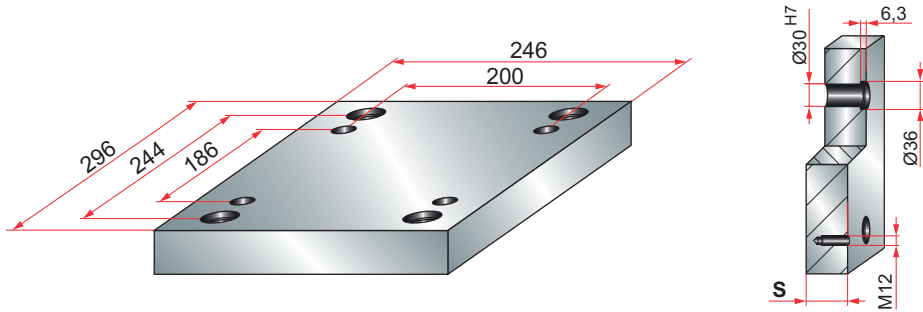


PS-P	
S	27
	36

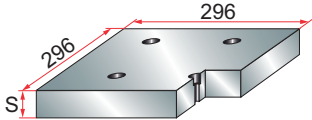
mat.: 1.1730

CPE-P





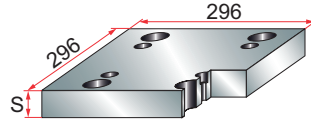
PBA



PBA	
S	27
	36

mat.: 1.1730

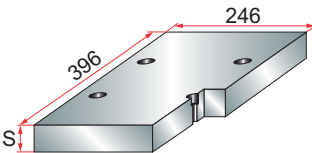
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

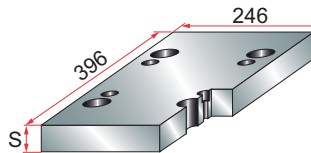
PBAV



PBAV	
S	27
	36

mat.: 1.1730

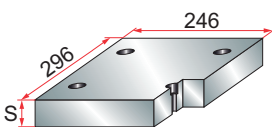
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

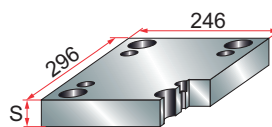
PBAS



PBAS	
S	27
	36

mat.: 1.1730

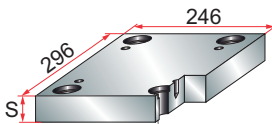
PBAS-EU



PBAS-EU	
S	27
	36

mat.: 1.1730

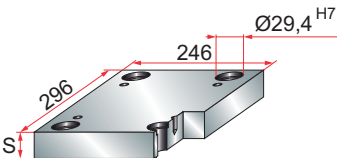
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

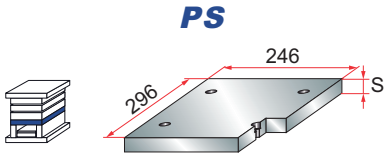
° Entrega 3/4 días - Delivery 3/4 days

PCX



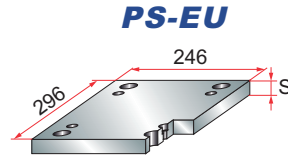
		Material			
		1.2311	1.2312	1.2344	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

° Entrega 3/4 días - Delivery 3/4 days



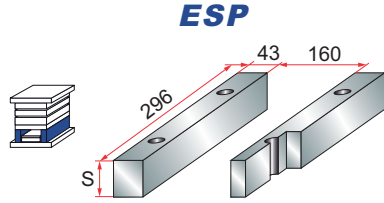
PS	
S	27
	36

mat.: 1.1730



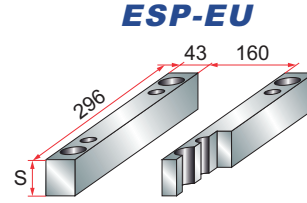
PS-EU	
S	27
	36

mat.: 1.1730



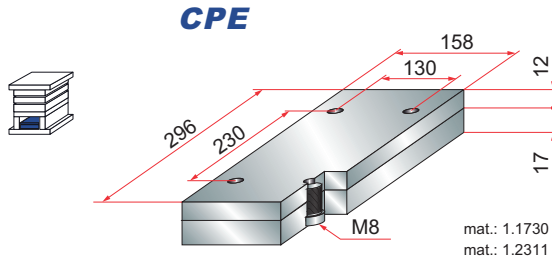
ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730



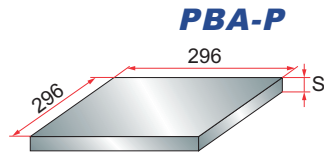
ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730



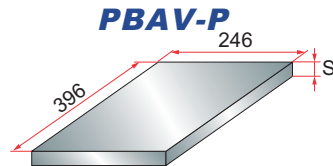
mat.: 1.1730
mat.: 1.2311

P PLATES



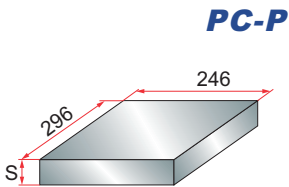
PBA-P	
S	27
	36

mat.: 1.1730



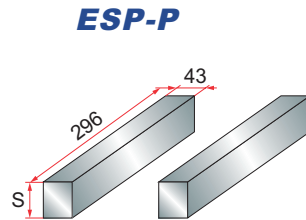
PBAV-P	
S	27
	36

mat.: 1.1730



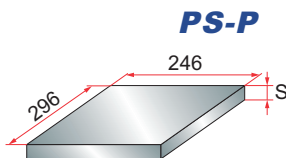
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

o Entrega 3/4 dias - Delivery 3/4 days



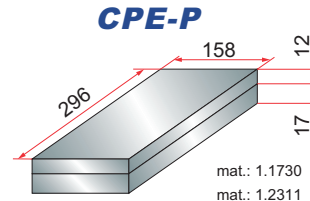
ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

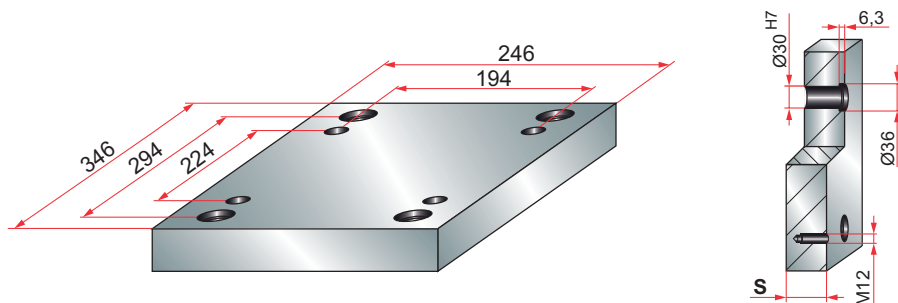


PS-P	
S	27
	36

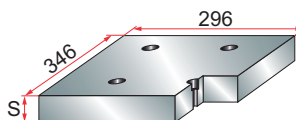
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



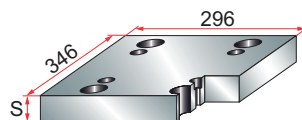
PBA



PBA	
S	27
	36

mat.: 1.1730

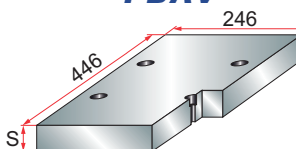
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

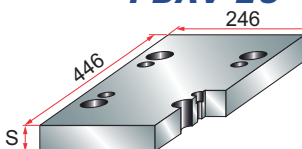
PBAV



PBAV	
S	27
	36

mat.: 1.1730

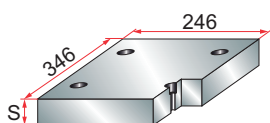
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

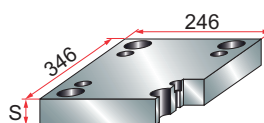
PBAS



PBAS	
S	27
	36
	46

mat.: 1.1730

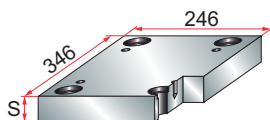
PBAS-EU



PBAS-EU	
S	27
	36
	46

mat.: 1.1730

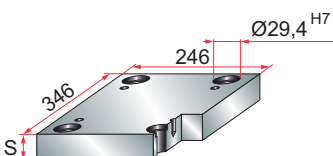
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days

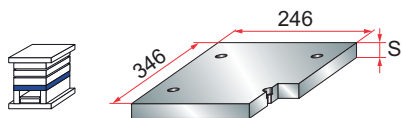
PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days

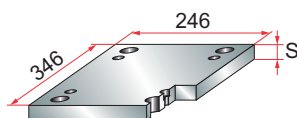
PS



PS	
S	27
	36
	46

mat.: 1.1730

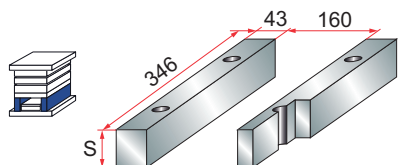
PS-EU



PS-EU	
S	27
	36
	46

mat.: 1.1730

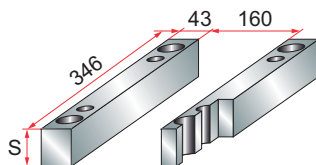
ESP



ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730

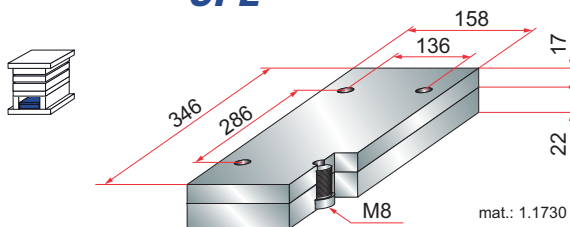
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730

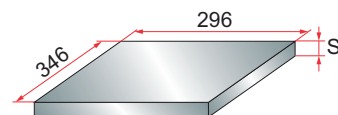
CPE



mat.: 1.1730
mat.: 1.2311

P PLATES

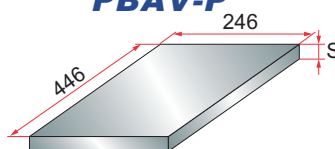
PBA-P



PBA-P	
S	27
	36

mat.: 1.1730

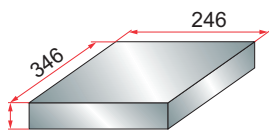
PBAV-P



PBAV-P	
S	27
	36

mat.: 1.1730

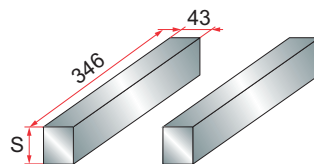
PC-P



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

* Entrega 3/4 días - Delivery 3/4 days

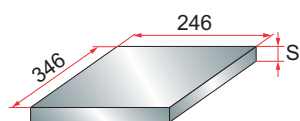
ESP-P



ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

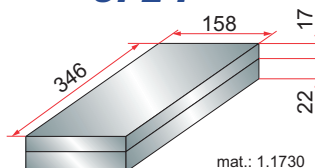
PS-P



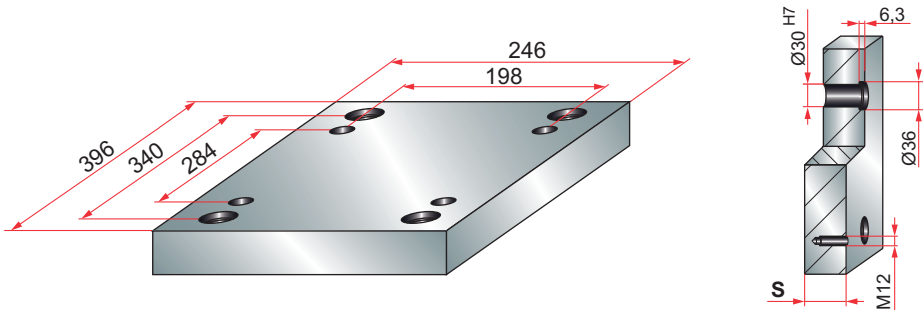
PS-P	
S	27
	36
	46

mat.: 1.1730

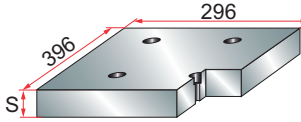
CPE-P



mat.: 1.1730



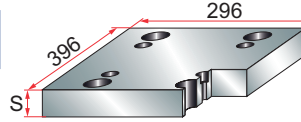
PBA



PBA	
S	27
	36

mat.: 1.1730

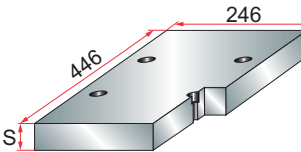
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

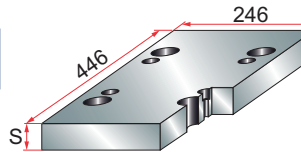
PBAV



PBAV	
S	27
	36

mat.: 1.1730

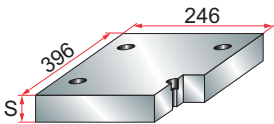
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

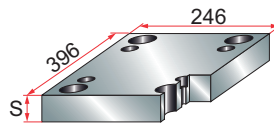
PBAS



PBAS	
S	27
	36
	46

mat.: 1.1730

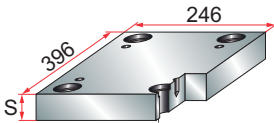
PBAS-EU



PBAS-EU	
S	27
	36
	46

mat.: 1.1730

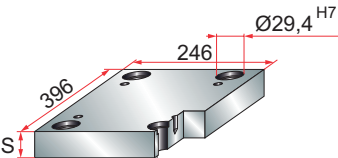
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

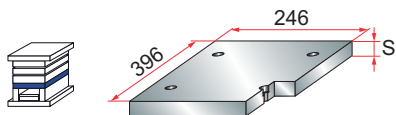
PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

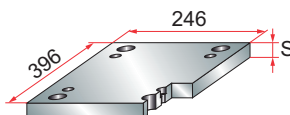
PS



PS	
S	27
	36
	46

mat.: 1.1730

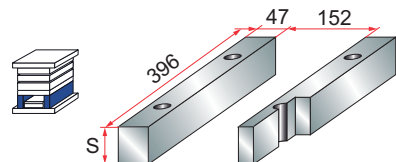
PS-EU



PS-EU	
S	27
	36
	46

mat.: 1.1730

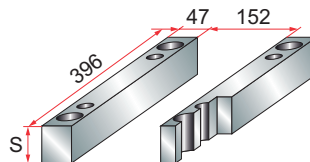
ESP



ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730

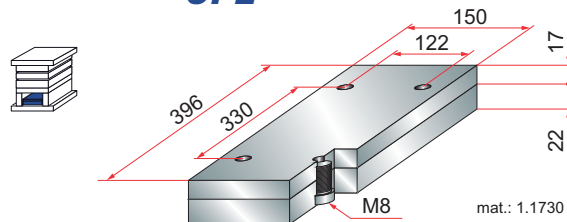
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730

CPE

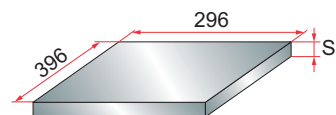


mat.: 1.1730

mat.: 1.2311

P PLATES

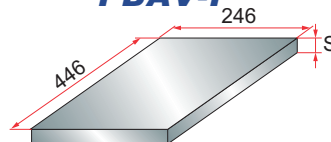
PBA-P



PBA-P	
S	27
	36

mat.: 1.1730

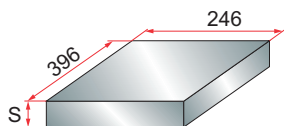
PBAV-P



PBAV-P	
S	27
	36

mat.: 1.1730

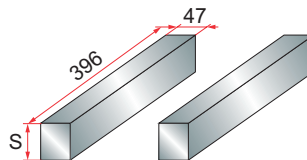
PC-P



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

o Entrega 3/4 dias - Delivery 3/4 days

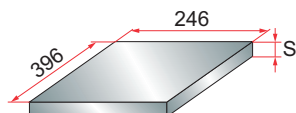
ESP-P



ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

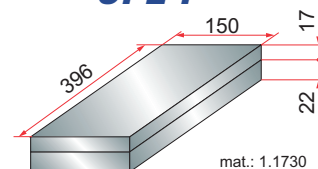
PS-P



PS-P	
S	27
	36
	46

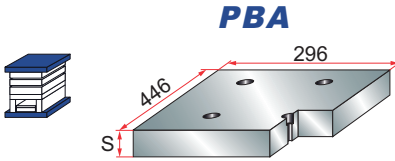
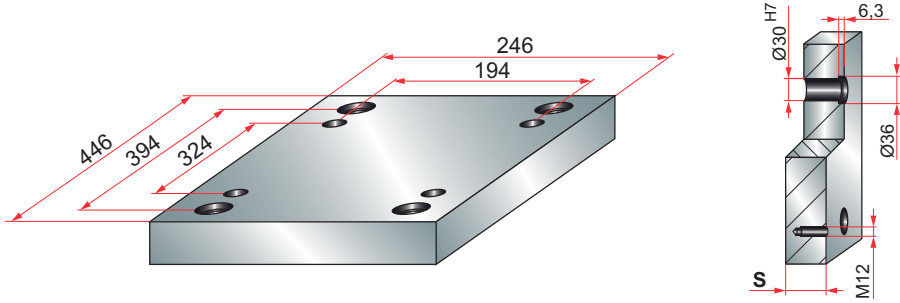
mat.: 1.1730

CPE-P



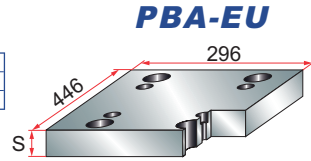
mat.: 1.1730

mat.: 1.2311



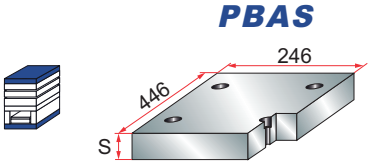
PBA	
S	27
	36

mat.: 1.1730



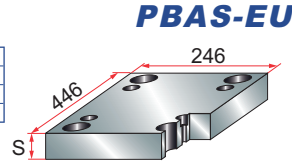
PBA-EU	
S	27
	36

mat.: 1.1730



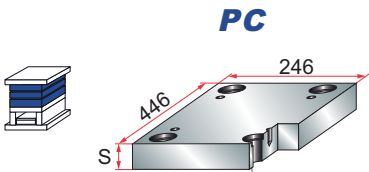
PBAS	
S	27
	36
	46

mat.: 1.1730



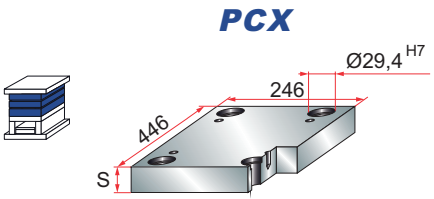
PBAS-EU	
S	27
	36
	46

mat.: 1.1730



S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



S	Material			
	1.2311	1.2312	1.2344	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PS

PS	
S	27
	36
	46

mat.: 1.1730

PS-EU

PS-EU	
S	27
	36
	46

mat.: 1.1730

ESP

ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730

ESP-EU

ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730

CPE

mat.: 1.1730

P PLATES

PBA-P

PBA-P	
S	27
	36

mat.: 1.1730

PC-P

Material					
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

o Entrega 3/4 dias - Delivery 3/4 days

ESP-P

ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

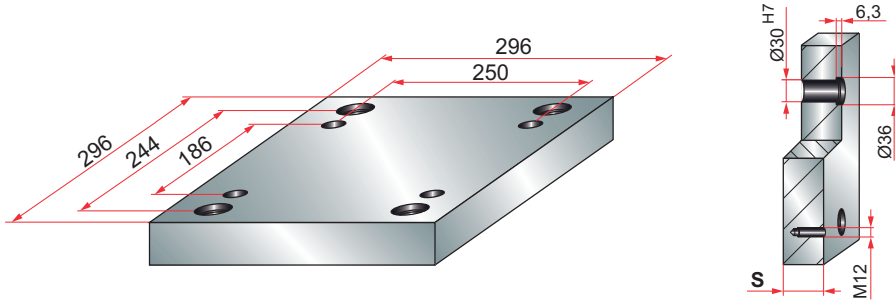
PS-P

PS-P	
S	27
	36
	46

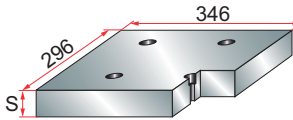
mat.: 1.1730

CPE-P

mat.: 1.1730
mat.: 1.2311



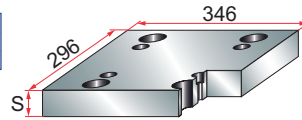
PBA



	PBA
S	27
	36

mat.: 1.1730

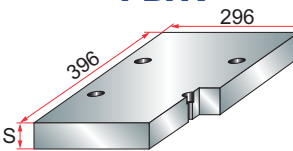
PBA-EU



	PBA-EU
S	27
	36

mat.: 1.1730

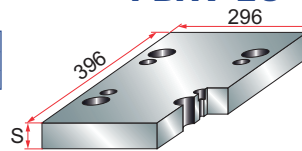
PBAV



	PBAV
S	27
	36

mat.: 1.1730

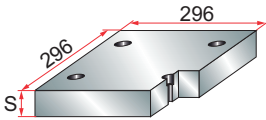
PBAV-EU



	PBAV-EU
S	27
	36

mat.: 1.1730

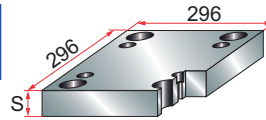
PBAS



	PBAS
S	27
	36
	46

mat.: 1.1730

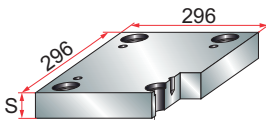
PBAS-EU



	PBAS-EU
S	27
	36
	46

mat.: 1.1730

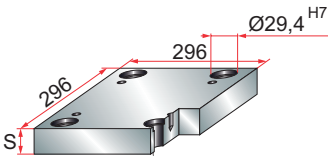
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PCX



		Material			
		1.2311	1.2312	1.2344	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PS

PS	
S	27
	36
	46

mat.: 1.1730

PS-EU

PS-EU	
S	27
	36
	46

mat.: 1.1730

ESP

ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730

ESP-EU

ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730

CPE

mat.: 1.1730
mat.: 1.2311

P PLATES

PBA-P

PBA-P	
S	27
	36

mat.: 1.1730

PBAV-P

PBAV-P	
S	27
	36

mat.: 1.1730

PC-P

S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

o Entrega 3/4 dias - Delivery 3/4 days

ESP-P

ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

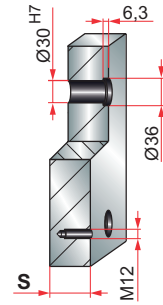
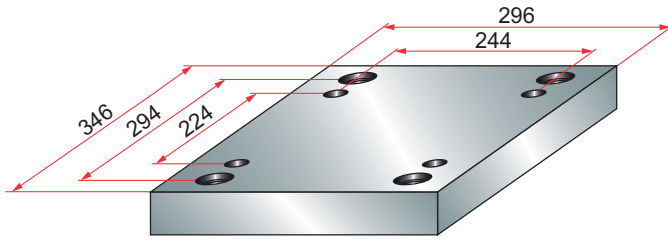
PS-P

PS-P	
S	27
	36
	46

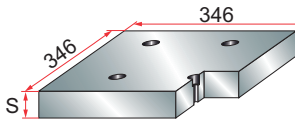
mat.: 1.1730

CPE-P

mat.: 1.1730

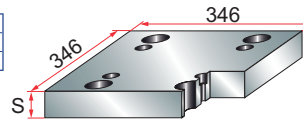


PBA



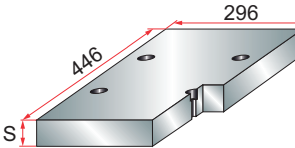
	PBA
S	27
	36
mat.: 1.1730	

PBA-EU



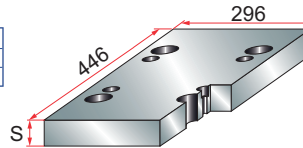
	PBA-EU
S	27
	36
mat.: 1.1730	

PBAV



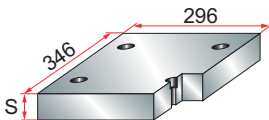
	PBAV
S	27
	36
mat.: 1.1730	

PBAV-EU



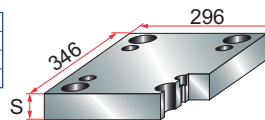
	PBAV-EU
S	27
	36
mat.: 1.1730	

PBAS



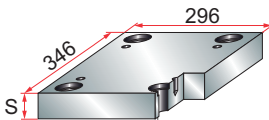
	PBAS
S	27
	36
	46
mat.: 1.1730	

PBAS-EU



	PBAS-EU
S	27
	36
	46
mat.: 1.1730	

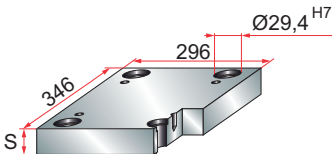
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

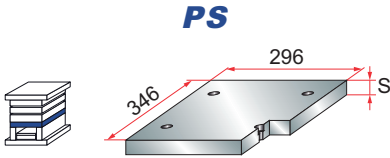
* Entrega 3/4 días - Delivery 3/4 days

PCX



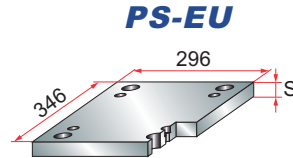
		Material			
		1.2311	1.2312	1.2344	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

* Entrega 3/4 días - Delivery 3/4 days



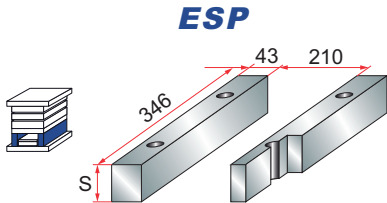
PS	
S	27
	36
	46

mat.: 1.1730



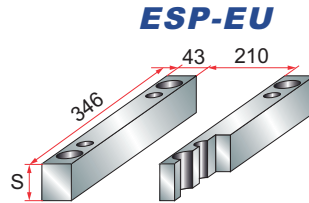
PS-EU	
S	27
	36
	46

mat.: 1.1730



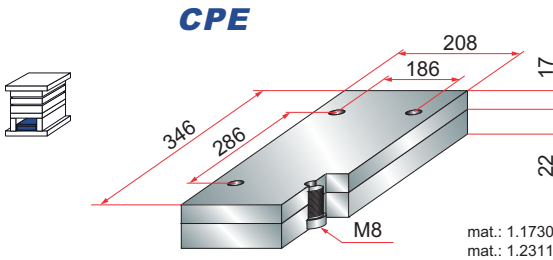
ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730



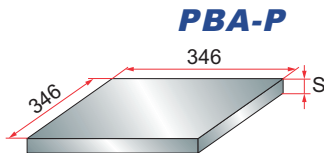
ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730



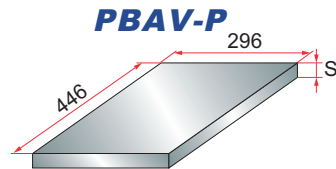
mat.: 1.1730
mat.: 1.2311

P PLATES



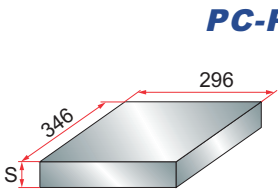
PBA-P	
S	27
	36

mat.: 1.1730



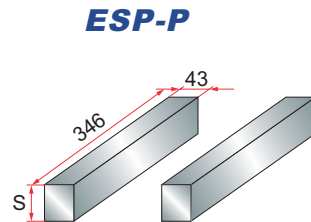
PBAV-P	
S	27
	36

mat.: 1.1730



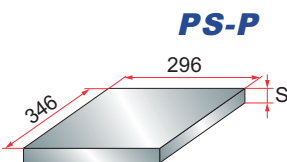
S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

* Entrega 3/4 dias - Delivery 3/4 days



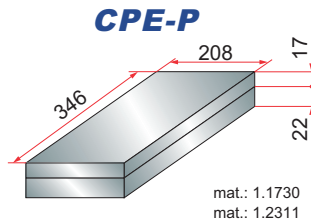
ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

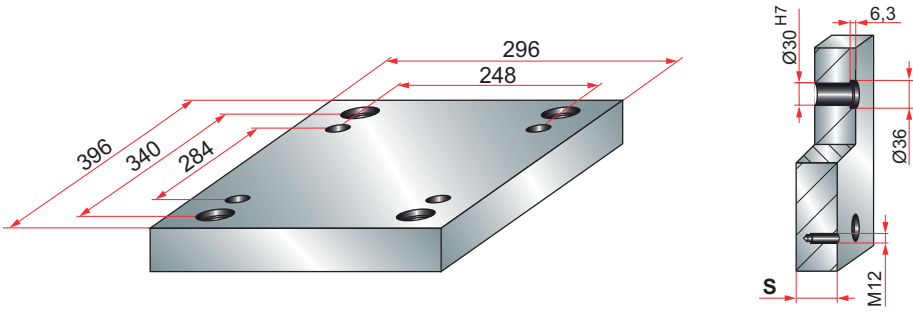


PS-P	
S	27
	36
	46

mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	27
	36

mat.: 1.1730

PBA-EU

PBA-EU	
S	27
	36

mat.: 1.1730

PBAV

PBAV	
S	27
	36

mat.: 1.1730

PBAV-EU

PBAV-EU	
S	27
	36

mat.: 1.1730

PBAS

PBAS	
S	27
	36
	46

mat.: 1.1730

PBAS-EU

PBAS-EU	
S	27
	36
	46

mat.: 1.1730

PC

		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

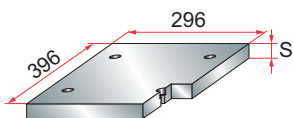
PCX

		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



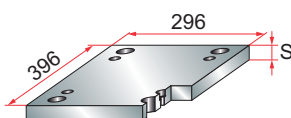
PS



PS	
S	27
	36
	46

mat.: 1.1730

PS-EU

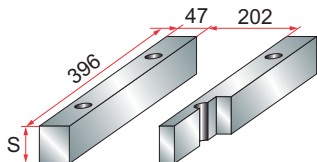


PS-EU	
S	27
	36
	46

mat.: 1.1730



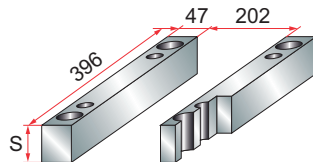
ESP



ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730

ESP-EU

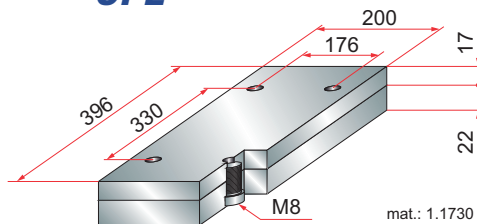


ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730

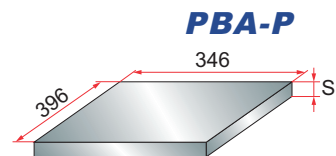


CPE



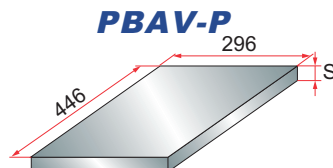
mat.: 1.1730

P PLATES



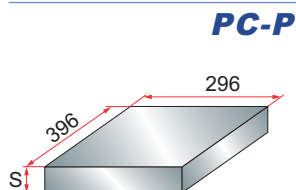
PBA-P	
S	27
	36

mat.: 1.1730



PBAV-P	
S	27
	36

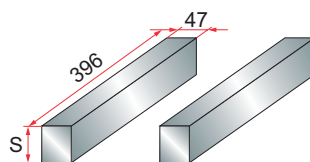
mat.: 1.1730



S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

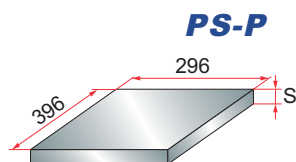
* Entrega 3/4 días - Delivery 3/4 days

ESP-P



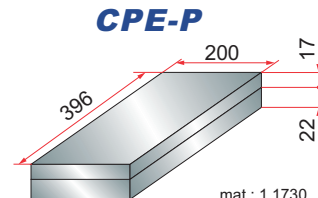
ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

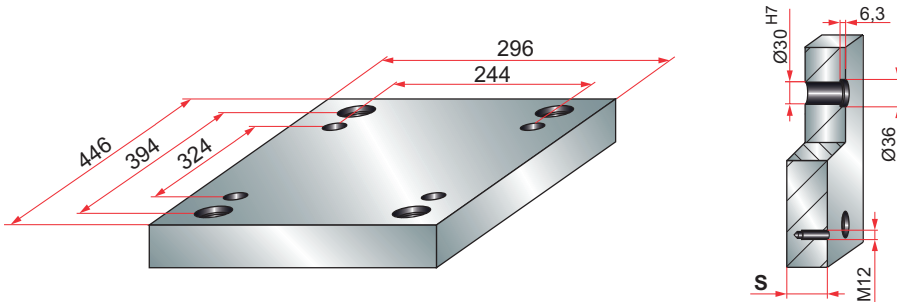


PS-P	
S	27
	36
	46

mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	27
	36

mat.: 1.1730

PBA-EU

PBA-EU	
S	27
	36

mat.: 1.1730

PBAS

PBAS	
S	27
	36
	46

mat.: 1.1730

PBAS-EU

PBAS-EU	
S	27
	36
	46

mat.: 1.1730

PC

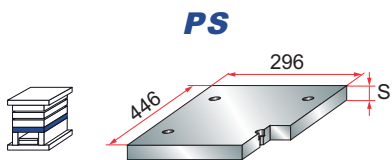
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86		*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156		*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PCX

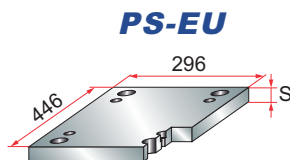
		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



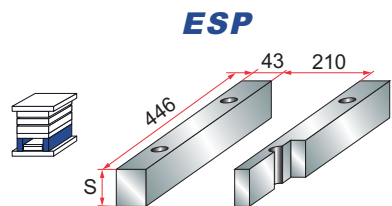
PS	
S	27
	36
	46

mat.: 1.1730



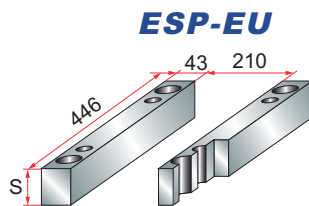
PS-EU	
S	27
	36
	46

mat.: 1.1730



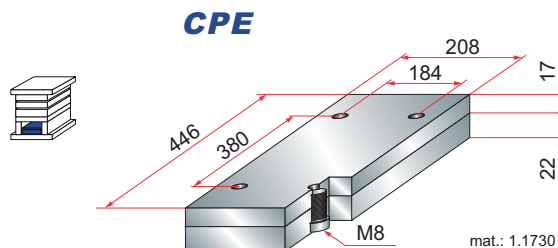
ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730



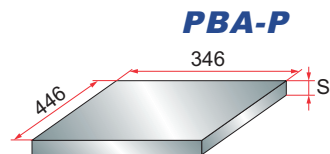
ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730



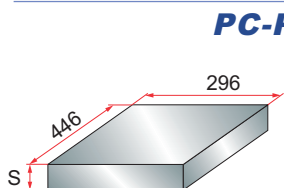
mat.: 1.1730

P PLATES



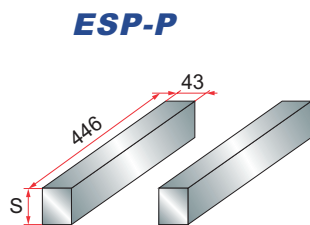
PBA-P	
S	27
	36

mat.: 1.1730



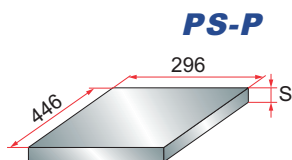
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

* Entrega 3/4 días - Delivery 3/4 days



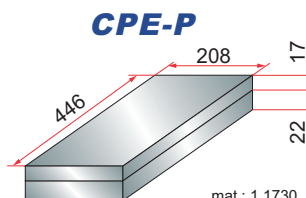
ESP-P	
S	56
	66
	76
	86
	96

mat.: 1.1730

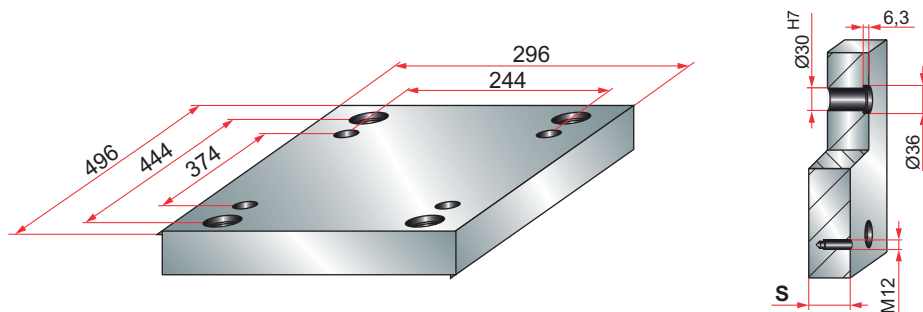


PS-P	
S	27
	36
	46

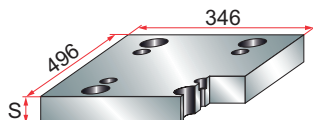
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



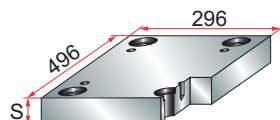
PBA-EU



PBA-EU	
S	27
	36
	46

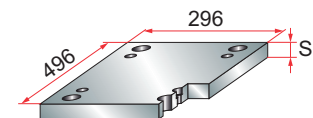
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
156	*	*	

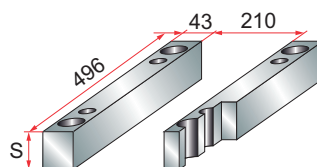
PS-EU



PS-EU	
S	27
	36
	46

mat.: 1.1730

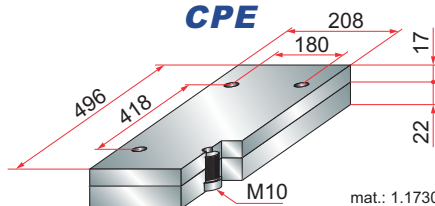
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96

mat.: 1.1730

CPE

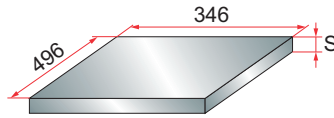


mat.: 1.1730

P PLATES



PBA-P

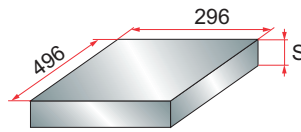


PBA-P	
S	27
	36
	46

mat.: 1.1730



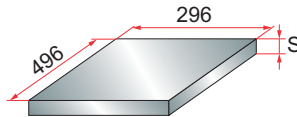
PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*



PS-P

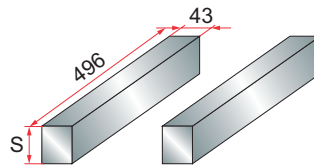


PS-P	
S	27
	36
	46

mat.: 1.1730



ESP-P

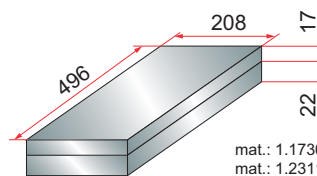


ESP-P	
S	56
	66
	76
	86
	96

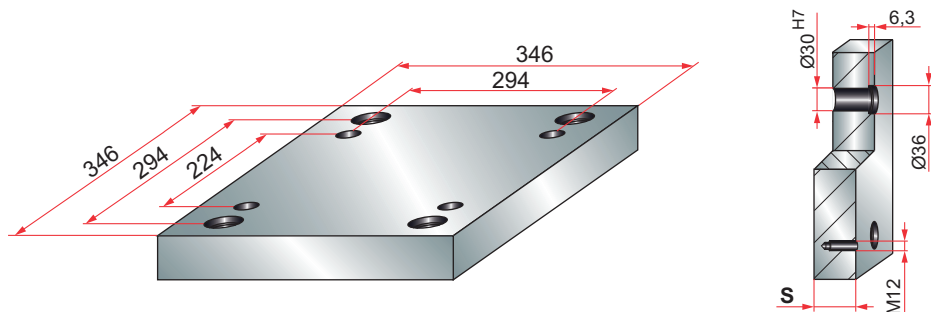
mat.: 1.1730



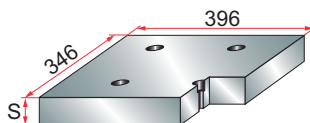
CPE-P



mat.: 1.1730
mat.: 1.2311



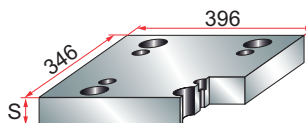
PBA



PBA	
S	27
	36

mat.: 1.1730

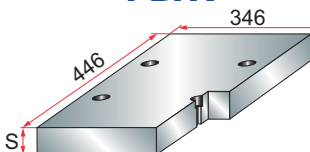
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

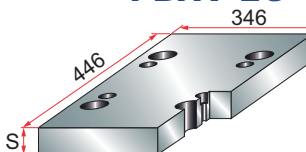
PBAV



PBAV	
S	27
	36

mat.: 1.1730

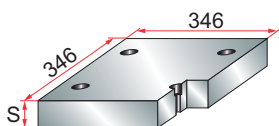
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

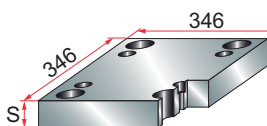
PBAS



PBAS	
S	27
	36
	46

mat.: 1.1730

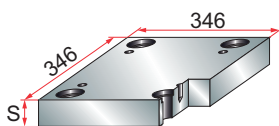
PBAS-EU



PBAS-EU	
S	27
	36
	46

mat.: 1.1730

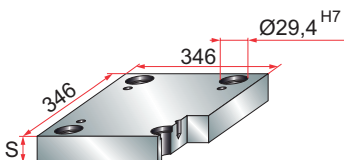
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PCX

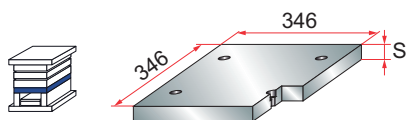


		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

346.346

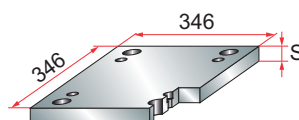
PS



PS	
S	27
	36
	46

mat.: 1.1730

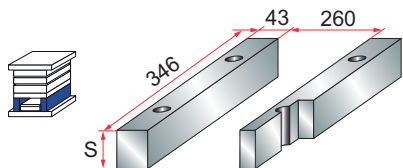
PS-EU



PS-EU	
S	27
	36
	46

mat.: 1.1730

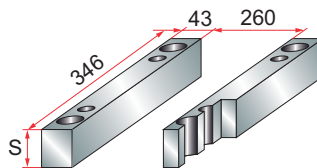
ESP



ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730

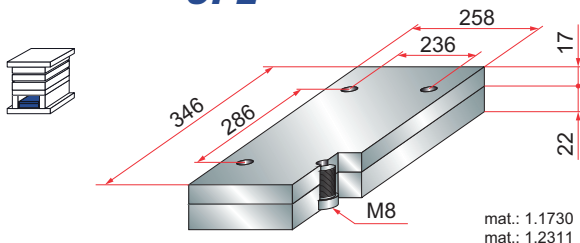
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96
	116

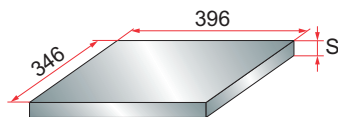
mat.: 1.1730

CPE



P PLATES

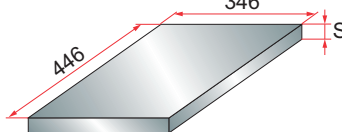
PBA-P



PBA-P	
S	27
	36

mat.: 1.1730

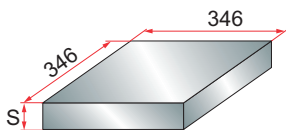
PBAV-P



PBAV-P	
S	27
	36

mat.: 1.1730

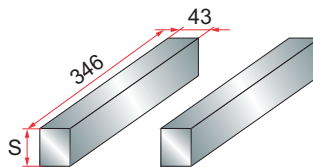
PC-P



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days

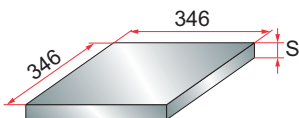
ESP-P



ESP-P	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

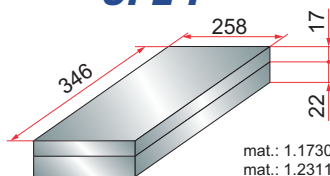
PS-P

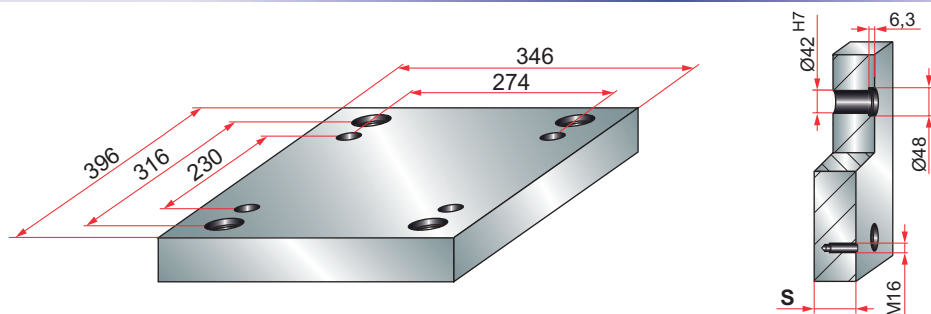


PS-P	
S	27
	36
	46

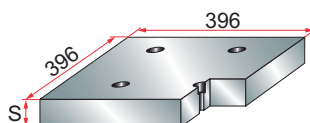
mat.: 1.1730

CPE-P





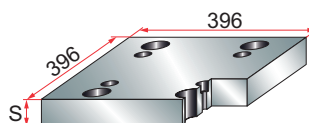
PBA



PBA	
S	27
	36

mat.: 1.1730

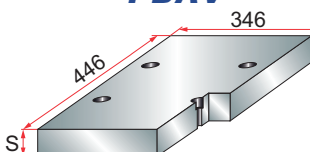
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

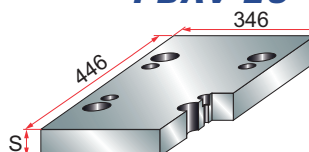
PBAV



PBAV	
S	27
	36

mat.: 1.1730

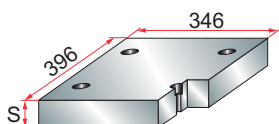
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

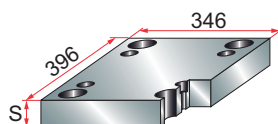
PBAS



PBAS	
S	27
	36
	46

mat.: 1.1730

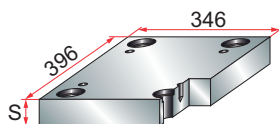
PBAS-EU



PBAS-EU	
S	27
	36
	46

mat.: 1.1730

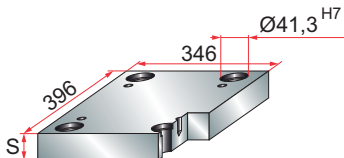
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156					

° Entrega 3/4 dias - Delivery 3/4 days

PCX

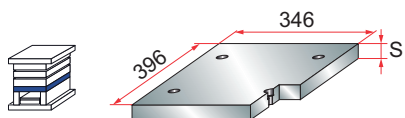


		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
156	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days

346.396

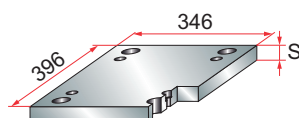
PS



PS	
S	27
	36
	46

mat.: 1.1730

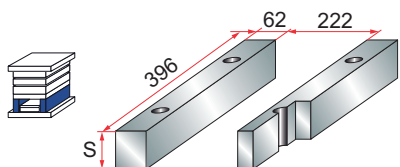
PS-EU



PS-EU	
S	27
	36
	46

mat.: 1.1730

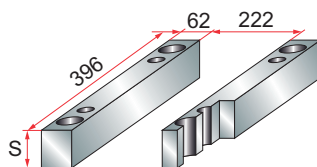
ESP



ESP	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

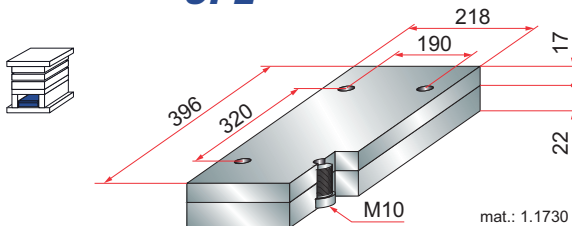
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

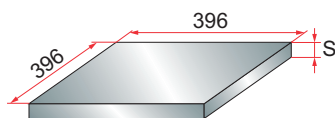
CPE



mat.: 1.1730

P PLATES

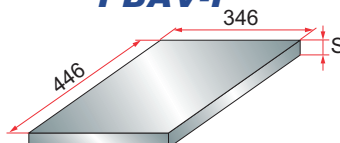
PBA-P



PBA-P	
S	27
	36

mat.: 1.1730

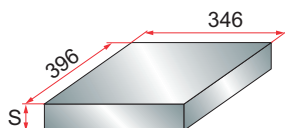
PBAV-P



PBAV-P	
S	27
	36

mat.: 1.1730

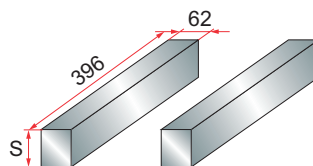
PC-P



S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

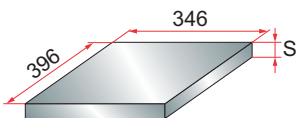
ESP-P



ESP-P	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

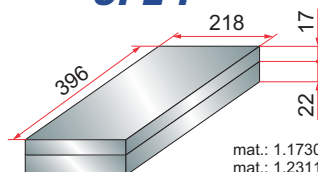
PS-P



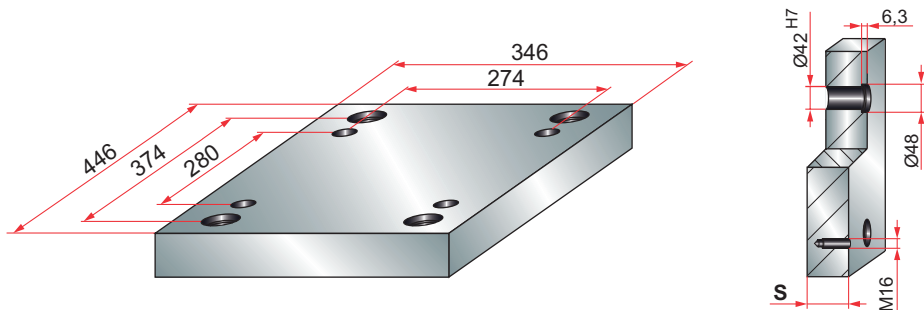
PS-P	
S	27
	36
	46

mat.: 1.1730

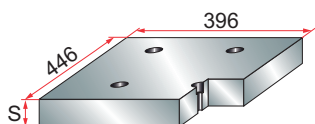
CPE-P



mat.: 1.1730
mat.: 1.2311



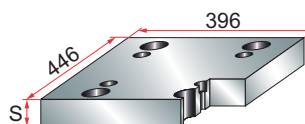
PBA



PBA	
S	27
	36

mat.: 1.1730

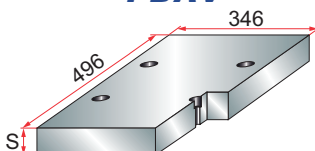
PBA-EU



PBA-EU	
S	27
	36

mat.: 1.1730

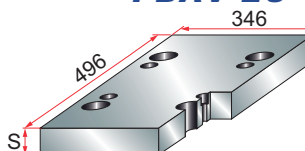
PBAV



PBAV	
S	27
	36

mat.: 1.1730

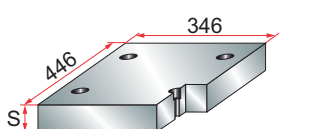
PBAV-EU



PBAV-EU	
S	27
	36

mat.: 1.1730

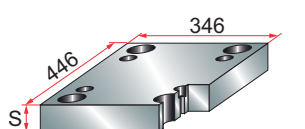
PBAS



PBAS	
S	27
	36
	46

mat.: 1.1730

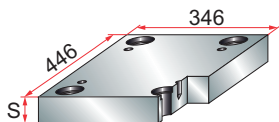
PBAS-EU



PBAS-EU	
S	27
	36
	46

mat.: 1.1730

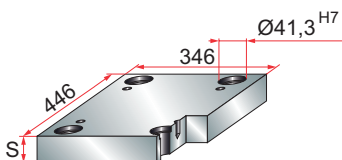
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

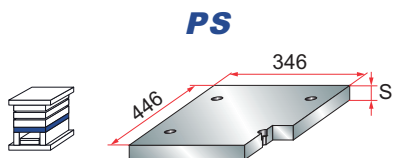
° Entrega 3/4 dias - Delivery 3/4 days

PCX



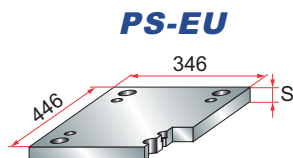
		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



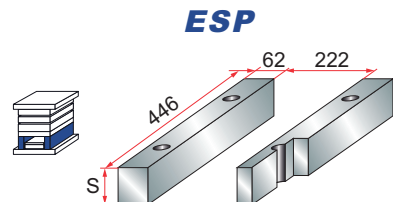
PS	
S	27
	36
	46

mat.: 1.1730



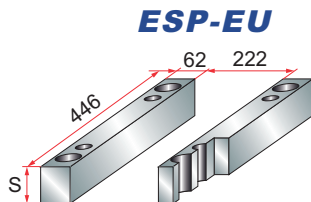
PS-EU	
S	27
	36
	46

mat.: 1.1730



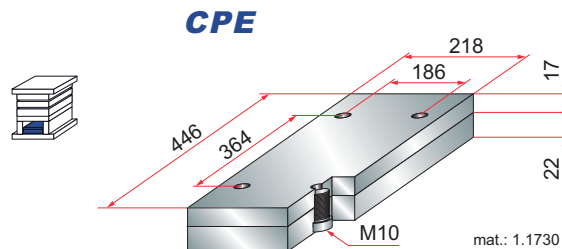
ESP	
S	56
	66
	76
	86
	96

mat.: 1.1730



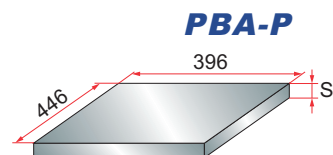
ESP-EU	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730



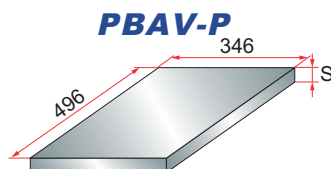
mat.: 1.1730

P PLATES



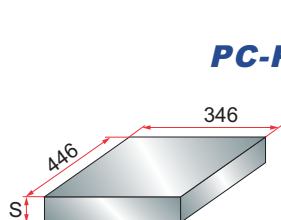
PBA-P	
S	27
	36
	46

mat.: 1.1730



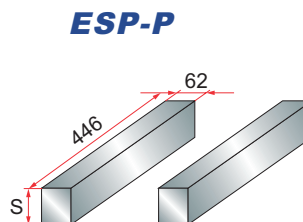
PBAV-P	
S	27
	36
	46

mat.: 1.1730



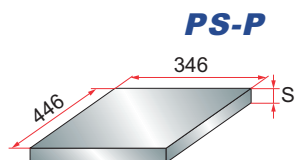
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

* Entrega 3/4 dias - Delivery 3/4 days



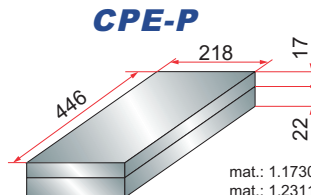
ESP-P	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

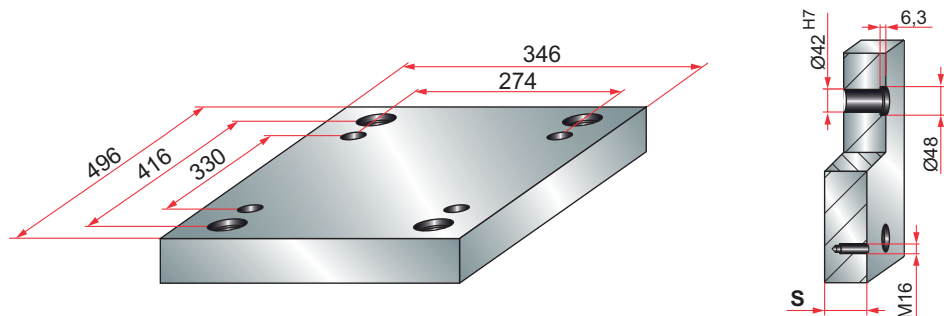


PS-P	
S	27
	36
	46

mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	27
	36
	46

mat.: 1.1730

PBA-EU

PBA-EU	
S	27
	36
	46

mat.: 1.1730

PBAV

PBAV	
S	27
	36
	46

mat.: 1.1730

PBAV-EU

PBAV-EU	
S	27
	36
	46

mat.: 1.1730

PBAS

PBAS	
S	36
	46

mat.: 1.1730

PBAS-EU

PBAS-EU	
S	36
	46

mat.: 1.1730

PC

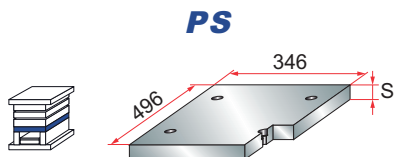
S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

PCX

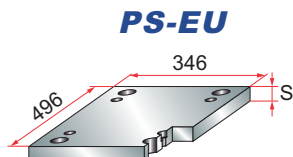
S	Material		
	1.2311	1.2312	1.2085
27	*	*	o
36	*	*	o
46	*	*	o
56	*	*	o
66	*	*	o
76	*	*	o
86	*	*	o
96	*	*	o
116	*	*	o
136	*	*	o
156	*	*	o

° Entrega 3/4 días - Delivery 3/4 days



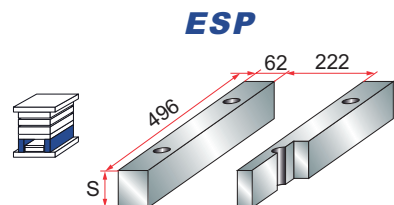
	PS
S	36 46

mat.: 1.1730



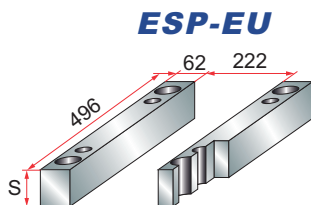
	PS-EU
S	36 46

mat.: 1.1730



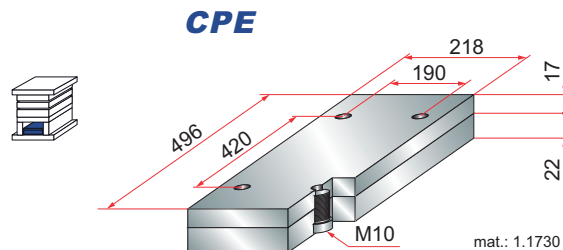
	ESP
S	56 66 76 86 96 116

mat.: 1.1730



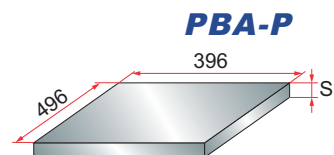
	ESP-EU
S	56 66 76 86 96 116

mat.: 1.1730



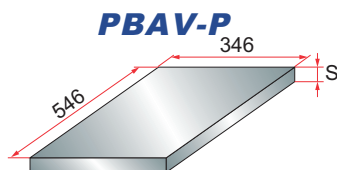
mat.: 1.1730

P PLATES



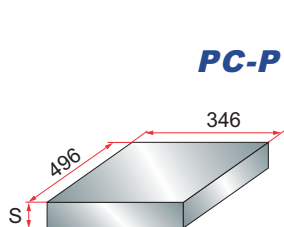
	PBA-P
S	27 36 46

mat.: 1.1730



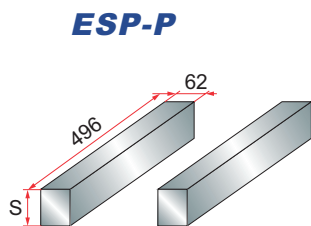
	PBAV-P
S	27 36 46

mat.: 1.1730



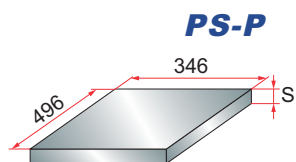
S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

* Entrega 3/4 días - Delivery 3/4 days



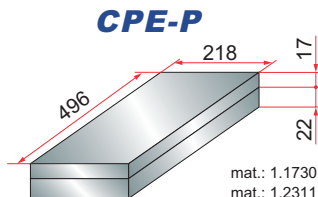
	ESP-P
S	56 66 76 86 96 116

mat.: 1.1730

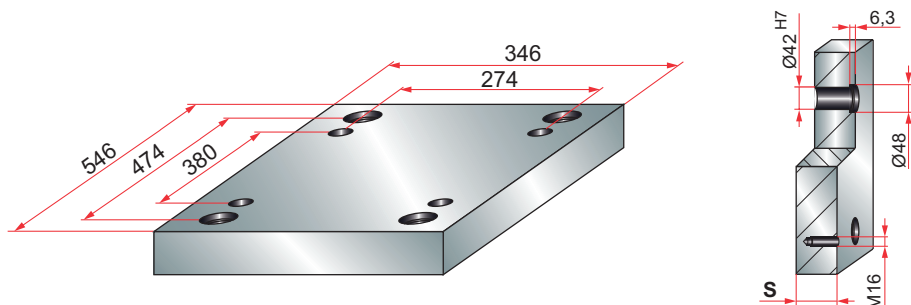


	PS-P
S	36 46

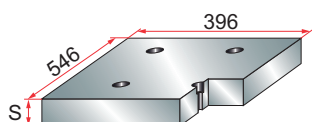
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



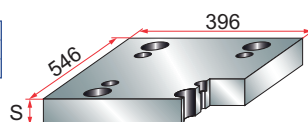
PBA



PBA	
S	36
	46

mat.: 1.1730

PBA-EU

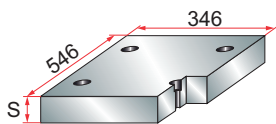


PBA-EU	
S	36
	46

mat.: 1.1730



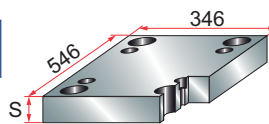
PBAS



PBAS	
S	36
	46

mat.: 1.1730

PBAS-EU

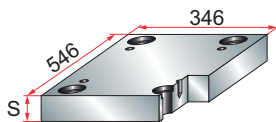


PBAS-EU	
S	36
	46

mat.: 1.1730



PC

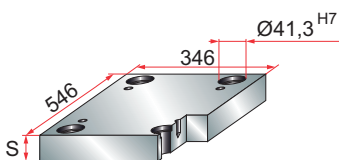


		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156				o	

° Entrega 3/4 días - Delivery 3/4 days

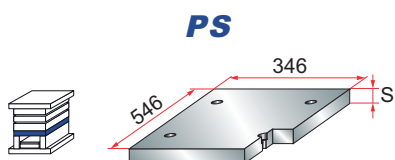


PCX



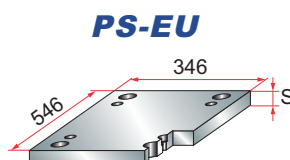
		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
156			o	

° Entrega 3/4 días - Delivery 3/4 days



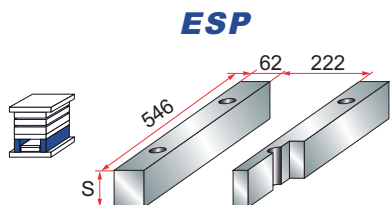
PS	
S	36
	46

mat.: 1.1730



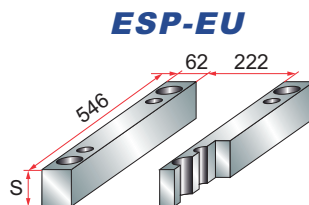
PS-EU	
S	36
	46

mat.: 1.1730



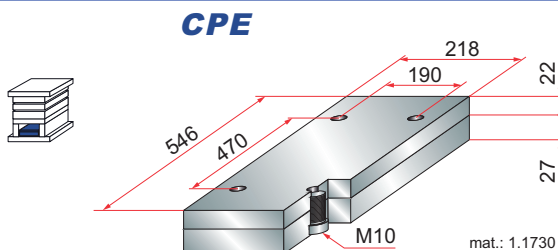
ESP	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730



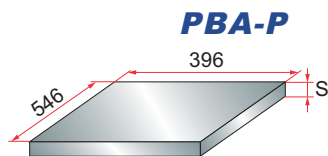
ESP-EU	
S	56
	66
	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730



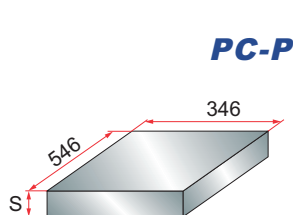
mat.: 1.1730

P PLATES



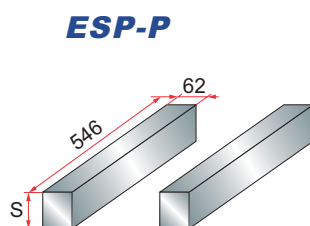
PBA-P	
S	36
	46

mat.: 1.1730



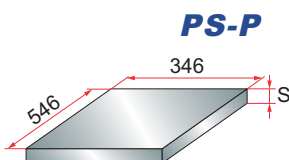
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

* Entrega 3/4 dias - Delivery 3/4 days



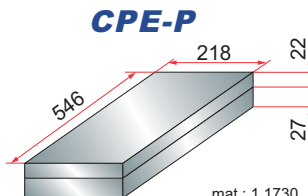
ESP-P	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

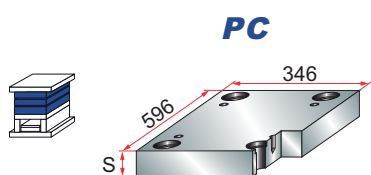
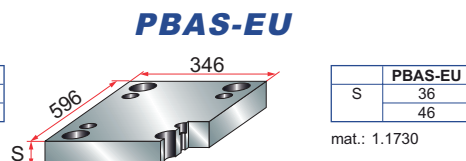
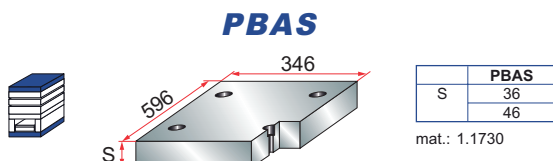
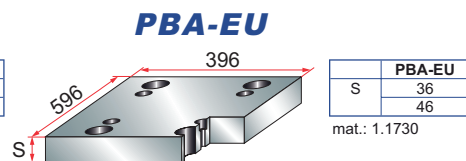
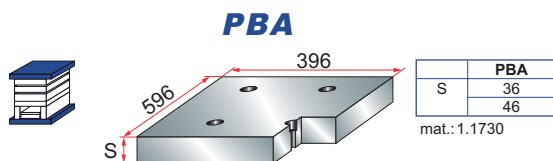
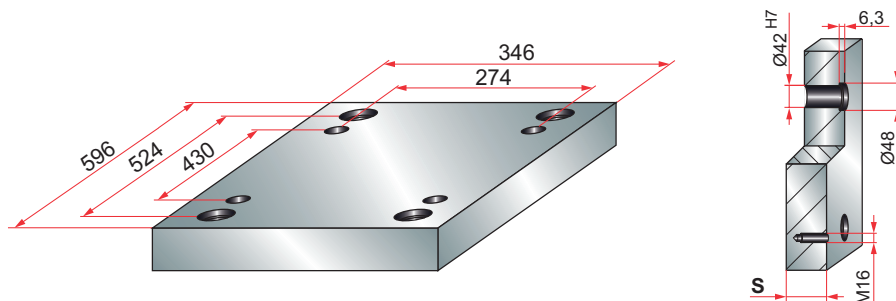


PS-P	
S	36
	46

mat.: 1.1730

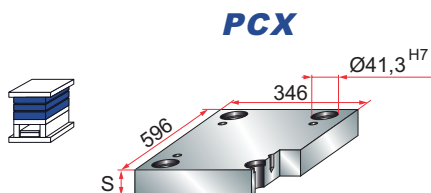


mat.: 1.1730
mat.: 1.2311



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

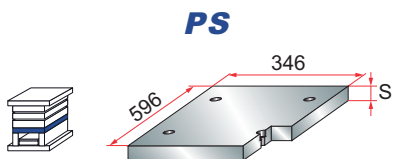
° Entrega 3/4 dias - Delivery 3/4 days



		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

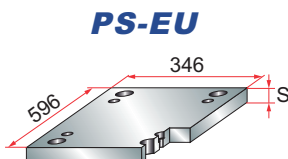
° Entrega 3/4 dias - Delivery 3/4 days

346.596



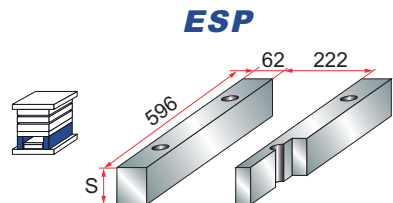
PS	
S	36
	46

mat.: 1.1730



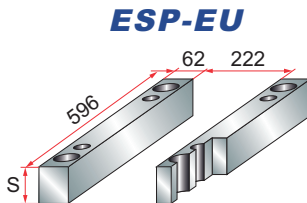
PS-EU	
S	36
	46

mat.: 1.1730



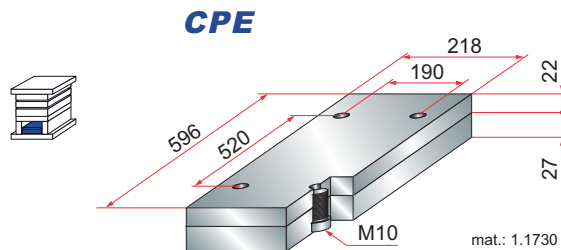
ESP	
S	76
	86
	96
	116

mat.: 1.1730



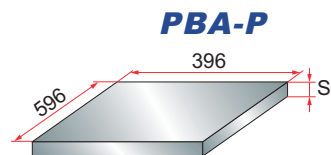
ESP-EU	
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730



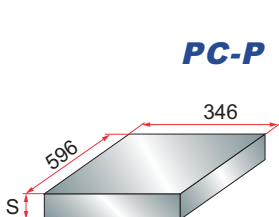
mat.: 1.1730

P PLATES



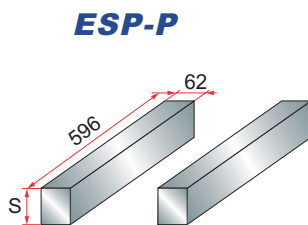
PBA-P	
S	36
	46

mat.: 1.1730



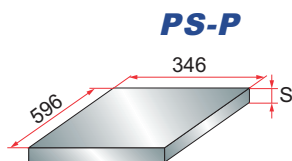
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



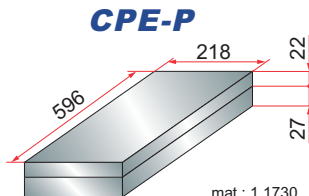
ESP-P	
S	76
	86
	96
	116
	136

mat.: 1.1730

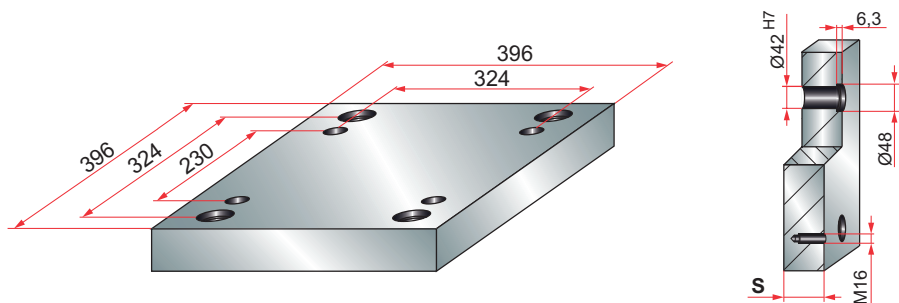


PS-P	
S	36
	46

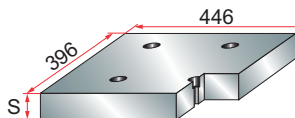
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



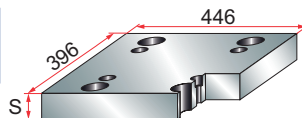
PBA



PBA	
S	27
	36
	46

mat.: 1.1730

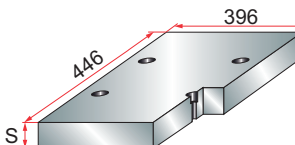
PBA-EU



PBA-EU	
S	27
	36
	46

mat.: 1.1730

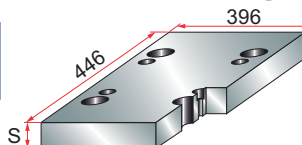
PBAV



PBAV	
S	27
	36
	46

mat.: 1.1730

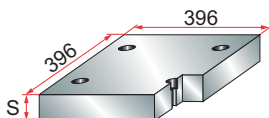
PBAV-EU



PBAV-EU	
S	27
	36
	46

mat.: 1.1730

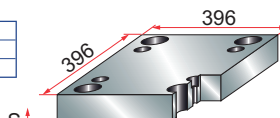
PBAS



PBAS	
S	36
	46

mat.: 1.1730

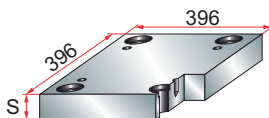
PBAS-EU



PBAS-EU	
S	36
	46

mat.: 1.1730

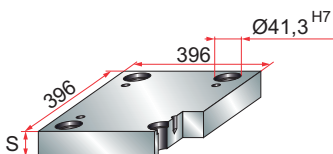
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PCX



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

396.396

PS

PS	
S	36
	46

mat.: 1.1730

PS-EU

PS-EU	
S	36
	46

mat.: 1.1730

ESP

ESP	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

ESP-EU

ESP-EU	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

CPE

mat.: 1.1730

P PLATES

PBA-P

PBA-P	
S	27
	36
	46

mat.: 1.1730

PBAV-P

PBAV-P	
S	27
	36
	46

mat.: 1.1730

PC-P

Material					
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

* Entrega 3/4 días - Delivery 3/4 days

ESP-P

ESP-P	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

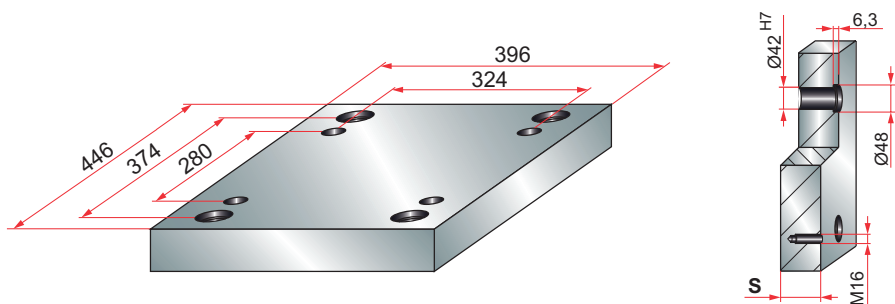
PS-P

PS-P	
S	36
	46

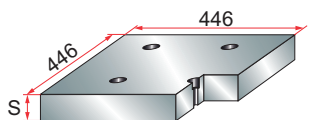
mat.: 1.1730

CPE-P

mat.: 1.1730
mat.: 1.2311



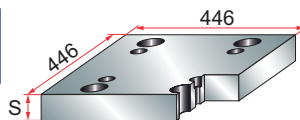
PBA



PBA	
S	27
	36
	46

mat.: 1.1730

PBA-EU

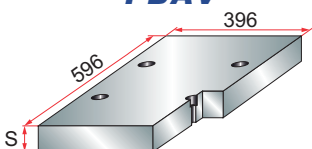


PBA-EU	
S	27
	36
	46

mat.: 1.1730



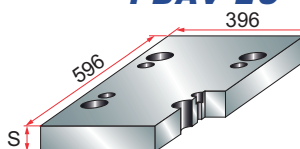
PBAV



PBAV	
S	27
	36
	46

mat.: 1.1730

PBAV-EU

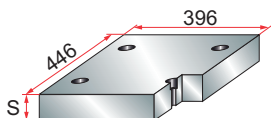


PBAV-EU	
S	27
	36
	46

mat.: 1.1730



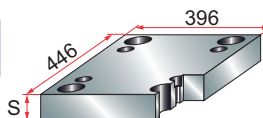
PBAS



PBAS	
S	36
	46

mat.: 1.1730

PBAS-EU

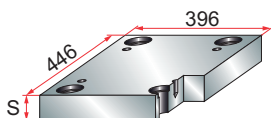


PBAS-EU	
S	36
	46

mat.: 1.1730



PC

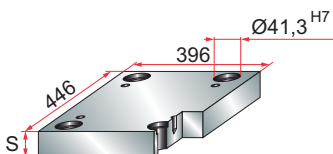


S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

* Entrega 3/4 días - Delivery 3/4 days



PCX

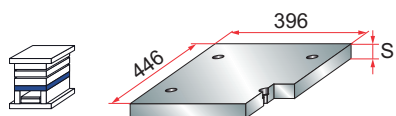


S	Material		
	1.2311	1.2312	1.2085
27	*	*	o
36	*	*	o
46	*	*	o
56	*	*	o
66	*	*	o
76	*	*	o
86	*	*	o
96	*	*	o
116	*	*	o
136	*	*	o
156	*	*	o

* Entrega 3/4 días - Delivery 3/4 days

396.446

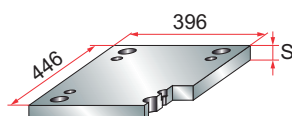
PS



PS	
S	36
	46

mat.: 1.1730

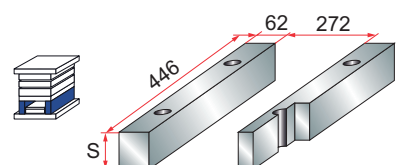
PS-EU



PS-EU	
S	36
	46

mat.: 1.1730

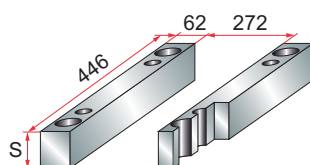
ESP



ESP	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

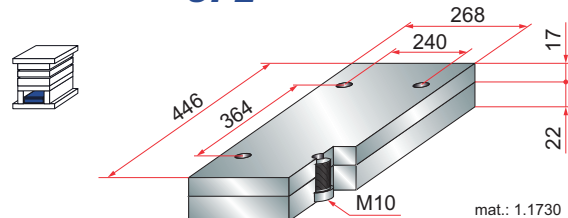
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

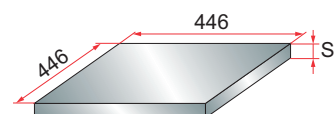
CPE



mat.: 1.1730

P PLATES

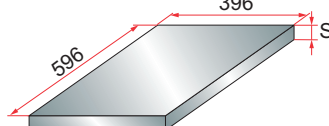
PBA-P



PBA-P	
S	27
	36
	46

mat.: 1.1730

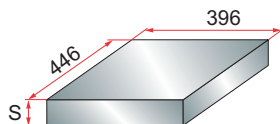
PBAV-P



PBAV-P	
S	27
	36
	46

mat.: 1.1730

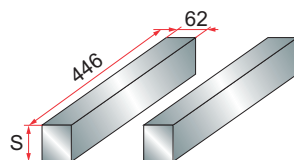
PC-P



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

^o Entrega 3/4 días - Delivery 3/4 days

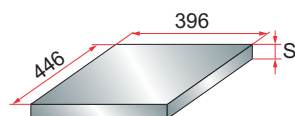
ESP-P



ESP-P	
S	56
	66
	76
	86
	96
	116

mat.: 1.1730

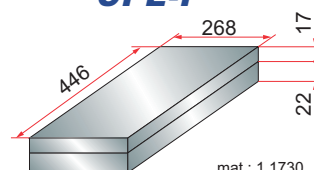
PS-P



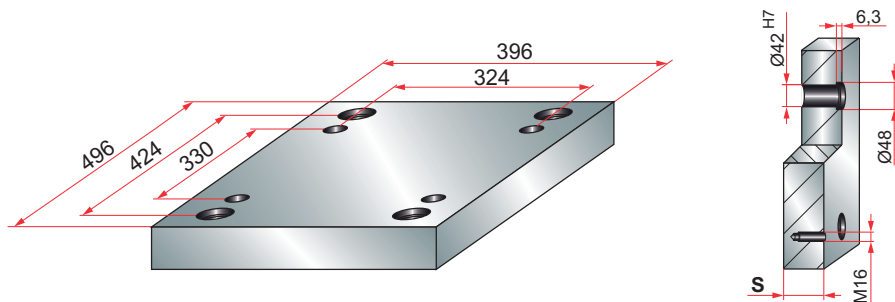
PS-P	
S	36
	46

mat.: 1.1730

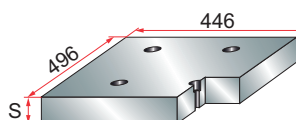
CPE-P



mat.: 1.1730
mat.: 1.2311



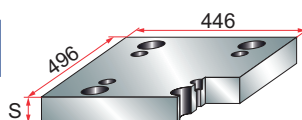
PBA



S	PBA
	36
	46

mat.: 1.1730

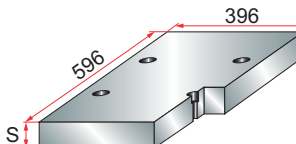
PBA-EU



S	PBA-EU
	36
	46

mat.: 1.1730

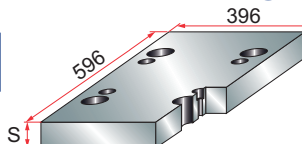
PBAV



S	PBAV
	36
	46

mat.: 1.1730

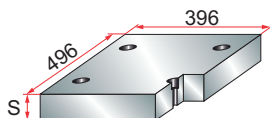
PBAV-EU



S	PBAV-EU
	36
	46

mat.: 1.1730

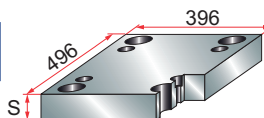
PBAS



S	PBAS
	36
	46

mat.: 1.1730

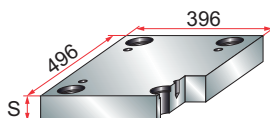
PBAS-EU



S	PBAS-EU
	36
	46

mat.: 1.1730

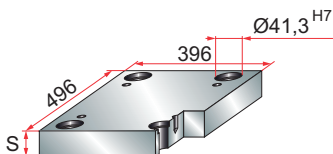
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

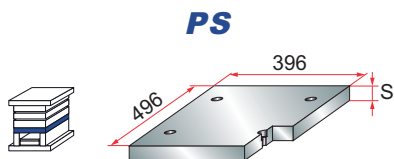
° Entrega 3/4 dias - Delivery 3/4 days

PCX



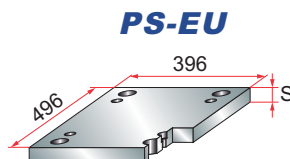
		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



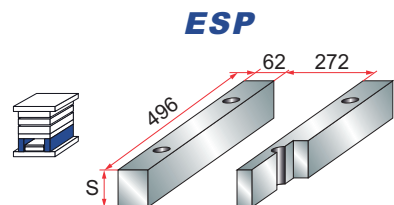
PS	
S	36 46

mat.: 1.1730



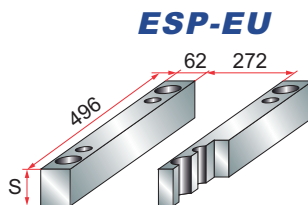
PS-EU	
S	36 46

mat.: 1.1730



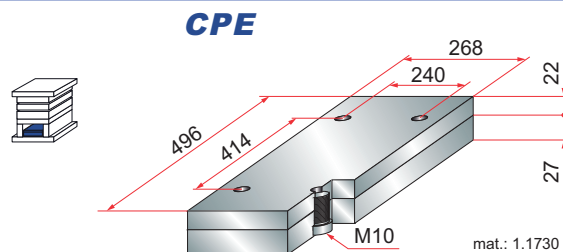
ESP	
S	76 86 96 116

mat.: 1.1730



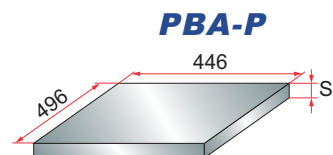
ESP-EU	
S	76 86 96 116 136

mat.: 1.1730



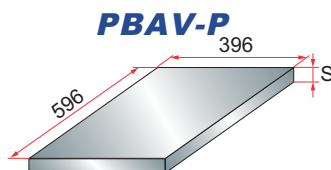
mat.: 1.1730

P PLATES



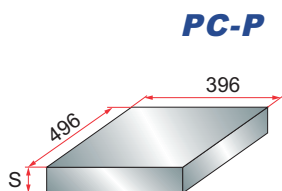
PBA-P	
S	36 46

mat.: 1.1730



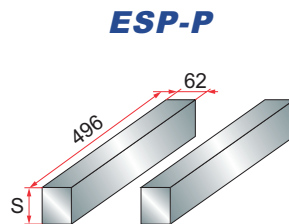
PBAV-P	
S	36 46

mat.: 1.1730



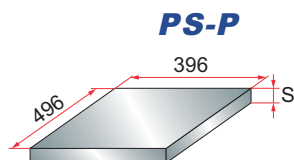
S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

* Entrega 3/4 dias - Delivery 3/4 days



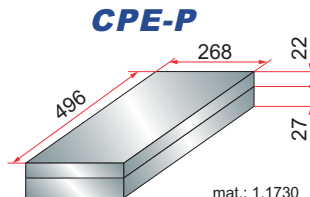
ESP-P	
S	76 86 96 116 136

mat.: 1.1730

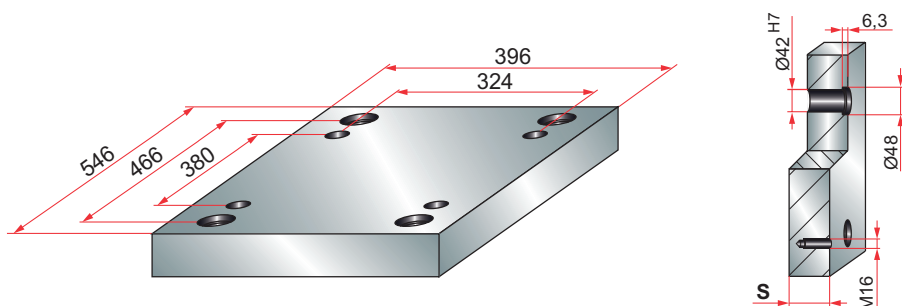


PS-P	
S	36 46

mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	36
	46

mat.: 1.1730

PBA-EU

PBA-EU	
S	36
	46

mat.: 1.1730

PBAS

PBAS	
S	36
	46

mat.: 1.1730

PBAS-EU

PBAS-EU	
S	36
	46

mat.: 1.1730

PC

		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

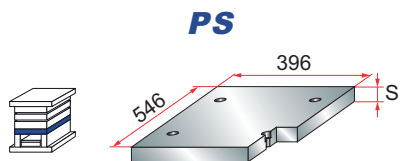
° Entrega 3/4 dias - Delivery 3/4 days

PCX

		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
156	*	*	o	

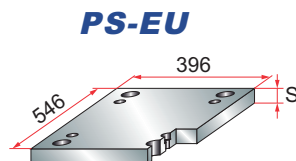
° Entrega 3/4 dias - Delivery 3/4 days

396.546



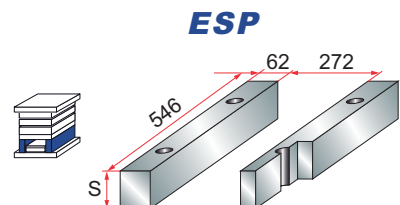
PS	
S	36
	46

mat.: 1.1730



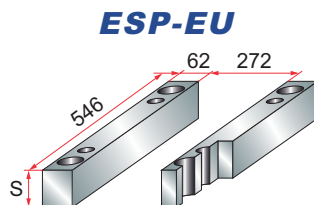
PS-EU	
S	36
	46

mat.: 1.1730



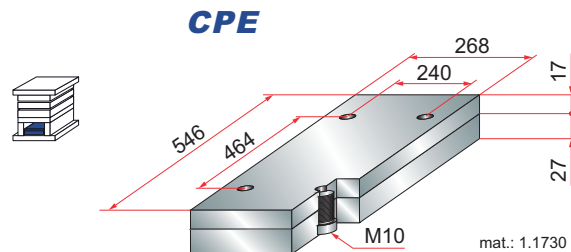
ESP	
S	76
	86
	96
	116

mat.: 1.1730



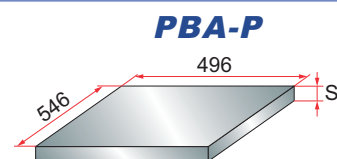
ESP-EU	
S	76
	86
	96
	116

mat.: 1.1730



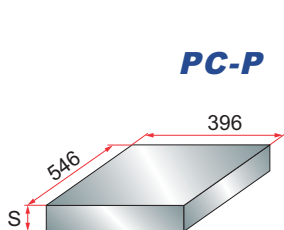
mat.: 1.1730

P PLATES



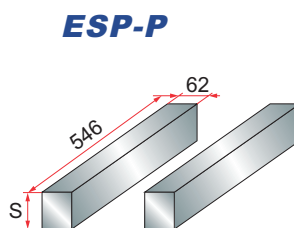
PBA-P	
S	36
	46

mat.: 1.1730



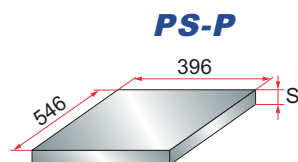
S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

* Entrega 3/4 días - Delivery 3/4 days



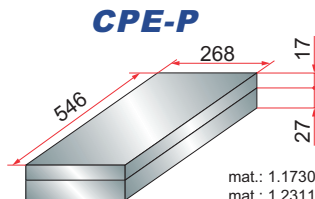
ESP-P	
S	76
	86
	96
	116

mat.: 1.1730

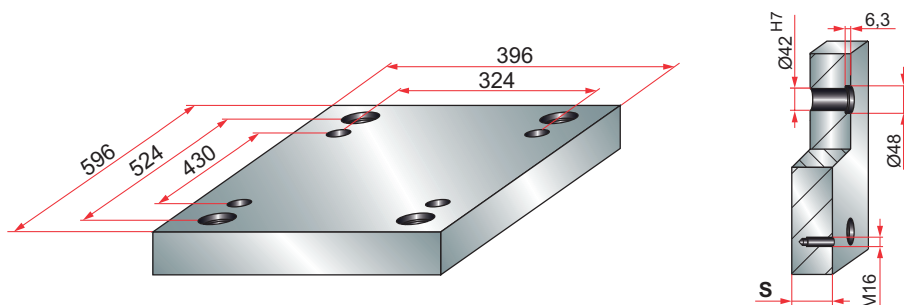


PS-P	
S	36
	46

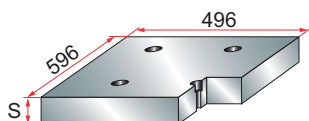
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



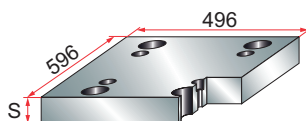
PBA



PBA	
S	36
	46

mat.: 1.1730

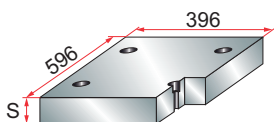
PBA-EU



PBA-EU	
S	36
	46

mat.: 1.1730

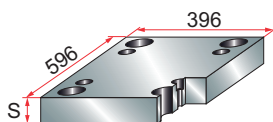
PBAS



PBAS	
S	36
	46
	56

mat.: 1.1730

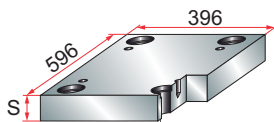
PBAS-EU



PBAS-EU	
S	36
	46
	56

mat.: 1.1730

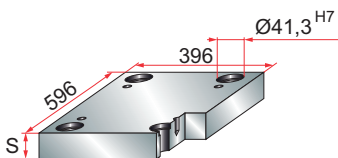
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

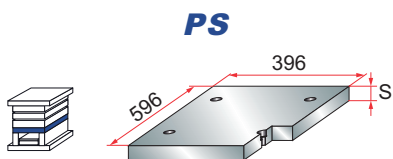
° Entrega 3/4 días - Delivery 3/4 days

PCX



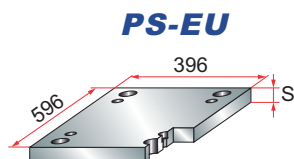
		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 días - Delivery 3/4 days



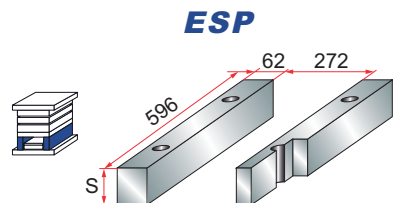
PS	
S	36
	46
	56

mat.: 1.1730



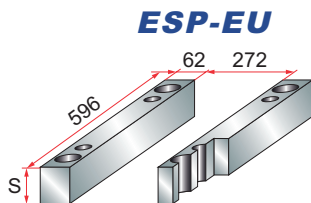
PS-EU	
S	46
	56

mat.: 1.1730



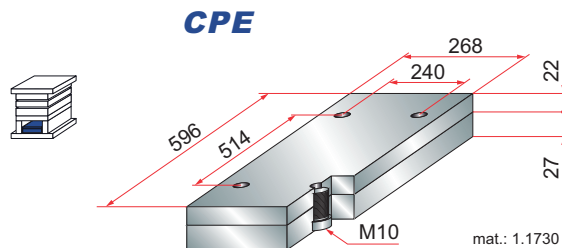
ESP	
S	76
	86
	96
	116
	136

mat.: 1.1730



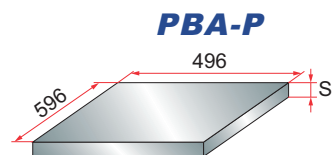
ESP-EU	
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730



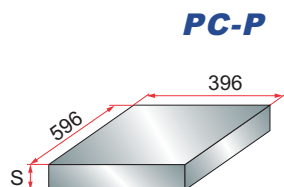
mat.: 1.1730

P PLATES



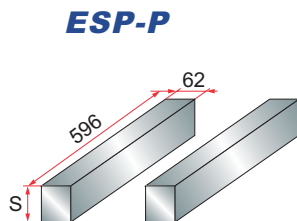
PBA-P	
S	36
	46

mat.: 1.1730



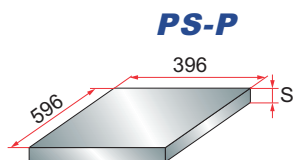
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

* Entrega 3/4 dias - Delivery 3/4 days



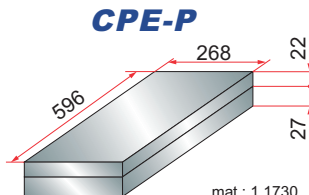
ESP-P	
S	76
	86
	96
	116
	136

mat.: 1.1730

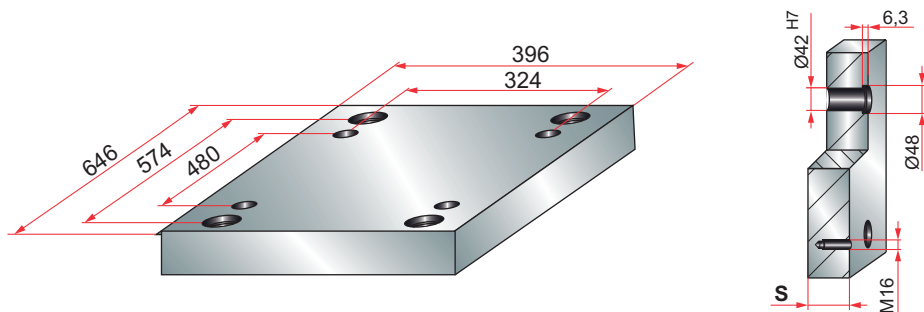


PS-P	
S	36
	46
	56

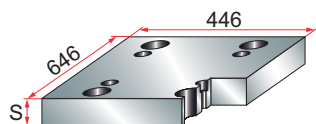
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



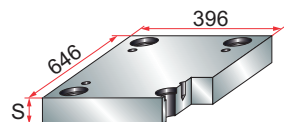
PBA-EU



PBA-EU	
S	36
	46

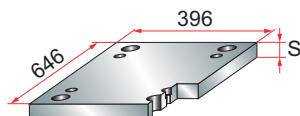
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	
196	*	*	

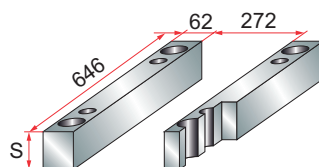
PS-EU



PS-EU	
S	46
	56

mat.: 1.1730

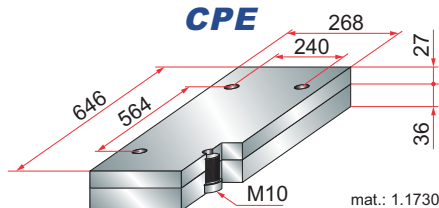
ESP-EU



ESP-EU	
S	76
	86
	96
	116
	136
156	

mat.: 1.1730

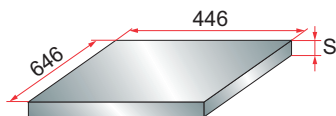
CPE



mat.: 1.1730

P PLATES

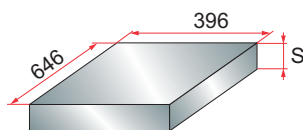
PBA-P



PBA-P	
S	36
	46

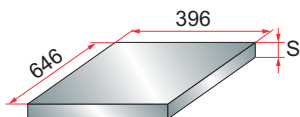
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

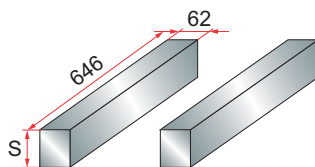
PS-P



PS-P	
S	46
	56

mat.: 1.1730

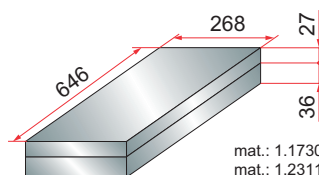
ESP-P



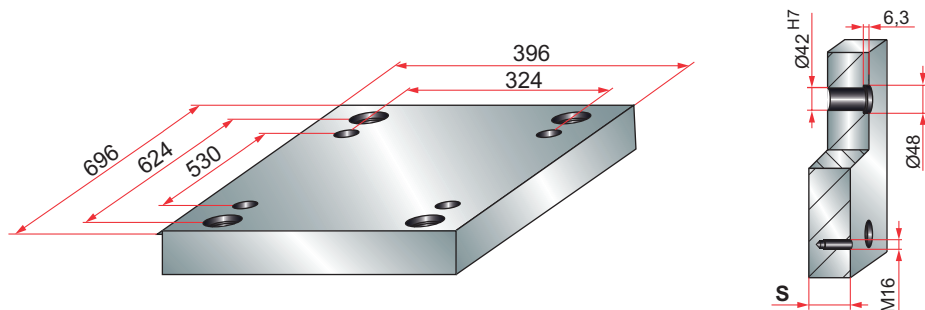
ESP-P	
S	76
	86
	96
	116
	136
	156

mat.: 1.1730

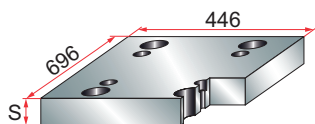
CPE-P



mat.: 1.1730
mat.: 1.2311



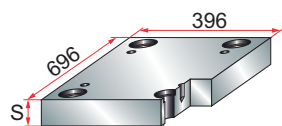
PBA-EU



PBA-EU	
S	36
	46

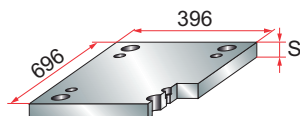
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
	196	*	*

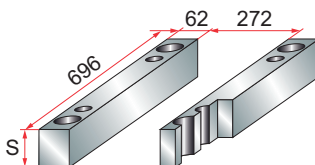
PS-EU



PS-EU	
S	46
	56

mat.: 1.1730

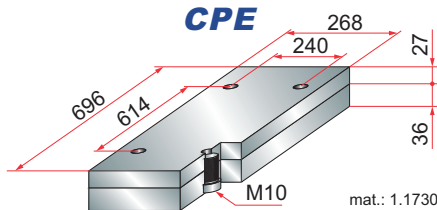
ESP-EU



ESP-EU	
S	76
	86
	96
	116
	136
	156

mat.: 1.1730

CPE

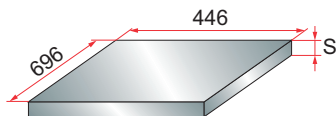


mat.: 1.1730

P PLATES



PBA-P

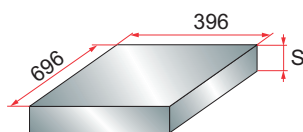


PBA-EU	
S	36
	46

mat.: 1.1730



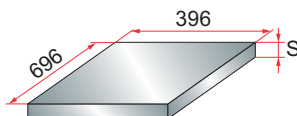
PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	



PS-P

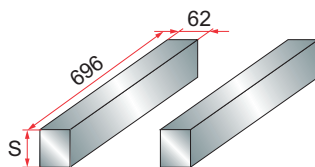


PS-EU	
S	46
	56

mat.: 1.1730



ESP-P

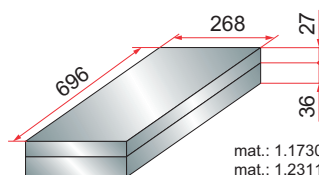


ESP-EU	
S	76
	86
	96
	116
	136
	156

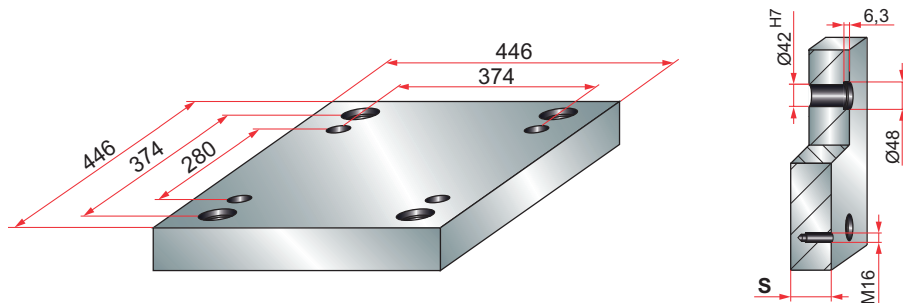
mat.: 1.1730



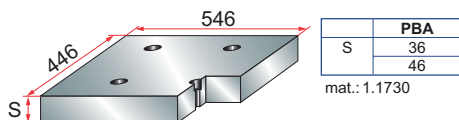
CPE-P



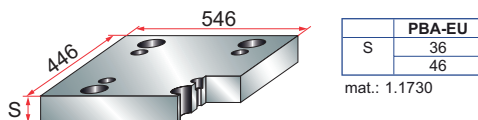
mat.: 1.1730
mat.: 1.2311



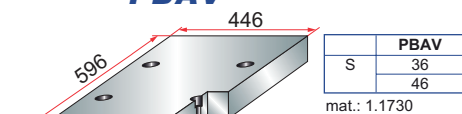
PBA



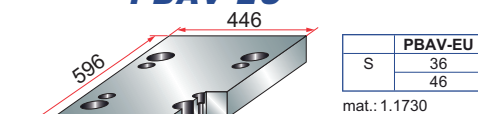
PBA-EU



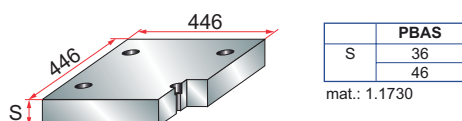
PBAV



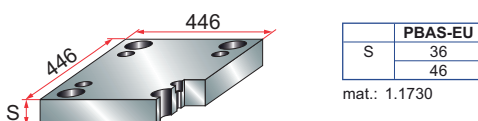
PBAV-EU



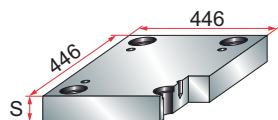
PBAS



PBAS-EU



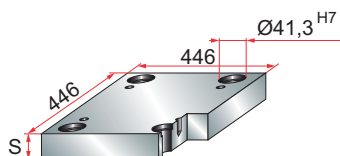
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

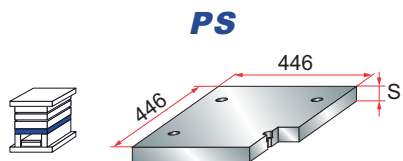
° Entrega 3/4 días - Delivery 3/4 days

PCX



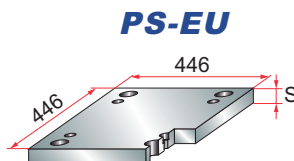
		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
156	*	*	o	

° Entrega 3/4 días - Delivery 3/4 days



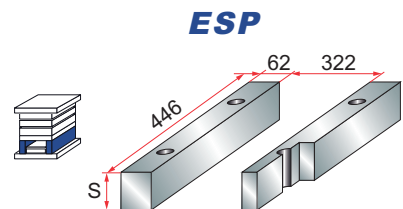
PS	
S	36 46

mat.: 1.1730



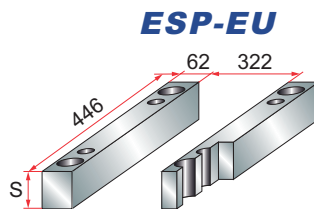
PS-EU	
S	36 46

mat.: 1.1730



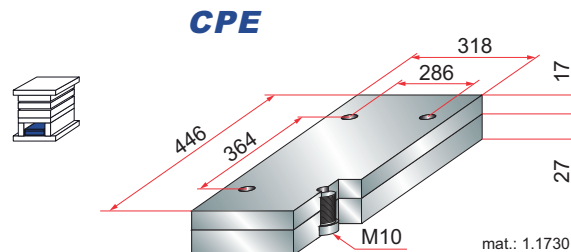
ESP	
S	56 66 76 86 96 116

mat.: 1.1730



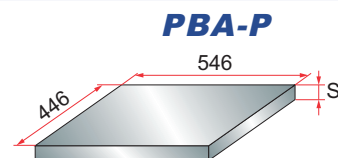
ESP-EU	
S	56 66 76 86 96 116

mat.: 1.1730



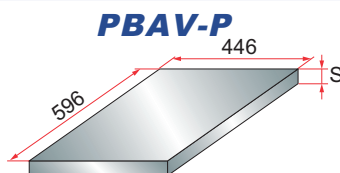
mat.: 1.1730

P PLATES



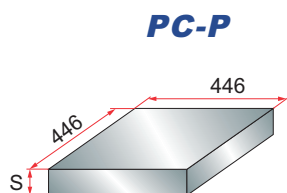
PBA-P	
S	36 46

mat.: 1.1730



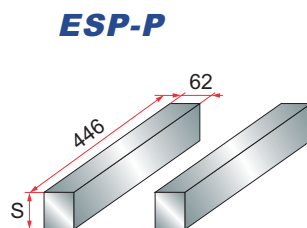
PBAV-P	
S	36 46

mat.: 1.1730



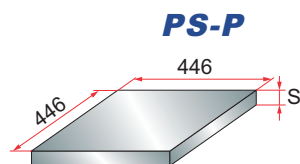
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



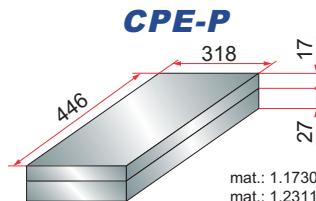
ESP-P	
S	56 66 76 86 96 116

mat.: 1.1730

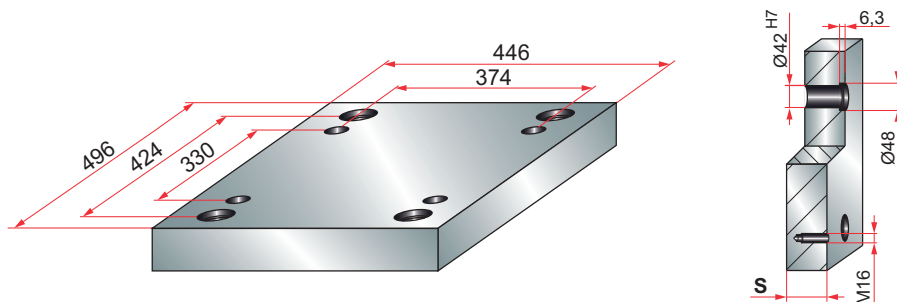


PS-P	
S	36 46

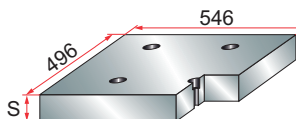
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



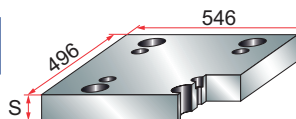
PBA



PBA	
S	36
	46

mat.: 1.1730

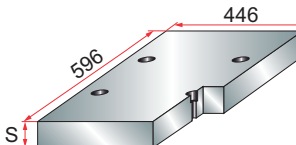
PBA-EU



PBA-EU	
S	36
	46

mat.: 1.1730

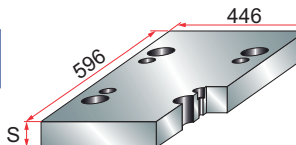
PBAV



PBAV	
S	36
	46

mat.: 1.1730

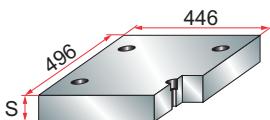
PBAV-EU



PBAV-EU	
S	36
	46

mat.: 1.1730

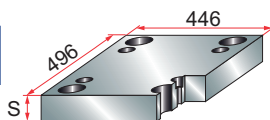
PBAS



PBAS	
S	36
	46

mat.: 1.1730

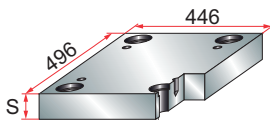
PBAS-EU



PBAS-EU	
S	36
	46

mat.: 1.1730

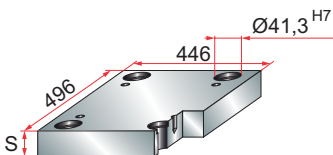
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

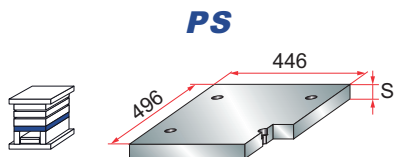
PCX



		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

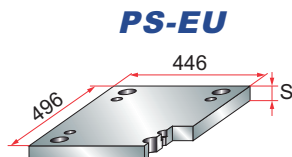
° Entrega 3/4 dias - Delivery 3/4 days

446.496



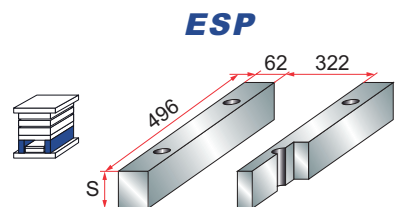
PS	
S	36
	46

mat.: 1.1730



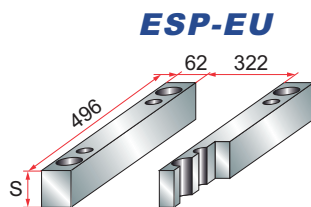
PS-EU	
S	36
	46

mat.: 1.1730



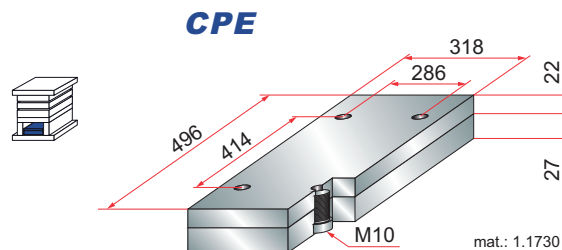
ESP	
S	76
	86
	96
	116
	136

mat.: 1.1730



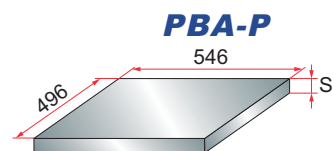
ESP-EU	
S	76
	86
	96
	116
	136

mat.: 1.1730



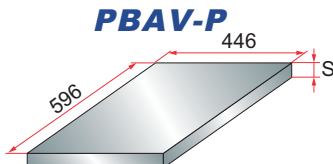
mat.: 1.1730

P PLATES



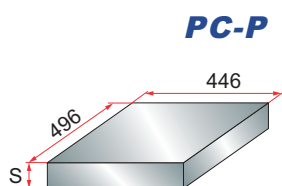
PBA-P	
S	36
	46

mat.: 1.1730



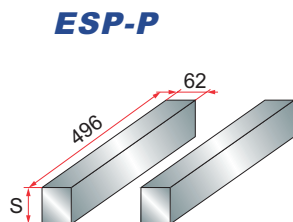
PBAV-P	
S	36
	46

mat.: 1.1730



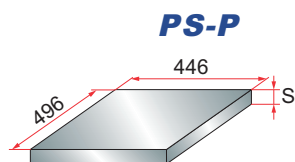
		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



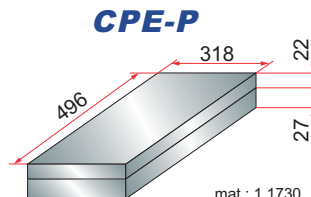
ESP-P	
S	76
	86
	96
	116
	136

mat.: 1.1730

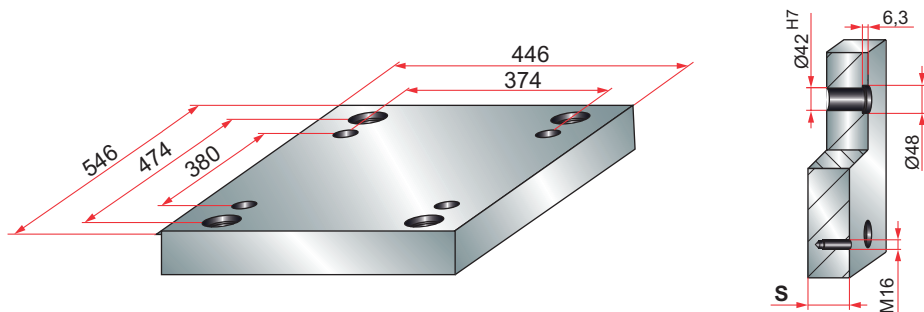


PS-P	
S	36
	46

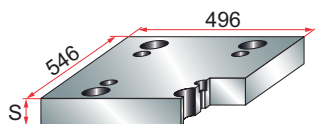
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



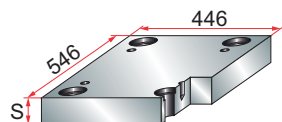
PBA-EU



PBA-EU	
S	27
	36
	46

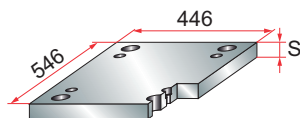
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	

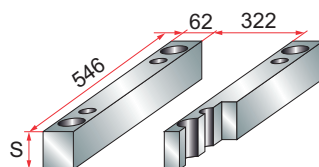
PS-EU



PS-EU	
S	36
	46

mat.: 1.1730

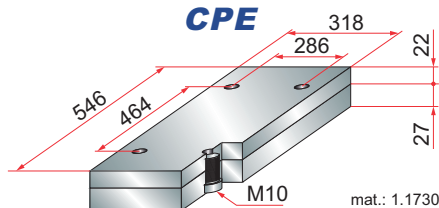
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96
	116
	136
	156
	176

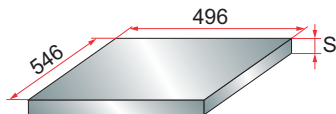
mat.: 1.1730

CPE



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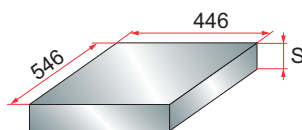
PBA-P



PBA-P	
S	27
	36
	46

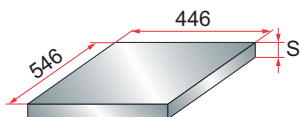
mat.: 1.1730

PC-P



			Material	
			1.1730	1.2311
S	36	*	*	*
	46	*	*	*
	56	*	*	*
	66	*	*	*
	76	*	*	*
	86	*	*	*
	96	*	*	*
	116	*	*	*
	136	*	*	*
	156	*	*	*
	176	*	*	*

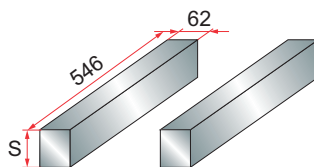
PS-P



PS-P	
S	36
	46

mat.: 1.1730

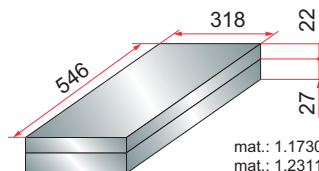
ESP-P



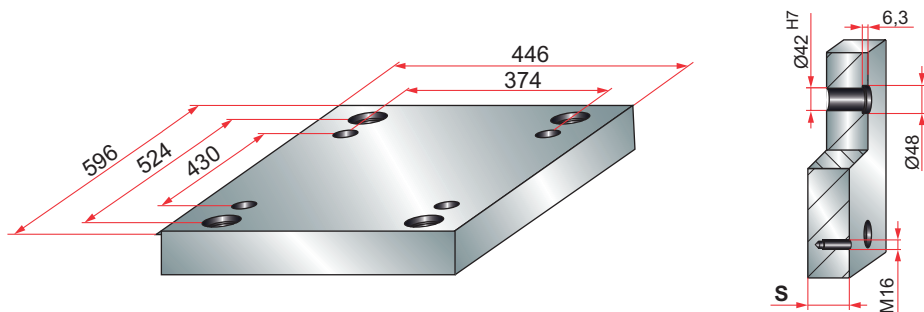
ESP-P	
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730

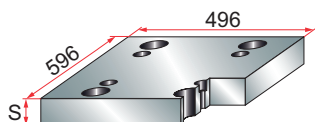
CPE-P



mat.: 1.1730
mat.: 1.2311



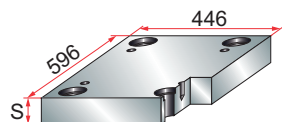
PBA-EU



PBA-EU	
S	36
	46

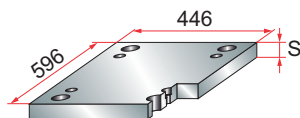
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	

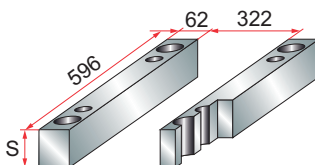
PS-EU



PS-EU	
S	36
	46

mat.: 1.1730

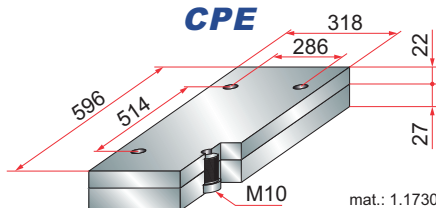
ESP-EU



ESP-EU	
S	76
	86
	96
	116
	136
	156
	176

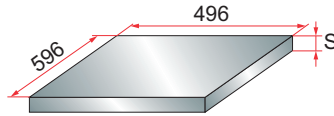
mat.: 1.1730

CPE



P PLATES

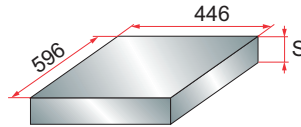
PBA-P



PBA-P	
S	36
	46

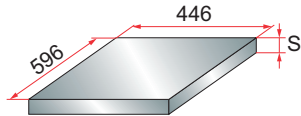
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	

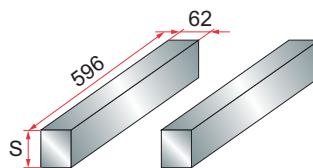
PS-P



PS-P	
S	36
	46

mat.: 1.1730

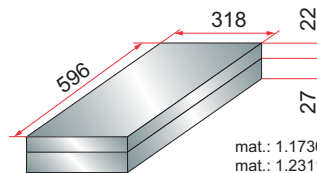
ESP-P



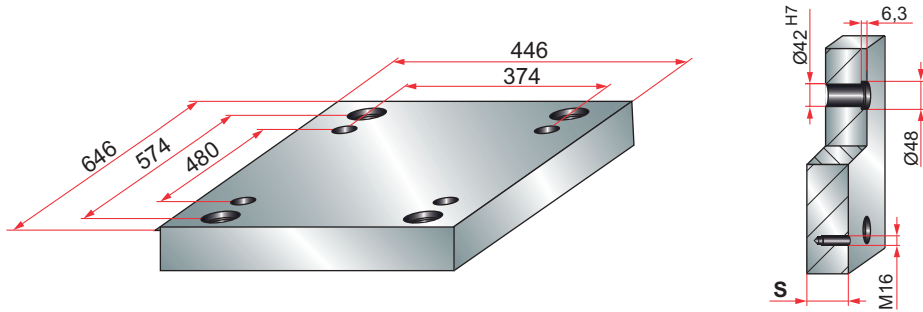
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

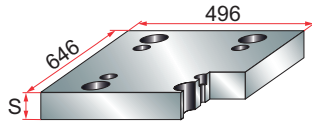
CPE-P



mat.: 1.1730
mat.: 1.2311



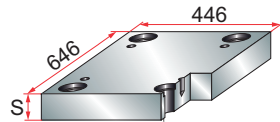
PBA-EU



PBA-EU	
S	36
	46

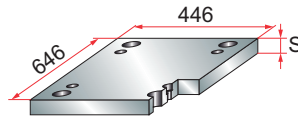
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	
196	*	*	

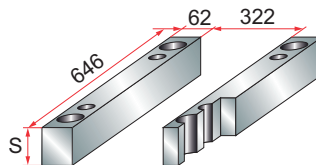
PS-EU



PS-EU	
S	46
	56

mat.: 1.1730

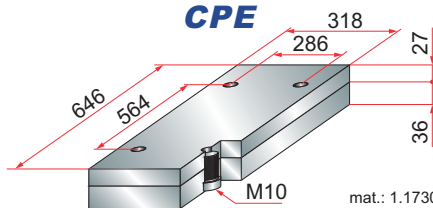
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

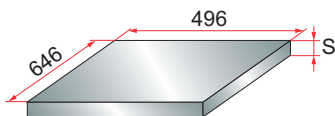
CPE



mat.: 1.1730

P PLATES

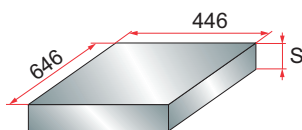
PBA-P



PBA-P	
S	36
	46

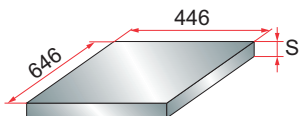
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

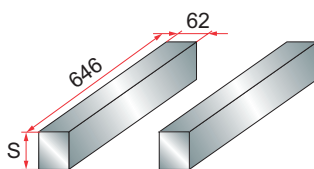
PS-P



PS-P	
S	46
	56

mat.: 1.1730

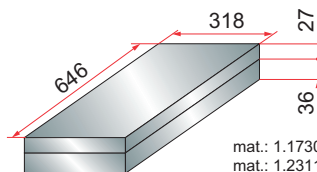
ESP-P



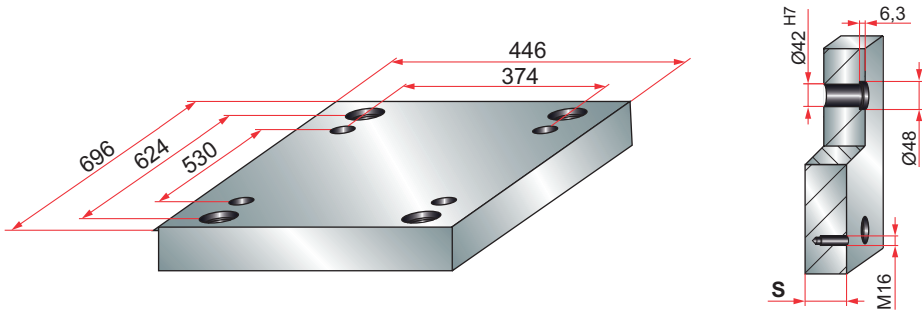
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

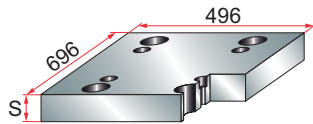
CPE-P



mat.: 1.1730
mat.: 1.2311



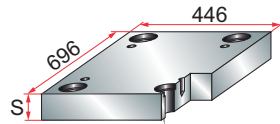
PBA-EU



PBA-EU	
S	36
	46

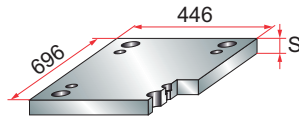
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

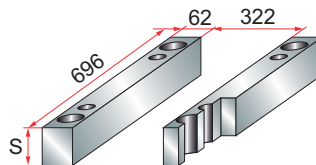
PS-EU



PS-EU	
S	46
	56

mat.: 1.1730

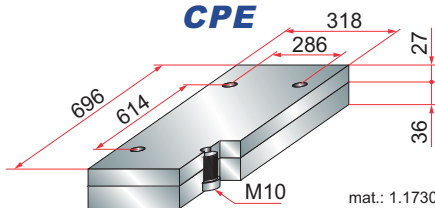
ESP-EU



ESP-EU	
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730

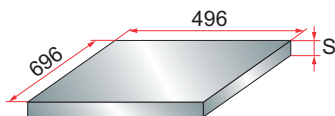
CPE



mat.: 1.1730

P PLATES

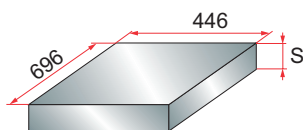
PBA-P



PBA-P	
S	36
	46

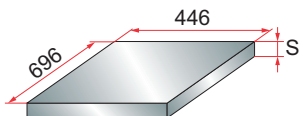
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

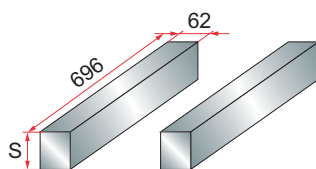
PS-P



PS-P	
S	46
	56

mat.: 1.1730

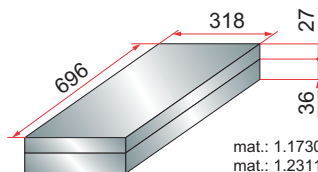
ESP-P



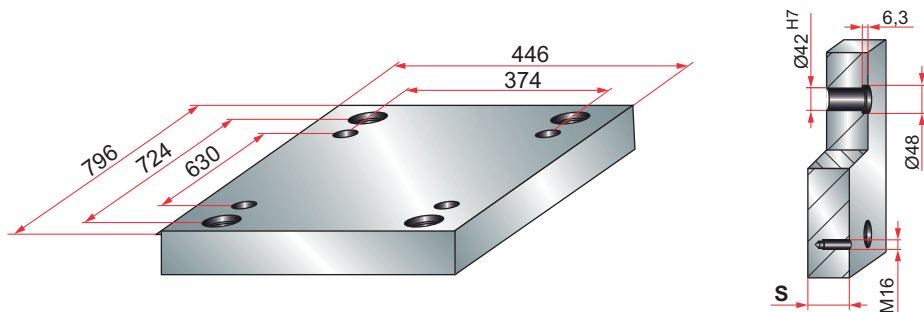
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

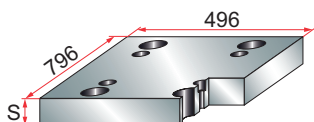
CPE-P



mat.: 1.1730
mat.: 1.2311



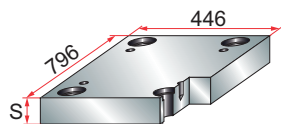
PBA-EU



PBA-EU	
S	46

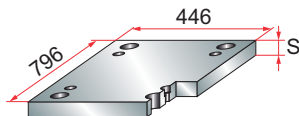
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

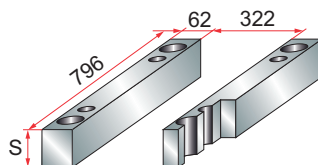
PS-EU



PS-EU	
S	46
	56

mat.: 1.1730

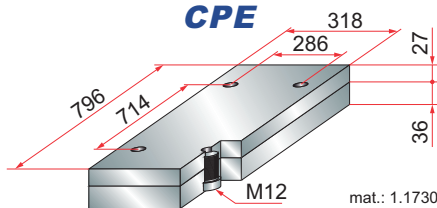
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

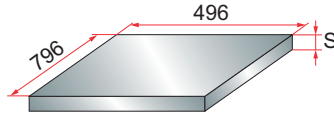
CPE



mat.: 1.1730

P PLATES

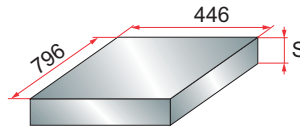
PBA-P



	PBA-P
S	46

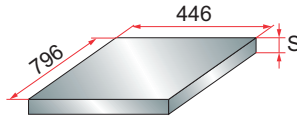
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

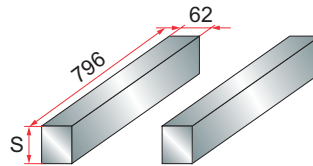
PS-P



	PS-P
S	46
	56

mat.: 1.1730

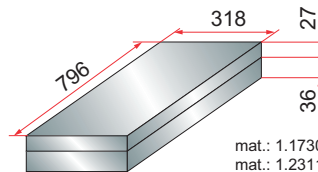
ESP-P



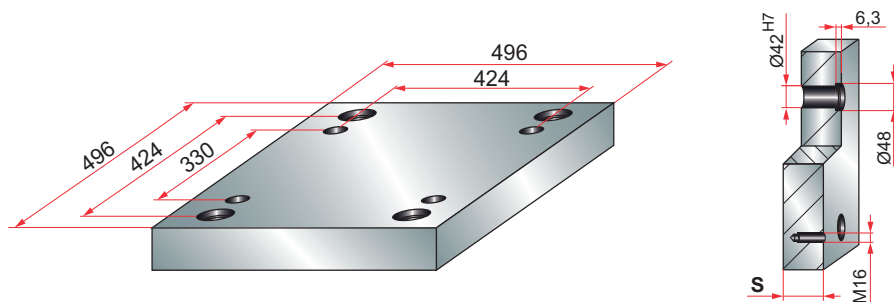
	ESP-P
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

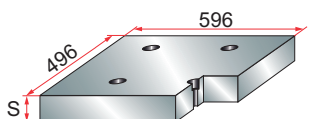
CPE-P



mat.: 1.1730
mat.: 1.2311



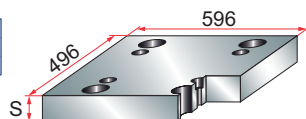
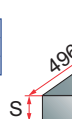
PBA



PBA	
S	36
	46

mat.: 1.1730

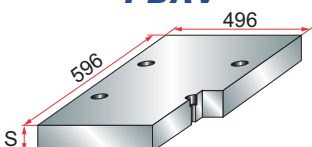
PBA-EU



PBA-EU	
S	36
	46

mat.: 1.1730

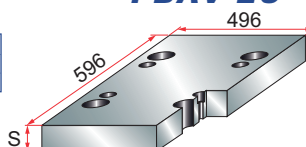
PBAV



PBAV	
S	36
	46

mat.: 1.1730

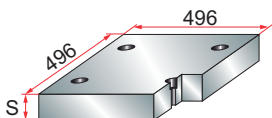
PBAV-EU



PBAV-EU	
S	36
	46

mat.: 1.1730

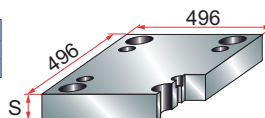
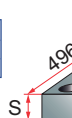
PBAS



PBAS	
S	36
	46

mat.: 1.1730

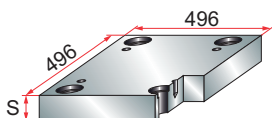
PBAS-EU



PBAS-EU	
S	36
	46

mat.: 1.1730

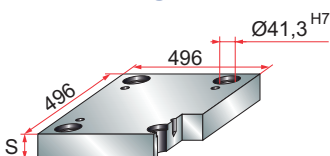
PC



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PCX

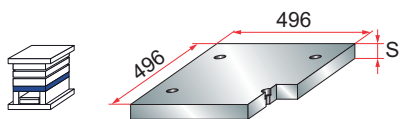


		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

496.496

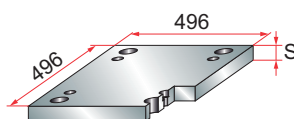
PS



PS	
S	36
	46

mat.: 1.1730

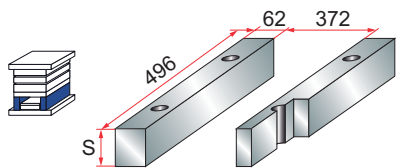
PS-EU



PS-EU	
S	36
	46

mat.: 1.1730

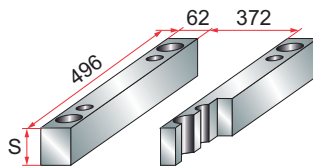
ESP



ESP	
S	56
	76
	86
	96
	116
	136

mat.: 1.1730

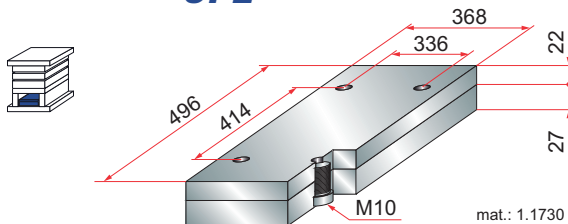
ESP-EU



ESP-EU	
S	56
	76
	86
	96
	116
	136

mat.: 1.1730

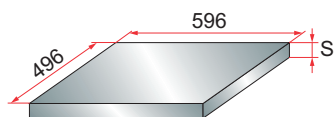
CPE



mat.: 1.1730

P PLATES

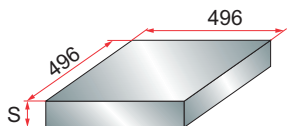
PBA-P



PBA-P	
S	36
	46

mat.: 1.1730

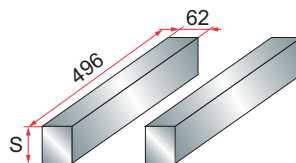
PC-P



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

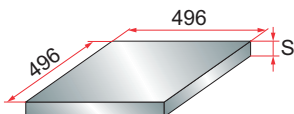
ESP-P



ESP-P	
S	56
	76
	86
	96
	116
	136

mat.: 1.1730

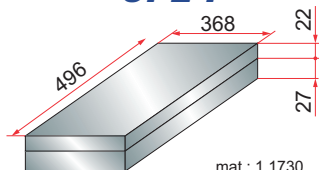
PS-P



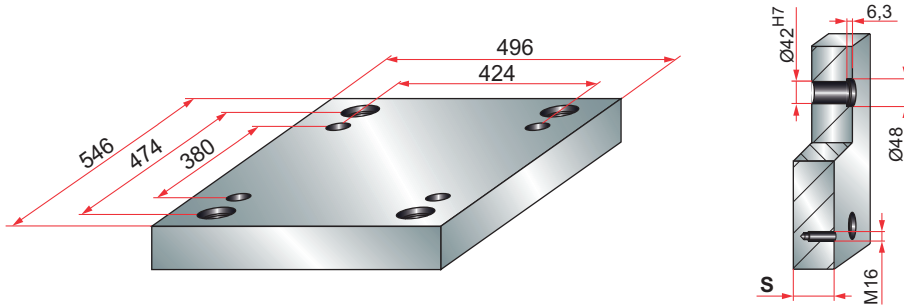
PS-P	
S	36
	46

mat.: 1.1730

CPE-P



mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	36
	46

mat.: 1.1730

PBA-EU

PBA-EU	
S	36
	46

mat.: 1.1730

PBAS

PBAS	
S	36
	46

mat.: 1.1730

PBAS-EU

PBAS-EU	
S	36
	46

mat.: 1.1730

PC

		Material		
		1.2311	1.2312	1.2085
S	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o
	176	*	*	o

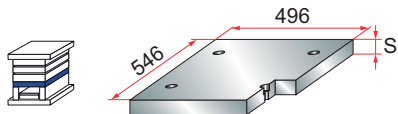
° Entrega 3/4 dias - Delivery 3/4 days

PCX

		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
156	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days

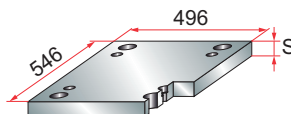
PS



PS	
S	36
	46

mat.: 1.1730

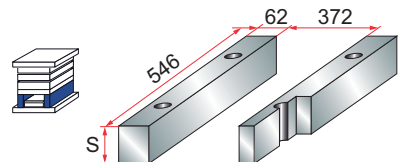
PS-EU



PS-EU	
S	36
	46

mat.: 1.1730

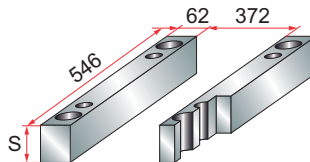
ESP



ESP	
S	76
	86
	96
	116
	136

mat.: 1.1730

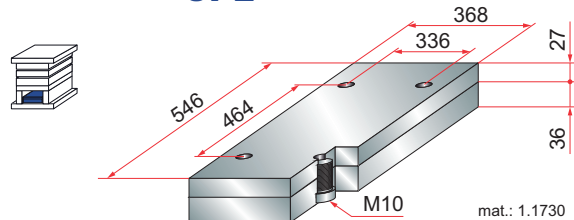
ESP-EU



ESP-EU	
S	56
	66
	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730

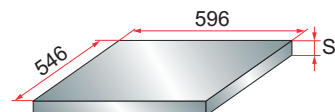
CPE



mat.: 1.1730

P PLATES

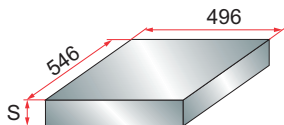
PBA-P



PBA-P	
S	36
	46

mat.: 1.1730

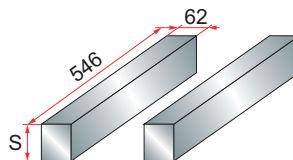
PC-P



		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
156	*	*	*	o	

* Entrega 3/4 días - Delivery 3/4 days

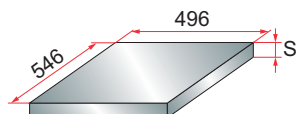
ESP-P



ESP-P	
S	76
	86
	96
	116
	136

mat.: 1.1730

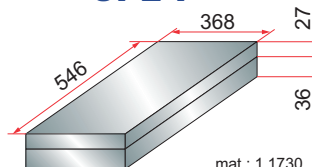
PS-P



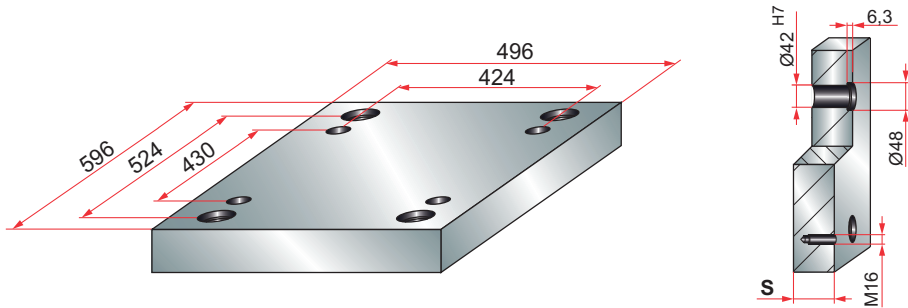
PS-P	
S	36
	46

mat.: 1.1730

CPE-P



mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	36
	46

mat.: 1.1730

PBA-EU

PBA-EU	
S	36
	46

mat.: 1.1730

PBAS

PBA	
S	36
	46

mat.: 1.1730

PBAS-EU

PBA-EU	
S	36
	46

mat.: 1.1730

PC

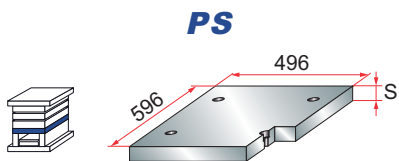
S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86		*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156		*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

PCX

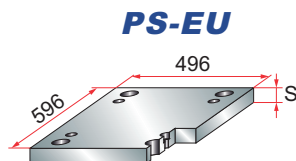
S	Material		
	1.2311	1.2312	1.2085
27	*	*	o
36	*	*	o
46	*	*	o
56	*	*	o
66	*	*	o
76	*	*	o
86	*	*	o
96	*	*	o
116	*	*	o
136	*	*	o
156	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days



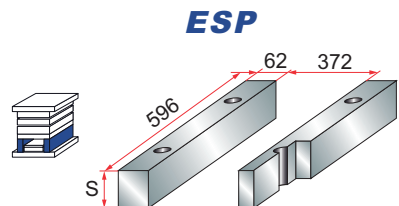
	PS
S	36
	46

mat.: 1.1730



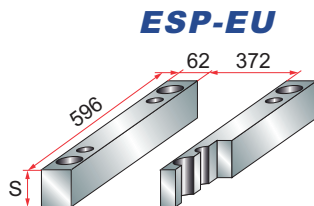
	PS-EU
S	36
	46

mat.: 1.1730



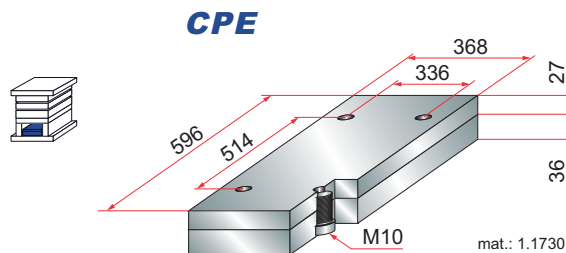
	ESP
S	76
	86
	96
	116
	136

mat.: 1.1730



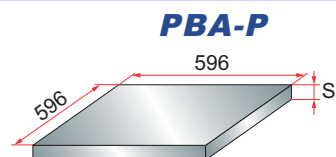
	ESP-EU
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730



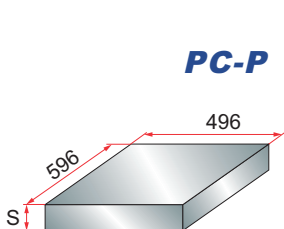
mat.: 1.1730

P PLATES



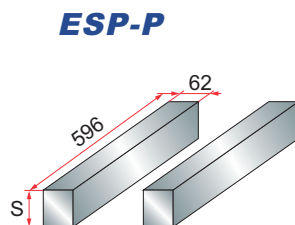
	PBA-P
S	36
	46

mat.: 1.1730



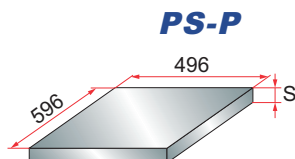
S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

* Entrega 3/4 dias - Delivery 3/4 days



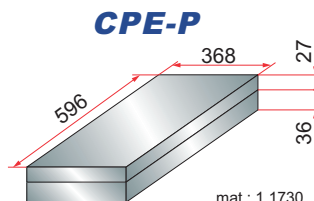
	ESP-P
S	76
	86
	96
	116
	136

mat.: 1.1730

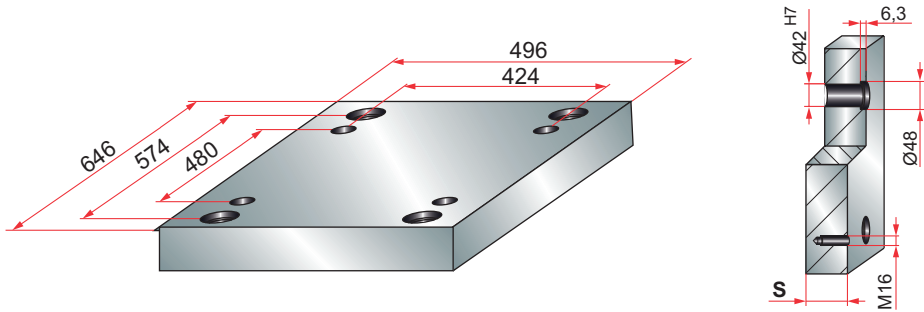


	PS-P
S	36
	46

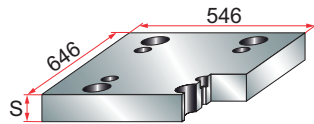
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



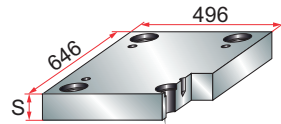
PBA-EU



PBA-EU	
S	46

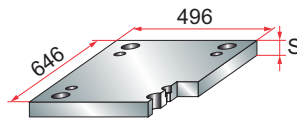
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

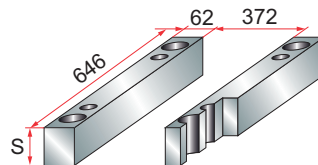
PS-EU



PS-EU	
S	46
	56

mat.: 1.1730

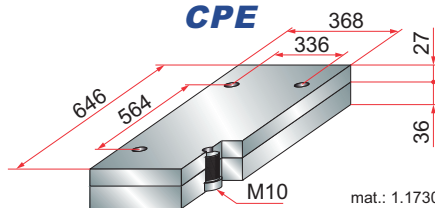
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

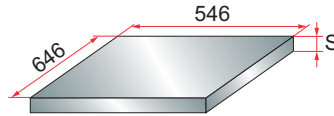
CPE



mat.: 1.1730

P PLATES

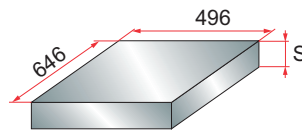
PBA-P



PBA-P	
S	46

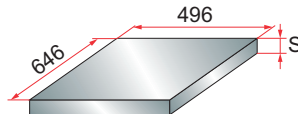
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
	196	*	*

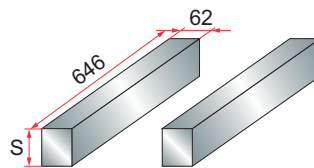
PS-P



PS-P	
S	46
	56

mat.: 1.1730

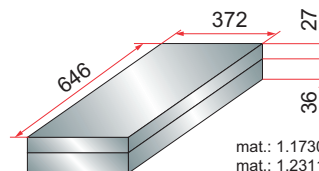
ESP-P



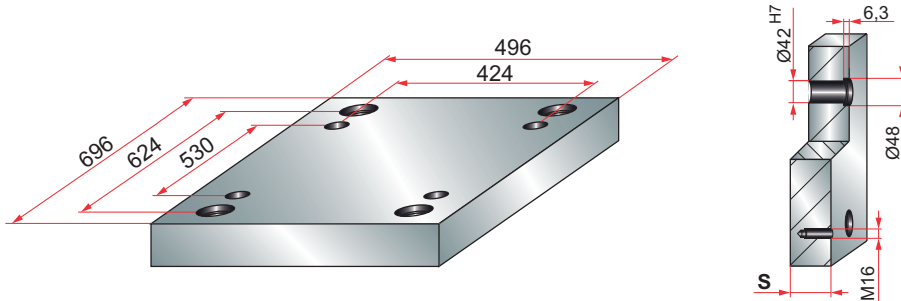
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

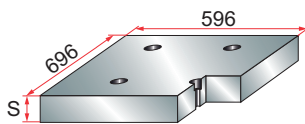
CPE-P



mat.: 1.1730
mat.: 1.2311



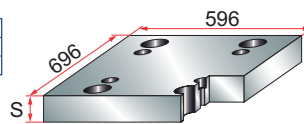
PBA



PBA	
S	46
	56

mat.: 1.1730

PBA-EU

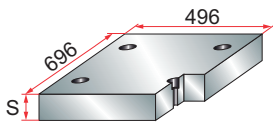


PBA-EU	
S	46
	56

mat.: 1.1730



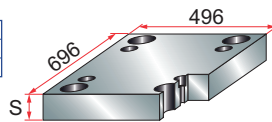
PBAS



PBA	
S	46
	56

mat.: 1.1730

PBAS-EU

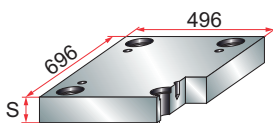


PBA-EU	
S	46
	56

mat.: 1.1730



PC

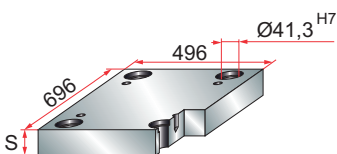


		Material			
		1.1730	1.2311	1.2312	1.2085
S	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86	*	*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156	*	*	*	o
	176	*	*	*	o

° Entrega 3/4 dias - Delivery 3/4 days

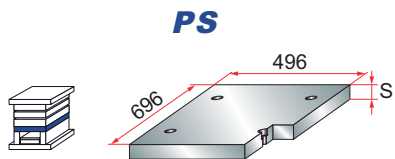


PCX



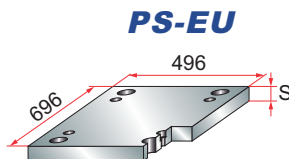
		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
156	*	*	o	

° Entrega 3/4 dias - Delivery 3/4 days



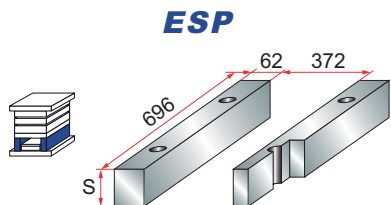
PS	
S	46 56

mat.: 1.1730



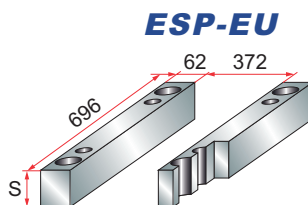
PS-EU	
S	46 56

mat.: 1.1730



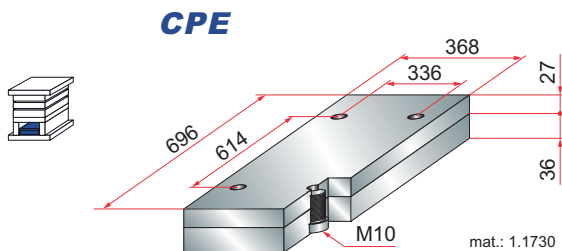
ESP	
S	76 86 96 116 136 156

mat.: 1.1730



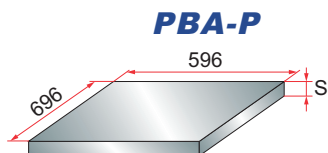
ESP-EU	
S	76 86 96 116 136 156 176

mat.: 1.1730



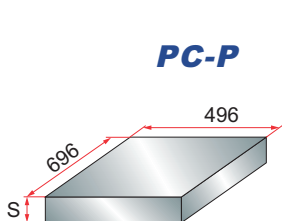
mat.: 1.1730

P PLATES



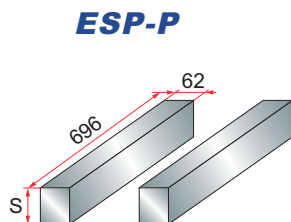
PBA-P	
S	46 56

mat.: 1.1730



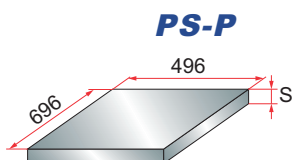
S	Material			
	1.1730	1.2311	1.2312	1.2085
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o
176	*	*	*	o

° Entrega 3/4 días - Delivery 3/4 days



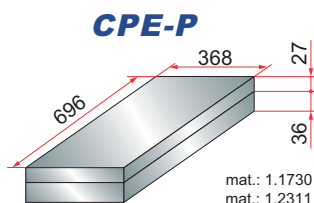
ESP-P	
S	76 86 96 116 136 156

mat.: 1.1730

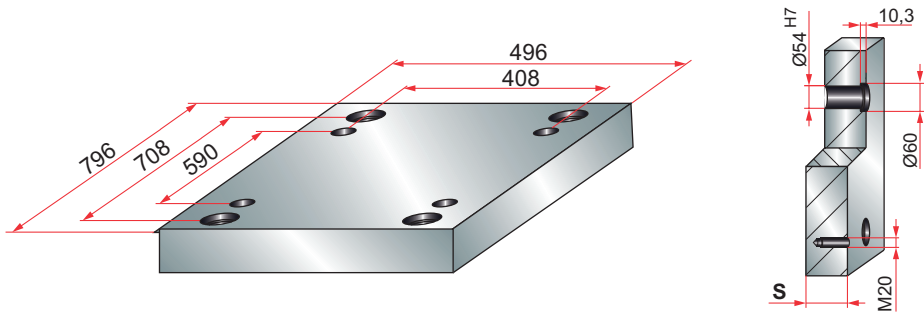


PS-P	
S	46 56

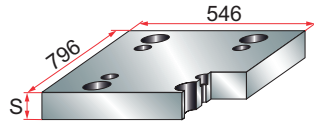
mat.: 1.1730



mat.: 1.1730
mat.: 1.2311



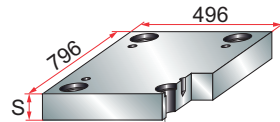
PBA-EU



PBA-EU	
S	46

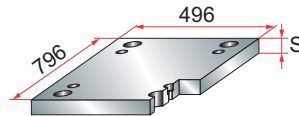
mat.: 1.1730

PC



S		Material	
		1.1730	1.2311
36	*	*	*
46	*	*	*
56	*	*	*
66	*	*	*
76	*	*	*
86	*	*	*
96	*	*	*
116	*	*	*
136	*	*	*
156	*	*	*
176	*	*	*
196	*	*	*

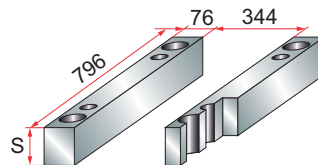
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

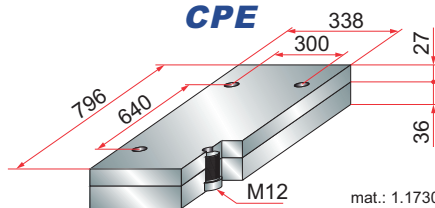
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

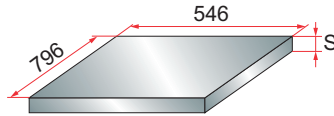
CPE



mat.: 1.1730

P PLATES

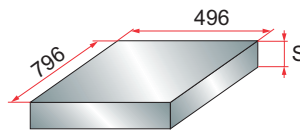
PBA-P



	PBA-P
S	46

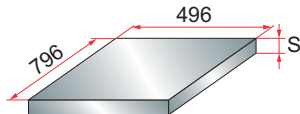
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

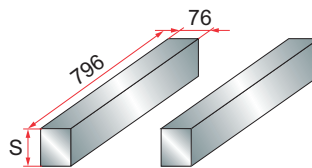
PS-P



	PS-P
S	56
	76

mat.: 1.1730

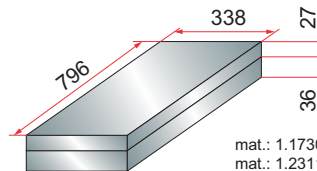
ESP-P



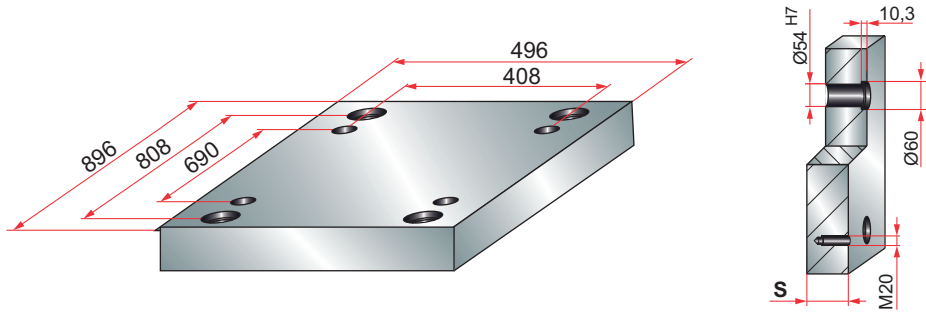
	ESP-P
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

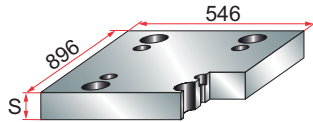
CPE-P



mat.: 1.1730
mat.: 1.2311



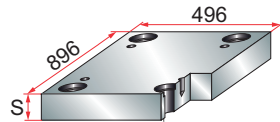
PBA-EU



PBA-EU	
S	46

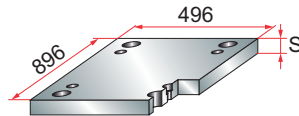
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

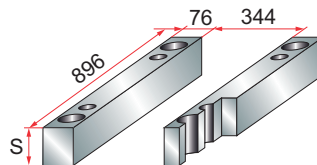
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

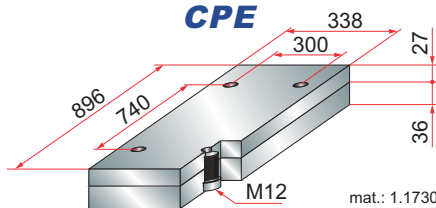
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

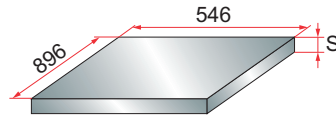
CPE



mat.: 1.1730

P PLATES

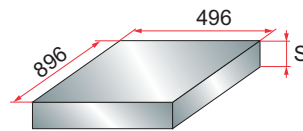
PBA-P



PBA-P	
S	46

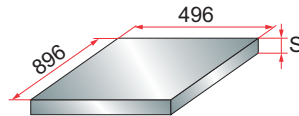
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
	196	*	*

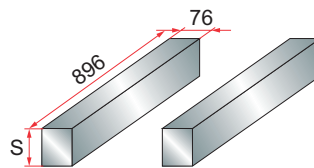
PS-P



PS-P	
S	56
	76

mat.: 1.1730

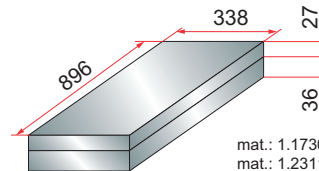
ESP-P



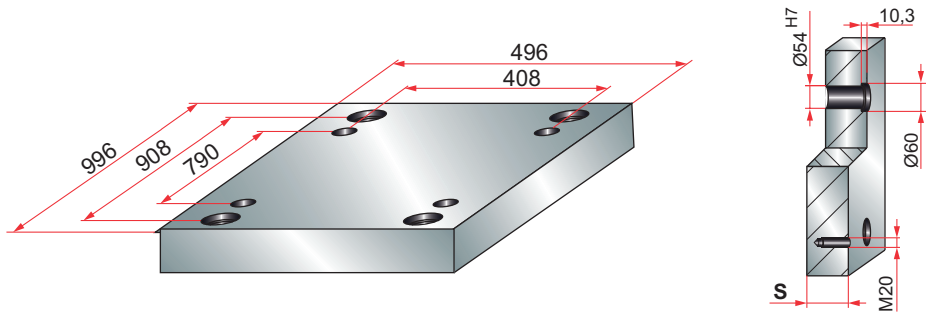
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

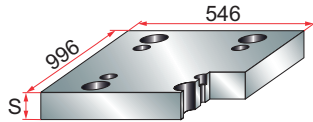
CPE-P



mat.: 1.1730
mat.: 1.2311



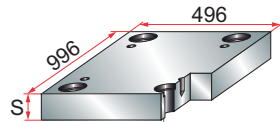
PBA-EU



PBA-EU	
S	46

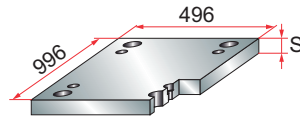
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

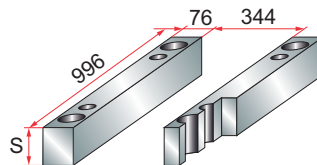
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

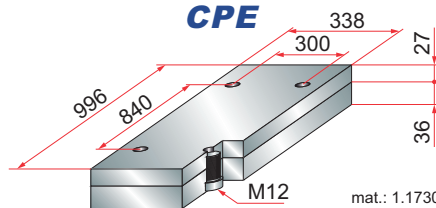
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

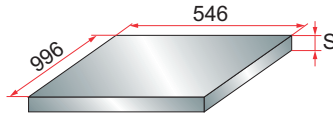
CPE



mat.: 1.1730

P PLATES

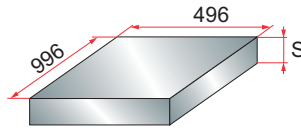
PBA-P



PBA-P	
S	46

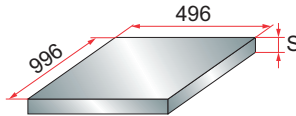
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

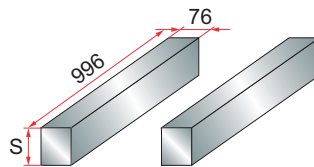
PS-P



PS-P	
S	56
	76

mat.: 1.1730

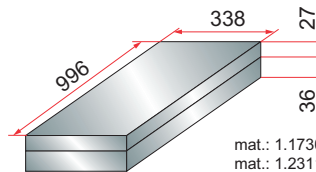
ESP-P



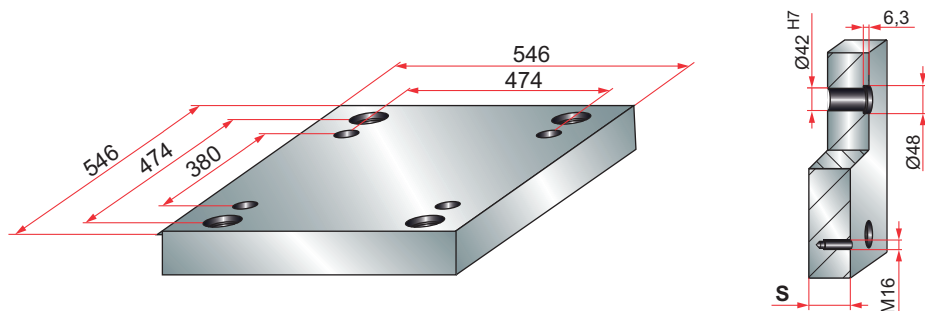
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

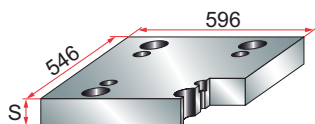
CPE-P



mat.: 1.1730
mat.: 1.2311



PBA-EU

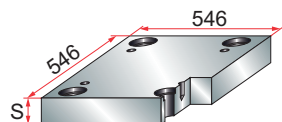


PBA-EU	
S	36
	46

mat.: 1.1730



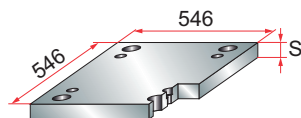
PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	



PS-EU

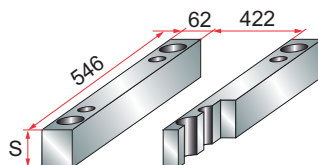


PS-EU	
S	36
	46

mat.: 1.1730



ESP-EU

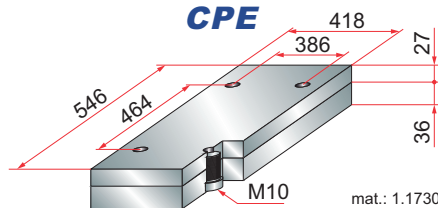


ESP-EU	
S	86
	96
	116
	136
	156
176	

mat.: 1.1730



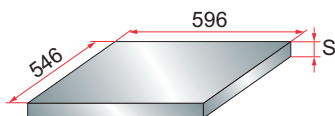
CPE



mat.: 1.1730

P PLATES

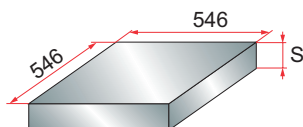
PBA-P



PBA-P	
S	36
	46

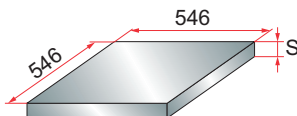
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	

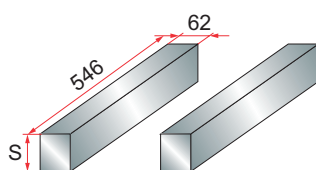
PS-P



PS-P	
S	36
	46

mat.: 1.1730

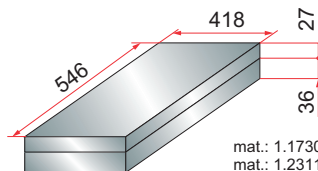
ESP-P



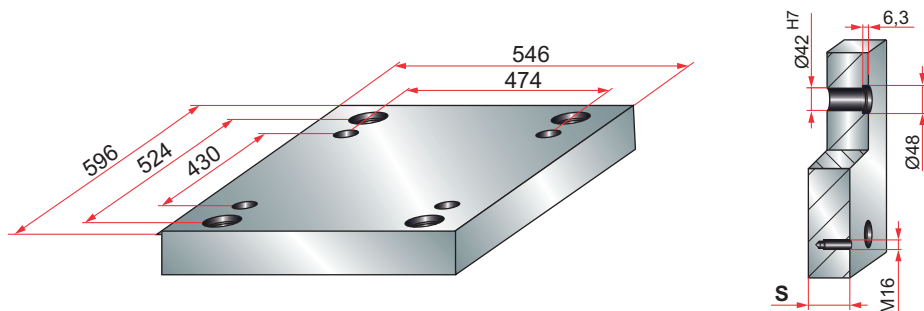
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

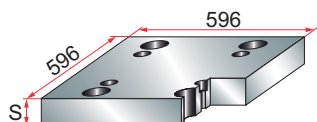
CPE-P



mat.: 1.1730
mat.: 1.2311



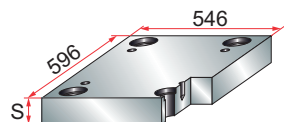
PBA-EU



PBA-EU	
S	36
	46

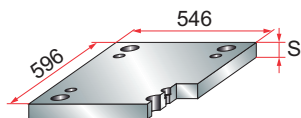
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	

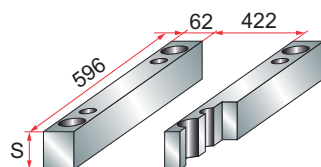
PS-EU



PS-EU	
S	36
	46

mat.: 1.1730

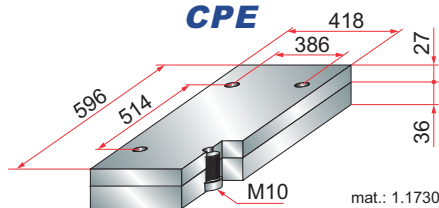
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
176	

mat.: 1.1730

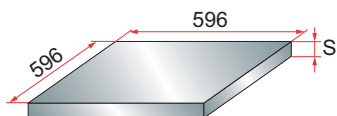
CPE



mat.: 1.1730

P PLATES

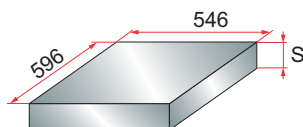
PBA-P



PBA-P	
S	36
	46

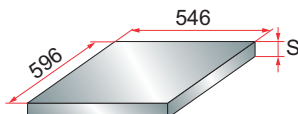
mat.: 1.1730

PC-P



			Material	
			1.1730	1.2311
S	36	*	*	*
	46	*	*	*
	56	*	*	*
	66	*	*	*
	76	*	*	*
	86	*	*	*
	96	*	*	*
	116	*	*	*
	136	*	*	*
	156	*	*	*
176	*	*	*	

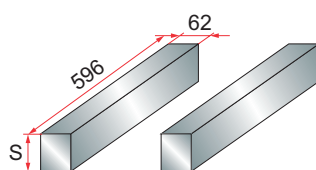
PS-P



PS-P	
S	36
	46

mat.: 1.1730

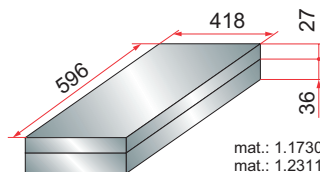
ESP-P



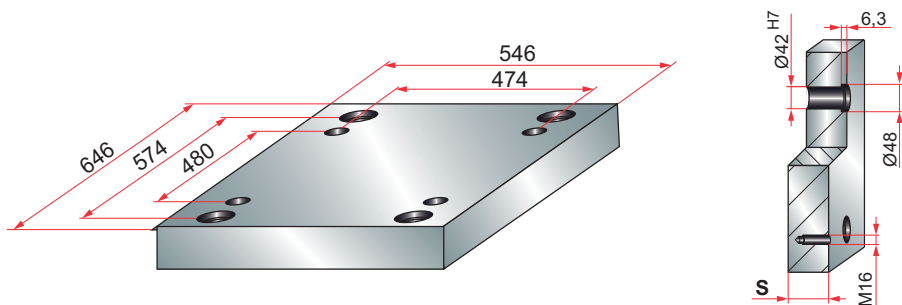
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

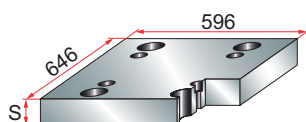
CPE-P



mat.: 1.1730
mat.: 1.2311



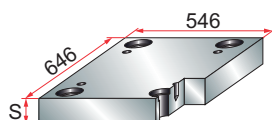
PBA-EU



PBA-EU	
S	46

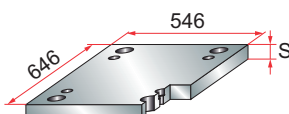
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

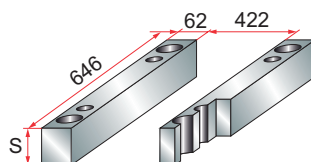
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

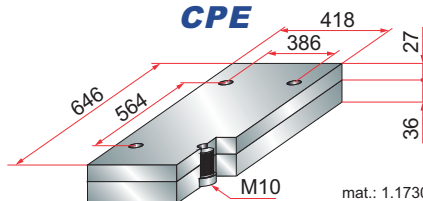
ESP-EU



ESP-EU	
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730

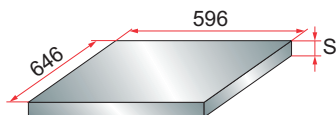
CPE



mat.: 1.1730

P PLATES

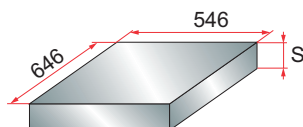
PBA-P



PBA-P	
S	46

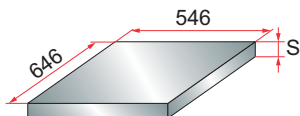
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

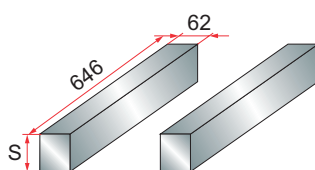
PS-P



PS-P	
S	56
	76

mat.: 1.1730

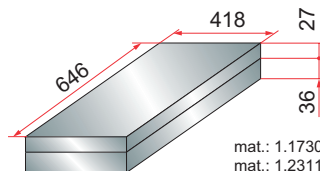
ESP-P



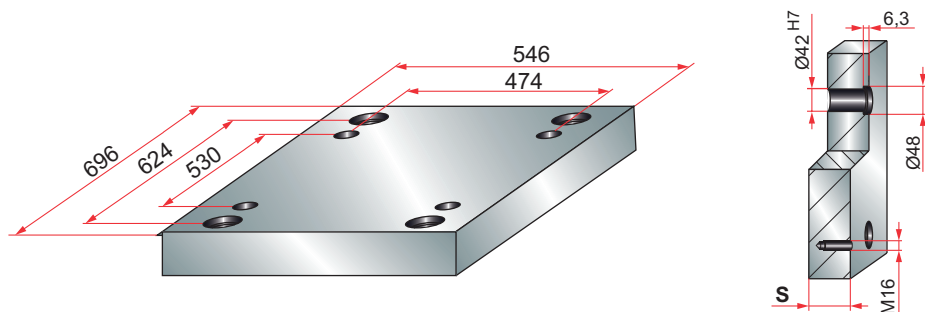
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

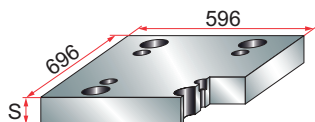
CPE-P



mat.: 1.1730
mat.: 1.2311



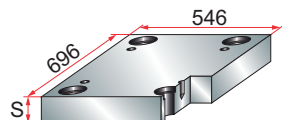
PBA-EU



PBA-EU	
S	46

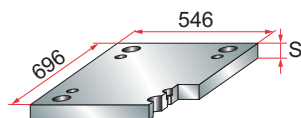
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

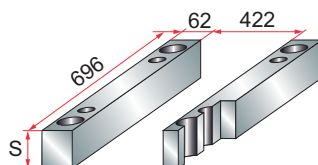
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

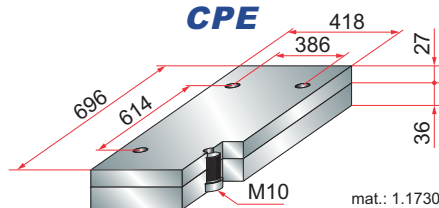
ESP-EU



ESP-EU	
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730

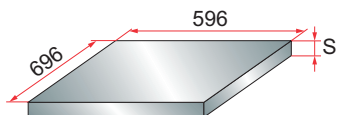
CPE



mat.: 1.1730

P PLATES

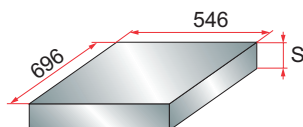
PBA-P



PBA-P	
S	46

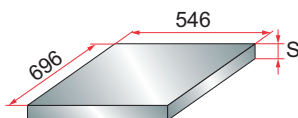
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

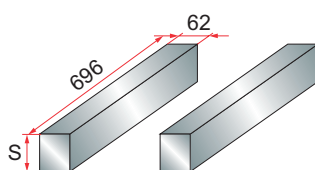
PS-P



PS-P	
S	56
	76

mat.: 1.1730

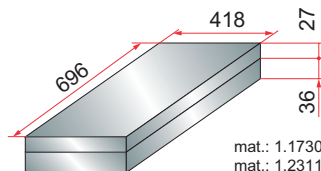
ESP-P



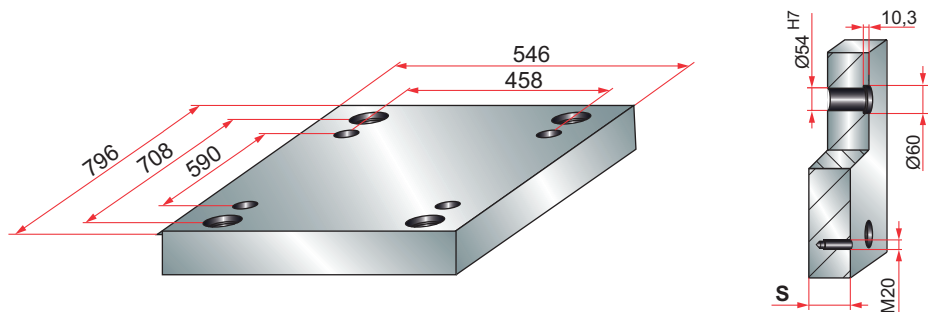
ESP-P	
S	86
	96
	116
	136
	156
176	

mat.: 1.1730

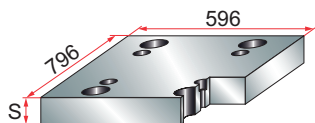
CPE-P



mat.: 1.1730
mat.: 1.2311



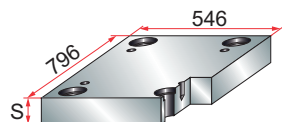
PBA-EU



PBA-EU	
S	46

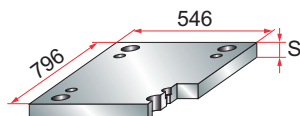
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

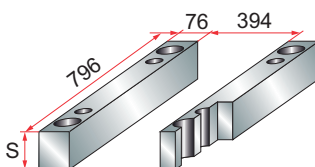
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

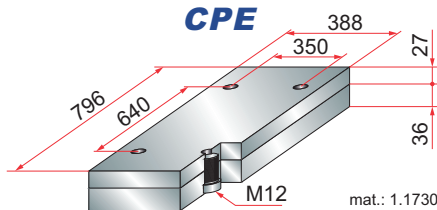
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

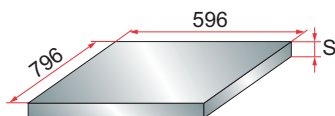
CPE



mat.: 1.1730

P PLATES

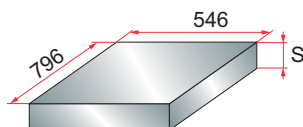
PBA-P



PBA-P	
S	46

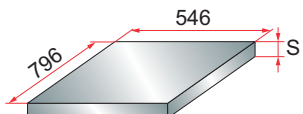
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

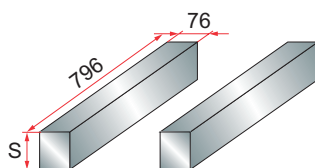
PS-P



PS-P	
S	56
	76

mat.: 1.1730

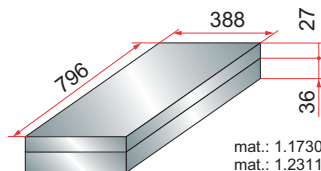
ESP-P



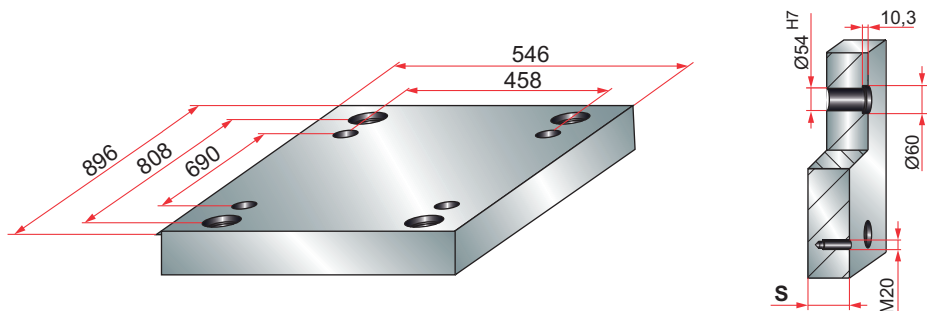
ESP-P	
S	86
	96
	116
	136
	176

mat.: 1.1730

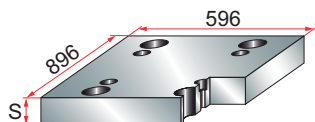
CPE-P



mat.: 1.1730
mat.: 1.2311



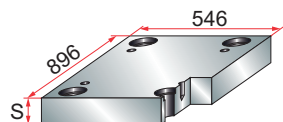
PBA-EU



PBA-EU	
S	46

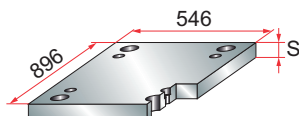
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

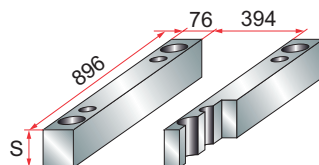
PS-EU



PS-EU	
S	56 76

mat.: 1.1730

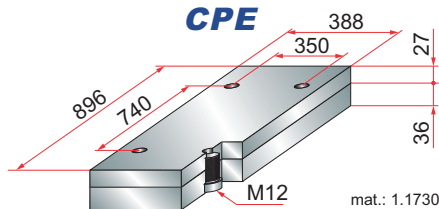
ESP-EU



ESP-EU	
S	86 96 116 136 156 176

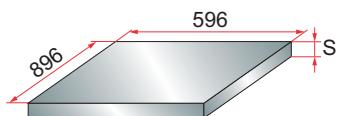
mat.: 1.1730

CPE



P PLATES

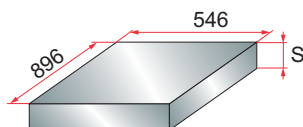
PBA-P



PBA-P	
S	46

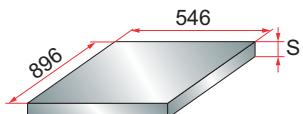
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

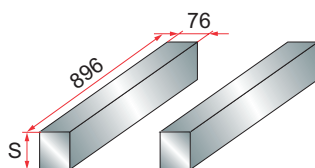
PS-P



PS-P	
S	56
	76

mat.: 1.1730

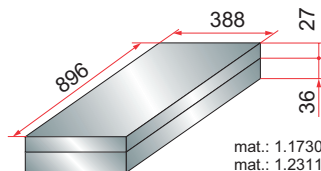
ESP-P



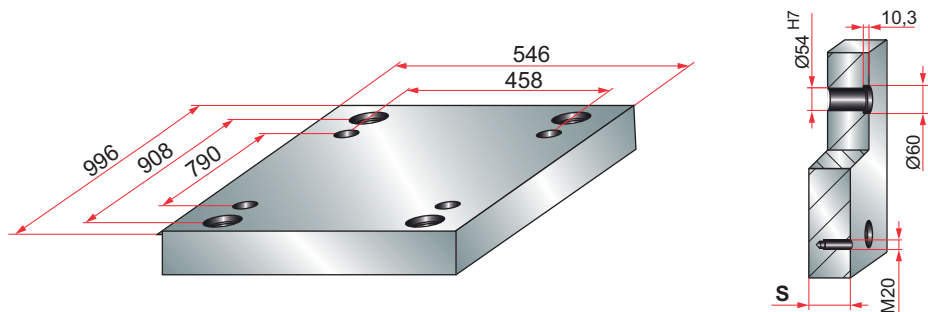
ESP-P	
S	86
	96
	116
	136
	176

mat.: 1.1730

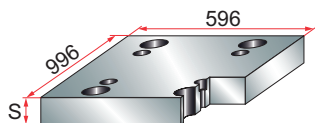
CPE-P



mat.: 1.1730
mat.: 1.2311



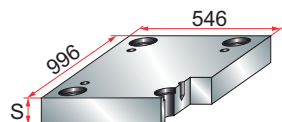
PBA-EU



PBA-EU	
S	46

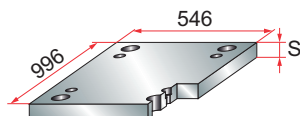
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

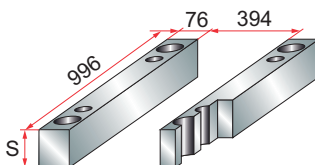
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

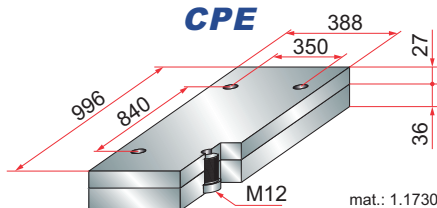
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

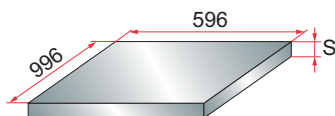
CPE



mat.: 1.1730

P PLATES

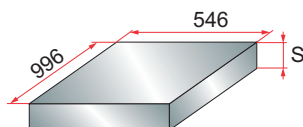
PBA-P



PBA-P	
S	46

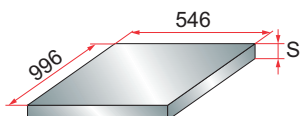
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

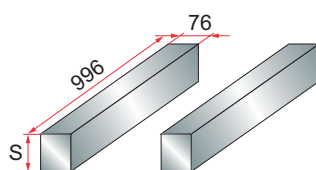
PS-P



PS-P	
S	56
	76

mat.: 1.1730

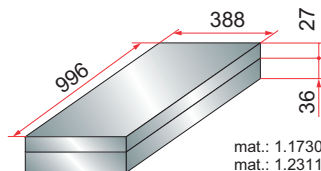
ESP-P



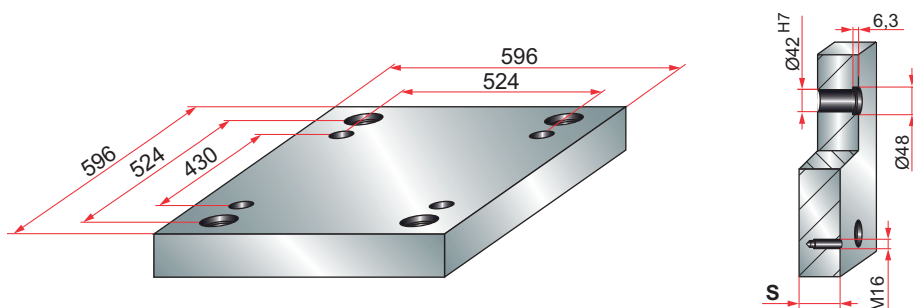
ESP-P	
S	86
	96
	116
	136
	176

mat.: 1.1730

CPE-P



mat.: 1.1730
mat.: 1.2311



PBA

PBA	
S	46
	56

mat.: 1.1730

PBA-EU

PBA-EU	
S	46
	56

mat.: 1.1730

PBAS

PBAS	
S	46
	56

mat.: 1.1730

PBAS-EU

PBAS-EU	
S	46
	56

mat.: 1.1730

PC

		Material			
		1.1730	1.2311	1.2312	1.2085
S	27	*	*	*	o
	36	*	*	*	o
	46	*	*	*	o
	56	*	*	*	o
	66	*	*	*	o
	76	*	*	*	o
	86		*	*	o
	96	*	*	*	o
	116	*	*	*	o
	136	*	*	*	o
	156		*	*	o

° Entrega 3/4 días - Delivery 3/4 days

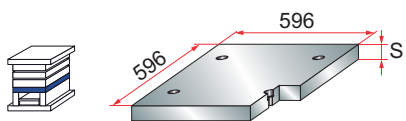
PCX

		Material		
		1.2311	1.2312	1.2085
S	27	*	*	o
	36	*	*	o
	46	*	*	o
	56	*	*	o
	66	*	*	o
	76	*	*	o
	86	*	*	o
	96	*	*	o
	116	*	*	o
	136	*	*	o
	156	*	*	o

° Entrega 3/4 días - Delivery 3/4 days

596.596

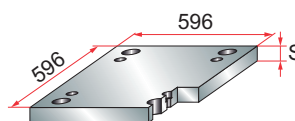
PS



PS	
S	46
	56

mat.: 1.1730

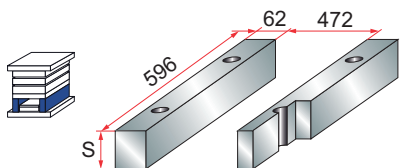
PS-EU



PS-EU	
S	46
	56

mat.: 1.1730

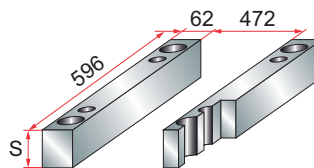
ESP



ESP	
S	76
	86
	96
	116
	136
	156

mat.: 1.1730

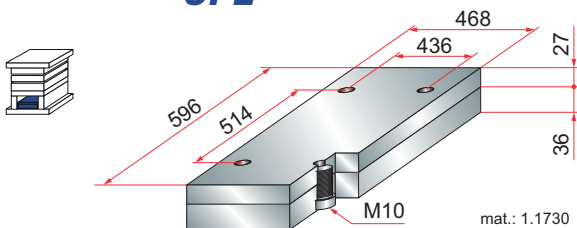
ESP-EU



ESP-EU	
S	76
	86
	96
	116
	136
	156
	176

mat.: 1.1730

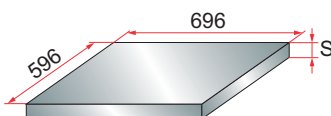
CPE



mat.: 1.1730

P PLATES

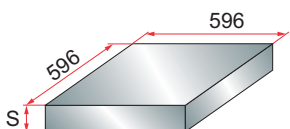
PBA-P



PBA-P	
S	46
	56

mat.: 1.1730

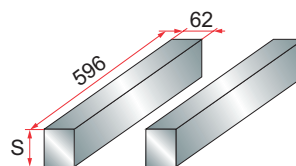
PC-P



S	Material			
	1.1730	1.2311	1.2312	1.2085
27	*	*	*	o
36	*	*	*	o
46	*	*	*	o
56	*	*	*	o
66	*	*	*	o
76	*	*	*	o
86	*	*	*	o
96	*	*	*	o
116	*	*	*	o
136	*	*	*	o
156	*	*	*	o

o Entrega 3/4 dias - Delivery 3/4 days

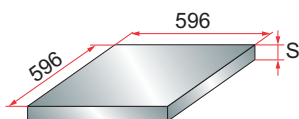
ESP-P



ESP-P	
S	76
	86
	96
	116
	136
	156

mat.: 1.1730

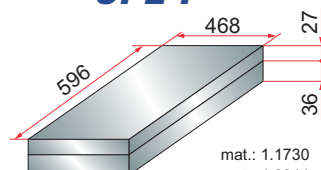
PS-P



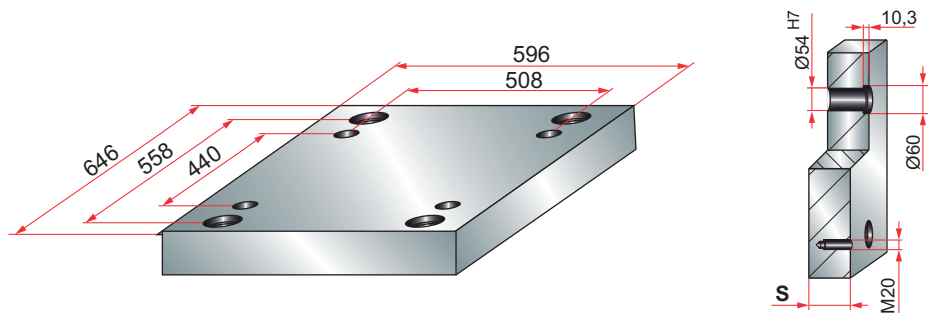
PS-P	
S	46
	56

mat.: 1.1730

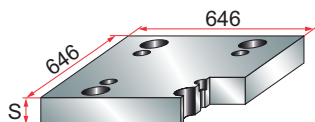
CPE-P



mat.: 1.1730
mat.: 1.2311



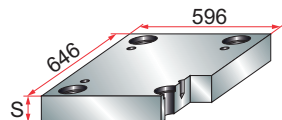
PBA-EU



PBA-EU	
S	46

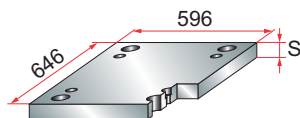
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

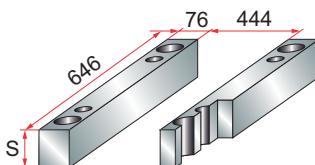
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

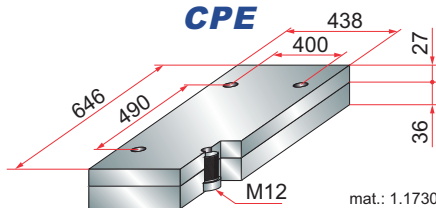
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
176	

mat.: 1.1730

CPE

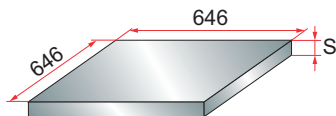


mat.: 1.1730

P PLATES



PBA-P

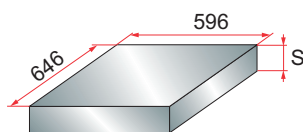


PBA-P	
S	46

mat.: 1.1730



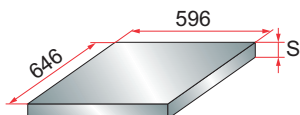
PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	



PS-P

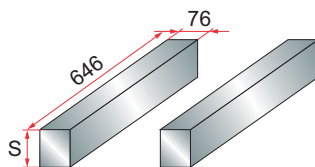


PS-P	
S	56
	76

mat.: 1.1730



ESP-P

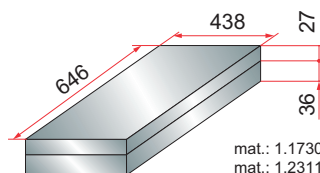


ESP-P	
S	86
	96
	116
	136
	156
	176

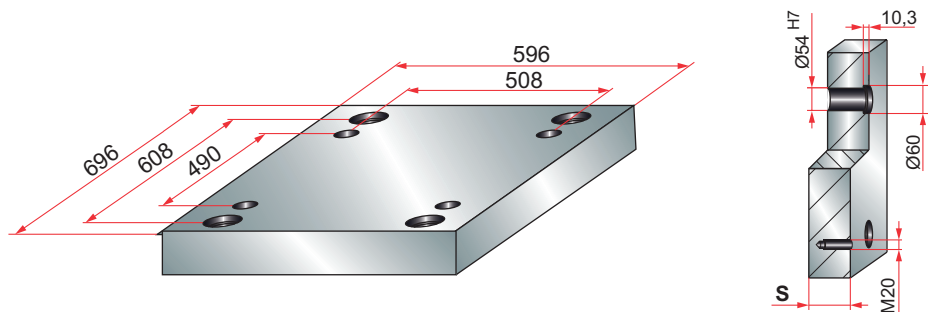
mat.: 1.1730



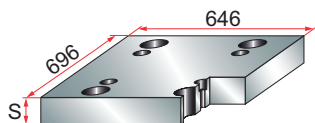
CPE-P



mat.: 1.1730
mat.: 1.2311



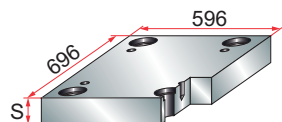
PBA-EU



PBA-EU	
S	46

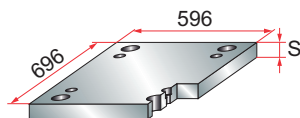
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

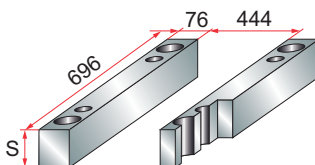
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

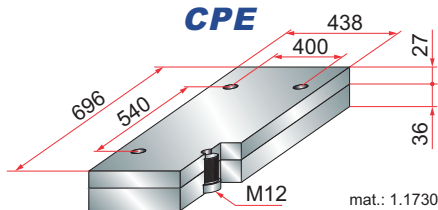
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

CPE

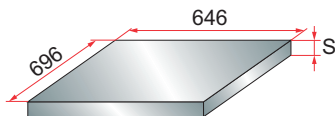


mat.: 1.1730

P PLATES



PBA-P

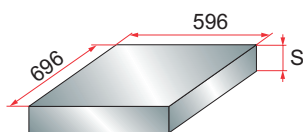


PBA-P	
S	46

mat.: 1.1730



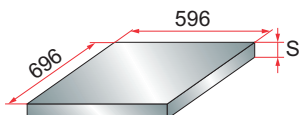
PC-P



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*



PS-P

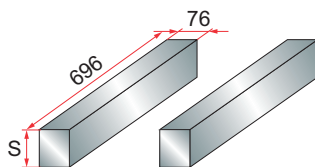


PS-P	
S	56 76

mat.: 1.1730



ESP-P

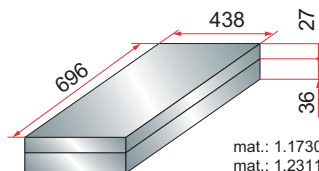


ESP-P	
S	86 96 116 136 156 176

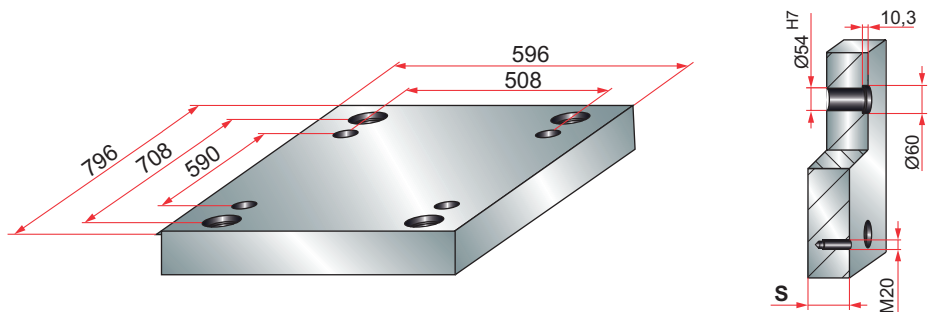
mat.: 1.1730



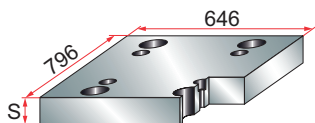
CPE-P



mat.: 1.1730
mat.: 1.2311



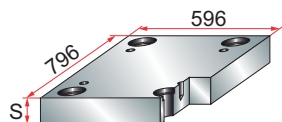
PBA-EU



PBA-EU	
S	46

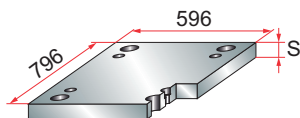
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

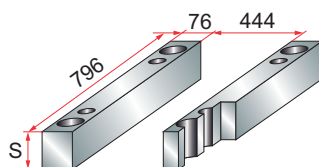
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

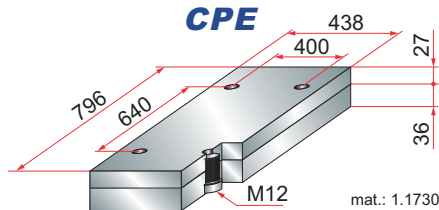
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

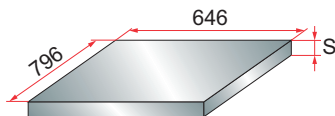
mat.: 1.1730

CPE



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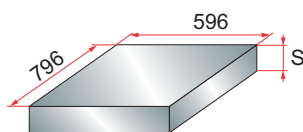
PBA-P



PBA-P	
S	46

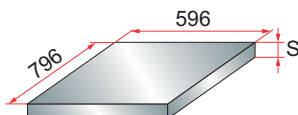
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

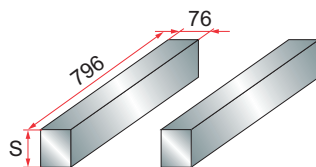
PS-P



PS-P	
S	56
	76

mat.: 1.1730

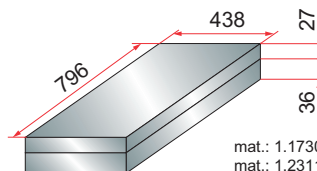
ESP-P



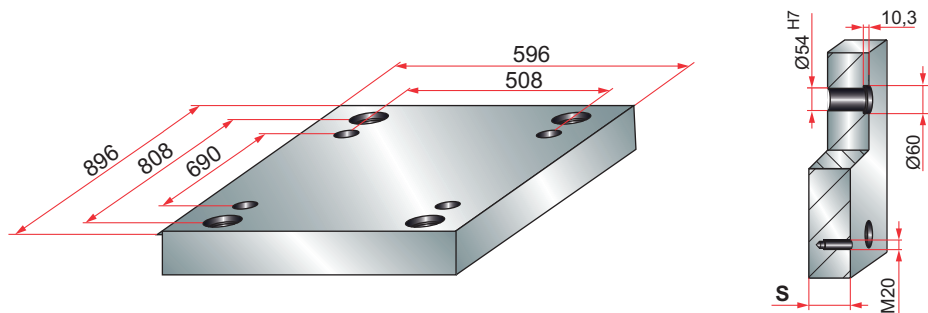
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

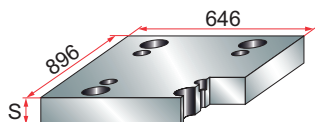
CPE-P



mat.: 1.1730
mat.: 1.2311



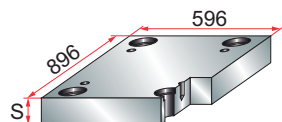
PBA-EU



	PBA-EU
S	46

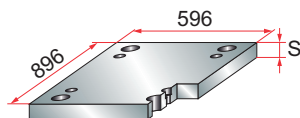
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
176	*	*	
196	*	*	

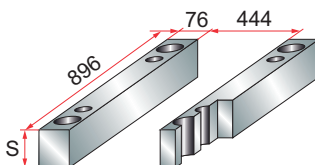
PS-EU



	PS-EU
S	56
	76

mat.: 1.1730

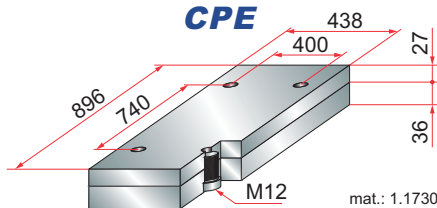
ESP-EU



	ESP-EU
S	86
	96
	116
	136
	156
176	

mat.: 1.1730

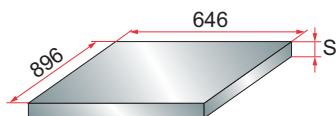
CPE



mat.: 1.1730

P PLATES

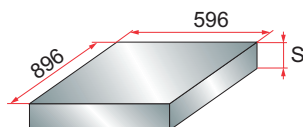
PBA-P



PBA-P	
S	46

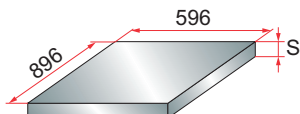
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

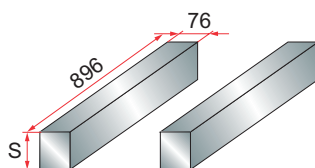
PS-P



PS-P	
S	56
	76

mat.: 1.1730

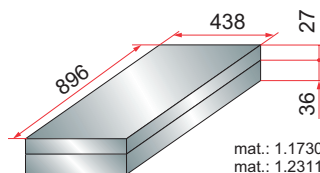
ESP-P



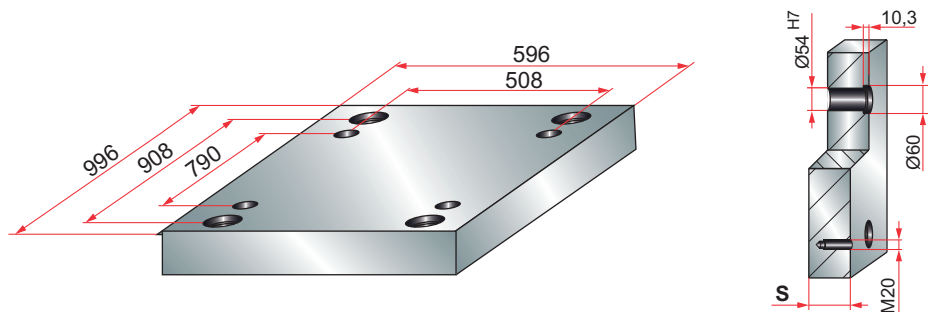
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

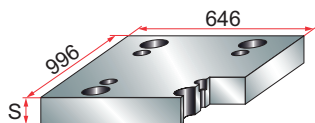
CPE-P



mat.: 1.1730
mat.: 1.2311



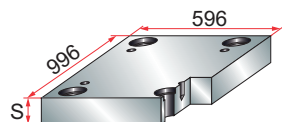
PBA-EU



PBA-EU	
S	46

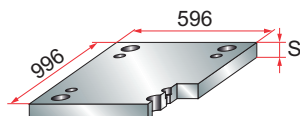
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

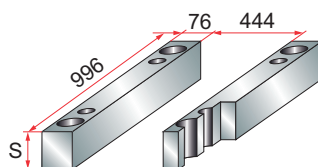
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

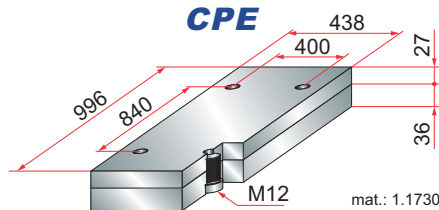
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

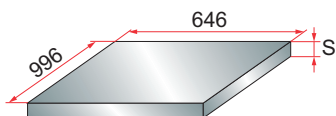
CPE



mat.: 1.1730

P PLATES

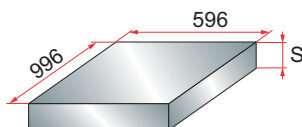
PBA-P



	PBA-P
S	46

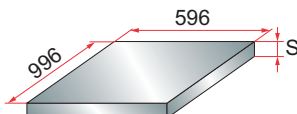
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
	196	*	*

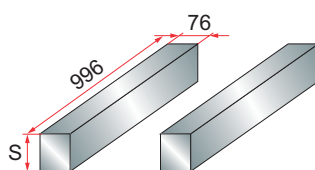
PS-P



	PS-P
S	56
	76

mat.: 1.1730

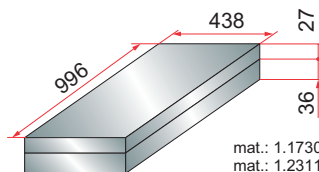
ESP-P



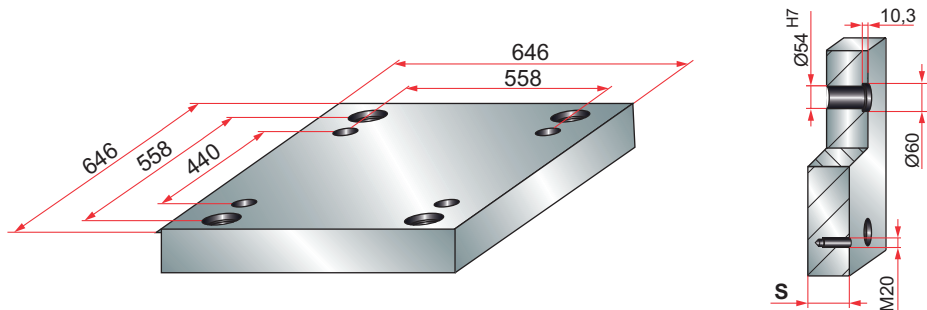
	ESP-P
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

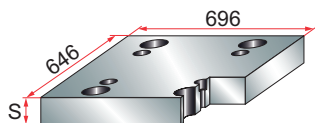
CPE-P



mat.: 1.1730
mat.: 1.2311



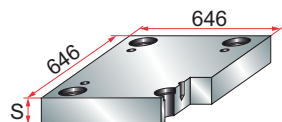
PBA-EU



PBA-EU	
S	46

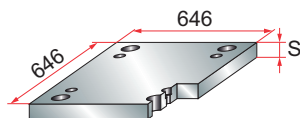
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

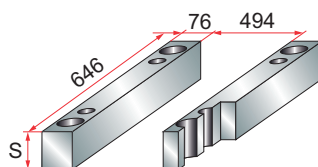
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

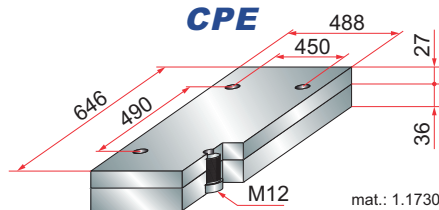
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

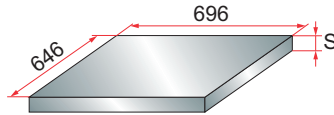
CPE



mat.: 1.1730

P PLATES

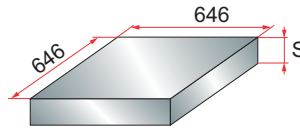
PBA-P



PBA-P	
S	46

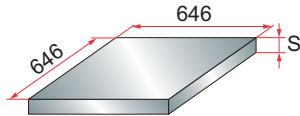
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

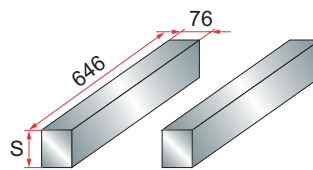
PS-P



PS-P	
S	56
	76

mat.: 1.1730

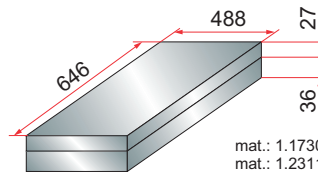
ESP-P



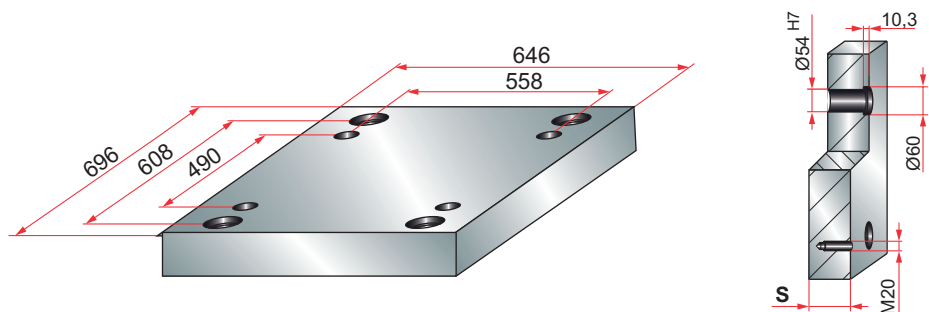
ESP-P	
S	86
	96
	116
	136
	156
176	

mat.: 1.1730

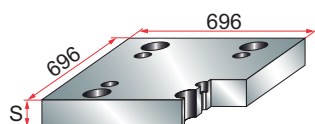
CPE-P



mat.: 1.1730
mat.: 1.2311



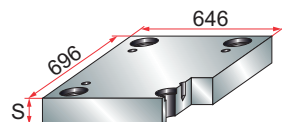
PBA-EU



PBA-EU	
S	46

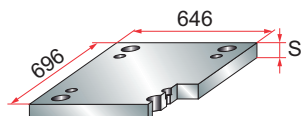
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	196	*	*

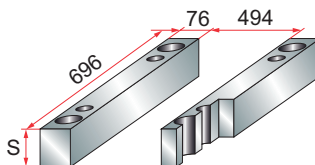
PS-EU



PS-EU	
S	56 76

mat.: 1.1730

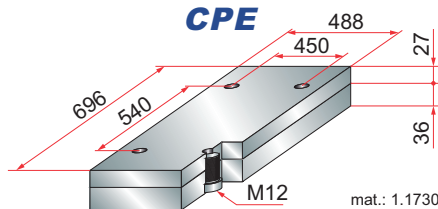
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	176

mat.: 1.1730

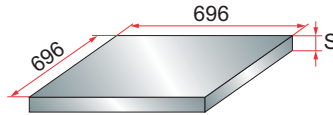
CPE



mat.: 1.1730

P PLATES

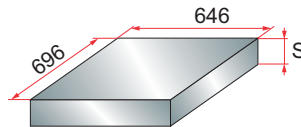
PBA-P



PBA-P	
S	46

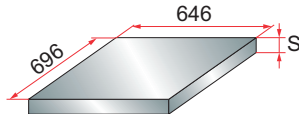
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

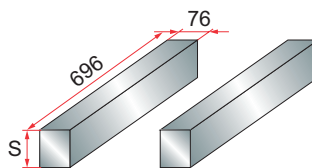
PS-P



PS-P	
S	56
	76

mat.: 1.1730

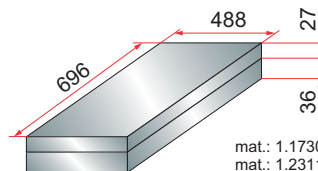
ESP-P



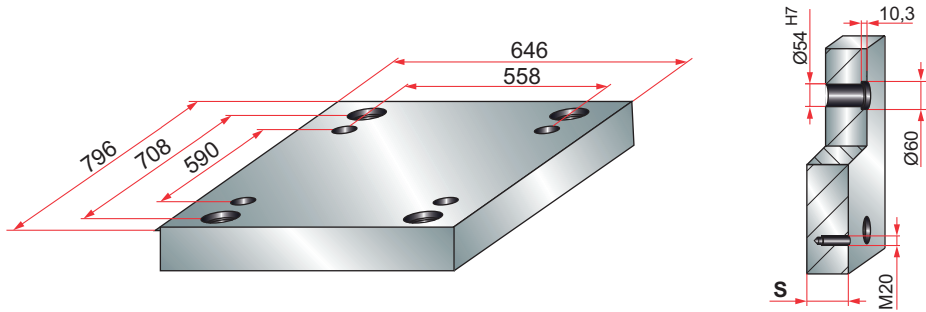
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

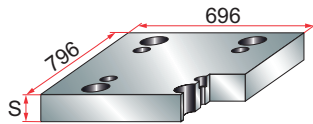
CPE-P



mat.: 1.1730
mat.: 1.2311



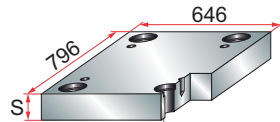
PBA-EU



PBA-EU	
S	46

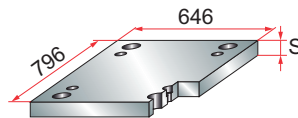
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

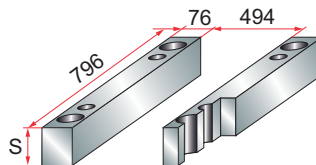
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

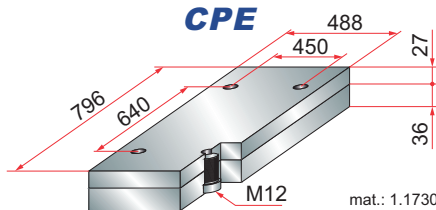
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

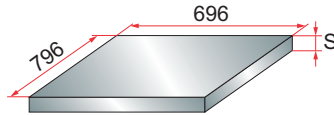
CPE



mat.: 1.1730

P PLATES

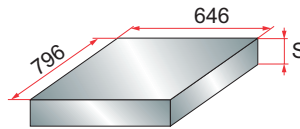
PBA-P



PBA-P	
S	46

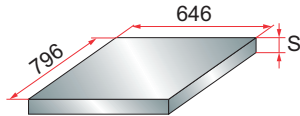
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

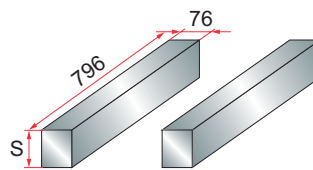
PS-P



PS-P	
S	56
	76

mat.: 1.1730

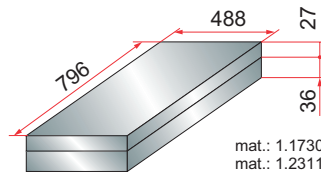
ESP-P



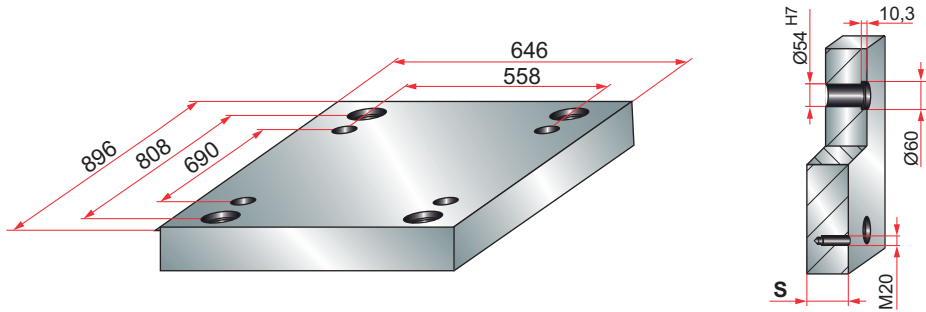
ESP-P	
S	86
	96
	116
	136
	156
176	

mat.: 1.1730

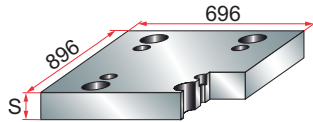
CPE-P



mat.: 1.1730
mat.: 1.2311



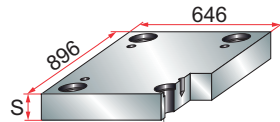
PBA-EU



PBA-EU	
S	46

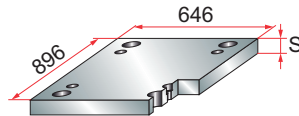
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

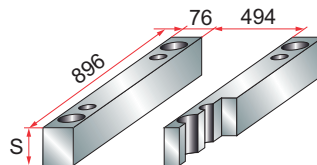
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

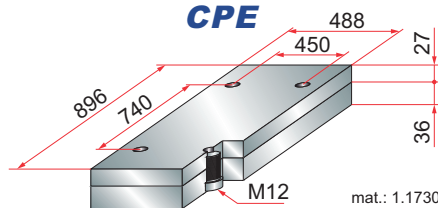
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

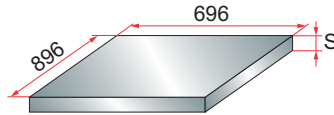
mat.: 1.1730

CPE



P PLATES

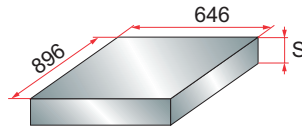
PBA-P



PBA-P	
S	46

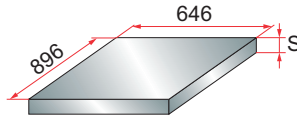
mat.: 1.1730

PC-P



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

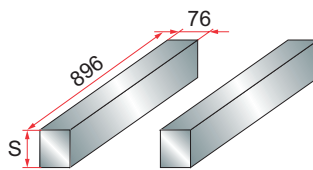
PS-P



PS-P	
S	56
	76

mat.: 1.1730

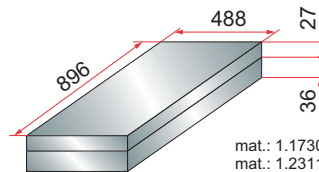
ESP-P



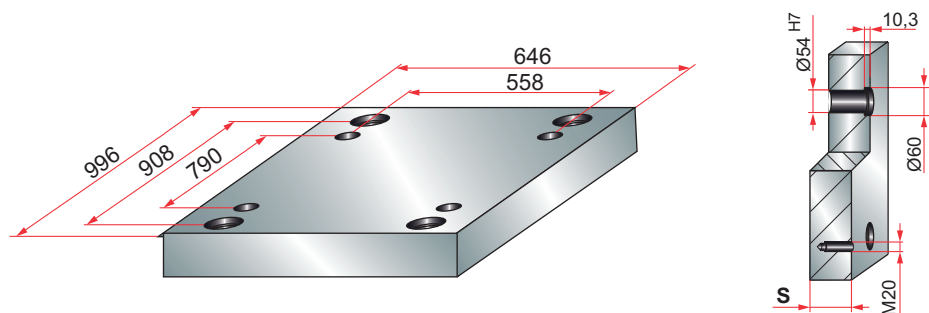
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

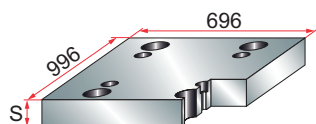
CPE-P



mat.: 1.1730
mat.: 1.2311



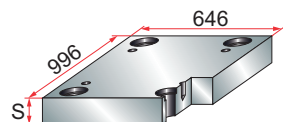
PBA-EU



PBA-EU	
S	46

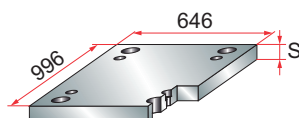
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

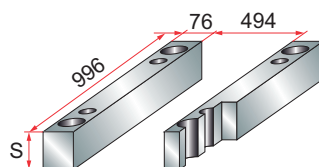
PS-EU



PS-EU	
S	56 76

mat.: 1.1730

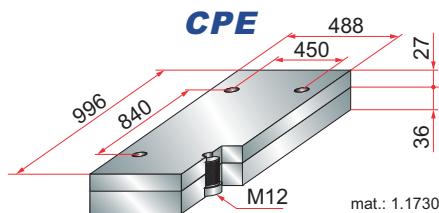
ESP-EU



ESP-EU	
S	86 96 116 136 156 176

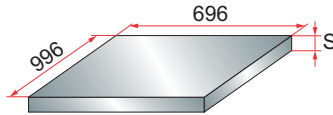
mat.: 1.1730

CPE



P PLATES

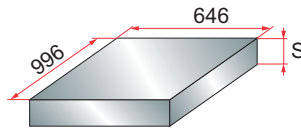
PBA-P



PBA-P	
S	46

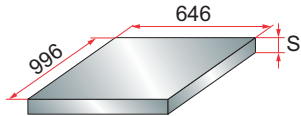
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

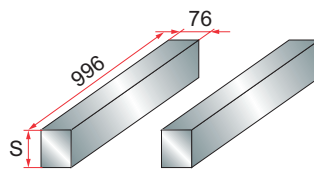
PS-P



PS-P	
S	56
	76

mat.: 1.1730

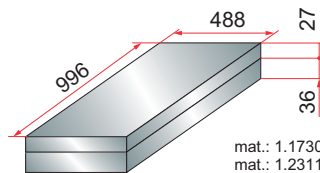
ESP-P



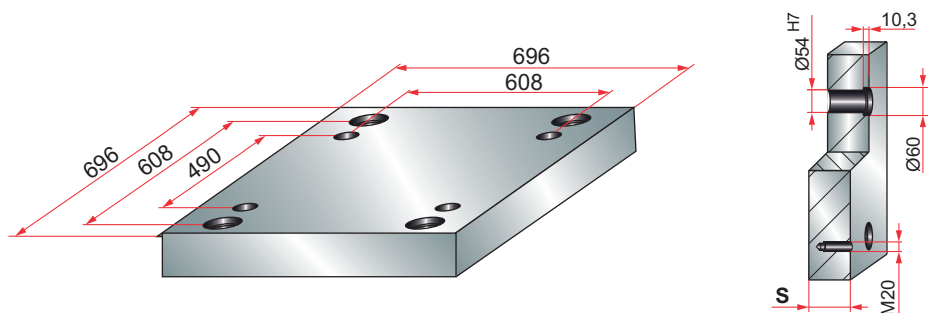
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

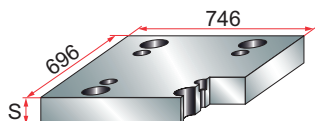
CPE-P



mat.: 1.1730
mat.: 1.2311



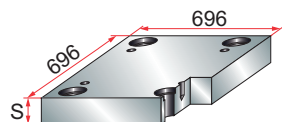
PBA-EU



PBA-EU	
S	46

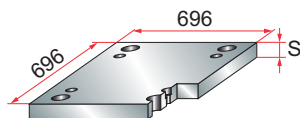
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

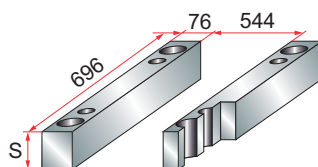
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

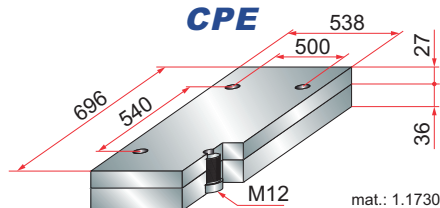
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

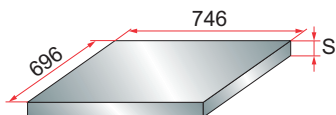
CPE



mat.: 1.1730

P PLATES

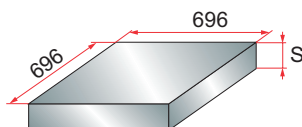
PBA-P



PBA-P	
S	46

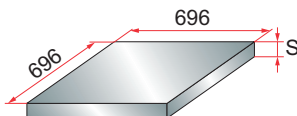
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
	196	*	*

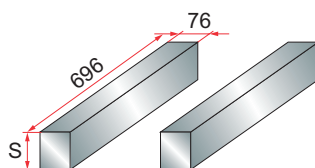
PS-P



PS-P	
S	56
	76

mat.: 1.1730

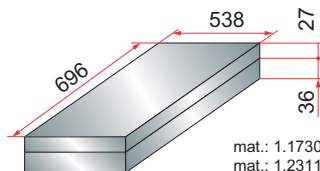
ESP-P



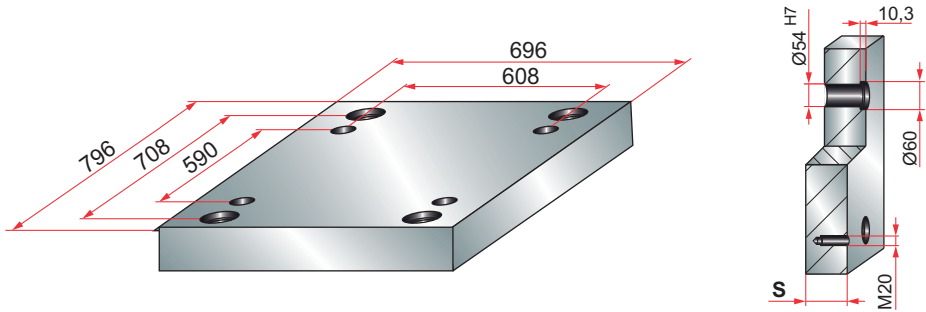
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

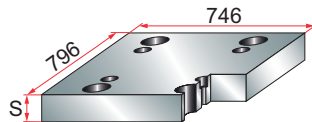
CPE-P



mat.: 1.1730
mat.: 1.2311



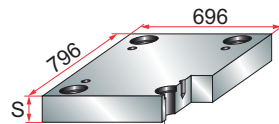
PBA-EU



PBA-EU	
S	46

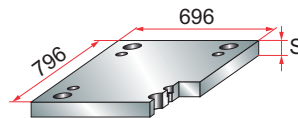
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

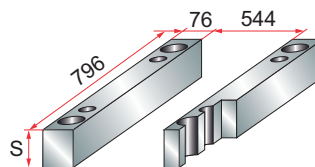
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

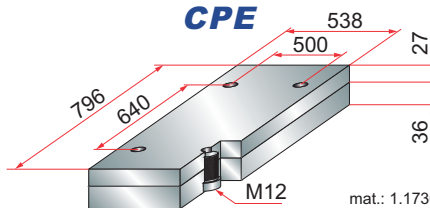
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

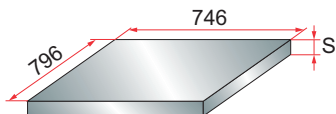
CPE



mat.: 1.1730

P PLATES

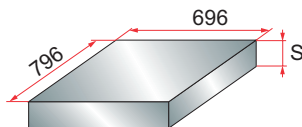
PBA-P



PBA-P	
S	46

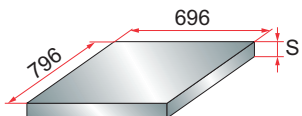
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

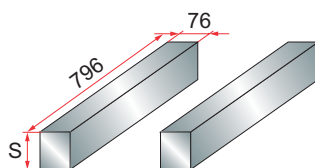
PS-P



PS-P	
S	56
	76

mat.: 1.1730

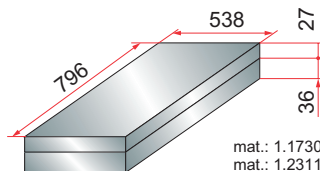
ESP-P



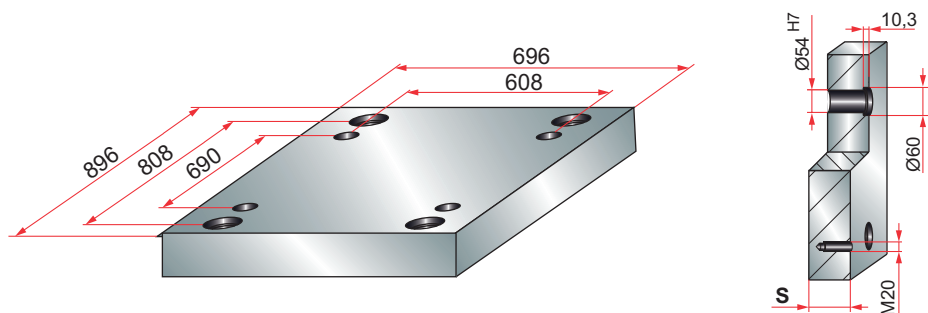
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

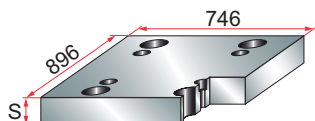
CPE-P



mat.: 1.1730
mat.: 1.2311



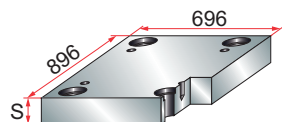
PBA-EU



PBA-EU	
S	46

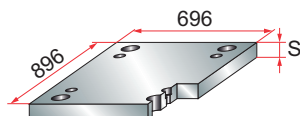
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

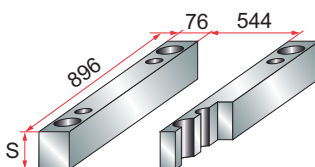
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

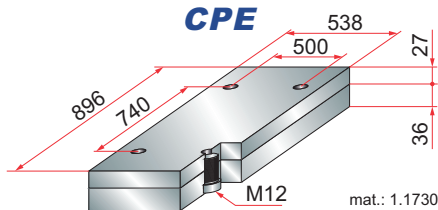
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

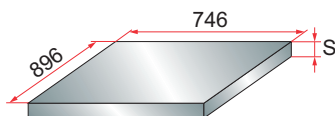
CPE



mat.: 1.1730

P PLATES

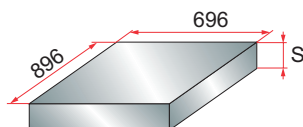
PBA-P



PBA-P	
S	46

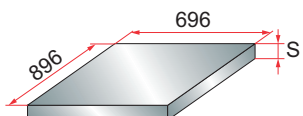
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

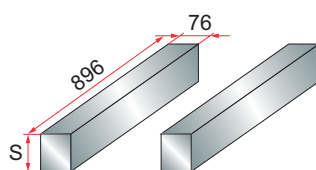
PS-P



PS-P	
S	56
	76

mat.: 1.1730

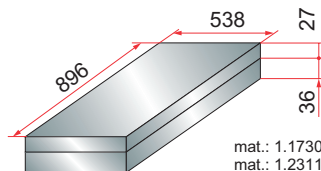
ESP-P



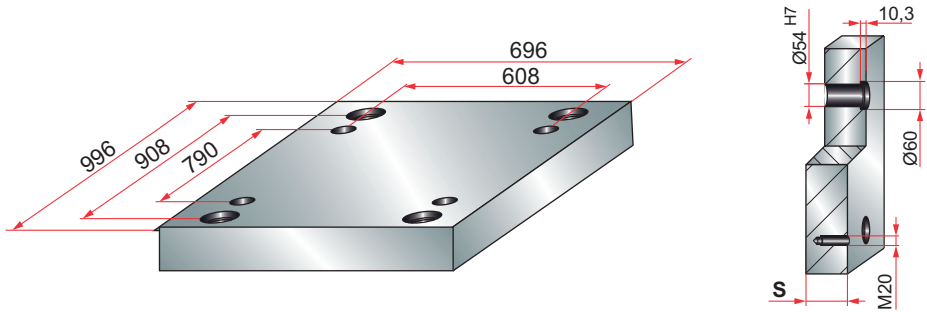
ESP-P	
S	86
	96
	116
	136
	176

mat.: 1.1730

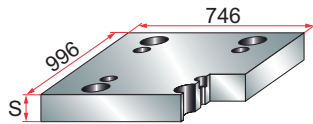
CPE-P



mat.: 1.1730
mat.: 1.2311



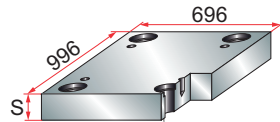
PBA-EU



PBA-EU	
S	46

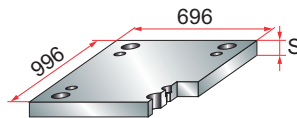
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

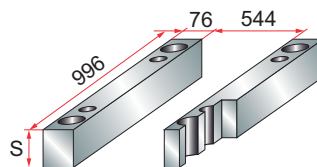
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

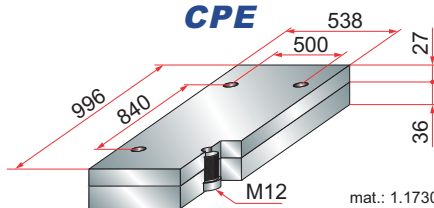
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

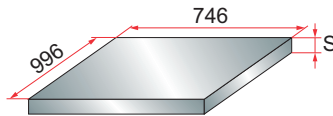
mat.: 1.1730

CPE



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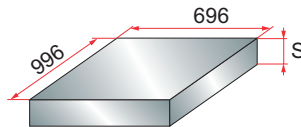
PBA-P



PBA-P	
S	46

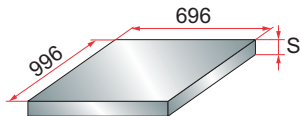
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
	196	*	*

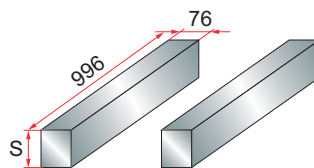
PS-P



PS-P	
S	56
	76

mat.: 1.1730

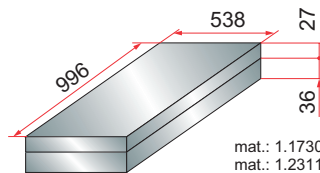
ESP-P



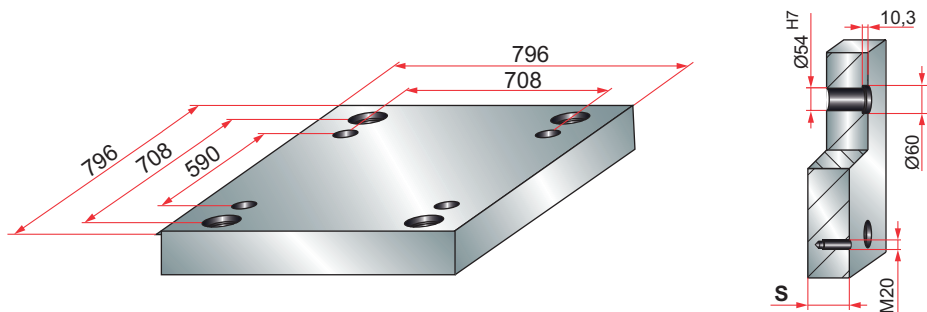
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

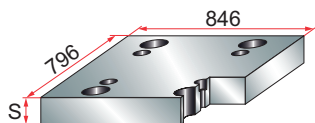
CPE-P



mat.: 1.1730
mat.: 1.2311



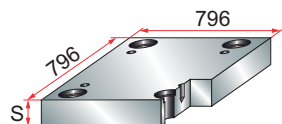
PBA-EU



PBA-EU	
S	46

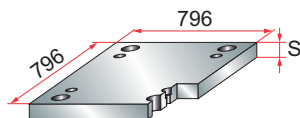
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

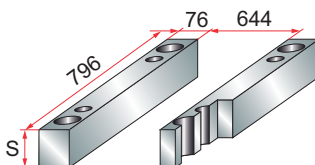
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

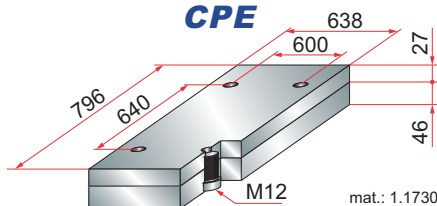
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

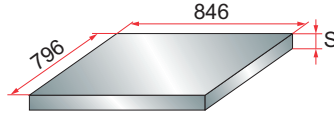
CPE



mat.: 1.1730

P PLATES

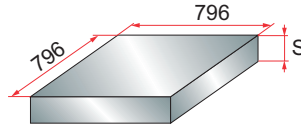
PBA-P



PBA-P	
S	46

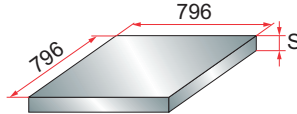
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

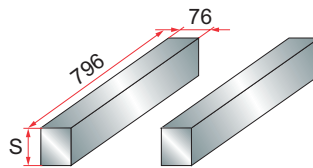
PS-P



PS-P	
S	56
	76

mat.: 1.1730

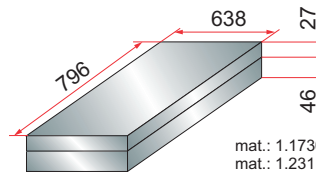
ESP-P



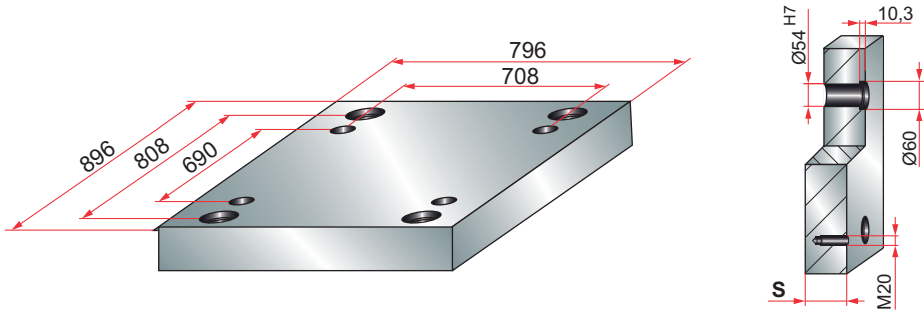
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

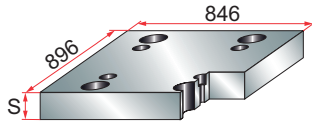
CPE-P



mat.: 1.1730
mat.: 1.2311



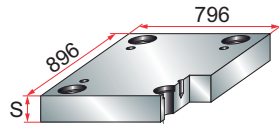
PBA-EU



PBA-EU	
S	46

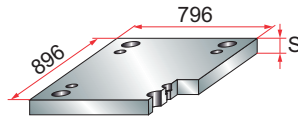
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
86	*	*
96	*	*
116	*	*
136	*	*
156	*	*
176	*	*
196	*	*

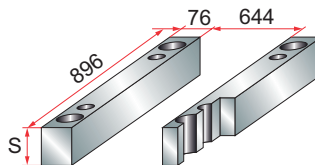
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

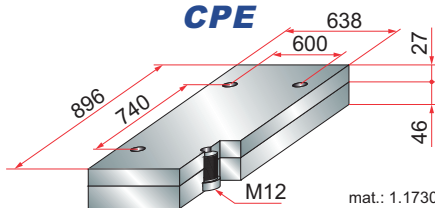
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

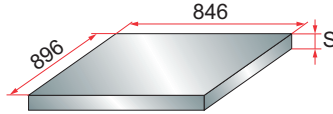
CPE



mat.: 1.1730

P PLATES

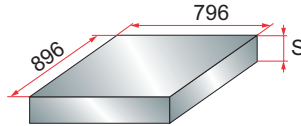
PBA-P



PBA-P	
S	46

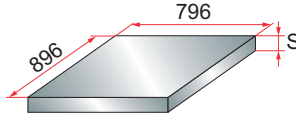
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
	196	*	*

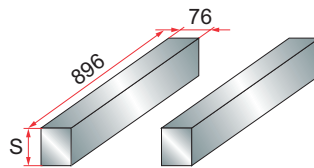
PS-P



PS-P	
S	56
	76

mat.: 1.1730

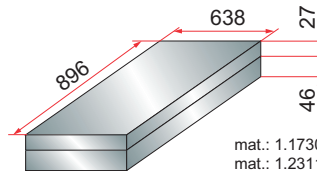
ESP-P



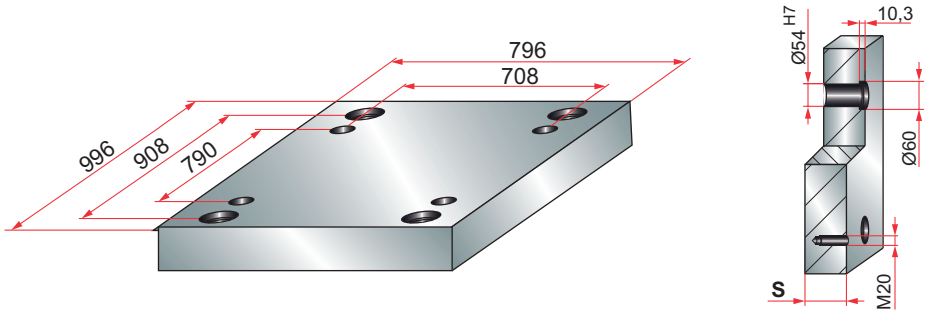
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

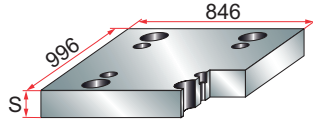
CPE-P



mat.: 1.1730
mat.: 1.2311



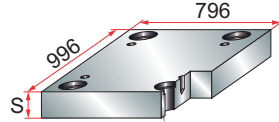
PBA-EU



PBA-EU	
S	46

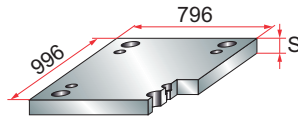
mat.: 1.1730

PC



S		Material	
		1.1730	1.2311
46	*	*	*
56	*	*	*
66	*	*	*
76	*	*	*
86	*	*	*
96	*	*	*
116	*	*	*
136	*	*	*
156	*	*	*
176	*	*	*
196	*	*	*

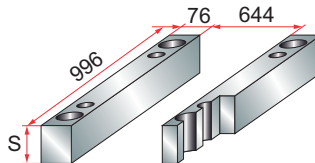
PS-EU



PS-EU	
S	56
	76

mat.: 1.1730

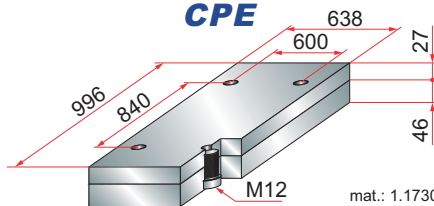
ESP-EU



ESP-EU	
S	86
	96
	116
	136
	156
	176

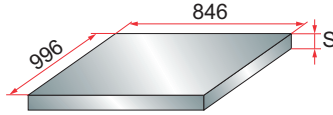
mat.: 1.1730

CPE



P PLATES

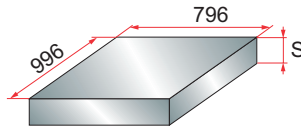
PBA-P



PBA-P	
S	46

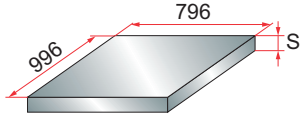
mat.: 1.1730

PC-P



		Material	
		1.1730	1.2311
S	46	*	*
	56	*	*
	66	*	*
	76	*	*
	86	*	*
	96	*	*
	116	*	*
	136	*	*
	156	*	*
	176	*	*
196	*	*	

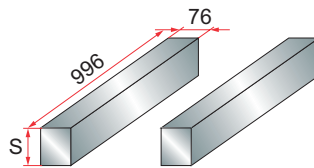
PS-P



PS-P	
S	56
	76

mat.: 1.1730

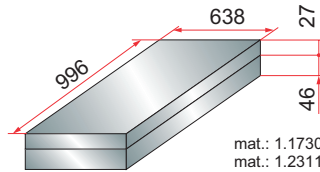
ESP-P



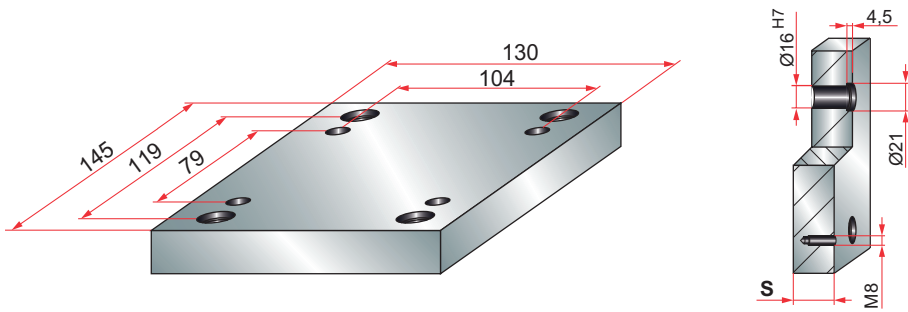
ESP-P	
S	86
	96
	116
	136
	156
	176

mat.: 1.1730

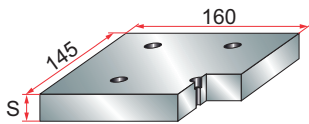
CPE-P



mat.: 1.1730
mat.: 1.2311



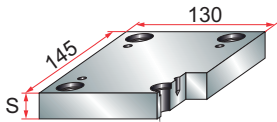
PBA



PBA	
S	18
	27

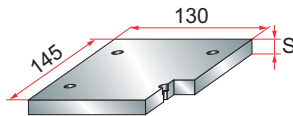
mat.: 1.1730

PC



Material			
		1.1730	1.2311
S	22	*	*
	27	*	*
	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	96	*	*

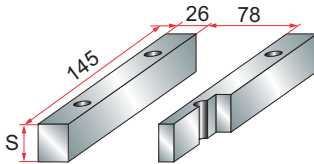
PS



PS	
S	18
	27

mat.: 1.1730

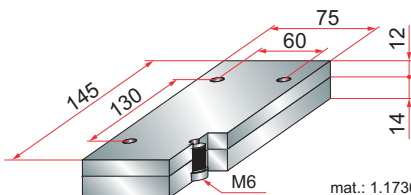
ESP



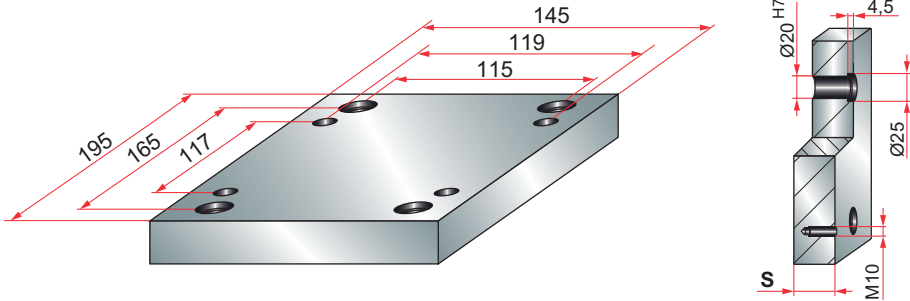
ESP	
S	50
	60
	70

mat.: 1.1730

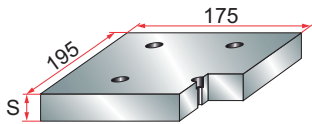
CPE



mat.: 1.1730



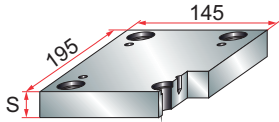
PBA



	PBA
S	22
	27

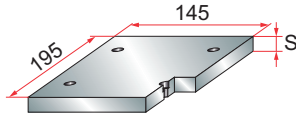
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	22	*	*
	27	*	*
	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*

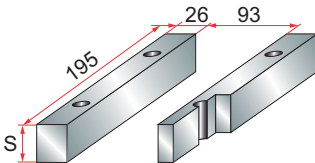
PS



	PS
S	22
	27

mat.: 1.1730

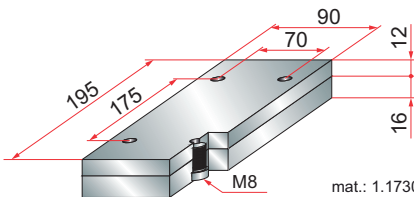
ESP



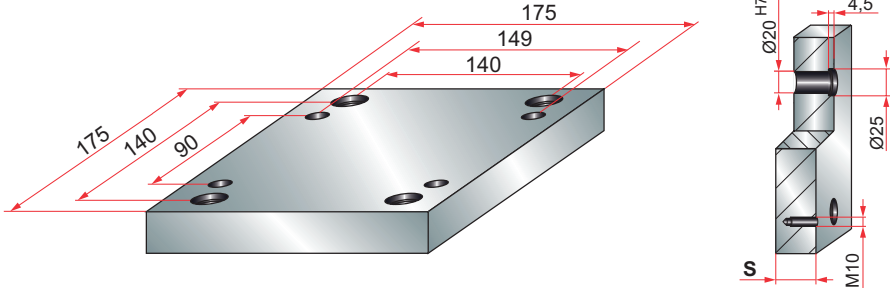
	ESP
S	50
	60
	70

mat.: 1.1730

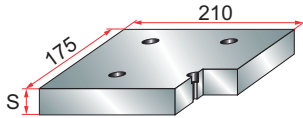
CPE



mat.: 1.1730



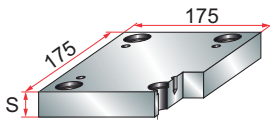
PBA



PBA	
S	22
	27

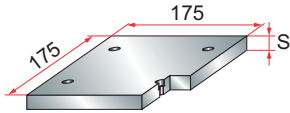
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	22	*	*
	27	*	*
	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	96	*	*

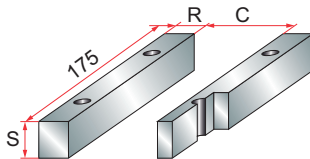
PS



PS	
S	22
	27

mat.: 1.1730

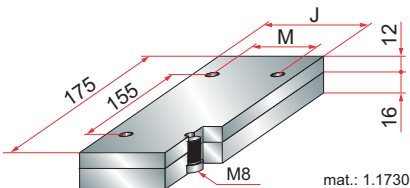
ESP



		ESP	
		1.1730	1.2311
R	26	36	
	50	50	
S	70	70	
	90	90	
	123	103	

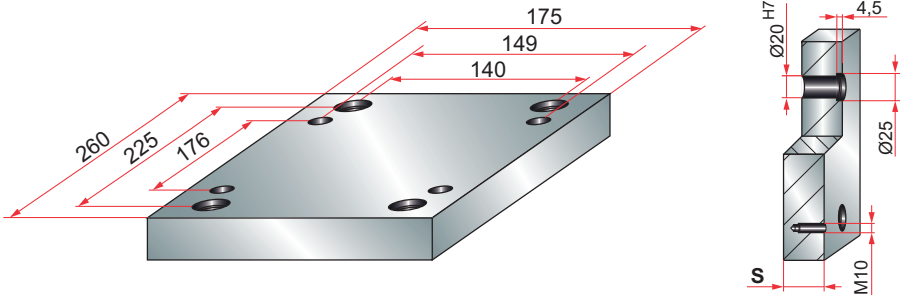
mat.: 1.1730

CPE

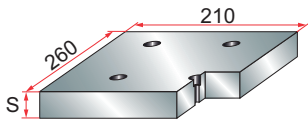


J	120	100
M	100	80

mat.: 1.1730



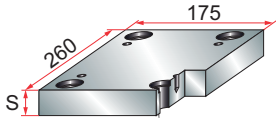
PBA



PBA	
S	22 32

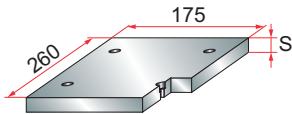
mat.: 1.1730

PC



			Material	
			1.1730	1.2311
S	22	*	*	*
	27	*	*	*
	36	*	*	*
	46	*	*	*
	56	*	*	*
	66	*	*	*
	76	*	*	*
96	*	*	*	

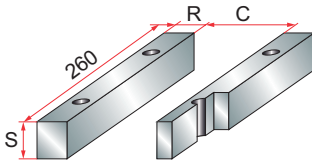
PS



PS	
S	22 32

mat.: 1.1730

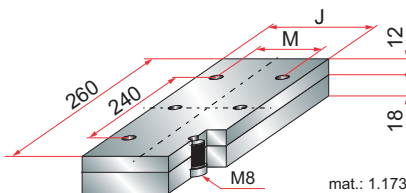
ESP



ESP		
R	26	36
	50	50
S	70	70
	90	90
	123	103

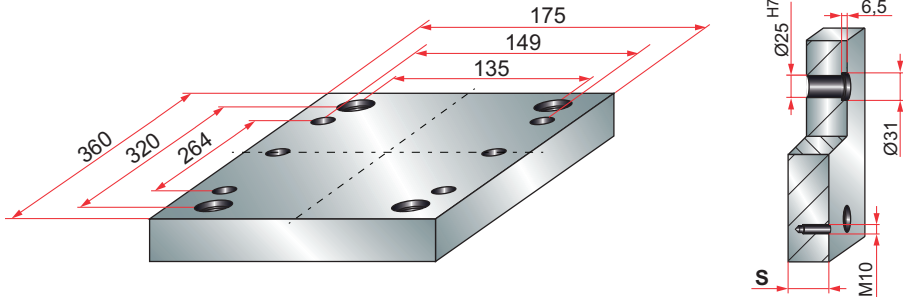
mat.: 1.1730

CPE

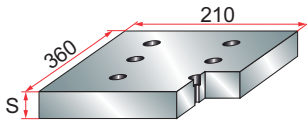


J	122	102
M	105	85

mat.: 1.1730



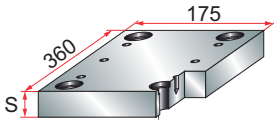
PBA



PBA	
S	22 32

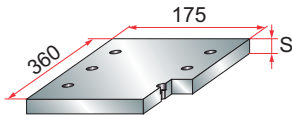
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	22	*	*
	27	*	*
	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	96	*	*

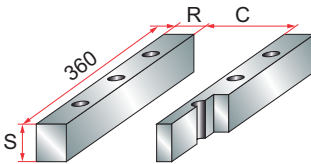
PS



PS	
S	22 32

mat.: 1.1730

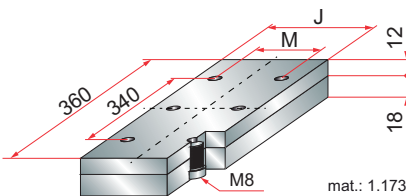
ESP



ESP		
R	26	36
S	60	60
	70	70
	90	90
C	123	103

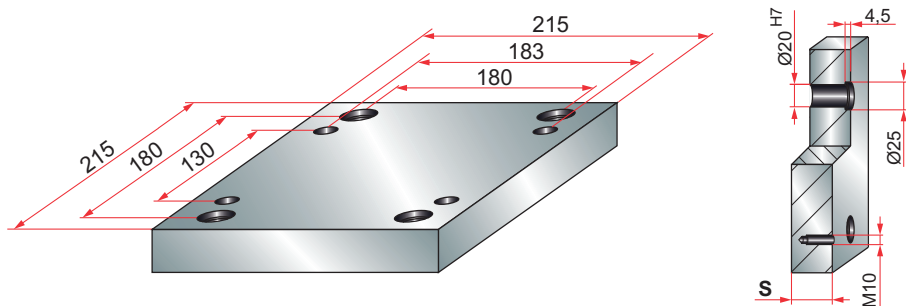
mat.: 1.1730

CPE

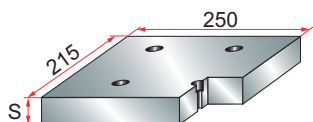


J	122	102
M	105	85

mat.: 1.1730



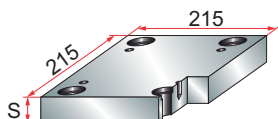
PBA



PBA	
S	22
	32

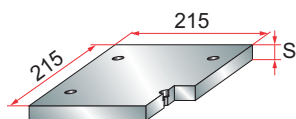
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	22	*	*
	27	*	*
	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
96	*	*	

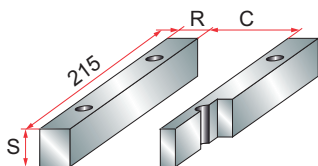
PS



PS	
S	22
	32

mat.: 1.1730

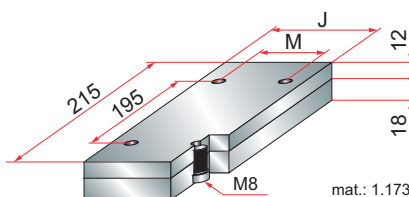
ESP



		ESP	
		R	C
S	32	42	
	50	50	
	70	70	
	90	90	
C	151	131	

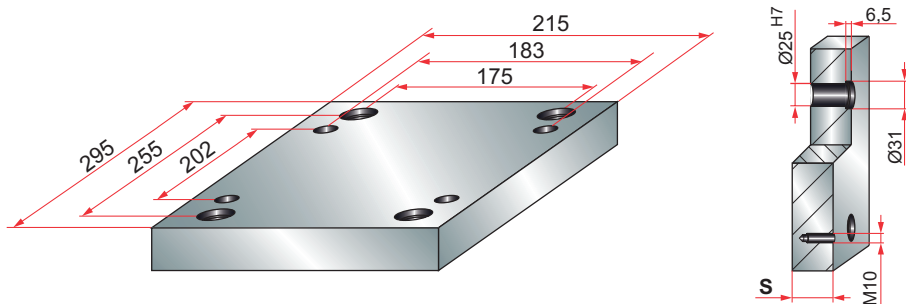
mat.: 1.1730

CPE

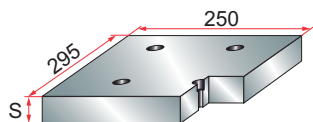


J	148	128
M	128	108

mat.: 1.1730



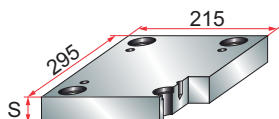
PBA



PBA	
S	22
	32

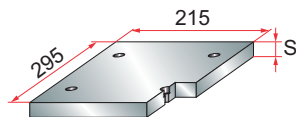
mat.: 1.1730

PC



		Material	
		1.1730	1.2311
S	22	*	*
	27	*	*
	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	96	*	*

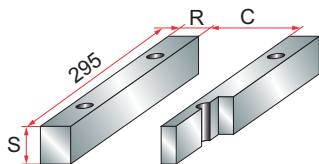
PS



PS	
S	22
	32

mat.: 1.1730

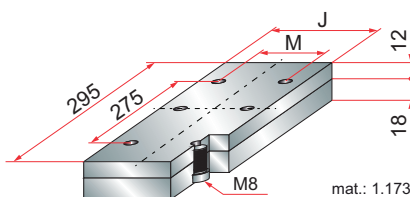
ESP



ESP		
R	32	42
S	60	60
	70	70
	90	90
C	151	131

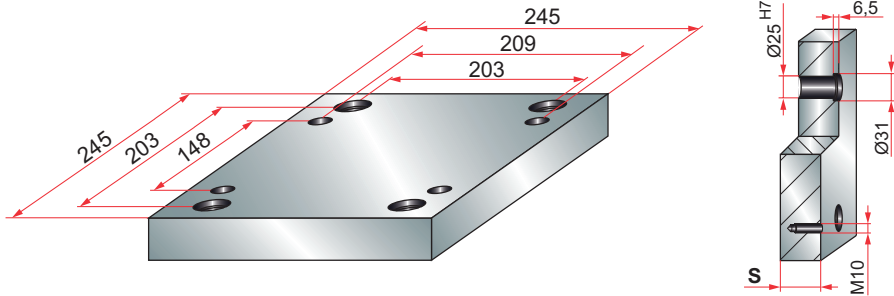
mat.: 1.1730

CPE

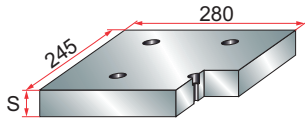


J	148	128
M	128	108

mat.: 1.1730



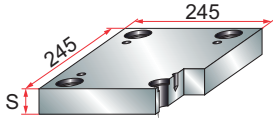
PBA



PBA	
S	22 32

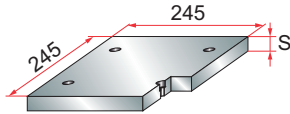
mat.: 1.1730

PC



Material			
		1.1730	1.2311
S	27	*	*
	36	*	*
	46	*	*
	56	*	*
	66	*	*
	76	*	*
	96	*	*
116	*	*	

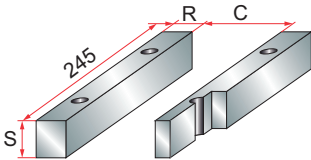
PS



PS	
S	22 32

mat.: 1.1730

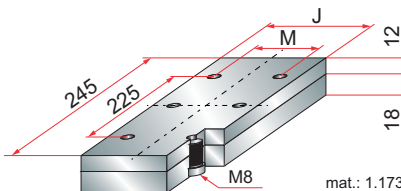
ESP



ESP		
R	36	46
S	60	60
	70	70
	90	90
C	173	153

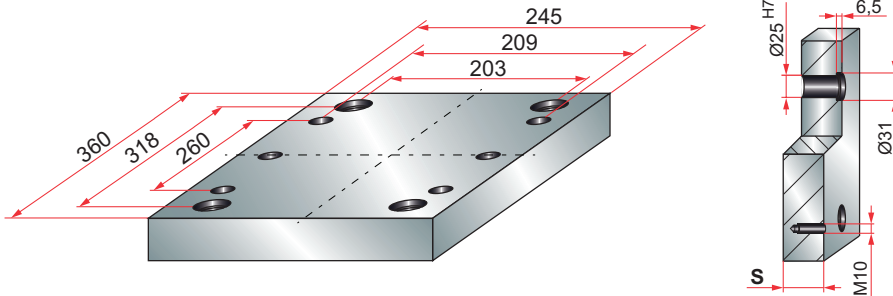
mat.: 1.1730

CPE

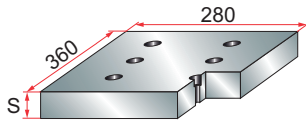


J	170	150
M	150	130

mat.: 1.1730



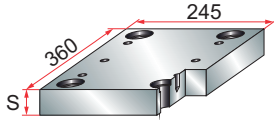
PBA



PBA	
S	22 32

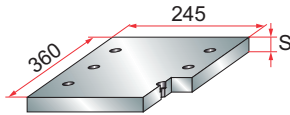
mat.: 1.1730

PC



			Material	
			1.1730	1.2311
S	27	*	*	*
	36	*	*	*
	46	*	*	*
	56	*	*	*
	66	*	*	*
	76	*	*	*
	96	*	*	*
	116	*	*	*

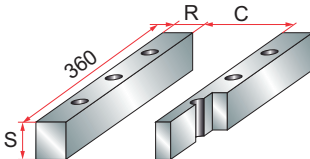
PS



PS	
S	22 32

mat.: 1.1730

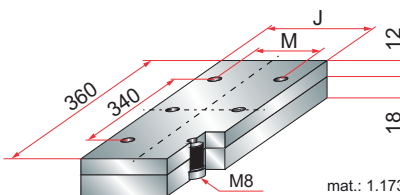
ESP



ESP		
R	36	46
S	60	60
	70	70
	90	90
C	173	153

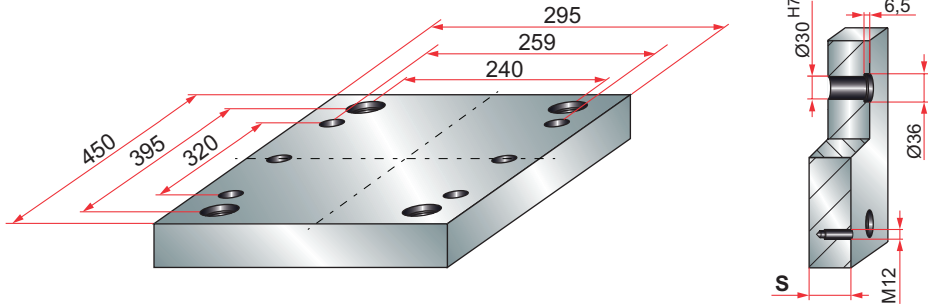
mat.: 1.1730

CPE

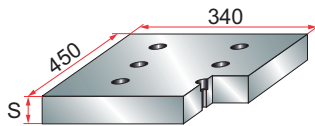


J	170	150
M	150	130

mat.: 1.1730



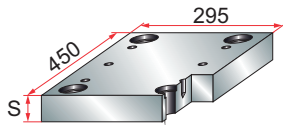
PBA



PBA	
S	27
	42

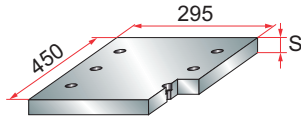
mat.: 1.1730

PC



Material		
	1.1730	1.2311
S	27	*
	36	*
	46	*
	56	*
	66	*
	76	*
	96	*
116	*	

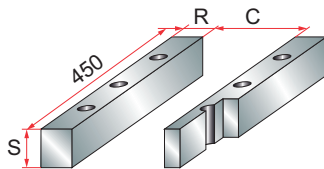
PS



PS	
S	27
	42

mat.: 1.1730

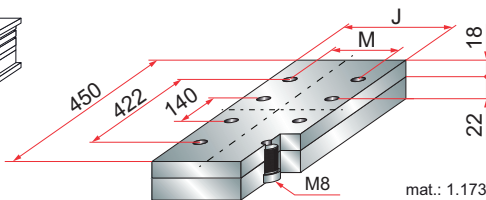
ESP



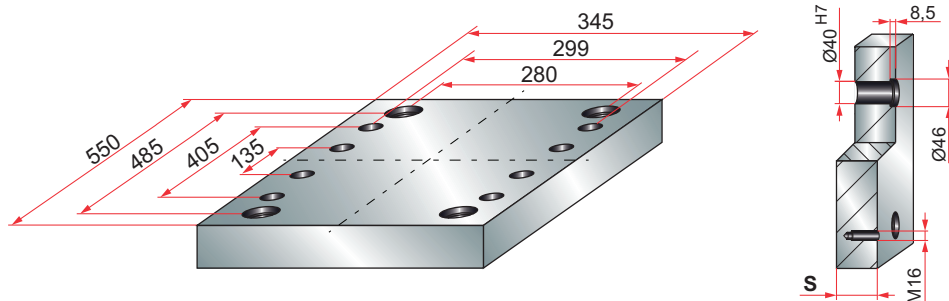
ESP		
R	36	48
S	70	70
	90	90
	110	110
C	223	199

mat.: 1.1730

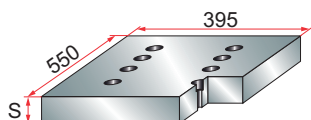
CPE



J	220	196
M	192	168



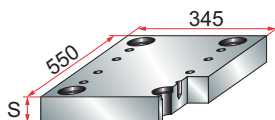
PBA



PBA	
S	32
	42

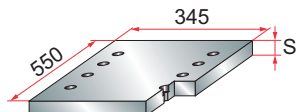
mat.: 1.1730

PC



S	Material	
	1.1730	1.2311
36	*	*
46	*	*
56	*	*
66	*	*
76	*	*
96	*	*
116	*	*

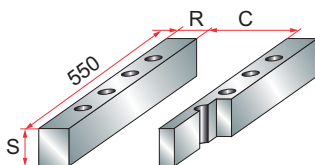
PS



PS	
S	32
	42

mat.: 1.1730

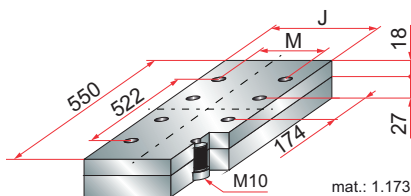
ESP



ESP		
R	46	66
S	70	70
	90	90
	110	110
C	253	213

mat.: 1.1730

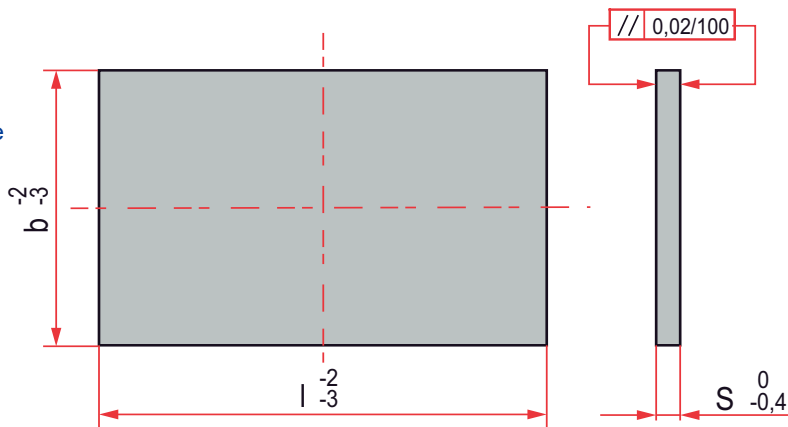
CPE



J	248	208
M	220	180

mat.: 1.1730

Thermal insulation board
 Placa aislante
 Płyta termoizolacyjna
 Placa isolante
 Plaque d'isolation calorifuge

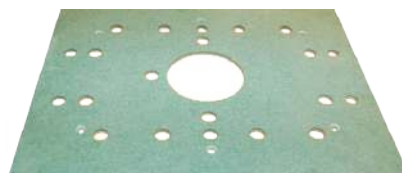


$\lambda = 0,28$ $P = 330$ N/mm² T máx.=240°C

b	l	S	REF.	
206	156	6	BR1011/6x156x206	
	196		BR1011/6x196x206	
196	246	6	BR1011/6x196x246	
254			BR1011/6x254x246	
246	196	6	BR1011/6x196x246	
			296	BR1011/6x246x296
			346	BR1011/6x246x346
			396	BR1011/6x246x396
296	246	6	BR1011/6x296x246	
			296	BR1011/6x296x296
			346	BR1011/6x296x346
			396	BR1011/6x296x396
			446	BR1011/6x296x446
346	296	6	BR1011/6x346x296	
			8	BR1011/8x346x296
	346	6	BR1011/6x346x346	
			8	BR1011/8x346x346
	396	6	BR1011/6x346x396	
			8	BR1011/8x346x396
	446	6	BR1011/6x346x446	
			8	BR1011/8x346x446

b	l	S	REF.	
396	346	6	BR1011/6x396x346	
		8	BR1011/8x396x346	
	396	6	BR1011/8x396x396	
			BR1011/8x396x396	
			446	BR1011/8x396x446
			496	BR1011/8x396x496
446	396	546	BR1011/8x396x546	
		596	BR1011/8x396x596	
		6	BR1011/6x446x396	
496	546	8	BR1011/8x446x396	
			446	BR1011/8x446x446
			496	BR1011/8x446x496
			546	BR1011/8x496x546
546	446	8	BR1011/8x496x596	
			596	BR1011/8x546x446
596	496	8	BR1011/8x546x496	
			596	BR1011/8x596x496
696	596	8	BR1011/8x596x596	
			696	BR1011/8x596x696
696	596	8	BR1011/8x696x596	

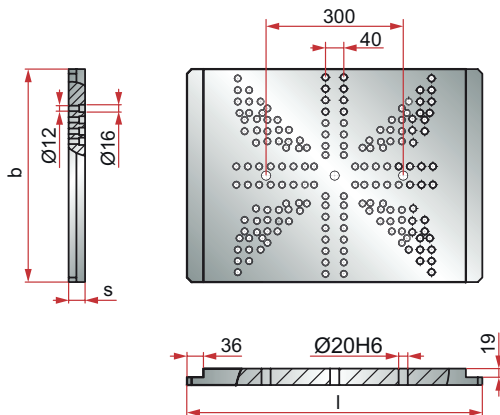
- Machining under drawing available upon request
- Mecanizados especiales según plano cliente
- Obróbka płyt możliwa na specjalne zamówienie
- Usinagem especial de acordo com o plano do cliente
- Usinage spécial selon dessin du client



BRCP01



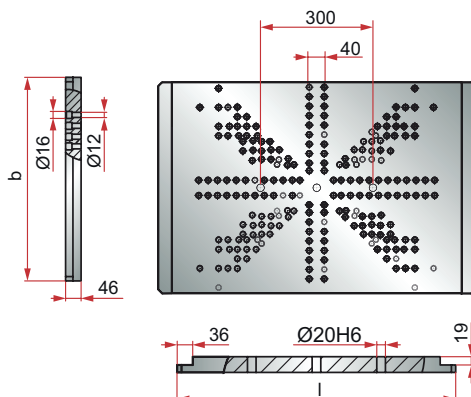
Clamping plate
Placa de fijación
System mocujący
Placa base
Plaque debordante



b	l	s	REF.
466	646	36	BRCP01

Mould Sizes	Mould Sizes
156x156	296x346
156x196	296x396
156x246	296x446
196x196	346x346
190x246	346x396
196x296	346x446
196x346	346x496
196x396	396x396
246x246	396x446
246x296	396x496
246x396	446x446
246x396	446x496
246x446	496x496
296x296	-

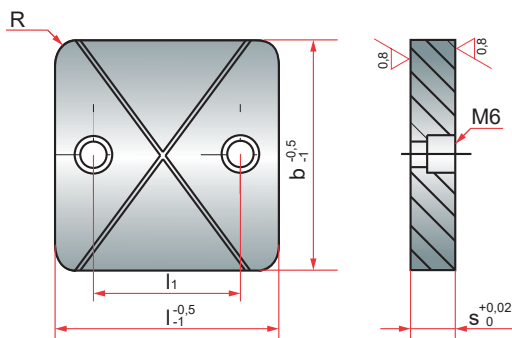
Clamping plate
 Placa de fijación
 System mocujący
 Placa base
 Plaque débordante



b	l	s	REF.
556	800	46	BRCP02

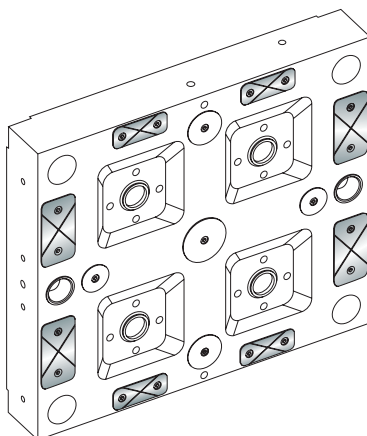
Mould Sizes	Mould Sizes
156x156	346x396
156x196	346x446
156x246	346x496
196x196	346x546
190x246	346x596
196x296	396x396
196x346	396x446
196x396	396x496
246x246	396x546
246x296	396x596
246x396	446x446
246x396	446x496
246x446	496x496
296x296	496x546
296x346	496x596
296x396	496x696
296x446	596x596
346x346	-

Rectangular shim
 Placa de presión
 Podkładka regulacyjna prostokątna
 Chapa de pressão rectangular
 Plaquette d'ajustage rectangulaire

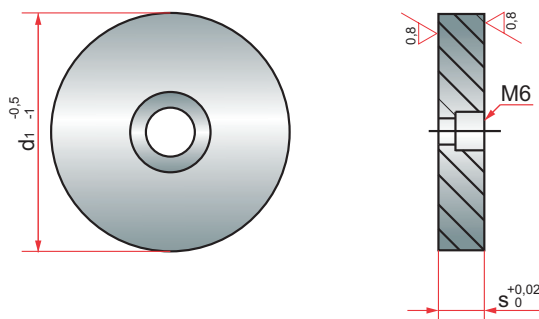


Mat. : 12842 ≈ 58 HRC.

R	M	s	l1	b	l	REF.
8	M6	10,1	24	32	40	BR2680/32x040
			40		64	BR2680/32x064
			32	40	50	BR2680/40x050
			52		80	BR2680/40x080
			40	50	64	BR2680/50x064
			64		100	BR2680/50x100
			52	64	80	BR2680/64x080
			80		125	BR2680/64x125

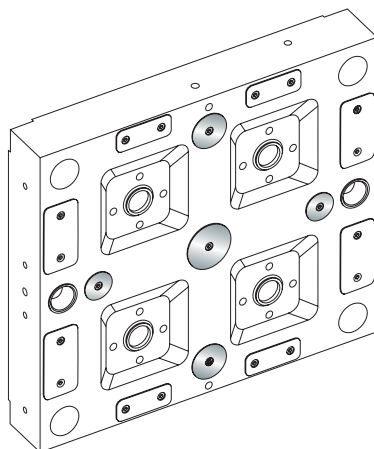


Circular shim
 Arandela de presión
 Podkładka regulacyjna okrągła
 Arruela de pressão
 Plaquette d'ajustage circulaire



Mat. : 12842 ≈ 58 HRC.

M	s	d□	REF.
M6	10,1	32	BR/2682/32
		40	BR/2682/40
		50	BR/2682/50
		64	BR/2682/64



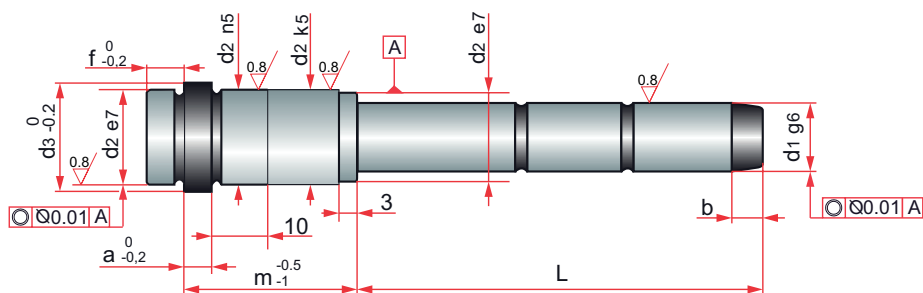
Guide pillar with centering collar BR00

Guía con centrador BR00

Słup prowadzący

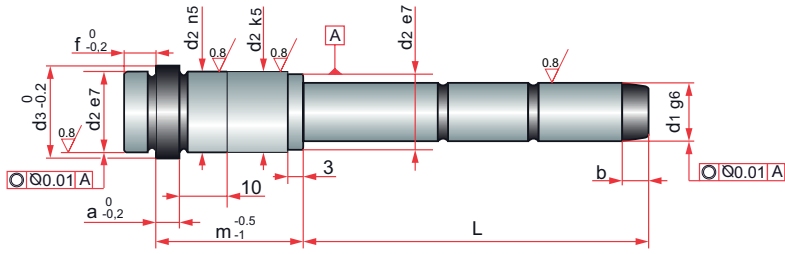
Guia principal com centrador BR00

Colonne de guidage epaulée avec plot de centrage BR00

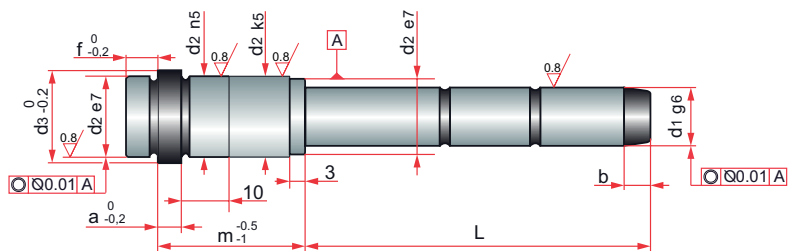


Hardness: 58 ± 2 HRC.

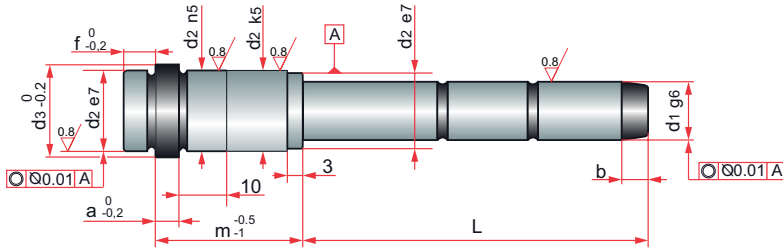
a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.
3	4	3	16	14	10	12	25	BR00/10x012x025	-	-
							35	BR00/10x012x035		
							55	BR00/10x012x055		
						17	25	BR00/10x017x025		
							35	BR00/10x017x035		
							55	BR00/10x017x055		
						22	25	BR00/10x022x025		
							35	BR00/10x022x035		
							55	BR00/10x022x055		
						27	25	BR00/10x027x025		
							35	BR00/10x027x035		
							55	BR00/10x027x055		
							75	BR00/10x027x075		
						36	25	BR00/10x036x025		
							35	BR00/10x036x035		
							55	BR00/10x036x055		
75	BR00/10x036x075									
46	35	BR00/10x046x035								
	55	BR00/10x046x055								
	75	BR00/10x046x075								
56	35	BR00/10x056x035								
	55	BR00/10x056x055								
	75	BR00/10x056x075								
6	7	9	25	20	14	17	35	BR00/14x017x035	15	BR00/15x017x035
							55	BR00/14x017x055		BR00/15x017x055



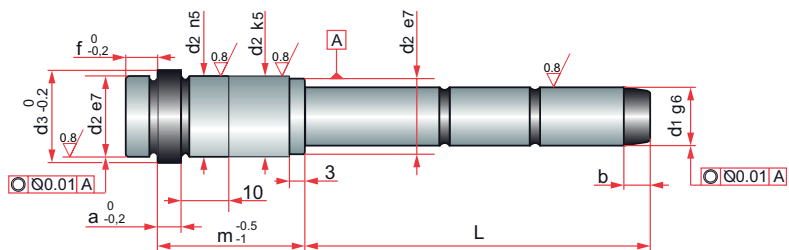
a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.	
6	7	9	25	20	14	17	75	BR00/14x017x075	15	BR00/15x017x075	
							95	BR00/14x017x095		BR00/15x017x095	
							22	30		BR00/14x022x030	BR00/15x022x030
								50		BR00/14x022x050	BR00/15x022x050
								70		BR00/14x022x070	BR00/15x022x070
								90		BR00/14x022x090	BR00/15x022x090
							115	BR00/14x022x115		BR00/15x022x115	
							125	BR00/14x022x125		BR00/15x022x125	
						155	BR00/14x022x155	BR00/15x022x155			
						27	30	BR00/14x027x030		BR00/15x027x030	
							45	BR00/14x027x045		BR00/15x027x045	
							65	BR00/14x027x065		BR00/15x027x065	
							85	BR00/14x027x085		BR00/15x027x085	
							105	BR00/14x027x105		BR00/15x027x105	
							125	BR00/14x027x125		BR00/15x027x125	
							145	BR00/14x027x145		BR00/15x027x145	
							165	BR00/14x027x165		BR00/15x027x165	
						36	35	BR00/14x036x035		BR00/15x036x035	
							45	BR00/14x036x045		BR00/15x036x045	
							55	BR00/14x036x055		BR00/15x036x055	
							65	BR00/14x036x065		BR00/15x036x065	
							75	BR00/14x036x075		BR00/15x036x075	
							95	BR00/14x036x095		BR00/15x036x095	
							125	BR00/14x036x125		BR00/15x036x125	
							155	BR00/14x036x155		BR00/15x036x155	
						46	35	BR00/14x046x035		BR00/15x046x035	
							45	BR00/14x046x045		BR00/15x046x045	
							65	BR00/14x046x065		BR00/15x046x065	
							85	BR00/14x046x085		BR00/15x046x085	
							105	BR00/14x046x105		BR00/15x046x105	
							125	BR00/14x046x125		BR00/15x046x125	
							145	BR00/14x046x145		BR00/15x046x145	



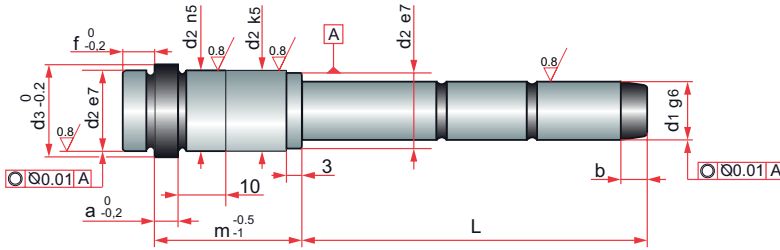
a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.		
6	7	9	25	20	14	56	35	BR00/14x056x035	15	BR00/15x056x035		
							55	BR00/14x056x055		BR00/15x056x055		
							75	BR00/14x056x075		BR00/15x056x075		
							95	BR00/14x056x095		BR00/15x056x095		
							135	BR00/14x056x135		BR00/15x056x135		
						66	55	BR00/14x066x055		BR00/15x066x055		
							65	BR00/14x066x065		BR00/15x066x065		
							95	BR00/14x066x095		BR00/15x066x095		
							125	BR00/14x066x125		BR00/15x066x125		
						76	55	BR00/14x076x055		BR00/15x076x055		
							95	BR00/14x076x095		BR00/15x076x095		
							105	BR00/14x076x105		BR00/15x076x105		
			86	55	BR00/14x086x055	BR00/15x086x055						
				75	BR00/14x086x075	BR00/15x086x075						
				95	BR00/14x086x095	BR00/15x086x095						
				115	BR00/14x086x115	BR00/15x086x115						
			96	55	BR00/14x096x055	BR00/15x096x055						
				95	BR00/14x096x095	BR00/15x096x095						
			31	26	18	22	18	22	35	BR00/18x022x035	20	BR00/20x022x035
									45	BR00/18x022x045		BR00/20x022x045
									65	BR00/18x022x065		BR00/20x022x065
									85	BR00/18x022x085		BR00/20x022x085
									115	BR00/18x022x115		BR00/20x022x115
						27	35	BR00/18x027x035	BR00/20x027x035			
45	BR00/18x027x045	BR00/20x027x045										
65	BR00/18x027x065	BR00/20x027x065										
75	BR00/18x027x075	BR00/20x027x075										
85	BR00/18x027x085	BR00/20x027x085										
105	BR00/18x027x105	BR00/20x027x105										
36	35	18x036x035	BR00/20x036x035									



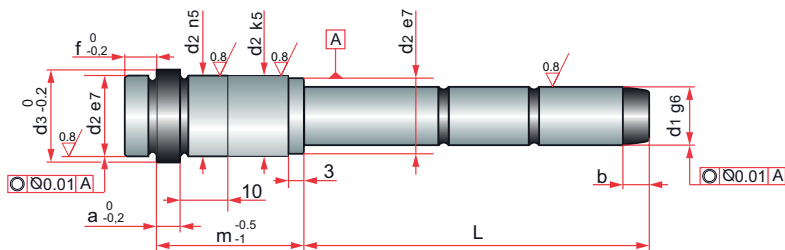
a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.
6	7	9	31	26	18	36	45	BR00/18x036x045	20	BR00/20x036x045
							55	BR00/18x036x055		BR00/20x036x055
							65	BR00/18x036x065		BR00/20x036x065
							75	BR00/18x036x075		BR00/20x036x075
							95	BR00/18x036x095		BR00/20x036x095
							115	BR00/18x036x115		BR00/20x036x115
						46	35	BR00/18x046x035		BR00/20x046x035
							45	BR00/18x046x045		BR00/20x046x045
							65	BR00/18x046x065		BR00/20x046x065
							85	BR00/18x046x085		BR00/20x046x085
							105	BR00/18x046x105		BR00/20x046x105
							135	BR00/18x046x135		BR00/20x046x135
						56	35	BR00/18x056x035		BR00/20x056x035
							55	BR00/18x056x055		BR00/20x056x055
							75	BR00/18x056x075		BR00/20x056x075
							85	BR00/18x056x085		BR00/20x056x085
							95	BR00/18x056x095		BR00/20x056x095
							155	BR00/18x056x155		BR00/20x056x155
						66	35	BR00/18x066x035		BR00/20x066x035
							55	BR00/18x066x055		BR00/20x066x055
							75	BR00/18x066x075		BR00/20x066x075
							95	BR00/18x066x095		BR00/20x066x095
							145	BR00/18x066x145		BR00/20x066x145
						76	55	BR00/18x076x055		BR00/20x076x055
							75	BR00/18x076x075		BR00/20x076x075
							95	BR00/18x076x095		BR00/20x076x095
							135	BR00/18x076x135		BR00/20x076x135
						86	55	BR00/18x086x055		BR00/20x086x055
							75	BR00/18x086x075		BR00/20x086x075
							95	BR00/18x086x095		BR00/20x086x095
							115	BR00/18x086x115		BR00/20x086x115



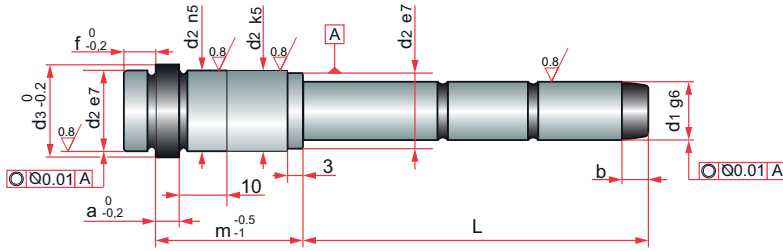
a	b	f	d_3	d_2	d_1	m	L	REF.	d_1	REF.
6	7	9	31	26	18	86	155	BR00/18x086x155	20	BR00/20x086x155
							55	BR00/18x096x055		BR00/20x096x055
							95	BR00/18x096x095		BR00/20x096x095
							75	BR00/18x116x075		BR00/20x116x075
							115	BR00/18x116x115		BR00/20x116x115
35	30	22	22	35	22	35	BR00/22x022x035	24	BR00/24x022x035	
					55	BR00/22x022x055	BR00/24x022x055			
					75	BR00/22x022x075	BR00/24x022x075			
					105	BR00/22x022x105	BR00/24x022x105			
					130	BR00/22x022x130	BR00/24x022x130			
					27	35	BR00/22x027x035		BR00/24x027x035	
						45	BR00/22x027x045		BR00/24x027x045	
						65	BR00/22x027x065		BR00/24x027x065	
						85	BR00/22x027x085		BR00/24x027x085	
						105	BR00/22x027x105		BR00/24x027x105	
			36	125	BR00/22x027x125	BR00/24x027x125				
				165	BR00/22x027x165	BR00/24x027x165				
				35	BR00/22x036x035	BR00/24x036x035				
				55	BR00/22x036x055	BR00/24x036x055				
				75	BR00/22x036x075	BR00/24x036x075				
			46	95	BR00/22x036x095	BR00/24x036x095				
				115	BR00/22x036x115	BR00/24x036x115				
				135	BR00/22x036x135	BR00/24x036x135				
				165	BR00/22x036x165	BR00/24x036x165				
				205	BR00/22x036x205	BR00/24x036x205				
35	30	22	46	35	35	BR00/22x046x035	BR00/24x046x035			
					45	BR00/22x046x045	BR00/24x046x045			
					65	BR00/22x046x065	BR00/24x046x065			
					85	BR00/22x046x085	BR00/24x046x085			
					105	BR00/22x046x105	BR00/24x046x105			
125	BR00/22x046x125	BR00/24x046x125								
165	BR00/22x046x165	BR00/24x046x165								



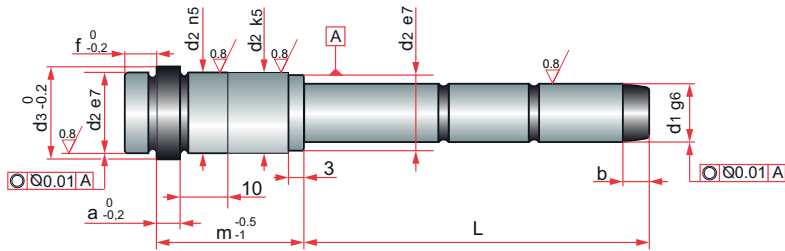
a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.	
6	7	9	35	30	22	46	205	BR00/22x046x205	24	BR00/24x046x205	
							56	35		BR00/22x056x035	BR00/24x056x035
								55		BR00/22x056x055	BR00/24x056x055
								75		BR00/22x056x075	BR00/24x056x075
								95		BR00/22x056x095	BR00/24x056x095
								115		BR00/22x056x115	BR00/24x056x115
								165		BR00/22x056x165	BR00/24x056x165
								205		BR00/22x056x205	BR00/24x056x205
						66		35		BR00/22x066x035	BR00/24x066x035
							55	BR00/22x066x055		BR00/24x066x055	
							75	BR00/22x066x075		BR00/24x066x075	
							95	BR00/22x066x095		BR00/24x066x095	
							155	BR00/22x066x155		BR00/24x066x155	
							205	BR00/22x066x205		BR00/24x066x205	
						76	55	BR00/22x076x055		BR00/24x076x055	
							75	BR00/22x076x075		BR00/24x076x075	
							95	BR00/22x076x095		BR00/24x076x095	
							115	BR00/22x076x115		BR00/24x076x115	
							145	BR00/22x076x145		BR00/24x076x145	
							165	BR00/22x076x165		BR00/24x076x165	
							205	BR00/22x076x205		BR00/24x076x205	
						86	55	BR00/22x086x055		BR00/24x086x055	
							75	BR00/22x086x075		BR00/24x086x075	
							95	BR00/22x086x095		BR00/24x086x095	
							115	BR00/22x086x115		BR00/24x086x115	
							155	BR00/22x086x155		BR00/24x086x155	
							205	BR00/22x086x205		BR00/24x086x205	
						96	55	BR00/22x096x055		BR00/24x096x055	
							75	BR00/22x096x075		BR00/24x096x075	
							95	BR00/22x096x095		BR00/24x096x095	
							125	BR00/22x096x125		BR00/24x096x125	
							155	BR00/22x096x155		BR00/24x096x155	



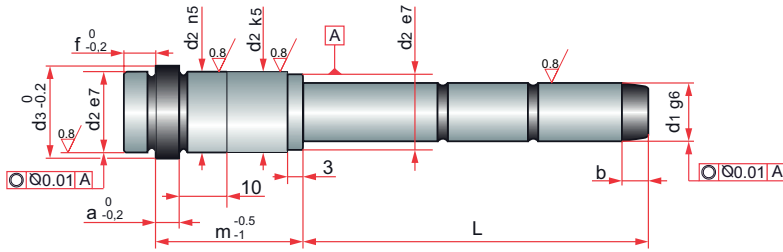
a	b	f	d_3	d_2	d_1	m	L	REF.	d_1	REF.				
6	7	9	35	30	22	96	205	BR00/22x096x205	24	BR00/24x096x205				
							116	75		BR00/22x116x075	BR00/24x116x075			
								115		BR00/22x116x115	BR00/24x116x115			
								155		BR00/22x116x155	BR00/24x116x155			
								205		BR00/22x116x205	BR00/24x116x205			
						136	95	BR00/22x136x095		BR00/24x136x095				
							135	BR00/22x136x135		BR00/24x136x135				
							155	BR00/22x136x155		BR00/24x136x155				
							205	BR00/22x136x205		BR00/24x136x205				
								47		42	30	27	45	BR00/30x027x045
						65	BR00/30x027x065						BR00/32x027x065	
						105	BR00/30x027x105						BR00/32x027x105	
			36	55	BR00/30x036x055	BR00/32x036x055								
				75	BR00/30x036x075	BR00/32x036x075								
				95	BR00/30x036x095	BR00/32x036x095								
			46	115	BR00/30x036x115	BR00/32x036x115								
				46	45	BR00/30x046x045	BR00/32x046x045							
					55	BR00/30x046x055	BR00/32x046x055							
					65	BR00/30x046x065	BR00/32x046x065							
					85	BR00/30x046x085	BR00/32x046x085							
			105	BR00/30x046x105	BR00/32x046x105									
			56	55	BR00/30x056x055	BR00/32x056x055								
				75	BR00/30x056x075	BR00/32x056x075								
				95	BR00/30x056x095	BR00/32x056x095								
115	BR00/30x056x115	BR00/32x056x115												
135	BR00/30x056x135	BR00/32x056x135												
66	205	BR00/30x056x205	BR00/32x056x205											
	55	BR00/30x066x055	BR00/32x066x055											
	66	75	BR00/30x066x075	BR00/32x066x075										
		95	BR00/30x066x095	BR00/32x066x095										
		115	BR00/30x066x115	BR00/32x066x115										
135	BR00/30x066x135	BR00/32x066x135												



a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.	
6	7	9	47	42	30	66	205	BR00/30x066x205	32	BR00/32x066x205	
							76	55		BR00/30x076x055	BR00/32x076x055
								75		BR00/30x076x075	BR00/32x076x075
								95		BR00/30x076x095	BR00/32x076x095
								115		BR00/30x076x115	BR00/32x076x115
								155		BR00/30x076x155	BR00/32x076x155
								205		BR00/30x076x205	BR00/32x076x205
						86	55	BR00/30x086x055		BR00/32x086x055	
							75	BR00/30x086x075		BR00/32x086x075	
							95	BR00/30x086x095		BR00/32x086x095	
							115	BR00/30x086x115		BR00/32x086x115	
							135	BR00/30x086x135		BR00/32x086x135	
							155	BR00/30x086x155		BR00/32x086x155	
							205	BR00/30x086x205		BR00/32x086x205	
						96	55	BR00/30x096x055		BR00/32x096x055	
							75	BR00/30x096x075		BR00/32x096x075	
							95	BR00/30x096x095		BR00/32x096x095	
							115	BR00/30x096x115		BR00/32x096x115	
							135	BR00/30x096x135		BR00/32x096x135	
							155	BR00/30x096x155		BR00/32x096x155	
							205	BR00/30x096x205		BR00/32x096x205	
						116	75	BR00/30x116x075		BR00/32x116x075	
							115	BR00/30x116x115		BR00/32x116x115	
							155	BR00/30x116x155		BR00/32x116x155	
							205	BR00/30x116x205		BR00/32x116x205	
						136	95	BR00/30x136x095		BR00/32x136x095	
							115	BR00/30x136x115		BR00/32x136x115	
							155	BR00/30x136x155		BR00/32x136x155	
							205	BR00/30x136x205		BR00/32x136x205	
						156	115	BR00/30x156x115		BR00/32x156x115	
							155	BR00/30x156x155		BR00/32x156x155	
							205	BR00/30x156x205		BR00/32x156x205	



a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.
10	10	12	59	54	40	36	75	BR00/40x036x075	42	BR00/42x036x075
							95	BR00/40x036x095		BR00/42x036x095
							115	BR00/40x036x115		BR00/42x036x115
							155	BR00/40x036x155		BR00/42x036x155
						46	75	BR00/40x046x075		BR00/42x046x075
							95	BR00/40x046x095		BR00/42x046x095
							115	BR00/40x046x115		BR00/42x046x115
							155	BR00/40x046x155		BR00/42x046x155
						56	75	BR00/40x056x075		BR00/42x056x075
							95	BR00/40x056x095		BR00/42x056x095
							115	BR00/40x056x115		BR00/42x056x115
							155	BR00/40x056x155		BR00/42x056x155
							195	BR00/40x056x195		BR00/42x056x195
						66	75	BR00/40x066x075		BR00/42x066x075
							95	BR00/40x066x095		BR00/42x066x095
							115	BR00/40x066x115		BR00/42x066x115
							155	BR00/40x066x155		BR00/42x066x155
						76	75	BR00/40x076x075		BR00/42x076x075
							95	BR00/40x076x095		BR00/42x076x095
							115	BR00/40x076x115		BR00/42x076x115
							155	BR00/40x076x155		BR00/42x076x155
						86	75	BR00/40x086x075		BR00/42x086x075
							95	BR00/40x086x095		BR00/42x086x095
							115	BR00/40x086x115		BR00/42x086x115
							155	BR00/40x086x155		BR00/42x086x155
						96	75	BR00/40x096x075		BR00/42x096x075
							95	BR00/40x096x095		BR00/42x096x095
							115	BR00/40x096x115		BR00/42x096x115
							155	BR00/40x096x155		BR00/42x096x155
							195	BR00/40x096x195		BR00/42x096x195
						116	75	BR00/40x116x075		BR00/42x116x075
							95	BR00/40x116x095		BR00/42x116x095



a	b	f	d ₃	d ₂	d ₁	m	L	REF.	d ₁	REF.
10	10	12	59	54	40	116	115	BR00/40x116x115	42	BR00/42x116x115
							155	BR00/40x116x155		BR00/42x116x155
							195	BR00/40x116x195		BR00/42x116x195
						136	95	BR00/40x136x095		BR00/42x136x095
							115	BR00/40x136x115		BR00/42x136x115
							135	BR00/40x136x135		BR00/42x136x135
							155	BR00/40x136x155		BR00/42x136x155
						156	115	BR00/40x156x115		BR00/42x156x115
							135	BR00/40x156x135		BR00/42x156x135
							155	BR00/40x156x155		BR00/42x156x155
							195	BR00/40x156x195		BR00/42x156x195
						176	115	BR00/40x176x115		BR00/42x176x115
							155	BR00/40x176x155		BR00/42x176x155
							195	BR00/40x176x195		BR00/42x176x195
							235	BR00/40x176x235		BR00/42x176x235
						196	115	BR00/40x196x115		BR00/42x196x115
							155	BR00/40x196x155		BR00/42x196x155
							195	BR00/40x196x195		BR00/42x196x195
						216	195	BR00/40x216x195		BR00/42x216x195
							215	BR00/40x216x215		BR00/42x216x215
							235	BR00/40x216x235		BR00/42x216x235
						236	205	BR00/40x236x205		BR00/42x236x205
							235	BR00/40x236x235		BR00/42x236x235
						246	215	BR00/40x246x215		BR00/42x246x215
245	BR00/40x246x245	BR00/42x246x245								
256	215	BR00/40x256x215	BR00/42x256x215							
	255	BR00/40x256x255	BR00/42x256x255							

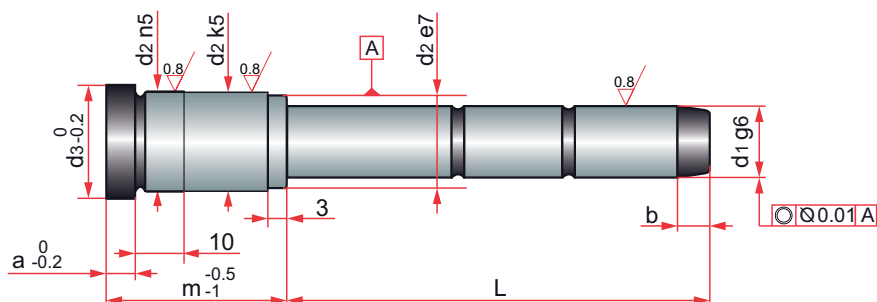
Guide pillar without centering collar BR03

Guía de doble diámetro BR03

Słup prowadzący

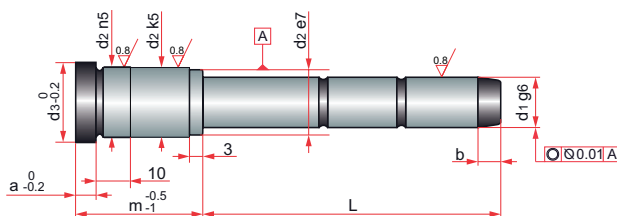
Guia principal sem centrador BR03

Colonne de guidage epaulee monobloc type BR03

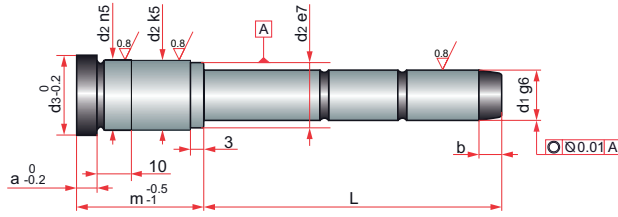


Hardness: 58 ± 2 HRC.

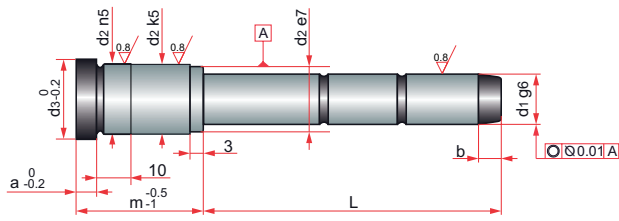
a	b	d3	d2	d1	m	L	REF.	d1	REF.	
3	4	16	14	10	12	25	BR03/10x012x025	-	-	
						35	BR03/10x012x035			
						55	BR03/10x012x055			
					17	25	BR03/10x017x025			
						30	BR03/10x017x030			
						35	BR03/10x017x035			
					55	BR03/10x017x055				
						22	25			BR03/10x022x025
							35			BR03/10x022x035
					55		BR03/10x022x055			
					27	35	BR03/10x027x035			
						50	BR03/10x027x050			
						55	BR03/10x027x055			
						75	BR03/10x027x075			
					36	35	BR03/10x036x035			
						45	BR03/10x036x045			
						55	BR03/10x036x055			
						75	BR03/10x036x075			
46	35	BR03/10x046x035								
	55	BR03/10x046x055								
	75	BR03/10x046x075								
56	35	BR03/10x056x035								
	55	BR03/10x056x055								
	75	BR03/10x056x075								
6	7	25	20	14	22	20	BR03/14x022x020	15	BR03/15x022x020	



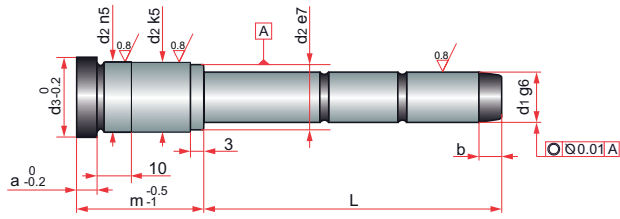
a	b	d3	d2	d1	m	L	REF.	d1	REF.	
6	7	25	20	14	22	35	BR03/14x022x035	15	BR03/15x022x035	
						45	BR03/14x022x045		BR03/15x022x045	
						55	BR03/14x022x055		BR03/15x022x055	
						65	BR03/14x022x065		BR03/15x022x065	
						90	BR03/14x022x090		BR03/15x022x090	
					27	20	BR03/14x027x020		BR03/15x027x020	
						35	BR03/14x027x035		BR03/15x027x035	
						45	BR03/14x027x045		BR03/15x027x045	
						55	BR03/14x027x055		BR03/15x027x055	
						65	BR03/14x027x065		BR03/15x027x065	
						85	BR03/14x027x085		BR03/15x027x085	
						115	BR03/14x027x115		BR03/15x027x115	
						135	BR03/14x027x135		BR03/15x027x135	
						36	20		BR03/14x036x020	BR03/15x036x020
							35		BR03/14x036x035	BR03/15x036x035
					45		BR03/14x036x045		BR03/15x036x045	
					55		BR03/14x036x055		BR03/15x036x055	
					65		BR03/14x036x065		BR03/15x036x065	
					95		BR03/14x036x095		BR03/15x036x095	
					115		BR03/14x036x115		BR03/15x036x115	
					135		BR03/14x036x135		BR03/15x036x135	
					46	20	BR03/14x046x020		BR03/15x046x020	
						35	BR03/14x046x035		BR03/15x046x035	
						45	BR03/14x046x045		BR03/15x046x045	
						65	BR03/14x046x065		BR03/15x046x065	
						85	BR03/14x046x085		BR03/15x046x085	
						105	BR03/14x046x105		BR03/15x046x105	
						135	BR03/14x046x135		BR03/15x046x135	
					56	20	BR03/14x056x020		BR03/15x056x020	
						35	BR03/14x056x035		BR03/15x056x035	
						55	BR03/14x056x055		BR03/15x056x055	
						75	BR03/14x056x075		BR03/15x056x075	



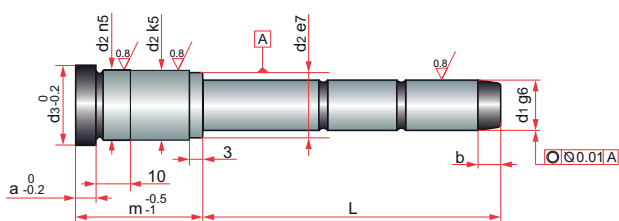
a	b	d3	d2	d1	m	L	REF.	d1	REF.
6	7	25	20	14	56	95	BR03/14x056x095	15	BR03/15x056x095
						115	BR03/14x056x115		BR03/15x056x115
						135	BR03/14x056x135		BR03/15x056x135
					66	25	BR03/14x066x025		BR03/15x066x025
						35	BR03/14x066x035		BR03/15x066x035
						55	BR03/14x066x055		BR03/15x066x055
						65	BR03/14x066x065		BR03/15x066x065
						95	BR03/14x066x095		BR03/15x066x095
						135	BR03/14x066x135		BR03/15x066x135
						76	35		BR03/14x076x035
					55		BR03/14x076x055		BR03/15x076x055
					75		BR03/14x076x075		BR03/15x076x075
					95		BR03/14x076x095		BR03/15x076x095
					115		BR03/14x076x115		BR03/15x076x115
					135		BR03/14x076x135		BR03/15x076x135
					86	55	BR03/14x086x055		BR03/15x086x055
						75	BR03/14x086x075		BR03/15x086x075
						95	BR03/14x086x095		BR03/15x086x095
						115	BR03/14x086x115		BR03/15x086x115
					96	35	BR03/14x096x035		BR03/15x096x035
						55	BR03/14x096x055		BR03/15x096x055
						75	BR03/14x096x075		BR03/15x096x075
						115	BR03/14x096x115		BR03/15x096x115
						135	BR03/14x096x135		BR03/15x096x135
		31	26	18	22	20	BR03/18x022x020	20	BR03/20x022x020
						35	BR03/18x022x035		BR03/20x022x035
						45	BR03/18x022x045		BR03/20x022x045
						55	BR03/18x022x055		BR03/20x022x055
						65	BR03/18x022x065		BR03/20x022x065
						85	BR03/18x022x085		BR03/20x022x085
					27	20	BR03/18x027x020		BR03/20x027x020
						35	BR03/18x027x035		BR03/20x027x035



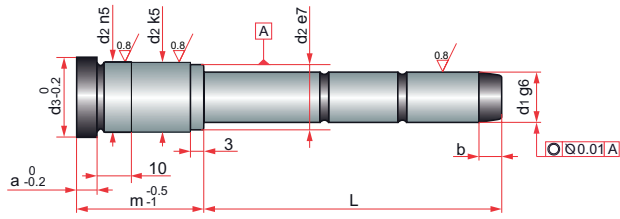
a	b	d3	d2	d1	m	L	REF.	d1	REF.
6	7	31	26	18	27	45	BR03/18x027x045	20	BR03/20x027x045
						55	BR03/18x027x055		BR03/20x027x055
						65	BR03/18x027x065		BR03/20x027x065
						85	BR03/18x027x085		BR03/20x027x085
						105	BR03/18x027x105		BR03/20x027x105
						135	BR03/18x027x135		BR03/20x027x135
					36	20	BR03/18x036x020		BR03/20x036x020
						35	BR03/18x036x035		BR03/20x036x035
						45	BR03/18x036x045		BR03/20x036x045
						55	BR03/18x036x055		BR03/20x036x055
						65	BR03/18x036x065		BR03/20x036x065
						75	BR03/18x036x075		BR03/20x036x075
						95	BR03/18x036x095		BR03/20x036x095
						115	BR03/18x036x115		BR03/20x036x115
					46	20	BR03/18x046x020		BR03/20x046x020
						45	BR03/18x046x045		BR03/20x046x045
						65	BR03/18x046x065		BR03/20x046x065
						85	BR03/18x046x085		BR03/20x046x085
						105	BR03/18x046x105		BR03/20x046x105
						135	BR03/18x046x135		BR03/20x046x135
					56	20	BR03/18x056x020		BR03/20x056x020
						35	BR03/18x056x035		BR03/20x056x035
						55	BR03/18x056x055		BR03/20x056x055
						75	BR03/18x056x075		BR03/20x056x075
						95	BR03/18x056x095		BR03/20x056x095
						115	BR03/18x056x115		BR03/20x056x115
					66	35	BR03/18x066x035		BR03/20x066x035
						55	BR03/18x066x055		BR03/20x066x055
75	BR03/18x066x075	BR03/20x066x075							
95	BR03/18x066x095	BR03/20x066x095							



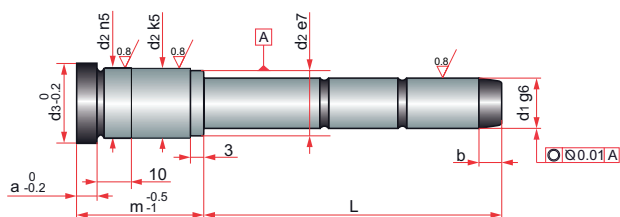
a	b	d3	d2	d1	m	L	REF.	d1	REF.	
6	7	31	26	18	66	115	BR03/18x066x115	20	BR03/20x066x115	
						135	BR03/18x066x135		BR03/20x066x135	
						76	35		BR03/18x076x035	BR03/20x076x035
							55		BR03/18x076x055	BR03/20x076x055
							75		BR03/18x076x075	BR03/20x076x075
							95		BR03/18x076x095	BR03/20x076x095
					115		BR03/18x076x115		BR03/20x076x115	
					135		BR03/18x076x135		BR03/20x076x135	
					86	55	BR03/18x086x055		BR03/20x086x055	
						75	BR03/18x086x075		BR03/20x086x075	
						95	BR03/18x086x095		BR03/20x086x095	
						115	BR03/18x086x115		BR03/20x086x115	
		135	BR03/18x086x135	BR03/20x086x135						
		96	55	BR03/18x096x055		BR03/20x096x055				
		116	95	BR03/18x096x095	BR03/20x096x095					
			75	75	BR03/18x116x075	BR03/20x116x075				
				115	BR03/18x116x115	BR03/20x116x115				
				135	BR03/18x116x135	BR03/20x116x135				
			35	30	22	27	25	BR03/22x027x025	24	BR03/24x027x025
							35	BR03/22x027x035		BR03/24x027x035
		45					BR03/22x027x045	BR03/24x027x045		
		65					BR03/22x027x065	BR03/24x027x065		
		75					BR03/22x027x075	BR03/24x027x075		
		85					BR03/22x027x085	BR03/24x027x085		
105	BR03/22x027x105	BR03/24x027x105								
125	BR03/22x027x125	BR03/24x027x125								
36	25	BR03/22x036x025				BR03/24x036x025				
	35	BR03/22x036x035				BR03/24x036x035				
	45	BR03/22x036x045				BR03/24x036x045				
	55	BR03/22x036x055				BR03/24x036x055				
	75	BR03/22x036x075	BR03/24x036x075							
	95	BR03/22x036x095	BR03/24x036x095							



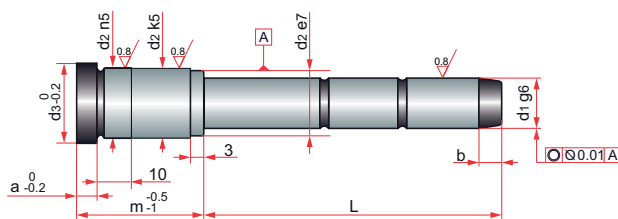
a	b	d3	d2	d1	m	L	REF.	d1	REF.	
6	7	35	30	22	36	115	BR03/22x036x115	24	BR03/24x036x115	
						155	BR03/22x036x155		BR03/24x036x155	
						205	BR03/22x036x205		BR03/24x036x205	
					46	25	BR03/22x046x025		BR03/24x046x025	
						35	BR03/22x046x035		BR03/24x046x035	
						45	BR03/22x046x045		BR03/24x046x045	
						65	BR03/22x046x065		BR03/24x046x065	
						75	BR03/22x046x075		BR03/24x046x075	
						85	BR03/22x046x085		BR03/24x046x085	
						105	BR03/22x046x105		BR03/24x046x105	
						125	BR03/22x046x125		BR03/24x046x125	
						155	BR03/22x046x155		BR03/24x046x155	
						205	BR03/22x046x205		BR03/24x046x205	
						56	25		BR03/22x056x025	BR03/24x056x025
							45		BR03/22x056x045	BR03/24x056x045
					55		BR03/22x056x055		BR03/24x056x055	
					75		BR03/22x056x075		BR03/24x056x075	
					95		BR03/22x056x095		BR03/24x056x095	
					115		BR03/22x056x115		BR03/24x056x115	
					155		BR03/22x056x155		BR03/24x056x155	
					205		BR03/22x056x205		BR03/24x056x205	
					66	35	BR03/22x066x035		BR03/24x066x035	
						55	BR03/22x066x055		BR03/24x066x055	
						75	BR03/22x066x075		BR03/24x066x075	
						95	BR03/22x066x095		BR03/24x066x095	
						155	BR03/22x066x155		BR03/24x066x155	
						205	BR03/22x066x205		BR03/24x066x205	
					76	25	BR03/22x076x025		BR03/24x076x025	
						45	BR03/22x076x045		BR03/24x076x045	
						55	BR03/22x076x055		BR03/24x076x055	
						75	BR03/22x076x075		BR03/24x076x075	
						95	BR03/22x076x095		BR03/24x076x095	



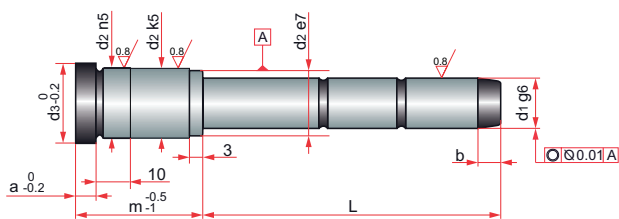
a	b	d3	d2	d1	m	L	REF.	d1	REF.	
6	7	35	30	22	76	115	BR03/22x076x115	24	BR03/24x076x115	
						155	BR03/22x076x155		BR03/24x076x155	
						205	BR03/22x076x205		BR03/24x076x205	
					86	55	BR03/22x086x055		BR03/24x086x055	
						75	BR03/22x086x075		BR03/24x086x075	
						95	BR03/22x086x095		BR03/24x086x095	
						115	BR03/22x086x115		BR03/24x086x115	
						155	BR03/22x086x155		BR03/24x086x155	
					96	205	BR03/22x086x205		BR03/24x086x205	
						55	BR03/22x096x055		BR03/24x096x055	
						75	BR03/22x096x075		BR03/24x096x075	
						95	BR03/22x096x095		BR03/24x096x095	
						155	BR03/22x096x155		BR03/24x096x155	
					116	205	BR03/22x096x205		BR03/24x096x205	
		75	BR03/22x116x075	BR03/24x116x075						
		95	BR03/22x116x095	BR03/24x116x095						
		115	BR03/22x116x115	BR03/24x116x115						
		155	BR03/22x116x155	BR03/24x116x155						
		136	205	BR03/22x116x205	BR03/24x116x205					
			75	BR03/22x136x075	BR03/24x136x075					
			95	BR03/22x136x095	BR03/24x136x095					
			135	BR03/22x136x135	BR03/24x136x135					
			155	BR03/22x136x155	BR03/24x136x155					
		47	42	30	30	27	35	BR03/30x027x035	32	BR03/32x027x035
							45	BR03/30x027x045		BR03/32x027x045
							65	BR03/30x027x065		BR03/32x027x065
							105	BR03/30x027x105		BR03/32x027x105
						36	35	BR03/30x036x035		BR03/32x036x035
55	BR03/30x036x055						BR03/32x036x055			
75	BR03/30x036x075						BR03/32x036x075			
95	BR03/30x036x095						BR03/32x036x095			



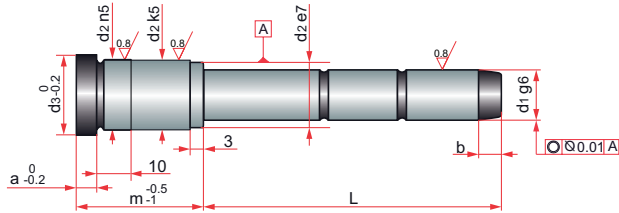
a	b	d3	d2	d1	m	L	REF.	d1	REF.
6	7	47	42	30	36	115	BR03/30x036x115	32	BR03/32x036x115
						135	BR03/30x036x135		BR03/32x036x135
						205	BR03/30x036x205		BR03/32x036x205
					46	45	BR03/30x046x045		BR03/32x046x045
						75	BR03/30x046x075		BR03/32x046x075
						85	BR03/30x046x085		BR03/32x046x085
						105	BR03/30x046x105		BR03/32x046x105
						125	BR03/30x046x125		BR03/32x046x125
						135	BR03/30x046x135		BR03/32x046x135
						205	BR03/30x046x205		BR03/32x046x205
					56	35	BR03/30x056x035		BR03/32x056x035
						55	BR03/30x056x055		BR03/32x056x055
						75	BR03/30x056x075		BR03/32x056x075
						95	BR03/30x056x095		BR03/32x056x095
						115	BR03/30x056x115		BR03/32x056x115
						135	BR03/30x056x135		BR03/32x056x135
						205	BR03/30x056x205		BR03/32x056x205
					66	35	BR03/30x066x035		BR03/32x066x035
						55	BR03/30x066x055		BR03/32x066x055
						75	BR03/30x066x075		BR03/32x066x075
						95	BR03/30x066x095		BR03/32x066x095
						115	BR03/30x066x115		BR03/32x066x115
						135	BR03/30x066x135		BR03/32x066x135
						205	BR03/30x066x205		BR03/32x066x205
					76	35	BR03/30x076x035		BR03/32x076x035
						55	BR03/30x076x055		BR03/32x076x055
						75	BR03/30x076x075		BR03/32x076x075
						95	BR03/30x076x095		BR03/32x076x095
						115	BR03/30x076x115		BR03/32x076x115
						155	BR03/30x076x155		BR03/32x076x155
						205	BR03/30x076x205		BR03/32x076x205
					86	55	BR03/30x086x055		BR03/32x086x055



a	b	d3	d2	d1	m	L	REF.	d1	REF.
6	7	47	42	30	86	75	BR03/30x086x075	32	BR03/32x086x075
						95	BR03/30x086x095		BR03/32x086x095
						115	BR03/30x086x115		BR03/32x086x115
						155	BR03/30x086x155		BR03/32x086x155
						205	BR03/30x086x205		BR03/32x086x205
					96	55	BR03/30x096x055		BR03/32x096x055
						75	BR03/30x096x075		BR03/32x096x075
						95	BR03/30x096x095		BR03/32x096x095
						115	BR03/30x096x115		BR03/32x096x115
						155	BR03/30x096x155		BR03/32x096x155
					116	205	BR03/30x096x205		BR03/32x096x205
						45	BR03/30x116x045		BR03/32x116x045
						75	BR03/30x116x075		BR03/32x116x075
						115	BR03/30x116x115		BR03/32x116x115
						155	BR03/30x116x155		BR03/32x116x155
					136	205	BR03/30x116x205		BR03/32x116x205
						95	BR03/30x136x095		BR03/32x136x095
						115	BR03/30x136x115		BR03/32x136x115
						155	BR03/30x136x155		BR03/32x136x155
					156	205	BR03/30x136x205		BR03/32x136x205
115	BR03/30x156x115	BR03/32x156x115							
155	BR03/30x156x155	BR03/32x156x155							
10	10	59	54	40	36	75	BR03/40x036x075	42	BR03/42x036x075
						95	BR03/40x036x095		BR03/42x036x095
						115	BR03/40x036x115		BR03/42x036x115
						155	BR03/40x036x155		BR03/42x036x155
					46	75	BR03/40x046x075		BR03/42x046x075
						95	BR03/40x046x095		BR03/42x046x095
						115	BR03/40x046x115		BR03/42x046x115
					56	155	BR03/40x046x155		BR03/42x046x155
						75	BR03/40x056x075		BR03/42x056x075



a	b	d3	d2	d1	m	L	REF.	d1	REF.
10	10	59	54	40	56	95	BR03/40x056x095	42	BR03/42x056x095
						115	BR03/40x056x115		BR03/42x056x115
						155	BR03/40x056x155		BR03/42x056x155
					66	75	BR03/40x066x075		BR03/42x066x075
						95	BR03/40x066x095		BR03/42x066x095
						115	BR03/40x066x115		BR03/42x066x115
					76	155	BR03/40x 66x155		BR03/42x066x155
						75	BR03/40x076x075		BR03/42x076x075
						95	BR03/40x076x095		BR03/42x076x095
					86	115	BR03/40x076x115		BR03/42x076x115
						155	BR03/40x076x155		BR03/42x076x155
						75	BR03/40x086x075		BR03/42x086x075
					96	95	BR03/40x086x095		BR03/42x086x095
						115	BR03/40x086x115		BR03/42x086x115
						155	BR03/40x086x155		BR03/42x086x155
					96	75	BR03/40x096x075		BR03/42x096x075
						95	BR03/40x096x095		BR03/42x096x095
						115	BR03/40x096x115		BR03/42x096x115
					116	155	BR03/40x096x155		BR03/42x096x155
						75	BR03/40x116x075		BR03/42x116x075
						95	BR03/40x116x095		BR03/42x116x095
					136	115	BR03/40x116x115		BR03/42x116x115
						155	BR03/40x116x155		BR03/42x116x155
						95	BR03/40x136x095		BR03/42x136x095
156	115	BR03/40x136x115	BR03/42x136x115						
	135	BR03/40x136x135	BR03/42x136x135						
	155	BR03/40x136x155	BR03/42x136x155						
156	195	BR03/40x136x195	BR03/42x136x195						
	115	BR03/40x156x115	BR03/42x156x115						
	135	BR03/40x156x135	BR03/42x156x135						
156	155	BR03/40x156x155	BR03/42x156x155						
	195	BR03/40x156x195	BR03/42x156x195						

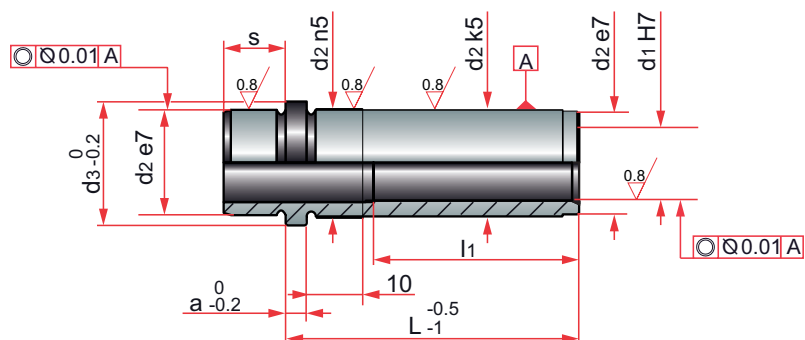


a	b	d3	d2	d1	m	L	REF.	d1	REF.
10	10	59	54	40	176	115	BR03/40x176x115	42	BR03/42x176x115
						155	BR03/40x176x155		BR03/42x176x155
						195	BR03/40x176x195		BR03/42x176x195
					196	115	BR03/40x196x115		BR03/42x196x115
						155	BR03/40x196x155		BR03/42x196x155
						195	BR03/40x196x195		BR03/42x196x195
					216	195	BR03/40x216x195		BR03/42x216x195
						215	BR03/40x216x215		BR03/42x216x215
					236	205	BR03/40x236x205		BR03/42x236x205
						235	BR03/40x236x235		BR03/42x236x235
					246	215	BR03/40x246x215		BR03/42x246x215
						245	BR03/40x246x245		BR03/42x246x245
					256	215	BR03/40x256x215		BR03/42x256x215
						255	BR03/40x256x255		BR03/42x256x255

Special tailed leader pin bushing BR10
 Casquillo guía con centrador BR10
 Tuleja prowadząca z kołnierzem centrującym BR10
 Casquilho dois corpos cementado BR10
 Bague de guidage epaulee type BR10

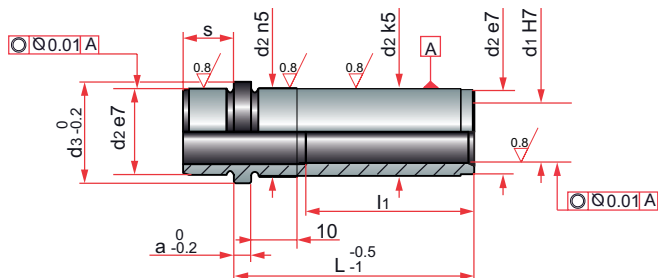


2

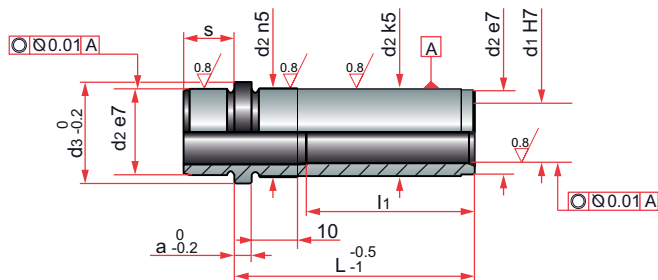


Hardness: 58 ± 2 HRC.

l1	a	s	d3	d2	d1	L	REF.	d1	REF.						
15	3	3	16	14	10	12	BR10/10x012	-	-						
20						17	BR10/10x017								
25						22	BR10/10x022								
30						27	BR10/10x027								
39						36	BR10/10x036								
46						46	BR10/10x046								
						56	BR10/10x056								
26	6	9	25	20	14	17	BR10/14x017	15	BR10/15x017						
31						22	BR10/14x022		BR10/15x022						
36						27	BR10/14x027		BR10/15x027						
45						36	BR10/14x036		BR10/15x036						
55						46	BR10/14x046		BR10/15x046						
56						56	BR10/14x056		BR10/15x056						
						66	BR10/14x066		BR10/15x066						
						76	BR10/14x076		BR10/15x076						
						86	BR10/14x086		BR10/15x086						
						96	BR10/14x096		BR10/15x096						
31						31			31	26	18	22	BR10/18x022	20	BR10/20x022
36												27	BR10/18x027		BR10/20x027
45												36	BR10/18x036		BR10/20x036
55	46	BR10/18x046	BR10/20x046												
65	56	BR10/18x056	BR10/20x056												
75	66	BR10/18x066	BR10/20x066												
76	76	BR10/18x076	BR10/20x076												
	86	BR10/18x086	BR10/20x086												



l1	a	s	d3	d2	d1	L	REF.	d1	REF.			
76	6	9	31	26	18	96	BR10/18x096	20	BR10/20x096			
						116	BR10/18x116		BR10/20x116			
31						35	30	22	22	BR10/22x022	24	BR10/24x022
36									27	BR10/22x027		BR10/24x027
45									36	BR10/22x036		BR10/24x036
55									46	BR10/22x046		BR10/24x046
65			56	BR10/22x056	BR10/24x056							
75			66	BR10/22x066	BR10/24x066							
85			76	BR10/22x076	BR10/24x076							
95			86	BR10/22x086	BR10/24x086							
105			96	BR10/22x096	BR10/24x096							
96			116	BR10/22x116	BR10/24x116							
			136	BR10/22x136	BR10/24x136							
			156	BR10/22x156	BR10/24x156							
36			47	42	30	27	BR10/30x027	32	BR10/32x027			
45						36	BR10/30x036		BR10/32x036			
55						46	BR10/30x046		BR10/32x046			
65						56	BR10/30x056		BR10/32x056			
75	66	BR10/30x066				BR10/32x066						
85	76	BR10/30x076				BR10/32x076						
95	86	BR10/30x086				BR10/32x086						
105	96	BR10/30x096				BR10/32x096						
125	116	BR10/30x116				BR10/32x116						
116	136	BR10/30x136				BR10/32x136						
	156	BR10/30x156				BR10/32x156						
	176	BR10/30x176				BR10/32x176						
48	10	12	59	54	40	36	BR10/40x036	42	BR10/42x036			
58						46	BR10/40x046		BR10/42x046			
68						56	BR10/40x056		BR10/42x056			
78						66	BR10/40x066		BR10/42x066			
88						76	BR10/40x076		BR10/42x076			



l1	a	s	d3	d2	d1	L	REF.	d1	REF.
98	10	12	59	54	40	86	BR10/40x086	42	BR10/42x086
108						96	BR10/40x096		BR10/42x096
116						116	BR10/40x116		BR10/42x116
						136	BR10/40x136		BR10/42x136
						156	BR10/40x156		BR10/42x156
						176	BR10/40x176		BR10/42x176
						196	BR10/40x196		BR10/42x196
						216	BR10/40x216		BR10/42x216
						236	BR10/40x236		BR10/42x236
						246	BR10/40x246		BR10/42x246
256	BR10/40x256	BR10/42x256							

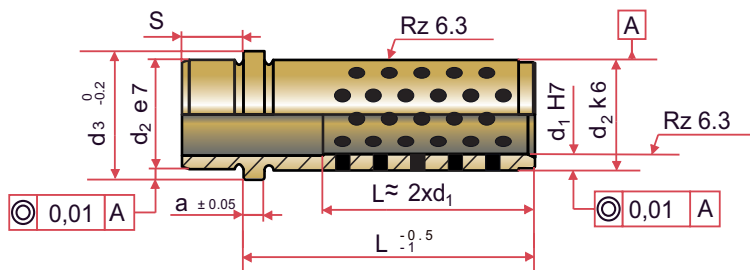
Tailed oilless bush BR10W

Casquillo autolubricado con centrador BR10W

Tuleja prowadząca z kołnierzem centrującym samosmarująca BR10W

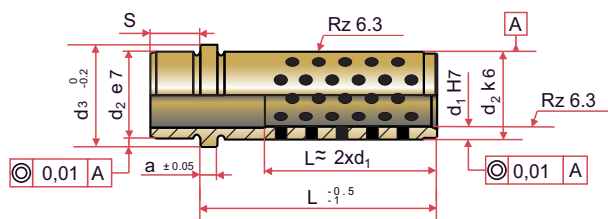
Casquilho dois corpos bronze alumínio com grafite BR10W

Bague bronze a collerette avec plot de centrage avec inserts graphite type BR10W.



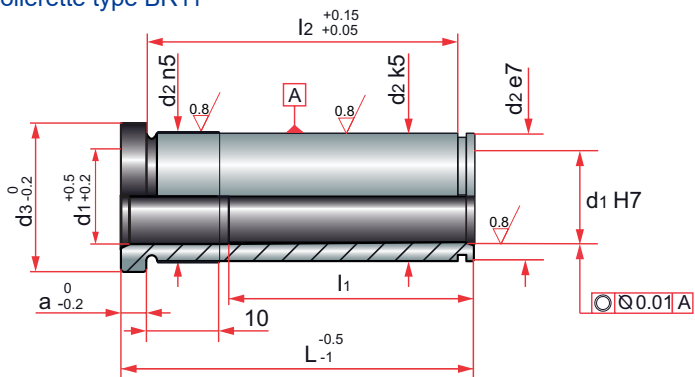
Mat. : Aluminium bronze + graphite inserts.

a	S	d3	d2	d1	L	REF.	d1	REF.	
3	5	16	14	9	12	BR10W/09x012	10	BR10W/10x012	
					17	BR10W/09x017		BR10W/10x017	
					22	BR10W/09x022		BR10W/10x022	
					27	BR10W/09x027		BR10W/10x027	
					36	BR10W/09x036		BR10W/10x036	
					46	BR10W/09x046		BR10W/10x046	
6	8	25	20	14	17	BR10W/14x017	15	BR11W/15x017	
					22	BR10W/14x022		BR10W/15x022	
					27	BR10W/14x027		BR10W/15x027	
					36	BR10W/14x036		BR10W/15x036	
					46	BR10W/14x046		BR10W/15x046	
					56	BR10W/14x056		BR10W/15x056	
		31	26	18	18	17	BR10W/18x017	20	BR10W/20x017
						22	BR10W/18x022		BR10W/20x022
						27	BR10W/18x027		BR10W/20x027
						36	BR10W/18x036		BR10W/20x036
						46	BR10W/18x046		BR10W/20x046
						56	BR10W/18x056		BR10W/20x056
						66	BR10W/18x066		BR10W/20x066
		35	30	22	22	22	BR10W/22x022	24	BR10W/24x022
						27	BR10W/22x027		BR10W/24x027
36	BR10W/22x036					BR10W/24x036			
46	BR10W/22x046					BR10W/24x046			
56	BR10W/22x056					BR10W/24x056			



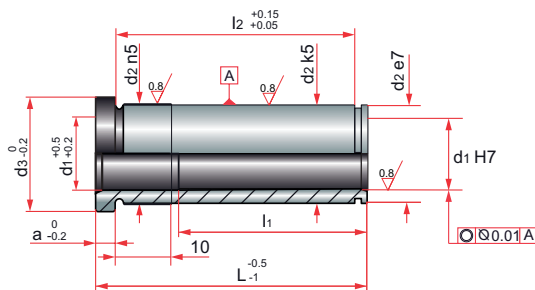
a	S	d3	d2	d1	L	REF.	d1	REF.
6	8	35	30	22	66	BR10W/22x066	24	BR10W/24x066
					76	BR10W/22x076		BR10W/24x076
					86	BR10W/22x086		BR10W/24x086
					96	BR10W/22x096		BR10W/24x096
					116	BR10W/22x116		BR10W/24x116
		47	42	30	27	BR10W/30x027	32	BR10W/32x027
					36	BR10W/30x036		BR10W/32x036
					46	BR10W/30x046		BR10W/32x046
					56	BR10W/30x056		BR10W/32x056
					66	BR10W/30x066		BR10W/32x066
					76	BR10W/30x076		BR10W/32x076
					86	BR10W/30x086		BR10W/32x086
					96	BR10W/30x096		BR10W/32x096
					116	BR10W/30x116		BR10W/32x116
					136	BR10W/30x136		BR10W/32x136
10	10	60	54	40	56	BR10W/40x056	42	BR10W/42x056
					76	BR10W/40x076		BR10W/42x076
					96	BR10W/40x096		BR10W/42x096
					116	BR10W/40x116		BR10W/42x116
					136	BR10W/40x136		BR10W/42x136
					156	BR10W/40x156		BR10W/42x156

Headed leader pin bushing BR11
 Casquillo guía con valona BR11
 Tuleja prowadząca bez kołnierza centrującego BR11
 Casquilho cementado BR11
 Bague de guidage a colerette type BR11

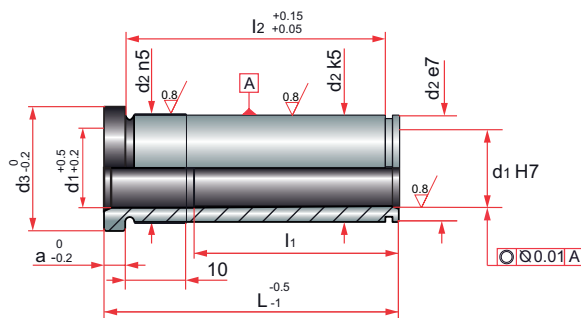


Hardness: 58 ± 2 HRC.

l1	a	d3	d2	l2	d1	L	REF.	d1	REF.					
-	3	16	14	5,5	10	12	BR11/10x012	-	-					
				10,5		17	BR11/10x017							
				15,5		22	BR11/10x022							
				20,5		27	BR11/10x027							
				29,5		36	BR11/10x036							
				39,5		46	BR11/10x046							
				49,5		56	BR11/10x056							
	6	23	18	7	12	17	BR11/12x017	-	-					
				12		22	BR11/12x022							
				17		27	BR11/12x027							
				26		36	BR11/12x036							
				36		46	BR11/12x046							
				46		56	BR11/12x056							
		25	20	20	7	14	17	BR11/14x017	15	BR11/15x017				
					12		22	BR11/14x022		BR11/15x022				
					17		27	BR11/14x027		BR11/15x027				
					26		36	BR11/14x036		BR11/15x036				
					36		46	BR11/14x046		BR11/15x046				
					46		56	BR11/14x056		BR11/15x056				
					56		-	-		56	-	66	BR11/14x066	BR11/15x066
										66		76	BR11/14x076	BR11/15x076
76	86	BR11/14x086	BR11/15x086											
86	96	BR11/14x096	BR11/15x096											
-	31	26	12	18	22	BR11/18x022	20	BR11/20x022						
			17		27	BR11/18x027		BR11/20x027						

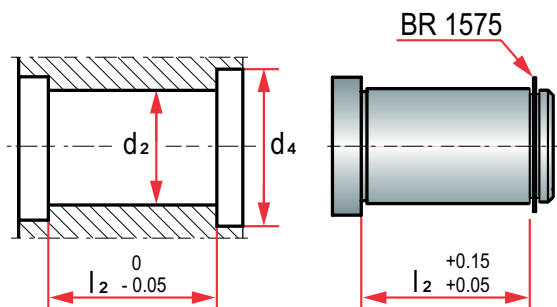


l1	a	d3	d2	l2	d1	L	REF.	d1	REF.					
-	6	31	26	26	18	36	BR11/18x036	20	BR11/20x036					
				36		46	BR11/18x046		BR11/20x046					
				46		56	BR11/18x056		BR11/20x056					
				56		66	BR11/18x066		BR11/20x066					
				66		76	BR11/18x076		BR11/20x076					
				76		76	86		BR11/18x086	BR11/20x086				
						86	96		BR11/18x096	BR11/20x096				
						106	116		BR11/18x116	BR11/20x116				
						-	35		30	11	22	22	BR11/22x022	24
				16						27		BR11/22x027	BR11/24x027	
25	36	BR11/22x036	BR11/24x036											
35	46	BR11/22x046	BR11/24x046											
45	56	BR11/22x056	BR11/24x056											
55	66	BR11/22x066	BR11/24x066											
65	76	BR11/22x076	BR11/24x076											
75	86	BR11/22x086	BR11/24x086											
85	96	BR11/22x096	BR11/24x096											
96	105	116	BR11/22x116	BR11/24x116										
	125	136	BR11/22x136	BR11/24x136										
	-	47	42	14	30	27	BR11/30x027	32	BR11/32x027					
23				36		BR11/30x036	BR11/32x036							
33				46		BR11/30x046	BR11/32x046							
43				56		BR11/30x056	BR11/32x056							
53				66		BR11/30x066	BR11/32x066							
63				76		BR11/30x076	BR11/32x076							
73				86		BR11/30x086	BR11/32x086							
83				96		BR11/30x096	BR11/32x096							
116				103		116	BR11/30x116		BR11/32x116					
				123		136	BR11/30x136		BR11/32x136					
	143	156	BR11/30x156	BR11/32x156										
	163	176	BR11/30x176	BR11/32x176										



l1	a	d3	d2	l2	d1	L	REF.	d1	REF.
-	10	59	54	18	40	36	BR11/40x036	42	BR11/42x036
				28		46	BR11/42x046		
				38		56	BR11/42x056		
				48		66	BR11/42x066		
				58		76	BR11/42x076		
				68		86	BR11/42x086		
				78		96	BR11/42x096		
				98		116	BR11/42x116		
				116		118	136		BR11/42x136
						138	156		BR11/42x156
						158	176		BR11/42x176
						178	196		BR11/42x196
						198	216		BR11/42x216
						218	236		BR11/42x236
						228	246		BR11/42x246
238	256	BR11/42x256							

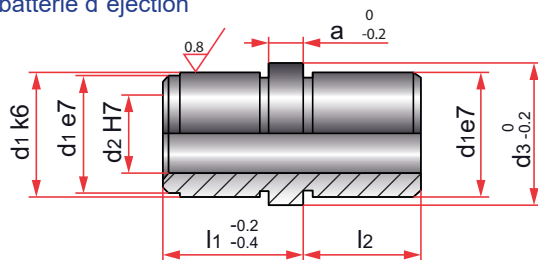
d ₂	d ₄	BR1575
14	22,0	BR1575-14
18	26,8	BR1575-18
20	29,0	BR1575-20
26	35,5	BR1575-26
30	40,5	BR1575-30
42	55,7	BR1575-42
54	69,2	BR1575-54
66	82,4	BR1575-64



Guide bush for ejector set
 Casquillo para paquete de expulsión
 Tuleja prowadząca do pakietu wypychaczy
 Casquillo para guias de extração
 Douille de guidage pour batterie d'éjection



2



Hardness: 58 ± 2 HRC.

a	d ₁	d ₂	d ₃	l ₂	l ₁	REF.		
6	16	12	19	9	17	BR7128-12-09x17		
				12		BR7128-12-12x17		
				18	14	21	17	22
	22	BR7128-14-12x22						
	24	18	27				12	17
				17	22	BR7128-18-12x22		
					27	BR7128-18-17x27		
	26	20	29	17	22	BR7128-18-17x22		
				22		27	BR7128-18-22x27	
				28	22	31	17	22
	22	27	BR7128-20-22x27					
		27	36				BR7128-22-17x22	
30	24	33	17	22	BR7128-22-22x27			
				27	36	BR7128-24-17x22		
			22	27	BR7128-24-17x27			
				27	36	BR7128-24-22x27		
			38	30	41	22	27	BR7128-24-27x36
						27	36	BR7128-24-27x36
48	40	51	36	46	BR7128-30-27x46			
				46	BR7128-30-27x46			
			36	46	BR7128-30-36x46			
				46	BR7128-30-36x46			

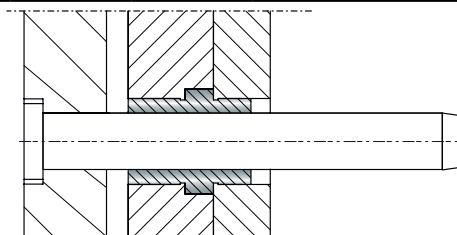
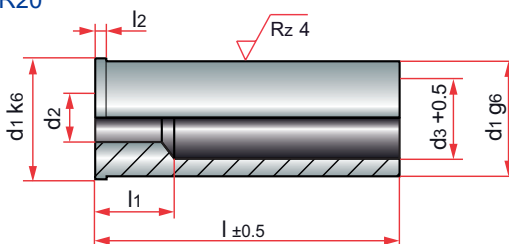
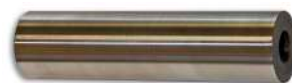
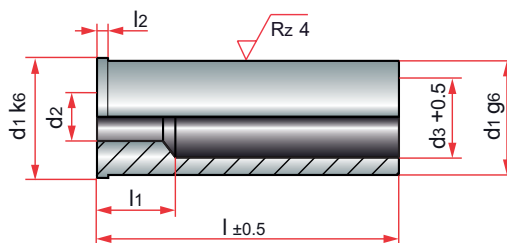


Plate alignment bush BR20
 Casquillo centrador BR20
 Tuleja centrujaca
 Casquilho de centragem BR20
 Douille de centrage lisse BR20



Hardness: 58 ± 2 HRC.

l_1	l_2	d_3	d_2	d_1	l	REF.					
13	2	16	M12	20	60	BR20/20x060					
					80	BR20/20x080					
					100	BR20/20x100					
					120	BR20/20x120					
	2,5	21			26	40	BR20/26x040				
					60	BR20/26x060					
					80	BR20/26x080					
					100	BR20/26x100					
					120	BR20/26x120					
					140	BR20/26x140					
					25	25			30	40	BR20/30x040
									60	BR20/30x060	
	80	BR20/30x080									
	100	BR20/30x100									
	120	BR20/30x120									
	140	BR20/30x140									
	4,5	33			42	60	BR20/42x060				
					80	BR20/42x080					
					100	BR20/42x100					
					120	BR20/42x120					
140					BR20/42x140						
160					BR20/42x160						
180					BR20/42x180						
200					BR20/42x200						
				42	220	BR20/42x220					



l_1	l_2	d_3	d_2	d_1	l	REF.
18	4,5	43	M12	54	60	BR20/54x060
					80	BR20/54x080
					100	BR20/54x100
					120	BR20/54x120
					160	BR20/54x160
					180	BR20/54x180
					200	BR20/54x200
					220	BR20/54x220
					240	BR20/54x240
					260	BR20/54x260
					280	BR20/54x280
					300	BR20/54x300
					320	BR20/54x320
					340	BR20/54x340
					360	BR20/54x360
380	BR20/54x380					

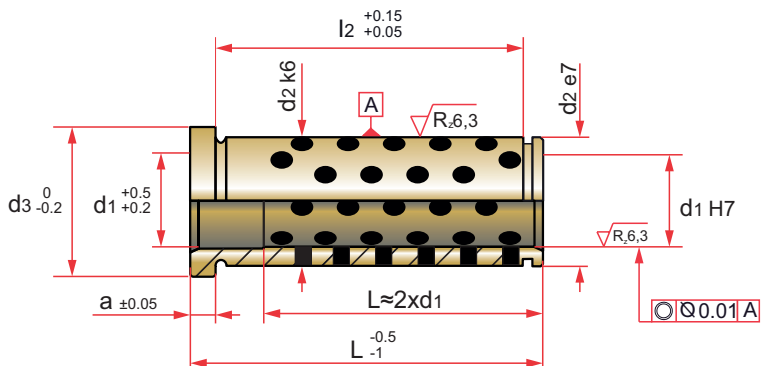
Tailed oilless bush BR11W

Casquillo autolubricado con valona BR11W

Tuleja prowadząca bez kołnierza centrującego BR11W

Casquilho bronze alumínio com grafite BR11W

Bague bronze a collerette avec inserts graphite BR11W

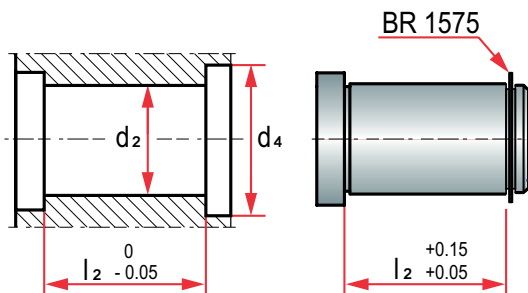


Mat. : Aluminium bronze + graphite inserts.

a	d3	d2	d1	l2	L	REF.	d1	REF.	
3	16	14	9	5,5	12	BR11W/09x012	10	BR11W/10x012	
				10,5	17	BR11W/09x017		BR11W/10x017	
				15,5	22	BR11W/09x022		BR11W/10x022	
				20,5	27	BR11W/09x027		BR11W/10x027	
				29,5	36	BR11W/09x036		BR11W/10x036	
				39,5	46	BR11W/09x046		BR11W/10x046	
				49,5	56	BR11W/09x056		BR11W/10x056	
6	23	18	12	7	17	BR11W/12x017	-		
				12	22	BR11W/12x022			
				17	27	BR11W/12x027			
				26	36	BR11W/12x036			
				36	46	BR11W/12x046			
				46	56	BR11W/12x056			
	25	20	14	14	7	17	BR11W/14x017	15	BR11W/15x017
					12	22	BR11W/14x022		BR11W/15x022
					17	27	BR11W/14x027		BR11W/15x027
					26	36	BR11W/14x036		BR11W/15x036
					36	46	BR11W/14x046		BR11W/15x046
					46	56	BR11W/14x056		BR11W/15x056
	27	22	16	16	7	17	BR11W/16x017	-	-
12					22	BR11W/16x022			
17					27	BR11W/16x027			
26					36	BR11W/16x036			
36					46	BR11W/16x046			
				46	56	BR11W/16x056			

a	d3	d2	d1	l2	L	REF.	d1	REF.
6	31	26	18	7	17	BR11W/18x017	20	BR11W/20x017
				12	22	BR11W/18x022		BR11W/20x022
				17	27	BR11W/18x027		BR11W/20x027
				26	36	BR11W/18x036		BR11W/20x036
				36	46	BR11W/18x046		BR11W/20x046
				46	56	BR11W/18x056		BR11W/20x056
				56	66	BR11W/18x066		BR11W/20x066
	35	30	22	11	22	BR11W/22x022	24	BR11W/24x022
				16	27	BR11W/22x027		BR11W/24x027
				25	36	BR11W/22x036		BR11W/24x036
				35	46	BR11W/22x046		BR11W/24x046
				45	56	BR11W/22x056		BR11W/24x056
				55	66	BR11W/22x066		BR11W/24x066
				65	76	BR11W/22x076		BR11W/24x076
	47	42	30	14	27	BR11W/30x027	32	BR11W/32x027
				23	36	BR11W/30x036		BR11W/32x036
				33	46	BR11W/30x046		BR11W/32x046
				43	56	BR11W/30x056		BR11W/32x056
				53	66	BR11W/30x066		BR11W/32x066
				63	76	BR11W/30x076		BR11W/32x076
				73	86	BR11W/30x086		BR11W/32x086
10	60	54	40	83	96	BR11W/30x096	42	BR11W/32x096
				103	116	BR11W/30x116		BR11W/32x116
				28	46	BR11W/40x046		BR11W/42x046
				38	56	BR11W/40x056		BR11W/42x056
				48	66	BR11W/40x066		BR11W/42x066
				58	76	BR11W/40x076		BR11W/42x076
				68	86	BR11W/40x086		BR11W/42x086
78	96	BR11W/40x096	BR11W/42x096					
98	116	BR11W/40x116	BR11W/42x116					
				118	136	BR11W/40x136		BR11W/42x136

d ₂	d ₄	BR1575
14	22,0	BR1515-14
18	26,8	BR1515-18
20	29,0	BR1515-20
26	35,5	BR1515-26
30	40,5	BR1515-30
42	55,7	BR1515-42
54	69,2	BR1515-54
66	82,4	BR1515-64



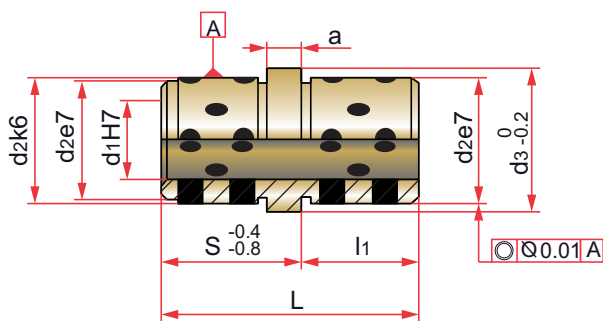
Tailed oilles bush BR13W

Casquillo autolubricado con centrador BR13W

Tuleja prowadząca z kołnierzem centrującym samosmarująca BR13W

Casquilho dois corpos bronze alumínio com grafite BR13W

Bague bronze a collerette avec plot de centrage avec inserts graphite BR13W



Mat. : Aluminium bronze + graphite inserts.

a	d3	l1	d2	L	s	d1	REF.	d1	REF.
6	25	9	20	26	17	14	BR13W/14x17	15	BR13W/15x17
	31	17	26	39	22	18	BR13W/18x22	20	BR13W/20x22
	35	22	30	49	27	22	BR13W/22x27	24	BR13W/24x27
	47	27	42	63	36	30	BR13W/30x36	32	BR13W/32x36

Tailed oilles bush

Casquillo autolubricado con centrador

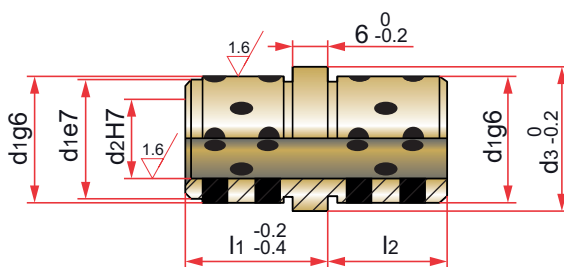
Tuleja prowadząca z kołnierzem centrującym samosmarująca

Casquilho dois corpos bronze alumínio com grafite

Bague bronze a collerette avec plot de centrage avec inserts graphite



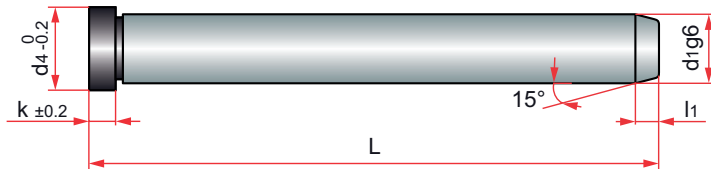
2



Mat. : Aluminium bronze + graphite inserts.

d_1	d_3	d_2	l_2	l_1	Descripción
14	17	10	9	12	BR1125-10X09-12
				17	BR1125-10X09-17
16	19	12	12		BR1125-12X09-17
					BR1125-12X12-17
18	21	14	17	22	BR1125-14X12-17
					BR1125-14X12-22
24	27	18	12	17	BR1125-18X12-17
				22	BR1125-18X12-22
				17	BR1125-18X17-22
				27	BR1125-18X17-27
26	29	20	17	22	BR1125-18X22-27
				27	BR1125-20X17-22
				27	BR1125-20X22-27
28	31	22	17	22	BR1125-22X17-22
				27	BR1125-22X22-27
30	33	24	17	22	BR1125-24X17-22
				27	BR1125-24X17-27
			22		BR1125-24X22-27
				27	36
38	41	30	22	27	BR1125-30X22-27
				36	BR1125-30X27-36
			36	46	BR1125-30X27-46
		BR1125-30X36-46			
48	51	40			BR1125-40X36-46

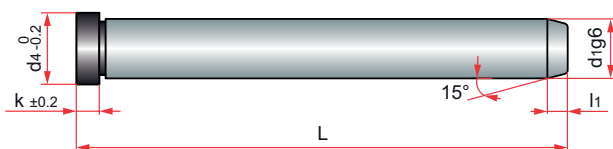
Angle pin
 Guía corredera
 Słup skośny
 Guía inclinada
 Doigt de demoulage



Hardness: 58 ± 2 HRC.

L1	k	d4	d1	L	REF.					
4	3	10	8	40	BR01/08x040					
				60	BR01/08x060					
				80	BR01/08x080					
				100	BR01/08x100					
				120	BR01/08x120					
	12	3	10	8	40	BR01/09x040				
					60	BR01/09x060				
					80	BR01/09x080				
					100	BR01/09x100				
					120	BR01/09x120				
					10	3	10	8	40	BR01/10x040
									60	BR01/10x060
									80	BR01/10x080
									100	BR01/10x100
7	6	16	12	40	BR01/12x040					
				60	BR01/12x060					
				80	BR01/12x080					
				100	BR01/12x100					
				120	BR01/12x120					
				140	BR01/12x140					
				160	BR01/12x160					
	8	18	14	14	60	BR01/14x060				
					80	BR01/14x080				

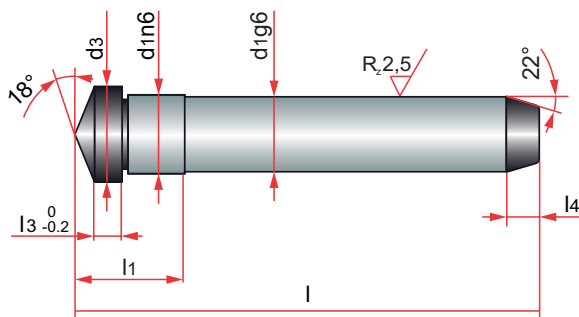
L1	k	d4	d1	L	REF.			
7	8	18	14	100	BR01/14x100			
				120	BR01/14x120			
				125	BR01/14x125			
				140	BR01/14x140			
				160	BR01/14x160			
				180	BR01/14x180			
				15	8	18	14	60
			80					BR01/15x080
			100					BR01/15x100
			120					BR01/15x120
			140					BR01/15x140
			160					BR01/15x160
			180					BR01/15x180
			20	8	18	16	40	BR01/16x040
	60	BR01/16x060						
	80	BR01/16x080						
	100	BR01/16x100						
	140	BR01/16x140						
	160	BR01/16x160						
	22	8	18	18	60	BR01/18x060		
80					BR01/18x080			



L1	k	d4	d1	L	REF.		
7	8	22	18	100	BR01/18x100		
				120	BR01/18x120		
				140	BR01/18x140		
				160	BR01/18x160		
				180	BR01/18x180		
				200	BR01/18x200		
				240	BR01/18x240		
	24	20	60	BR01/20x060			
			80	BR01/20x080			
			100	BR01/20x100			
			120	BR01/20x120			
			140	BR01/20x140			
			160	BR01/20x160			
			180	BR01/20x180			
			200	BR01/20x200			
			240	BR01/20x240			
			15	26	22	80	BR01/22x080
						100	BR01/22x100
120	BR01/22x120						
140	BR01/22x140						
160	BR01/22x160						
180	BR01/22x180						
200	BR01/22x200						
220	BR01/22x220						

L1	k	d4	d1	L	REF.		
7	15	26	22	240	BR01/22x240		
				300	BR01/22x300		
				28	24	80	BR01/24x080
						100	BR01/24x100
		120	BR01/24x120				
		140	BR01/24x140				
		36	30	160	BR01/24x160		
				180	BR01/24x180		
				200	BR01/24x200		
				220	BR01/24x220		
		32	30	30	240	BR01/24x240	
					300	BR01/24x300	
	120				BR01/30x120		
	160				BR01/30x160		
	200				BR01/30x200		
	240				BR01/30x240		
	32	30	32	300	BR01/30x300		
				360	BR01/30x360		
120				BR01/32x120			
160				BR01/32x160			
200				BR01/32x200			
240				BR01/32x240			
360	30	32	300	BR01/32x300			
			360	BR01/32x360			

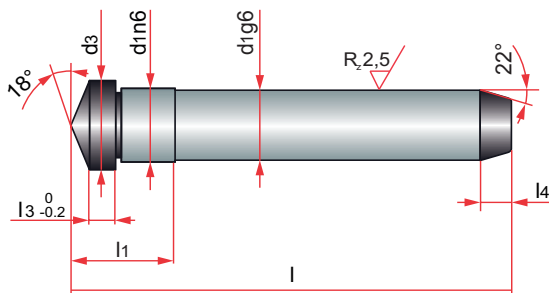
Inclined pin with tapered collar
 Guía con cabeza inclinada
 Słup skośny z kołnierzem stożkowym
 Guia inclinada
 Doigt de démoulage à tête cônica



Hardness: 58 ± 2 HRC.

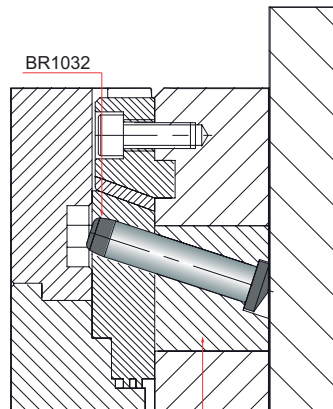
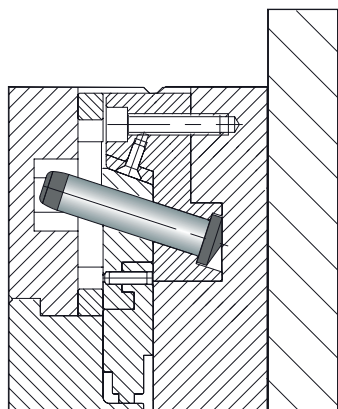
I 1	I 3	I 4	d 3	d 1	I	REF.	
13	2	4	12	10	60	BR1032/10x060	
					70	BR1032/10x070	
					80	BR1032/10x080	
					90	BR1032/10x090	
					100	BR1032/10x100	
					120	BR1032/10x120	
17	3	5	15	12	60	BR1032/12x060	
					80	BR1032/12x080	
					100	BR1032/12x100	
					120	BR1032/12x120	
					140	BR1032/12x140	
					160	BR1032/12x160	
22	17	14	17	14	60	BR1032/14x060	
					80	BR1032/14x080	
					100	BR1032/14x100	
					120	BR1032/14x120	
					140	BR1032/14x140	
					160	BR1032/14x160	
	19	16	19	16	16	60	BR1032/16x060
						80	BR1032/16x080
						100	BR1032/16x100
						120	BR1032/16x120
						140	BR1032/16x140
						160	BR1032/16x160
180	BR1032/16x180						

I 1	I 3	I 4	d 3	d 1	I	REF.			
22	3	5	19	16	200	BR1032/16x200			
					7	21	18	60	BR1032/18x060
								80	BR1032/18x080
								100	BR1032/18x100
								120	BR1032/18x120
								140	BR1032/18x140
	160	BR1032/18x160							
	4	23	20	20	80	BR1032/20x080			
					100	BR1032/20x100			
					120	BR1032/20x120			
					140	BR1032/20x140			
					160	BR1032/20x160			
180					BR1032/20x180				
25	22	25	22	60	BR1032/22x060				
				80	BR1032/22x080				
				100	BR1032/22x100				
				120	BR1032/22x120				
				140	BR1032/22x140				
				160	BR1032/22x160				



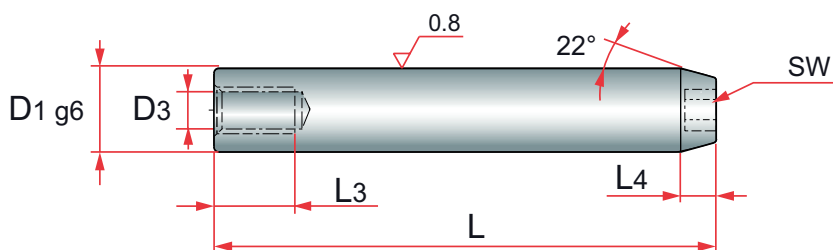
l1	l3	l4	d3	d1	l	REF.
22	4	7	25	22	180	BR1032/22x180
					200	BR1032/22x200
					220	BR1032/22x220
					240	BR1032/22x240
27			27	24	80	BR1032/24x080
					100	BR1032/24x100
					120	BR1032/24x120
					140	BR1032/24x140
					160	BR1032/24x160
					180	BR1032/24x180
					200	BR1032/24x200
					220	BR1032/24x220
240	BR1032/24x240					

l1	l3	l4	d3	d1	l	REF.
27	4	7	27	24	280	BR1032/24x280
36	5		35	30	100	BR1032/30x100
					120	BR1032/30x120
					140	BR1032/30x140
					160	BR1032/30x160
					180	BR1032/30x180
					200	BR1032/30x200
					220	BR1032/30x220
					240	BR1032/30x240
					260	BR1032/30x260
					280	BR1032/30x280
					320	BR1032/30x320
					360	BR1032/30x360



BR3060

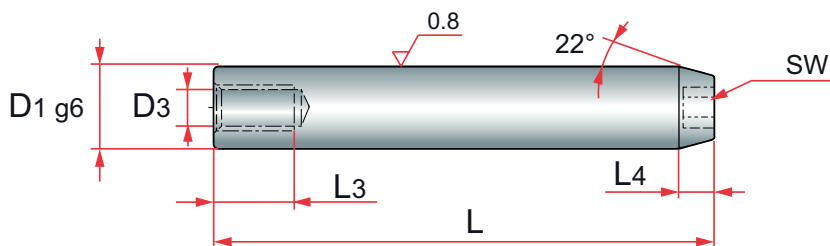
Inclined pin without collar
 Guia inclinada sin cabeza
 Skośny trzpień bez kołnierza oporowego
 Guia inclinada sem cabeça
 Doigt de démoulage sans tête



Mat. : 1.7131 58-60 HRC

SW	L4	D3	L3	D1	L	REF.
4	4	M6	16	10	60	BR1034/10x060
					70	BR1034/10x070
					80	BR1034/10x080
					90	BR1034/10x090
					100	BR1034/10x100
					120	BR1034/10x120
					140	BR1034/10x140
					5	5
80	BR1034/12x080					
100	BR1034/12x100					
120	BR1034/12x120					
140	BR1034/12x140					
180	BR1034/12x180					
14	60	BR1034/14x060				
	80	BR1034/14x080				
	100	BR1034/14x100				
	120	BR1034/14x120				
	140	BR1034/14x140				
	160	BR1034/14x160				
180	BR1034/14x180					
200	BR1034/14x200					

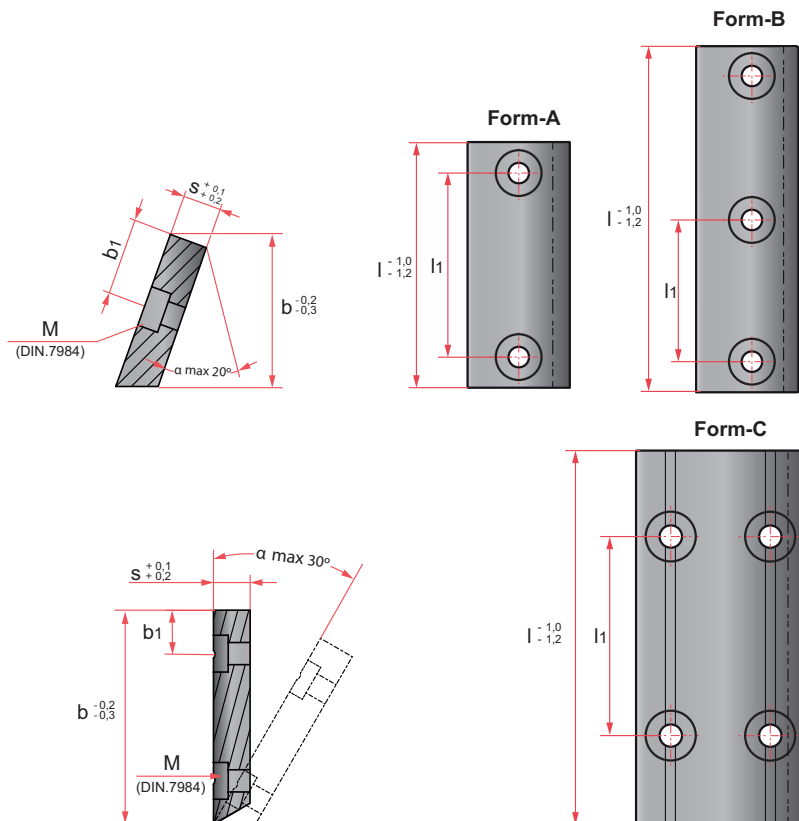
SW	L4	D3	L3	D1	L	REF.	
6	5	M8	25	16	60	BR1034/16x060	
					80	BR1034/16x080	
					100	BR1034/16x100	
					120	BR1034/16x120	
					140	BR1034/16x140	
					160	BR1034/16x160	
					180	BR1034/16x180	
					200	BR1034/16x200	
					220	BR1034/16x220	
					240	BR1034/16x240	
					18	60	BR1034/18x060
						80	BR1034/18x080
				100		BR1034/18x100	
				120		BR1034/18x120	
				140		BR1034/18x140	
				160		BR1034/18x160	
				180	BR1034/18x180		
				200	BR1034/18x200		
220	BR1034/18x220						
240	BR1034/18x240						
260	BR1034/18x260						



SW	L4	D3	L3	D1	L	REF.
8	7	M10	30	20	80	BR1034/20x080
					100	BR1034/20x100
					120	BR1034/20x120
					140	BR1034/20x140
					160	BR1034/20x160
					180	BR1034/20x180
					200	BR1034/20x200
					220	BR1034/20x220
					240	BR1034/20x240
					260	BR1034/20x260
					280	BR1034/20x280
					22	60
				80		BR1034/22x080
				100		BR1034/22x100
				120		BR1034/22x120
				140		BR1034/22x140
				160		BR1034/22x160
				180		BR1034/22x180
				200		BR1034/22x200
				220	BR1034/22x220	
240	BR1034/22x240					
260	BR1034/22x260					

SW	L4	D3	L3	D1	L	REF.			
8	7	M12	35	24	80	BR1034/24x080			
					100	BR1034/24x100			
					120	BR1034/24x120			
					140	BR1034/24x140			
					160	BR1034/24x160			
					180	BR1034/24x180			
					200	BR1034/24x200			
					220	BR1034/24x220			
					240	BR1034/24x240			
					280	BR1034/24x280			
					M16	45	30	100	BR1034/30x100
								120	BR1034/30x120
		140	BR1034/30x140						
		160	BR1034/30x160						
		180	BR1034/30x180						
		200	BR1034/30x200						
		220	BR1034/30x220						
		240	BR1034/30x240						
		260	BR1034/30x260						

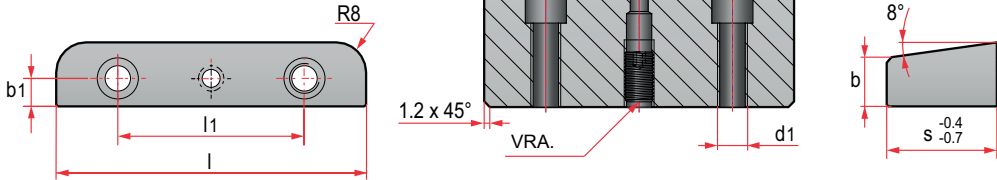
Wear plate
 Placa de presion
 Płyta dociskowa
 Placa de pressão
 Plaque de pression



Mat. : 1.2379 58-60 HRC

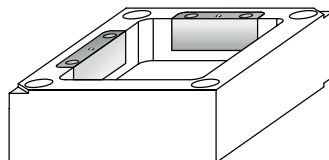
Form	b1	M	s	l1	b	l	REF.
A	7,45	M5	6	30	14	48	BR3030/14x048
A				44		72	BR3030/14x072
B				39		98	BR3030/14x098
A	10,10	M5	6	30	19	48	BR3030/19x048
A				44		72	BR3030/19x072
B				39		98	BR3030/19x098
A	14,90	M5	6	30	28	48	BR3030/28x048
A				44		72	BR3030/28x072
B				39		98	BR3030/28x098
B				56		140	BR3030/28x140
C	13	M6	8	90	64	160	BR3030/64x160

Positioning wedge
 Cuña de posicionamiento
 Klin ustalający pozycję
 Cunha posicionamento
 Coin de positionnement

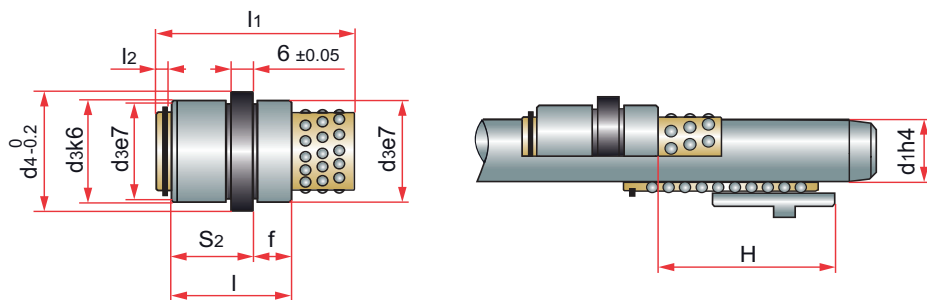


Mat. 1.2842 - Hardness: 58 ± 2 HRC.

b_1	l_1	d_1	M	b	l	s	VRA	Descripción
7,5	36	M8	M6	13	59	20	M8x10	BR2670-13- 59-20
						24	M8x12	BR2670-13- 59-24
						30	M8x16	BR2670-13- 59-30
	50				83	20	M8x10	BR2670-13- 83-20
						24	M8x12	BR2670-13- 83-24
						30	M8x16	BR2670-13- 83-30
	68				113	20	M8x10	BR2670-13-113-20
						24	M8x12	BR2670-13-113-24
						30	M8x16	BR2670-13-113-30
9	46	M10	M8	16	77	24	M10x12	BR2670-16- 77-24
						30	M10x16	BR2670-16- 77-30
						38	M10x25	BR2670-16- 77-38
	65				107	24	M10x12	BR2670-16-107-24
						30	M10x16	BR2670-16-107-30
						38	M10x25	BR2670-16-107-38
	84				137	24	M10x12	BR2670-16-137-24
						30	M10x16	BR2670-16-137-30
						38	M10x25	BR2670-16-137-38
10,5	62	M10	M8	19	101	30	M10x16	BR2670-19-101-30
						38	M10x25	BR2670-19-101-38
						45	M10x30	BR2670-19-101-45
	80				131	30	M10x16	BR2670-19-131-30
						38	M10x25	BR2670-19-131-38
						45	M10x30	BR2670-19-131-45
	98				161	30	M10x16	BR2670-19-161-30
						38	M10x25	BR2670-19-161-38
						45	M10x30	BR2670-19-161-45

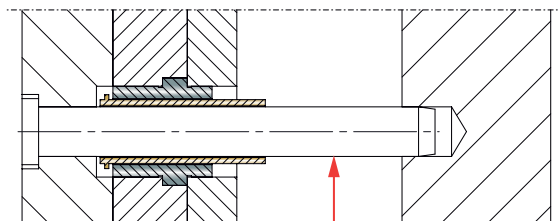


Ball guide bush
 Casquillo de bolas
 Koszyk kulkowy
 Casquilho de esferas
 Unité de guidage à billes



Hardness: 58 ± 2 HRC.

f	d3	d4	S2	l	l2	H max.	d1	l1	REF.
6	22	26	18	24	2,1	50	12	40	BR12/12x40
						82		56	BR12/12x56
11	30	35	23	34	3	44	18	45	BR12/18x45
						66		56	BR12/18x56
						96		71	BR12/18x71
21	46	52	33	54	4,8	32	30	56	BR12/30x56
						70		75	BR12/30x75
						110		95	BR12/30x95

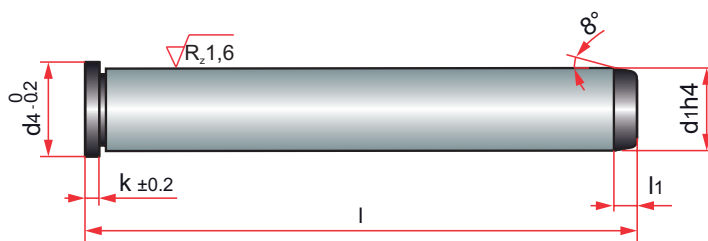


BR012

Guide pillar for ball guiding unit
 Columna guía para casquillo de bolas
 Słup prowadzący do koszyka kulkowego
 Coluna guia para casquilho de esferas
 Colonne de guidage pour bague a billes

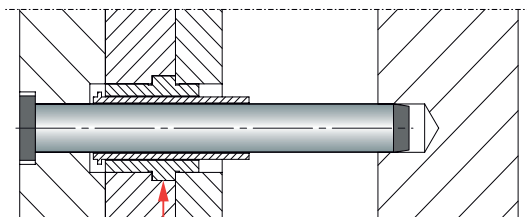


2



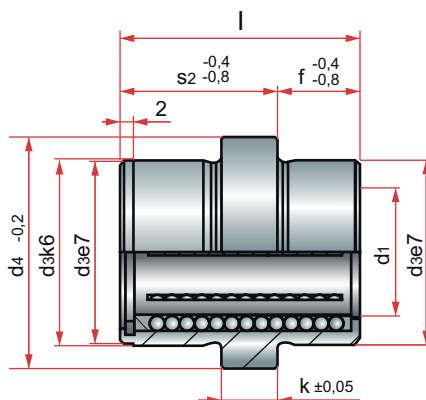
Hardness: 58 ± 2 HRC.

L1	K	D4	D1	L	REF.
4	4	16	12	80	BR012/12x080
				100	BR012/12x100
				120	BR012/12x120
7	6	22	18	120	BR012/18x120
				140	BR012/18x140
				160	BR012/18x160
		36	30	160	BR012/30x160
				200	BR012/30x200
				240	BR012/30x240



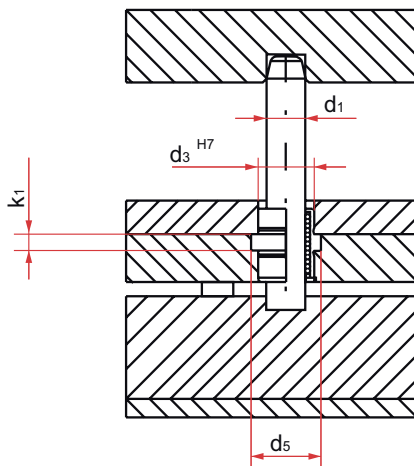
BR12

Lineal ball bearings
 Casquillo lineal de bolas
 Tuleja z rotacyjnym systemem kulkowym
 Rolamentos lineares
 Bague épaulée guidage à bille



Mat. 1.3505 - Hardness: Bush 60-62 HRC. Ball 62-67 HRC.

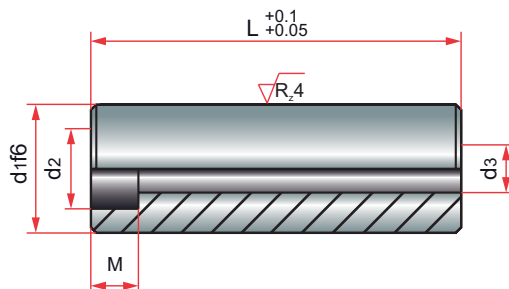
l	f	k	k1	d5	d3	d4	s2	d1	REF.
26	9	6	6,3	29	24	28	17	12	BR13/12x17
39	17			37	32	36	22	18	BR13/18x22
29	12			44	39	43	17	24	BR13/24x17
39	17			55	50	54	22	30	BR13/30x22
				61	56	60		36	BR13/36x22
				75	70	74		48	BR13/48x22



Support pillar
 Columna de apoyo
 Słup podporowy
 Coluna de suporte
 Plot de soutien

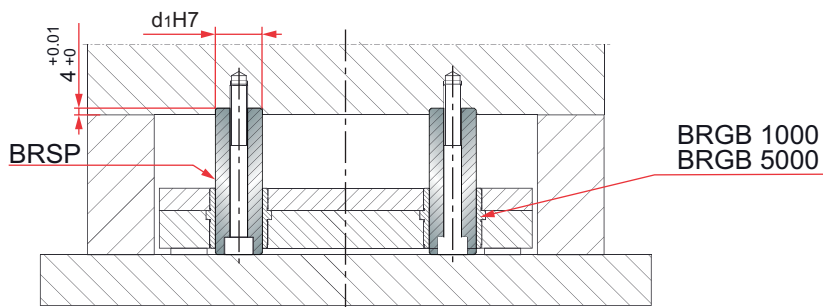


2

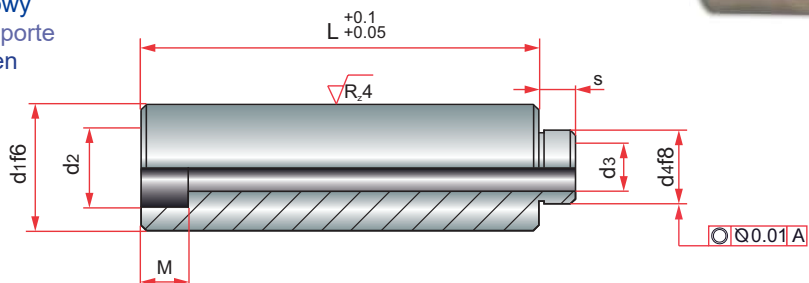


Hardness: 58 ± 2 HRC.

M	d2	d3	d1	L	REF.
9	15	9	24	50	BRSP/24x050
				60	BRSP/24x060
				70	BRSP/24x070
				80	BRSP/24x080
				90	BRSP/24x090
				100	BRSP/24x100
11	18	11	36	60	BRSP/36x060
				70	BRSP/36x070
				80	BRSP/36x080
				90	BRSP/36x090
				100	BRSP/36x100
				120	BRSP/36x120
				140	BRSP/36x140
13	20	13	48	80	BRSP/48x080
				90	BRSP/48x090
				100	BRSP/48x100
				120	BRSP/48x120
				140	BRSP/48x140
				160	BRSP/48x160

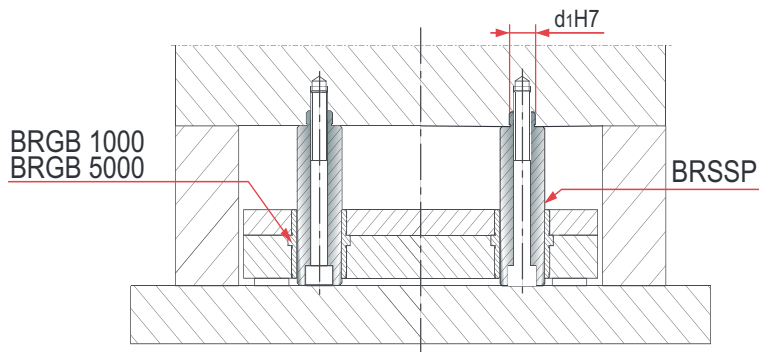


Spigotted support pillar
 Columna de apoyo
 Słup podporowy
 Coluna de suporte
 Plot de soutien



Hardness: 58 ± 2 HRC.

M	d2	d3	s	d4	d1	L	REF.
9	15	9	7	14	24	36	BRSSP/24x036
						46	BRSSP/24x046
						56	BRSSP/24x056
						76	BRSSP/24x076
						96	BRSSP/24x096
11	18	11	9	18	36	46	BRSSP/36x046
						56	BRSSP/36x056
						76	BRSSP/36x076
						96	BRSSP/36x096
						116	BRSSP/36x116
13	20	13	10	20	48	96	BRSSP/48x096
						116	BRSSP/48x116
						136	BRSSP/48x136
						156	BRSSP/48x156



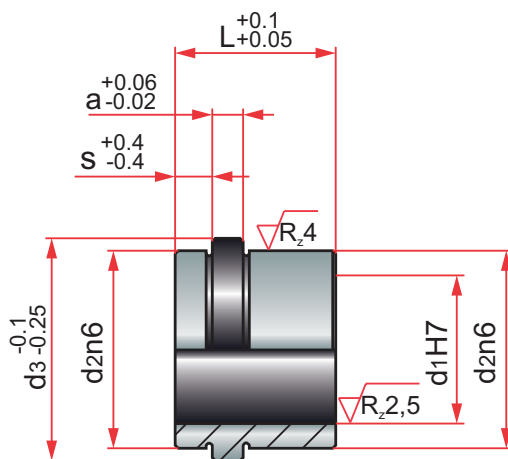
BRGB1000



Support pillar bushes
 Casquillo para columna de apoyo
 Tuleja prowadząca
 Casquilho para coluna de suporte
 Douille de guidage pour plot de soutien

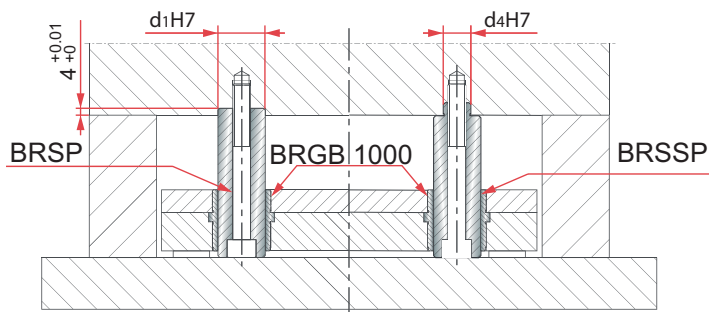


2



Hardness: 58 ± 2 HRC.

a	S	d3	d2	d1	L	REF.
5	6	36	32	24	26	BRGB/1000
		48	44	36	30	BRGB/1001
6	10	62	58	48	40	BRGB/1002



BRGB5000



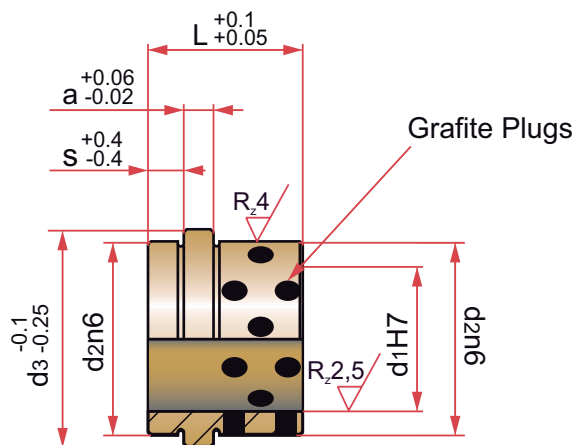
Support pillar oilles bushes

Casquillo autolubricado para columna de apoyo

Tuleja prowadząca samosmarująca

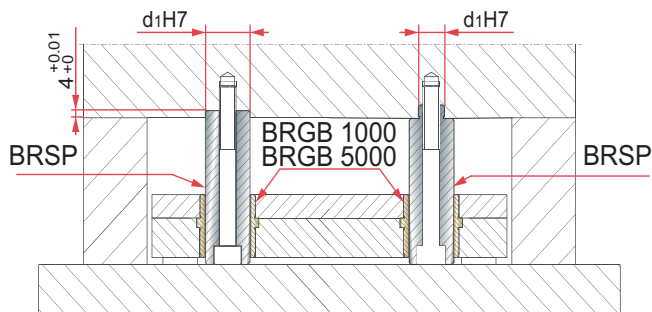
Casquilho para coluna de suporte com grafite

Douille de guidage de bronze avec inserts graphite de soutien

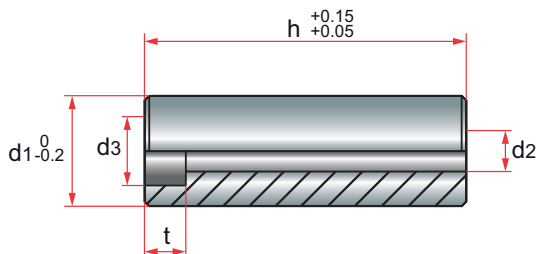


Mat. : Aluminium Bronze + Graphite Inserts.

a	S	d3	d2	d1	L	REF.
5	6	36	32	24	26	BRGB/5000
		48	44	36	30	BRGB/5001
6	10	62	58	48	40	BRGB/5002



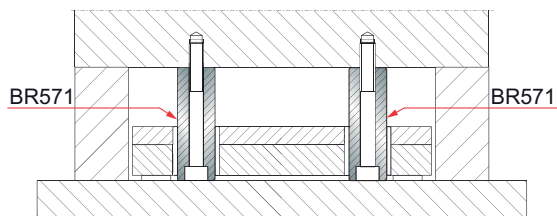
Support pillar
 Columna de apoyo
 Trzpień podporowy
 Coluna de soporte
 Plot de soutien



Mat. : 1.1730 / 640 N/mm².

t	d3	d2	d1	h	REF.		
9	15	9	32	36	BR571/ 32x036		
				46	BR571/ 32x046		
				56	BR571/ 32x056		
				66	BR571/ 32x066		
				76	BR571/ 32x076		
				86	BR571/ 32x086		
				96	BR571/ 32x096		
				116	BR571/ 32x116		
11	18	11	40	46	BR571/ 40x046		
				56	BR571/ 40x056		
				66	BR571/ 40x066		
				76	BR571/ 40x076		
				86	BR571/ 40x086		
				96	BR571/ 40x096		
14	20	14	50	56	BR571/ 50x056		
				66	BR571/ 50x066		
				76	BR571/ 50x076		
				86	BR571/ 50x086		
				96	BR571/ 50x096		
				116	BR571/ 50x116		
			63	63	63	56	BR571/ 63x056
						66	BR571/ 63x066
						76	BR571/ 63x076

t	d3	d2	d1	h	REF.		
14	20	14	63	86	BR571/ 63x086		
				96	BR571/ 63x096		
				116	BR571/ 63x116		
				136	BR571/ 63x136		
				156	BR571/ 63x156		
				176	BR571/ 63x176		
				196	BR571/ 63x196		
				236	BR571/ 63x236		
18	26	18	80	76	BR571/ 80x076		
				86	BR571/ 80x086		
				96	BR571/ 80x096		
				116	BR571/ 80x116		
				136	BR571/ 80x136		
				156	BR571/ 80x156		
			100	100	100	96	BR571/100x096
						116	BR571/100x116
						136	BR571/100x136
						156	BR571/100x156
						176	BR571/100x176
						236	BR571/100x236



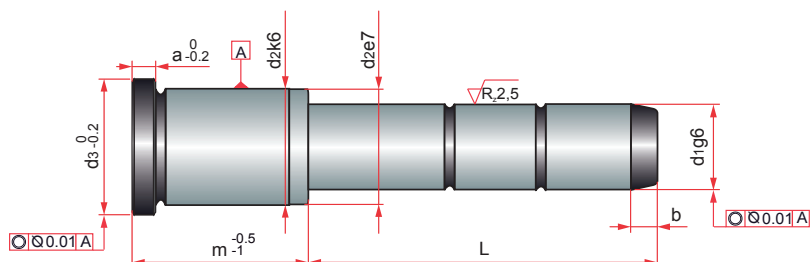
Stepped guide pillar BRGC

Guía de doble diámetro BRGC

Słup z dwiema średnicami pasowania BRGC

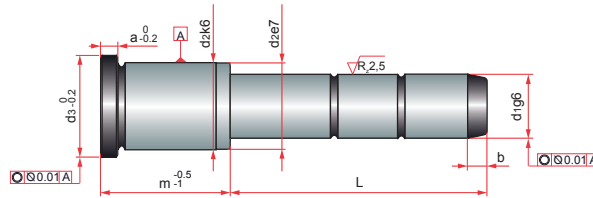
Guia dois corpos BRGC

Colonne de guidage epaulée monobloc type BRGC



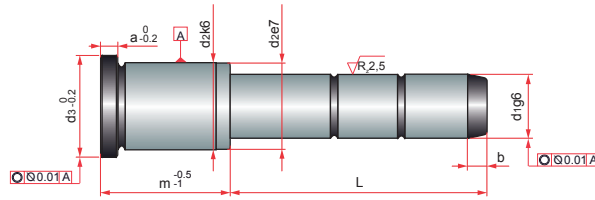
Hardness: 58 ± 2 HRC.

a	b	d3	d2	d1	m	L	REF.				
4	4	17	14	10	17	26	BRGC/10x017x026				
						36	BRGC/10x017x036				
						50	18	BRGC/10x050x018			
						26	18	BRGC/10x050x026			
						70	18	BRGC/10x070x018			
						80	18	BRGC/10x080x018			
						20	16	12	17	17	BRGC/12x017x018
										26	BRGC/12x017x026
										36	BRGC/12x017x036
										45	BRGC/12x017x045
	65	BRGC/12x017x065									
	21	26	BRGC/12x021x026								
	36	BRGC/12x021x036									
	45	BRGC/12x021x045									
	65	BRGC/12x021x065									
	90	BRGC/12x021x090									
	26	16	12	17	26	BRGC/12x026x026					
					36	BRGC/12x026x036					
					45	BRGC/12x026x045					
					65	BRGC/12x026x065					
90					BRGC/12x026x090						
34					16	12	17	26	BRGC/12x034x026		
								36	BRGC/12x034x036		
								45	BRGC/12x034x045		
								65	BRGC/12x034x065		
								90	BRGC/12x034x090		
4	4	20	16	12	34	90	BRGC/12x034x090				
					44	26	BRGC/12x044x026				
					36	BRGC/12x044x036					
					45	BRGC/12x044x045					
					65	BRGC/12x044x065					
					90	BRGC/12x044x090					
					24	20	16	20	54	26	BRGC/12x054x026
									36	BRGC/12x054x036	
									45	BRGC/12x054x045	
									65	BRGC/12x054x065	
90	BRGC/12x054x090										
18	BRGC/16x020x018										
26	BRGC/16x020x026										
36	BRGC/16x020x036										
45	BRGC/16x020x045										
65	BRGC/16x020x065										
90	BRGC/16x020x090										
26	20	16	26	26	BRGC/16x026x026						
				36	BRGC/16x026x036						
				45	BRGC/16x026x045						
				65	BRGC/16x026x065						
				90	BRGC/16x026x090						
150	20	16	26	125	BRGC/16x026x125						
				26	BRGC/16x026x026						
				36	BRGC/16x026x036						
				45	BRGC/16x026x045						
				65	BRGC/16x026x065						



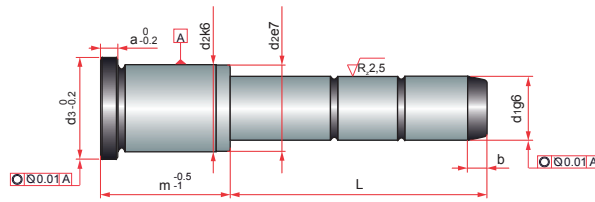
a	b	d3	d2	d1	m	L	REF.
4	4	24	20	16	34	26	BRGC/16x034x026
						36	BRGC/16x034x036
						45	BRGC/16x034x045
						65	BRGC/16x034x065
						90	BRGC/16x034x090
						125	BRGC/16x034x125
						150	BRGC/16x034x150
					44	26	BRGC/16x044x026
						36	BRGC/16x044x036
						45	BRGC/16x044x045
						70	BRGC/16x044x070
						90	BRGC/16x044x090
						125	BRGC/16x044x125
						150	BRGC/16x044x150
					54	26	BRGC/16x054x026
						36	BRGC/16x054x036
						50	BRGC/16x054x050
						70	BRGC/16x054x070
						90	BRGC/16x054x090
						125	BRGC/16x054x125
						150	BRGC/16x054x150
					64	36	BRGC/16x064x036
						50	BRGC/16x064x050
						70	BRGC/16x064x070
						90	BRGC/16x064x090
						125	BRGC/16x064x125
					74	36	BRGC/16x074x036
						50	BRGC/16x074x050
70	BRGC/16x074x070						
90	BRGC/16x074x090						
125	BRGC/16x074x125						

a	b	d3	d2	d1	m	L	REF.						
4	4	24	20	16	74	150	BRGC/16x074x150						
						94	36	BRGC/16x094x036					
							50	BRGC/16x094x050					
							70	BRGC/16x094x070					
							90	BRGC/16x094x090					
							125	BRGC/16x094x125					
							150	BRGC/16x094x150					
							6	6	30	25	18	20	26
						36							BRGC/18x020x036
						45							BRGC/18x020x045
70	BRGC/18x020x070												
90	BRGC/18x020x090												
125	BRGC/18x020x125												
150	BRGC/18x020x150												
26	26	BRGC/18x026x026											
	36	BRGC/18x026x036											
	45	BRGC/18x026x045											
	70	BRGC/18x026x070											
	100	BRGC/18x026x100											
	125	BRGC/18x026x125											
	150	BRGC/18x026x150											
34	36	BRGC/18x034x036											
	45	BRGC/18x034x045											
	70	BRGC/18x034x070											
	100	BRGC/18x034x100											
	125	BRGC/18x034x125											
	150	BRGC/18x034x150											
44	45	BRGC/18x044x045											
	70	BRGC/18x044x070											
	90	BRGC/18x044x090											
	125	BRGC/18x044x125											
	150	BRGC/18x044x150											



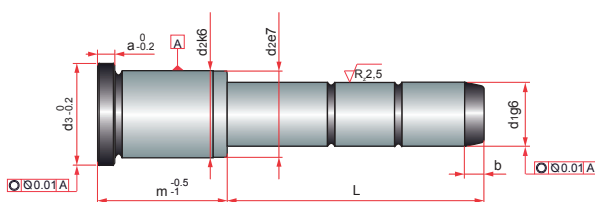
a	b	d3	d2	d1	m	L	REF.	
6	6	30	25	18	54	36	BRGC/18x054x036	
						50	BRGC/18x054x050	
						70	BRGC/18x054x070	
						100	BRGC/18x054x100	
						125	BRGC/18x054x125	
						150	BRGC/18x054x150	
					64	36	BRGC/18x064x036	
						50	BRGC/18x064x050	
						70	BRGC/18x064x070	
						100	BRGC/18x064x100	
						125	BRGC/18x064x125	
						150	BRGC/18x064x150	
						74	36	BRGC/18x074x036
							50	BRGC/18x074x050
							70	BRGC/18x074x070
		100	BRGC/18x074x100					
		94	125	BRGC/18x074x125				
			150	BRGC/18x074x150				
			36	BRGC/18x094x036				
			50	BRGC/18x094x050				
			70	BRGC/18x094x070				
			100	BRGC/18x094x100				
		115	125	BRGC/18x094x125				
			150	BRGC/18x094x150				
			70	BRGC/18x115x070				
			100	BRGC/18x115x100				
			125	BRGC/18x115x125				
			150	BRGC/18x115x150				
		35	30	22	26	36	BRGC/22x026x036	
						45	BRGC/22x026x045	

a	b	d3	d2	d1	m	L	REF.
6	6	35	30	22	26	70	BRGC/22x026x070
						100	BRGC/22x026x100
						125	BRGC/22x026x125
						150	BRGC/22x026x150
						175	BRGC/22x026x175
						34	36
					45	BRGC/22x034x045	
					70	BRGC/22x034x070	
					100	BRGC/22x034x100	
					125	BRGC/22x034x125	
					150	BRGC/22x034x150	
					175	BRGC/22x034x175	
					200	BRGC/22x034x200	
					44	36	BRGC/22x044x036
						45	BRGC/22x044x045
		70	BRGC/22x044x070				
		100	BRGC/22x044x100				
		125	BRGC/22x044x125				
		150	BRGC/22x044x150				
		175	BRGC/22x044x175				
		200	BRGC/22x044x200				
		54	36	BRGC/22x054x036			
			50	BRGC/22x054x050			
			70	BRGC/22x054x070			
			100	BRGC/22x054x100			
			125	BRGC/22x054x125			
			150	BRGC/22x054x150			
		64	175	BRGC/22x054x175			
			200	BRGC/22x054x200			
			36	BRGC/22x064x036			
50	BRGC/22x064x050						
70	BRGC/22x064x070						



a	b	d3	d2	d1	m	L	REF.	
6	6	35	30	22	64	100	BRGC/22x064x100	
						125	BRGC/22x064x125	
						150	BRGC/22x064x150	
						175	BRGC/22x064x175	
						200	BRGC/22x064x200	
						74	36	BRGC/22x074x036
							50	BRGC/22x074x050
							70	BRGC/22x074x070
							100	BRGC/22x074x100
							125	BRGC/22x074x125
					150		BRGC/22x074x150	
					175		BRGC/22x074x175	
					200		BRGC/22x074x200	
					94	36	BRGC/22x094x036	
						50	BRGC/22x094x050	
						70	BRGC/22x094x070	
						100	BRGC/22x094x100	
						125	BRGC/22x094x125	
						150	BRGC/22x094x150	
						175	BRGC/22x094x175	
						200	BRGC/22x094x200	
					115	70	BRGC/22x115x070	
						100	BRGC/22x115x100	
						125	BRGC/22x115x125	
						150	BRGC/22x115x150	
						175	BRGC/22x115x175	
						200	BRGC/22x115x200	
					8	7	45	40
45	BRGC/30x026x045							
70	BRGC/30x026x070							
100	BRGC/30x026x100							
175	BRGC/30x026x175							
125	BRGC/30x026x125							

a	b	d3	d2	d1	m	L	REF.					
8	7	45	40	30	26	150	BRGC/30x026x150					
						34	36	BRGC/30x034x036				
							45	BRGC/30x034x045				
						44	70	BRGC/30x034x070				
							100	BRGC/30x034x100				
							125	BRGC/30x034x125				
							150	BRGC/30x034x150				
							175	BRGC/30x034x175				
							200	BRGC/30x034x200				
						54	50	BRGC/30x044x050				
					70		BRGC/30x044x070					
					90		BRGC/30x044x090					
					125		BRGC/30x044x125					
					150		BRGC/30x044x150					
					175		BRGC/30x044x175					
					200		BRGC/30x044x200					
					64		36	BRGC/30x054x036				
						50	BRGC/30x054x050					
						70	BRGC/30x054x070					
						100	BRGC/30x054x100					
						125	BRGC/30x054x125					
						150	BRGC/30x054x150					
					64	30	40	30	26	175	BRGC/30x054x175	
										200	BRGC/30x054x200	
										64	36	BRGC/30x064x036
											50	BRGC/30x064x050
											70	BRGC/30x064x070
											100	BRGC/30x064x100
					64	30	40	30	26	125	BRGC/30x064x125	
										150	BRGC/30x064x150	
										175	BRGC/30x064x175	
										200	BRGC/30x064x200	



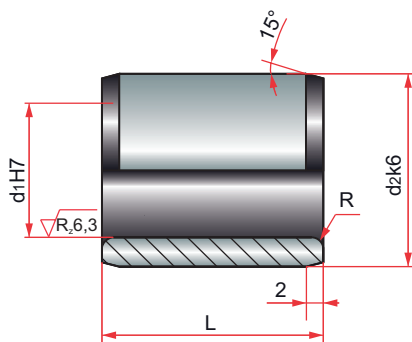
a	b	d3	d2	d1	m	L	REF.
8	7	45	40	30	74	36	BRGC/30x074x036
						50	BRGC/30x074x050
						70	BRGC/30x074x070
						100	BRGC/30x074x100
						125	BRGC/30x074x125
						150	BRGC/30x074x150
						175	BRGC/30x074x175
						200	BRGC/30x074x200
					94	36	BRGC/30x094x036
						50	BRGC/30x094x050
						70	BRGC/30x094x070
						100	BRGC/30x094x100
						125	BRGC/30x094x125
						150	BRGC/30x094x150
						175	BRGC/30x094x175
200	BRGC/30x094x200						
115	70	BRGC/30x115x070					

a	b	d3	d2	d1	m	L	REF.						
8	7	45	40	30	115	100	BRGC/30x115x100						
						125	BRGC/30x115x125						
						150	BRGC/30x115x150						
						175	BRGC/30x115x175						
						200	BRGC/30x115x200						
						134	36	BRGC/30x134x036					
							50	BRGC/30x134x050					
							70	BRGC/30x134x070					
						10	8	54	50	40	70	90	BRGC/40x070x090
												150	BRGC/40x070x150
												200	BRGC/40x070x200

Guide bush
 Casquillo guía liso
 Tuleja prowadząca
 Casquilho guia cementado
 Bague de guidage lisse



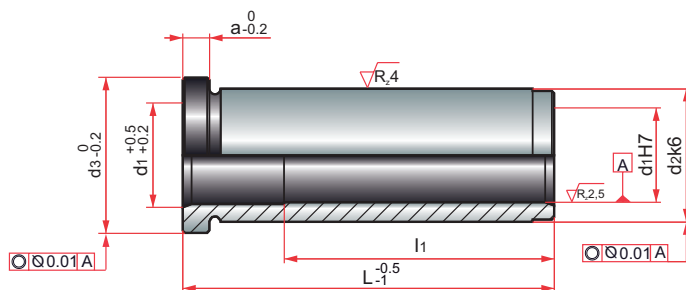
2



Hardness: 58 ± 2 HRC.

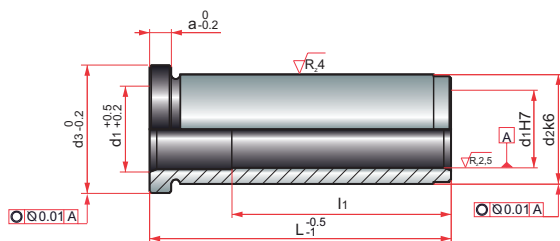
r	d2	d1	L	REF.	
1,5	14	10	9	BRC/10x09	
			17	BRC/10x17	
	20	14	12	BRC/12x17	
			16	21	BRC/14x21
				30	BRC/14x30
			16	21	BRC/16x21
30	BRC/16x30				
2	25	18	21	BRC/18x21	
			30	BRC/18x30	
	30	20	BRC/20x30		
		22	BRC/22x35		
2,5	35	25		BRC/25x35	
3,5	40	30	45	BRC/30x45	
	50	40	55	BRC/40x55	

Headed leader pin bushing BRCV
 Casquillo guía con valona BRCV
 Tuleja prowadząca bez kołnierza centrującego BRCV
 Casquilho cementado BRCV
 Bague de guidage a colerette type BRCV



Hardness: 58 ± 2 HRC.

a	l1	d3	d2	d1	L	REF.	
4	-	17	14	10	17	BRCV/10x017	
					26	BRCV/10x026	
					21	BRCV/12x021	
		30	20	16	12	26	BRCV/12x026
						35	BRCV/12x035
						45	BRCV/12x045
	-	24	20	14	21	BRCV/14x021	
					26	BRCV/14x026	
					35	BRCV/14x035	
					45	BRCV/14x045	
		30	-	-	16	21	BRCV/16x021
						26	BRCV/16x026
						35	BRCV/16x035
						45	BRCV/16x045
45	-	-	-	55	BRCV/16x055		
				65	BRCV/16x065		
				75	BRCV/16x075		
				95	BRCV/16x095		
				65	BRCV/18x065		
6	-	30	25	18	21	BRCV/18x021	
					26	BRCV/18x026	
					35	BRCV/18x035	
					45	BRCV/18x045	
					55	BRCV/18x055	
					65	BRCV/18x065	
					75	BRCV/18x075	
	45				BRCV/18x075		



a	l1	d3	d2	d1	L	REF.	
6	65	30	25	18	95	BRCV/18x095	
					115	BRCV/18x115	
	-	35	30	20	35	BRCV/20x035	
					55	BRCV/20x055	
	45	-	-	-	65	BRCV/20x065	
					75	BRCV/20x075	
	-	-	-	22	21	BRCV/22x021	
					26	BRCV/22x026	
					35	BRCV/22x035	
					45	BRCV/22x045	
					55	BRCV/22x055	
					65	BRCV/22x065	
					75	BRCV/22x075	
					95	BRCV/22x095	
8	-	40	35	25	35	BRCV/25x035	
					45	BRCV/25x045	
					55	BRCV/25x055	
					65	BRCV/25x065	
					75	BRCV/25x075	
	55	-	-	-	-	26	BRCV/30x026
						35	BRCV/30x035
						45	BRCV/30x045
						55	BRCV/30x055
						65	BRCV/30x065
-	45	40	30	65	BRCV/30x065		
				75	BRCV/30x075		
				95	BRCV/30x095		
				115	BRCV/30x115		
				135	BRCV/30x135		
				135	BRCV/30x135		
10	-	54	50	40	55	BRCV/40x055	
					75	BRCV/40x075	
	95				BRCV/40x095		
	135				BRCV/40x135		
65	-	-	-	-	75	BRCV/40x075	
					95	BRCV/40x095	

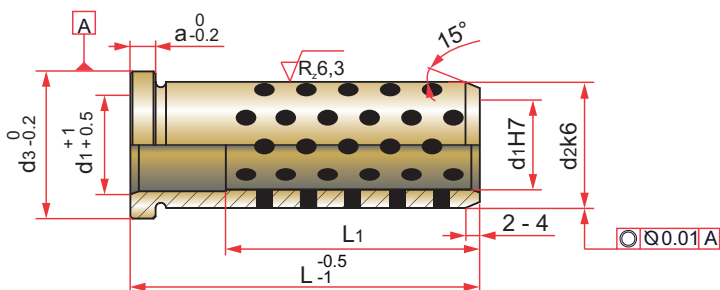
Special headed oilless bush

Casquillo autolubricado con valona

Tuleja prowadząca samosmarująca

Casquilho bronze alumínio com grafite

Bague bronze a collerette sans plot de centrage avec inserts graphite



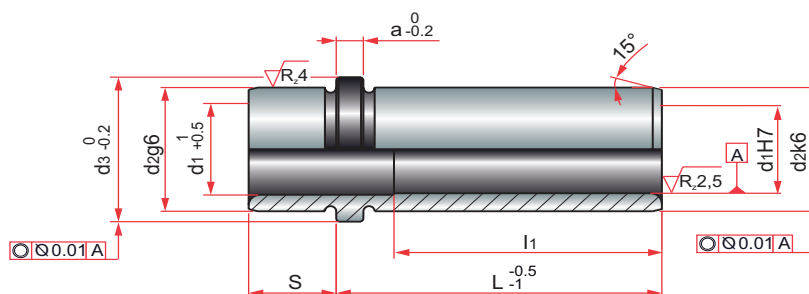
Mat. : Aluminium bronze + graphite inserts.

a	d3	d2	d1	L1	L	REF.	a	d3	d2	d1	L1	L	REF.		
4	24	20	16	-	21	BRCVBG/16x021	6	35	30	22	-	35	BRCVBG/22x035		
					26	BRCVBG/16x026						45	BRCVBG/22x045		
					35	BRCVBG/16x035						55	BRCVBG/22x055		
					45	BRCVBG/16x045						≥55	65	BRCVBG/22x065	
					55	BRCVBG/16x055							75	BRCVBG/22x075	
					≥45	65						BRCVBG/16x065	≥65	95	BRCVBG/22x095
						75						BRCVBG/16x075		26	BRCVBG/30x026
95	BRCVBG/16x095	35	BRCVBG/30x035												
6	30	25	18	-	21	BRCVBG/18x021	8	45	40	30	-	35	BRCVBG/30x035		
					26	BRCVBG/18x026						55	BRCVBG/30x055		
					35	BRCVBG/18x035						65	BRCVBG/30x065		
					45	BRCVBG/18x045						≥65	75	BRCVBG/30x075	
					55	BRCVBG/18x055							95	BRCVBG/30x095	
					≥45	65						BRCVBG/18x065	≥65	135	BRCVBG/30x135
						75						BRCVBG/18x075		55	BRCVBG/40x055
≥65	95	BRCVBG/18x095	≥65	95	BRCVBG/40x095										
	26	BRCVBG/22x026													

Special tailed leader pin bushing
 Casquillo guía con centrador
 Tuleja prowadząca z kołnierzem centrującym
 Casquilho dois corpos cementado
 Bague de guidage epaulee type



2



Hardness: 58 ± 2 HRC.

a	S	l1	d3	d2	d1	L	REF.
4	8	-	20	16	12	17	BRCV2/12x017
						26	BRCV2/12x026
						35	BRCV2/12x035
						45	BRCV2/12x045
						55	BRCV2/12x055
						35	
	12	-	24	20	16	17	BRCV2/16x017
						21	BRCV2/16x021
						26	BRCV2/16x026
						35	BRCV2/16x035
						45	BRCV2/16x045
						55	BRCV2/16x055
6	17	-	30	25	18	21	BRCV2/18x021
						26	BRCV2/18x026
						35	BRCV2/18x035
						45	BRCV2/18x045
						55	BRCV2/18x055
						55	

a	S	l1	d3	d2	d1	L	REF.				
6	17	55	30	25	18	95	BRCV2/18x095				
						-	35	30	22	21	BRCV2/22x021
										26	BRCV2/22x026
										35	BRCV2/22x035
										45	BRCV2/22x045
										55	BRCV2/22x055
		65									
		65	-	45	40	30	26	BRCV2/30x026			
							35	BRCV2/30x035			
							55	BRCV2/30x055			
							75	BRCV2/30x075			
							95	BRCV2/30x095			
115	BRCV2/30x115										
8	21	-	45	40	30	26	BRCV2/30x026				
						35	BRCV2/30x035				
						55	BRCV2/30x055				
						75	BRCV2/30x075				
						95	BRCV2/30x095				
						155	BRCV2/30x155				

BRCV2BG



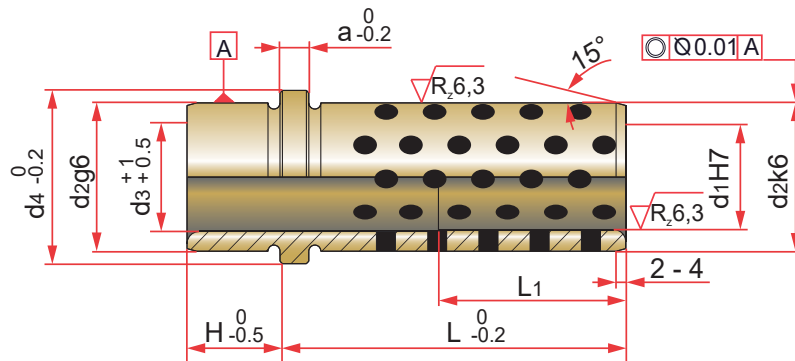
Tailed oilless bush BRCV2BG

Casquillo autolubricado con centrador BRCV2BG

Tuleja prowadząca z kołnierzem centrującym samosmarująca BRCV2BG

Casquilho dois corpos bronze alumínio com grafite BRCV2BG

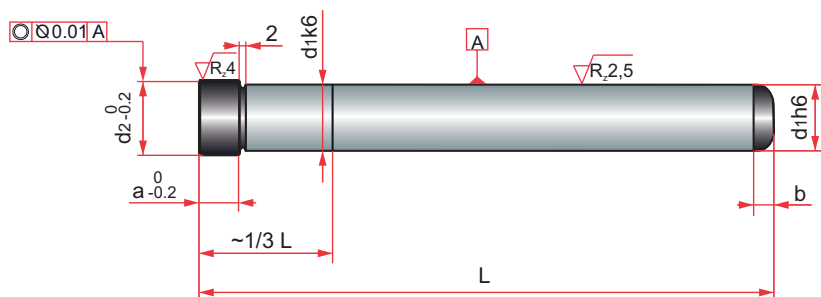
Bague bronze a collerette avec plot de centrage avec inserts graphite type BRCV2BG



Mat. : Aluminium bronze + graphite inserts.

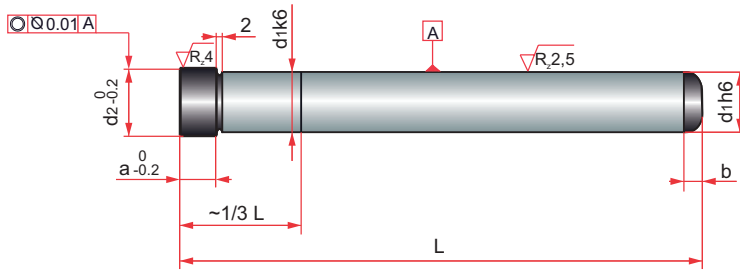
H	a	d3	d4	d2	d1	L1	L	REF.
8	4	12	20	16	12	-	17	BRCV2BG-12x17
12		16	24	20	16		21	BRCV2BG-16x21
							26	BRCV2BG-16x26
							35	BRCV2BG-16x35
17	6	18	30	25	18	-	21	BRCV2BG-18x21
							26	BRCV2BG-18x26
							35	BRCV2BG-18x35
		20	35	30	20		21	BRCV2BG-20x21
		26	BRCV2BG-20x26					
		22	35	30	22		21	BRCV2BG-22x21
		26	BRCV2BG-22x26					
					35	BRCV2BG-22x35		
					≥ 38	55	BRCV2BG-22x55	
21	8	30	45	40	30	-	35	BRCV2BG-30x35
							55	BRCV2BG-30x55
25		40	56	50	40		45	BRCV2BG-40x45
35	10	50	75	66	50		76	BRCV2BG-50x76

Angle pin
 Guía para corredera
 Słup skośny suwaka
 Coluna inclinada
 Doigt de demoulage



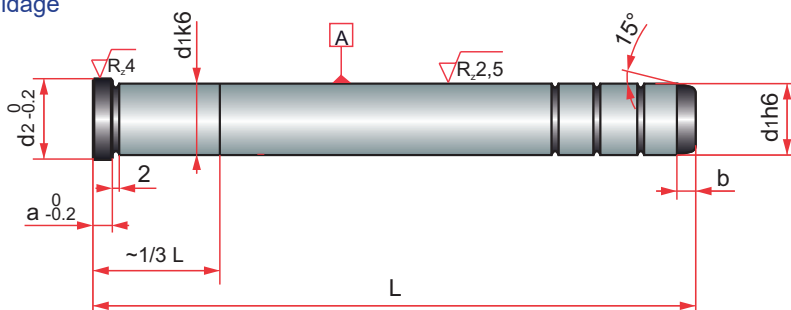
Hardness: 58 ± 2 HRC.

a	b	d2	d1	L	REF.	a	b	d2	d1	L	REF.				
8	3	12	10	44	BRG2/10x044	10	4	17	14	125	BRG2/14x125				
				52	BRG2/10x052					140	BRG2/14x140				
				65	BRG2/10x065					12	5	19	16	52	BRG2/16x052
				75	BRG2/10x075									65	BRG2/16x065
				85	BRG2/10x085									75	BRG2/16x075
				95	BRG2/10x095									85	BRG2/16x085
				105	BRG2/10x105									95	BRG2/16x095
	4	15	12	44	BRG2/12x044	105	BRG2/16x105								
				52	BRG2/12x052	115	BRG2/16x115								
				65	BRG2/12x065	125	BRG2/16x125								
				75	BRG2/12x075	140	BRG2/16x140								
				85	BRG2/12x085	170	BRG2/16x170								
				95	BRG2/12x095	200	BRG2/16x200								
				105	BRG2/12x105	250	BRG2/16x250								
				115	BRG2/12x115	14	6	22	18	65	BRG2/18x065				
				125	BRG2/12x125					75	BRG2/18x075				
				140	BRG2/12x140					85	BRG2/18x085				
				10	17					14	44	BRG2/14x044	95	BRG2/18x095	
52	BRG2/14x052	105	BRG2/18x105												
65	BRG2/14x065	115	BRG2/18x115												
75	BRG2/14x075	125	BRG2/18x125												
85	BRG2/14x085	140	BRG2/18x140												
95	BRG2/14x095	170	BRG2/18x170												
105	BRG2/14x105	200	BRG2/18x200												
115	BRG2/14x115	250	BRG2/18x250												



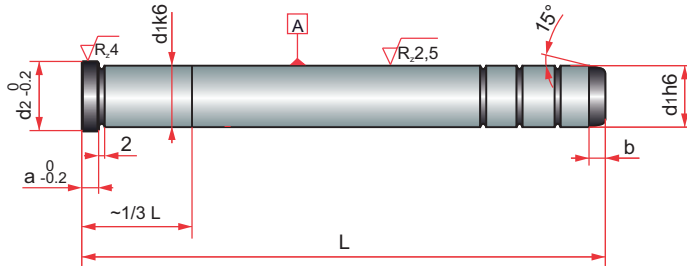
a	b	d2	d1	L	REF.
15	6	24	20	75	BRG2/20x075
				85	BRG2/20x085
				95	BRG2/20x095
				105	BRG2/20x105
				115	BRG2/20x115
				125	BRG2/20x125
				140	BRG2/20x140
				170	BRG2/20x170
				200	BRG2/20x200
				250	BRG2/20x250
				300	BRG2/20x300
18	7	30	25	75	BRG2/25x075
				85	BRG2/25x085
				95	BRG2/25x095
				105	BRG2/25x105
				115	BRG2/25x115
				125	BRG2/25x125
				140	BRG2/25x140
				170	BRG2/25x170
				200	BRG2/25x200
				250	BRG2/25x250
				315	BRG2/25x315
350	BRG2/25x350				
20	7	35	30	200	BRG2/30x200
				250	BRG2/30x250
				315	BRG2/30x315
				350	BRG2/30x350
				400	BRG2/30x400

Guide pillar
 Guía lisa
 Słup
 Coluna lisa
 Colonne de guidage



Hardness: 58 ± 2 HRC.

b	a	d2	d1	L	REF.	b	a	d2	d1	L	REF.				
3	4	12	10	44	BRG/10x044	4	5	17	14	105	BRG/14x105				
				52	BRG/10x052					115	BRG/14x115				
				65	BRG/10x065					125	BRG/14x125				
				75	BRG/10x075					140	BRG/14x140				
				85	BRG/10x085					170	BRG/14x170				
				95	BRG/10x095					5	6	19	16	52	BRG/16x052
				105	BRG/10x105									65	BRG/16x065
				115	BRG/10x115									75	BRG/16x075
				125	BRG/10x125									85	BRG/16x085
				4	15									12	44
52	BRG/12x052	105	BRG/16x105												
65	BRG/12x065	115	BRG/16x115												
75	BRG/12x075	125	BRG/16x125												
85	BRG/12x085	140	BRG/16x140												
95	BRG/12x095	170	BRG/16x170												
105	BRG/12x105	200	BRG/16x200												
115	BRG/12x115	6	22			18	65	BRG/18x065							
125	BRG/12x125						75	BRG/18x075							
140	BRG/12x140						85	BRG/18x085							
5	17			14	44		BRG/14x044	95	BRG/18x095						
		52	BRG/14x052		105	BRG/18x105									
		65	BRG/14x065		115	BRG/18x115									
		75	BRG/14x075		125	BRG/18x125									
		85	BRG/14x085		140	BRG/18x140									
		95	BRG/14x095		170	BRG/18x170									

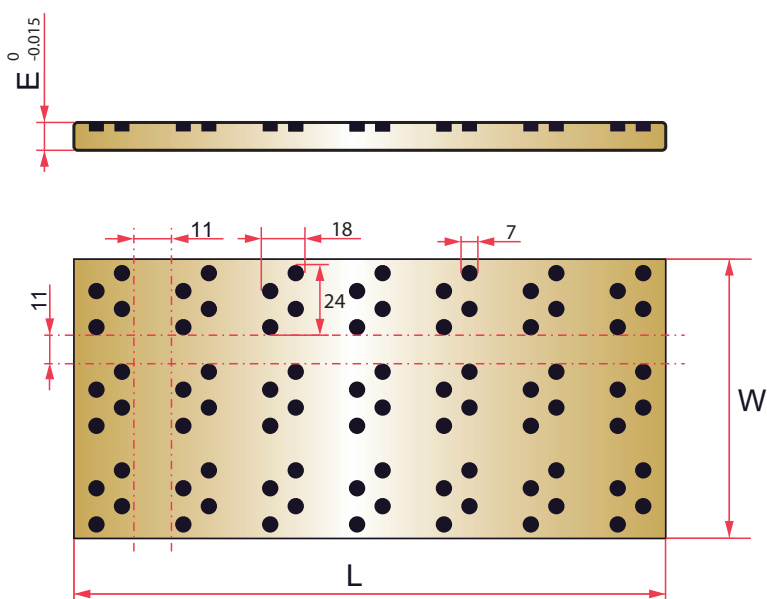


b	a	d2	d1	L	REF.
6	6	22	18	200	BRG/18x200
				75	BRG/20x075
	7	24	20	85	BRG/20x085
				95	BRG/20x095
				105	BRG/20x105
				115	BRG/20x115
				125	BRG/20x125
				140	BRG/20x140
				170	BRG/20x170
				200	BRG/20x200
250	BRG/20x250				
7	8	30	25	75	BRG/25x075
				85	BRG/25x085
				95	BRG/25x095
				105	BRG/25x105
				115	BRG/25x115
				125	BRG/25x125
				140	BRG/25x140
				170	BRG/25x170
				200	BRG/25x200
250	BRG/25x250				
8	10	35	30	95	BRG/30x095
				105	BRG/30x105
				115	BRG/30x115
				125	BRG/30x125
				140	BRG/30x140
				170	BRG/30x170
				200	BRG/30x200
250	BRG/30x250				

Special oilless wear plate BRAUH
 Placa de bronce con grafito BRAUH
 Płytką samosmarująca grafitem typ BRAUH
 Placa de deslize bronze alumínio com grafito BRAUH
 Plaque de frottement autolubrifiée BRAUH

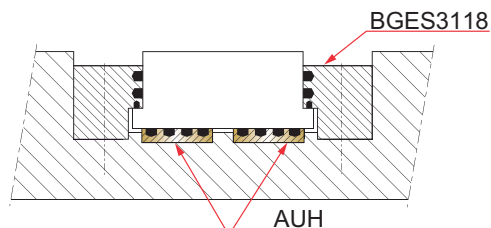
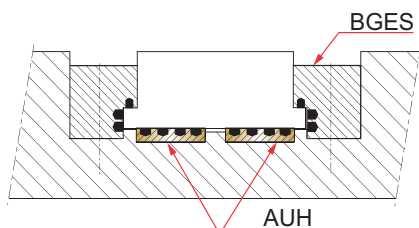


2

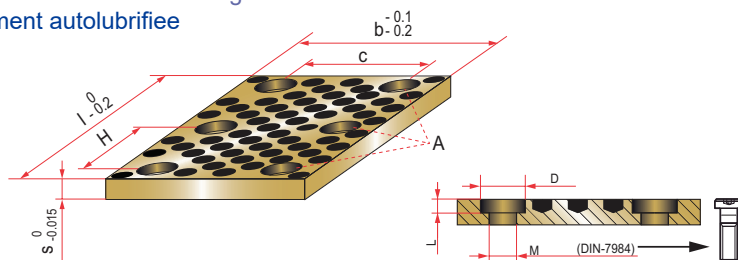


Mat. : 2.0598 ≈ 180 HB / Graphit. T max. = 200° C.

W	E	L	REF.
100	6	200	BRAUH

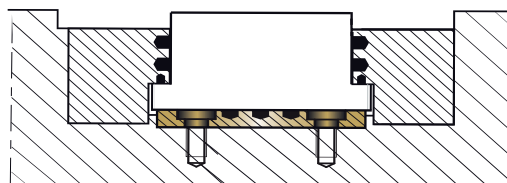


Special oilless wear plate
 Placa de bronce con grafito
 Płytką samosmarująca długa z grafitem
 Placa de deslize bronze alumínio com grafite
 Plaque de frottement autolubrifiée

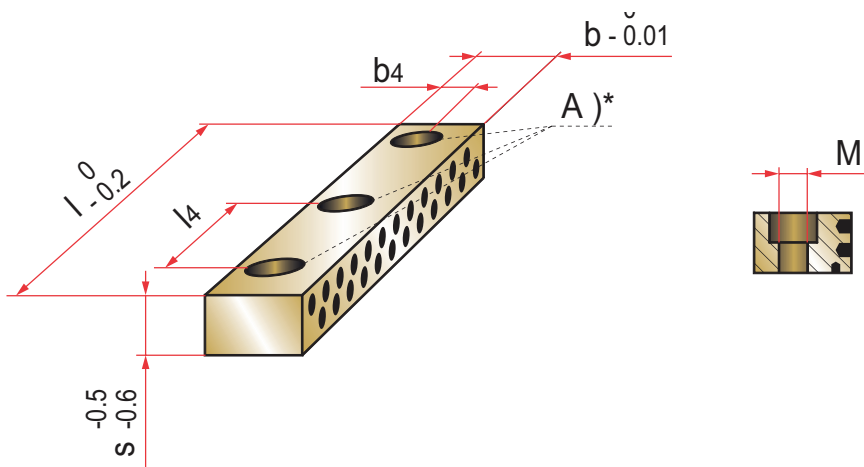


Mat. : 2.0598 ≈ 180 HB / Graphit. T max. = 200° C.

D	L	M	A (holes)	C	H	b	s	I	REF.				
9	4	M5	2	-	20,0	25	6	40	BR3176/25x6x040				
					26,0			50	BR3176/25x6x050				
					39,0			63	BR3176/25x6x063				
					56,0			80	BR3176/25x6x080				
					76,0			100	BR3176/25x6x100				
					125			BR3176/25x6x125					
			2		26,0	32		50	BR3176/32x6x050				
					39,0			63	BR3176/32x6x063				
					56,0			80	BR3176/32x6x080				
					76,0			100	BR3176/32x6x100				
					125			BR3176/32x6x125					
					3			50,5	40	68,0	160	BR3176/32x6x160	
								4		20	39,0	63	BR3176/40x6x063
										56,0	80	BR3176/40x6x080	
										76,0	100	BR3176/40x6x100	
					125				BR3176/40x6x125				
6	50,5	40	68,0	160	BR3176/40x6x160								
	8		58,0	200	BR3176/40x6x200								
			4	24	56,0	80	BR3176/50x8x080						
				76,0	100	BR3176/50x8x100							
50,5		125		BR3176/50x8x125									
68,0	160	BR3176/50x8x160											
8	58,0	40	74,0	200	BR3176/50x8x200								
	250		BR3176/50x8x250										



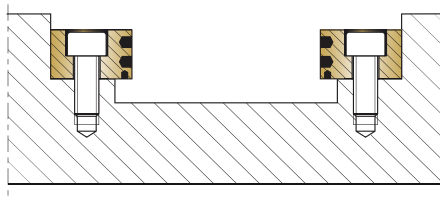
Special oilless wear plate
 Placa de bronce con grafite
 Płytką samosmarująca długa z grafitem
 Placa de deslize bronze alumínio com grafite
 Plaque de frottement autolubrifiée



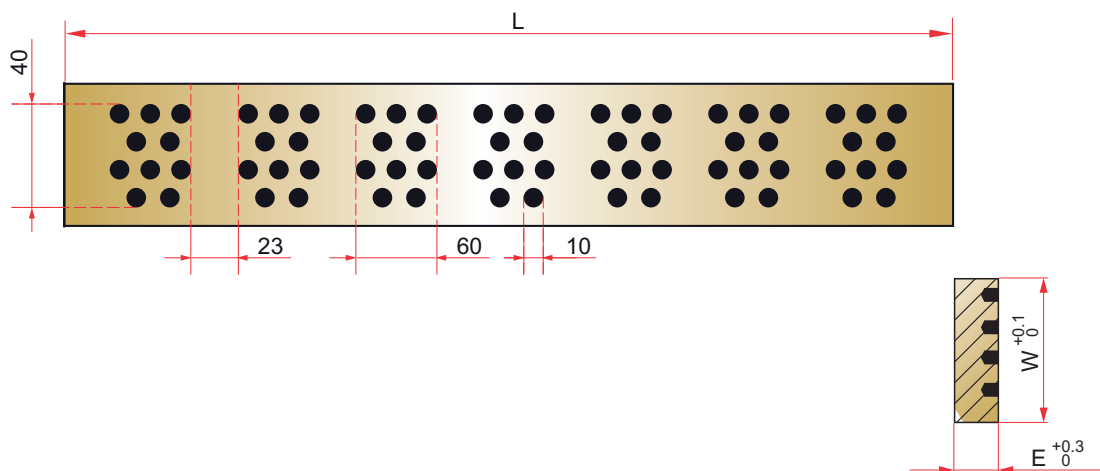
Mat. : 2.0598 ≈ 180 HB / Graphit. T max. = 200° C.

M	A	b4	l4	b	s	l	REF.		
M6	2	9	43,0	20	12	63	BR3143/20x12x063		
			60,0			80	BR3143/20x12x080		
			40,0			100	BR3143/20x12x100		
	52,5		125			BR3143/20x12x125			
	2		3			60,0	16	80	BR3143/20x16x080
						40,0		100	BR3143/20x16x100
					52,5	125		BR3143/20x16x125	

A)* number of holes

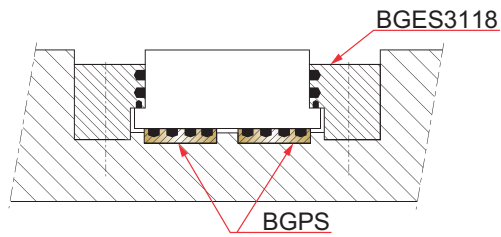
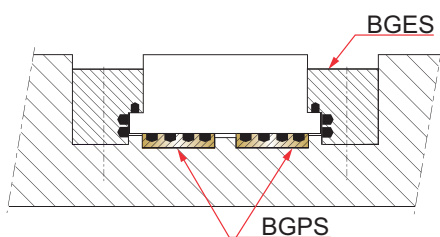


Special oilless wear plate BRBGPS
 Placa de bronce con grafito BRBGPS
 Płytką samosmarująca długa z grafitem typ BRBGPS
 Placa de deslize bronze alumínio com grafito BRBGPS
 Plaque de frottement autolubrifiée BRGPS



Mat. : 2.0598 \approx 180 HB / Graphit. T max. = 200° C.

W	E	L	REF.
50	10	605	BRBGPS



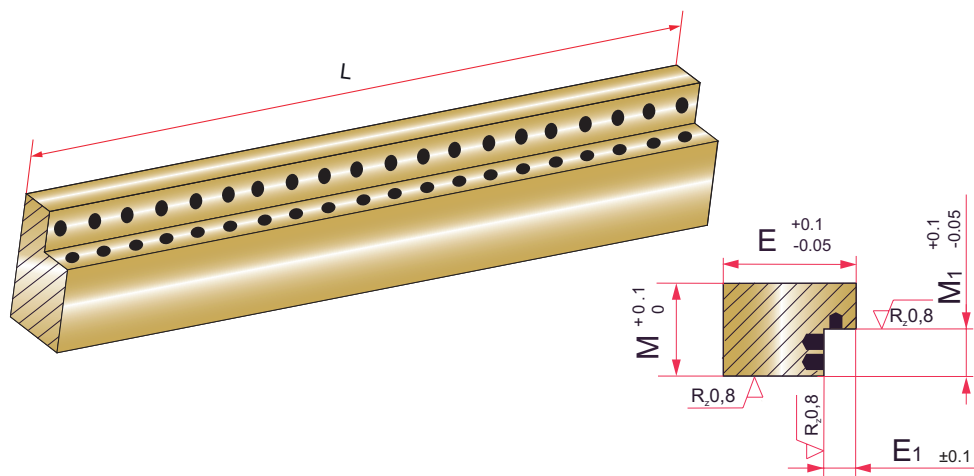
L-shape oilless plate BRBGES

Escuadra de bronce con grafito BRBGES

Listwa prowadząca jednostronnie samosmarująca, bezobsługowa

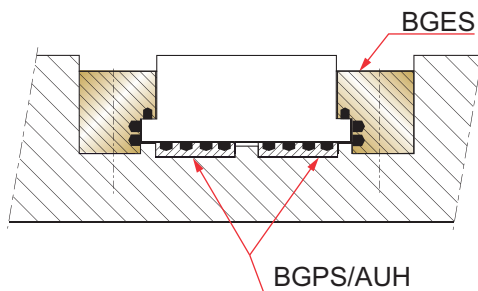
Esquadro de quiamento BRBGES

Plaque de frottement autolubrifiée BRBGES



Mat. : 2.0598 ≈ 180 HB / Graphit. T max. = 200° C.

E1	M1	M	E	L	REF.
5	6	12	20	305	BRBGES/1
7	8	15	25		BRBGES/2
9	12	20	30		BRBGES/3



BRBGES3118

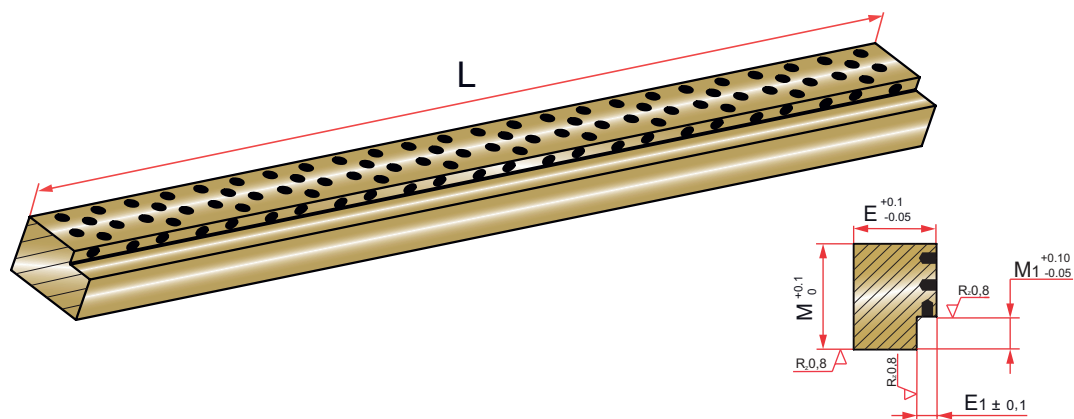
L-shape oilless plate BRBGES3118

Escuadra de bronce con grafito BRBGES3118

Listwa prowadząca jednostronnie samosmarująca, bezobsługowa

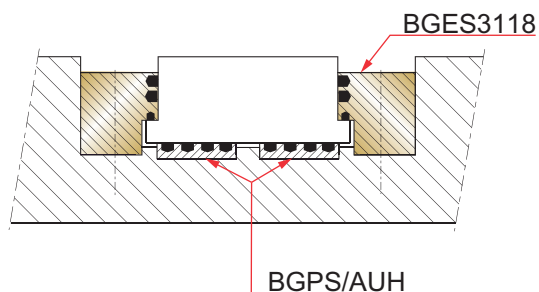
Esquadro de quiamento BRBGES3118

Plaque de frottement autolubrifiée BRBGES3118

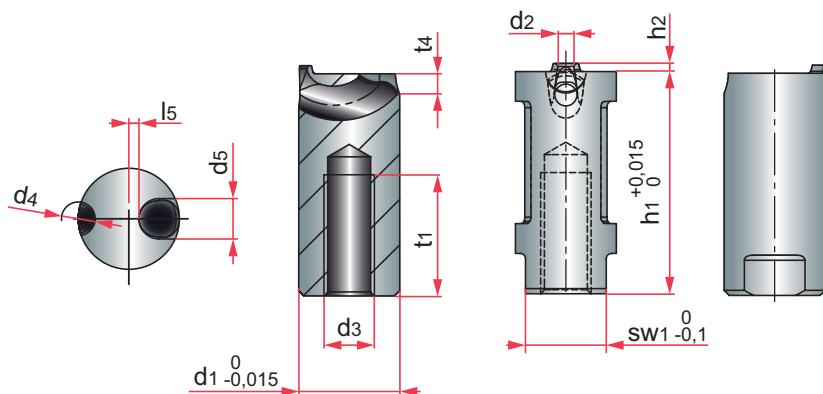


Mat. : 2.0598 \approx 180 HB / Graphit. T max. = 200° C.

E1	M1	M	E	L	REF.
4	6	12	16	305	BRBGES3118/12
5	8	25	20		BRBGES3118/25
6	10	32	25		BRBGES3118/32

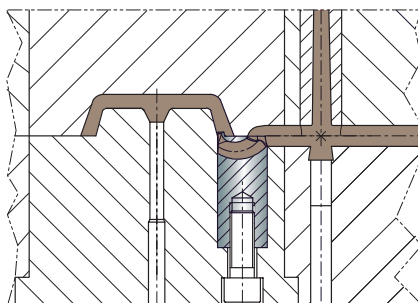


Tunnel gate insert
 Inserto de inyección
 Wkładka tunelowa
 Postiço de injeção
 Embout d'injection cylindrique

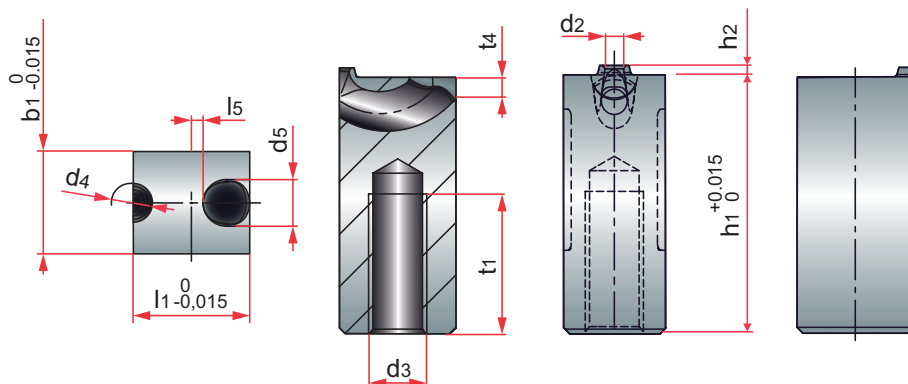
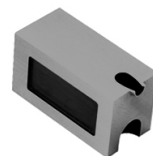


Hardness: 54 ± 2 HRC.

SW1	t1	t4	l5	h2	d3	d4	d5	d1	h1	d2	REF.	
5,5	10	1,25	0,5	0,6	M4	2,2	2,5	6	17	0,6	BR1050/06x17x0,6	
6	13	1,5	0,75			2,4	3	8	22		0,8	BR1050/08x22x0,6
8	12	2	1	0,8	M5	2,5	4	10			BR1050/10x22x0,8	
						2,9					1,2	BR1050/10x22x1,2
						3,3					1,6	BR1050/10x22x1,6
10	11	2,5				2,9	5	12			1,2	BR1050/12x22x1,2
						3,3					1,6	BR1050/12x22x1,6
						3,7					2,0	BR1050/12x22x2,0

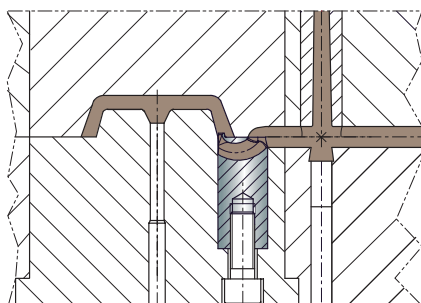


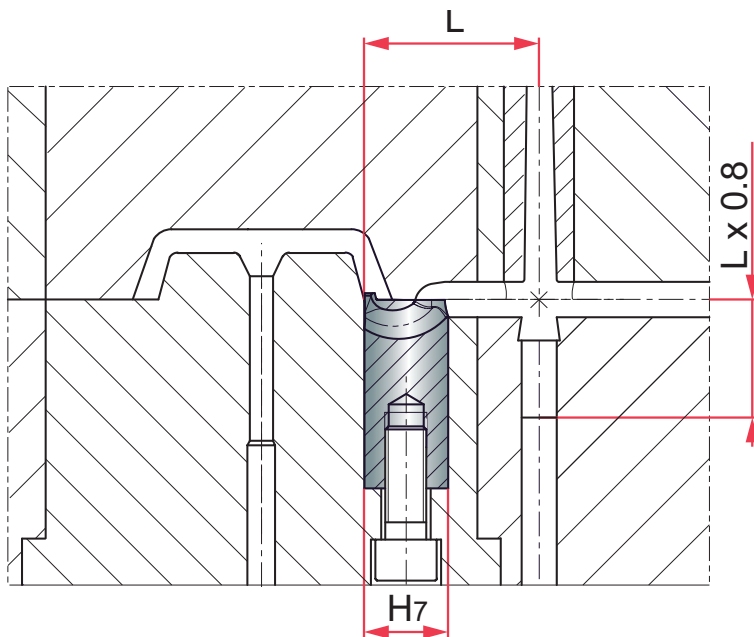
Tunnel gate insert
 Inserto de inyección
 Wkładka tunelowa
 Postiço de injeção
 Embout d'injection rectangulaire



Hardness: 54 ± 2 HRC.

t1	t4	l5	h2	d3	d4	d5	l1	b1	h1	d2	REF.
13	1,5	0,75	0,6	M4	2,2	3	8	6	22	0,6	BR1060/08x06x22x0,6
					2,4					0,8	BR1060/08x06x22x0,8
12	2	1	0,8	M5	2,5	4	10	8		1,2	BR1060/10x08x22x0,8
					3					1,6	BR1060/10x08x22x1,2
					3,3					1,6	BR1060/10x08x22x1,6
11	2,5				2,9	5	12	10		1,2	BR1060/12x10x22x1,2
					3,3					1,6	BR1060/12x10x22x1,6
					3,7					2,0	BR1060/12x10x22x2,0

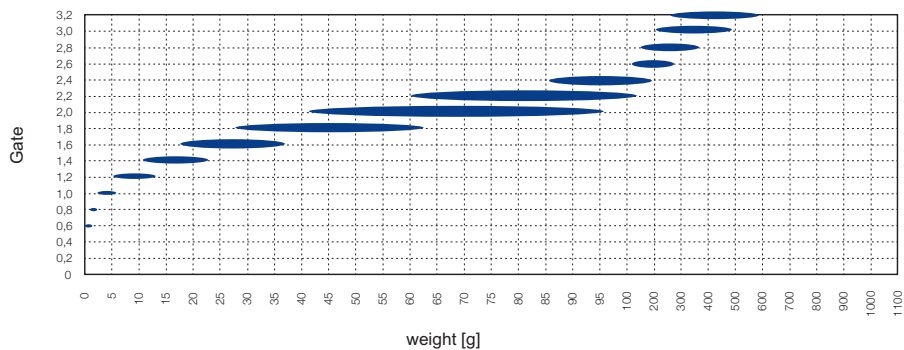




Distance L (mm)				REF.	
TPE, TPU, TPA	PE, PP, PET, PBT	ABS, PA, POM, ABS/PC	PA+GF, PC, SAN, PMMA, PS	BR1050/ ...	BR1060/ ...
9 - 11	12 - 18	15 - 22	18 - 25	... 6 x ...	-
11 - 14	15 - 22	19 - 27	23 - 30	... 8 x 8 x ...
15 - 18	19 - 27	24 - 33	30 - 38	... 10 x 10 x ...
18 - 21	22 - 30	27 - 36	32 - 41	... 12 x 12 x ...

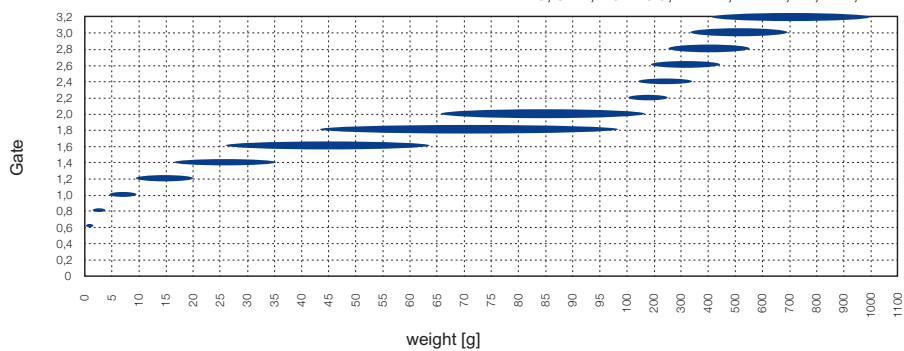
BR1050/BR1060

Gate diameter recommendation
Diámetro recomendado



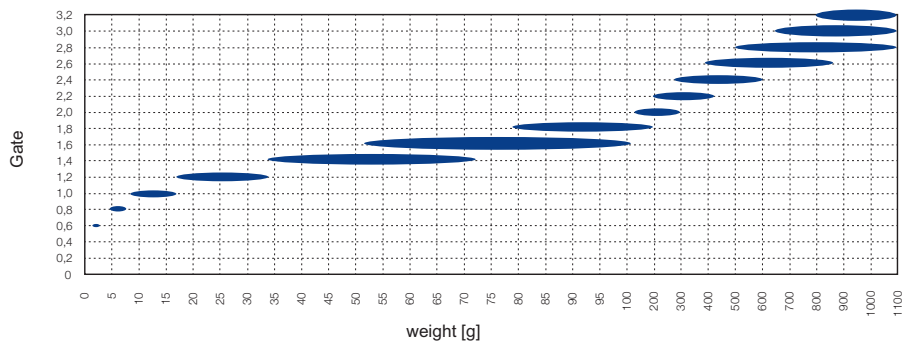
Medium Viscosity

ABS, SAN, POM-CO, PMMA, EPDM, PA, PBT, PET



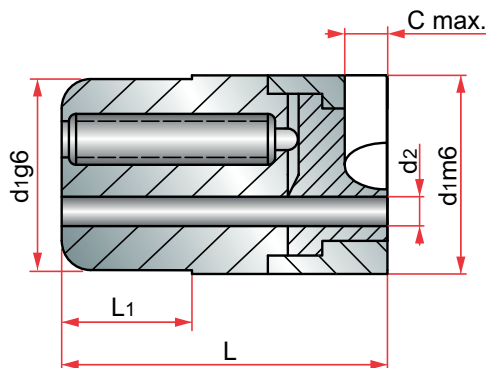
Low Viscosity

PP, PE, PS, SB



BR1716

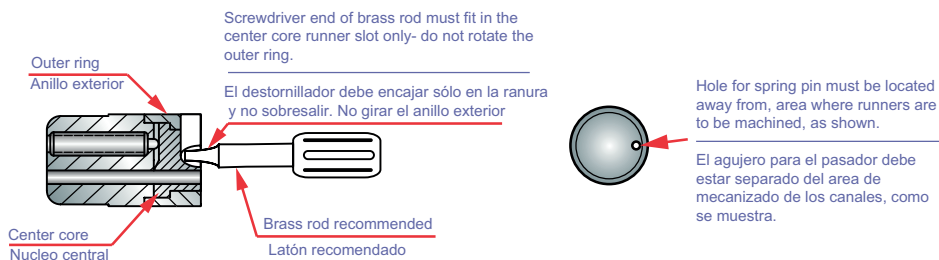
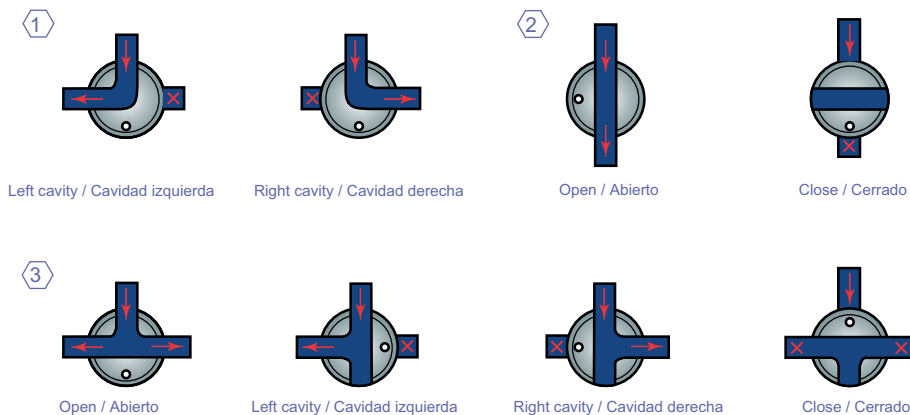
Runner shut-off insert
 Direccionador de colada
 Odcinacz kanału
 Desvío jito
 Insert coureur coulée



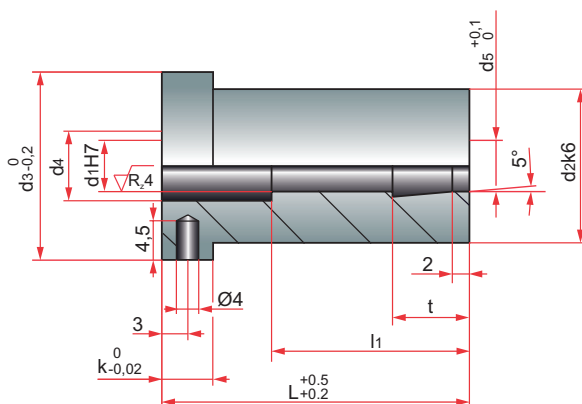
Hardness: 54 ± 2 HRC. Maximum temperature at work: 120° C.

C Max.	D1	L	L1	d2	REF.
3	13	22,5	9	2	BR1716-13
4,4	16				BR1716-16
9,5	26	32	14	3	BR1716-26

Posible configurations / Posibles configuraciones

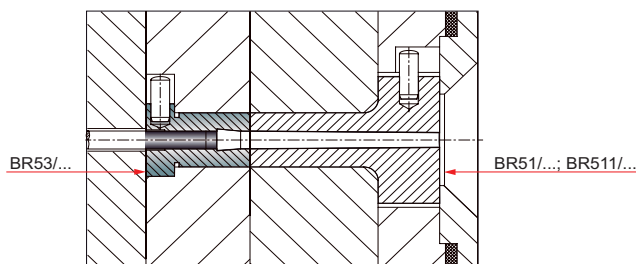


Sprue puller insert
 Casquillo de retención de colada
 Tulejowy zabierak wlewka
 Casquilho gito
 Douille de maintien de masse

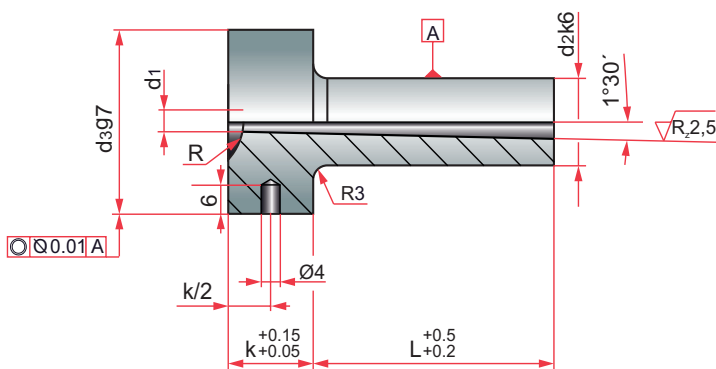


Mat. : 1.7035. Hardness: 54 ± 2 HRC.

k	d3	d4	d5	d1	t	l1	d2	L	REF.
6	16	4,50	4,20	4	7	18	12	22	BR53-12x22
								27	BR53-12x27
								36	BR53-12x36
								46	BR53-12x46
22	6,50	6,20	6	6	9,50	22	18	22	BR53-18x22
								27	BR53-18x27
								36	BR53-18x36
								46	BR53-18x46
								56	BR53-18x56
								76	BR53-18x76
28	8,50	8,20	8	8	9,50	28	24	36	BR53-24x36
								46	BR53-24x46
								56	BR53-24x56
								76	BR53-24x76
								96	BR53-24x96



Sprue bushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection



Mat. : 1.7035. Hardness: 54 ± 2 HRC.

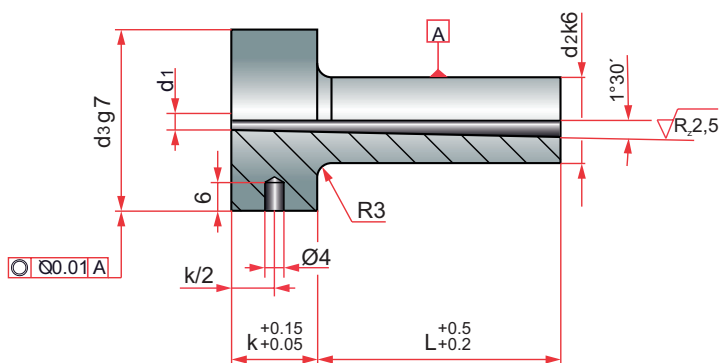
d3	k	d2	L	d1	R	REF.	d1	REF.								
38	18	18	27	3,5	15,5	BR51-18x27x3,5x15,5	4,5	BR51-18x27x4,5x15,5								
						BR51-18x36x3,5x15,5		BR51-18x36x4,5x15,5								
						BR51-18x46x3,5x15,5		BR51-18x46x4,5x15,5								
						BR51-18x56x3,5x15,5		BR51-18x56x4,5x15,5								
						BR51-18x76x3,5x15,5		BR51-18x76x4,5x15,5								
						BR51-18x96x3,5x15,5		BR51-18x96x4,5x15,5								
						BR51-18x27x3,5x40,0		BR51-18x27x4,5x40,0								
			36			40		BR51-18x36x3,5x40,0	BR51-18x36x4,5x40,0							
								BR51-18x46x3,5x40,0	BR51-18x46x4,5x40,0							
								BR51-18x56x3,5x40,0	BR51-18x56x4,5x40,0							
								BR51-18x76x3,5x40,0	BR51-18x76x4,5x40,0							
								BR51-18x96x3,5x40,0	BR51-18x96x4,5x40,0							
								48	24	24	56	4,5	15,5	BR51-24x56x4,5x15,5	6,5	BR51-24x56x6,5x15,5
														BR51-24x96x4,5x15,5		BR51-24x96x6,5x15,5
40	BR51-24x56x4,5x40,0	BR51-24x56x6,5x40,0														
	BR51-24x96x4,5x40,0	BR51-24x96x6,5x40,0														

BR51 Radio 0

E 1600/0510, Z 511



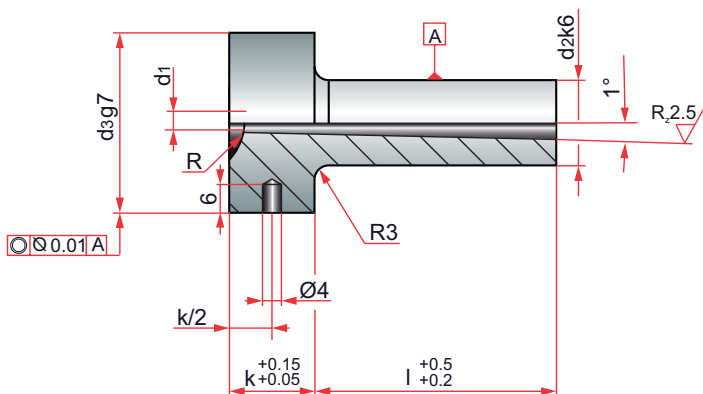
Sprue bushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection



Mat. : 1.7035. Hardness: 54 ± 2 HRC.

d3	k	d2	L	d1	REF					
38	18	18	27	3,5	BR51-18x27x3,5x0					
					BR51-18x36x3,5x0					
					BR51-18x46x3,5x0					
					BR51-18x56x3,5x0					
					BR51-18x76x3,5x0					
					BR51-18x96x3,5x0					
					BR51-18x27x4,5x0					
			36	4,5	BR51-18x36x4,5x0					
					BR51-18x46x4,5x0					
					BR51-18x56x4,5x0					
					BR51-18x76x4,5x0					
					BR51-18x96x4,5x0					
					48	24	24	56	6,5	BR51-24x56x4,5x0
										BR51-24x96x4,5x0
BR51-24x56x6,5x0										
			96		BR51-24x96x6,5x0					

Sprue bushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection



Mat. : 1.7035. Hardness: 54 ± 2 HRC.

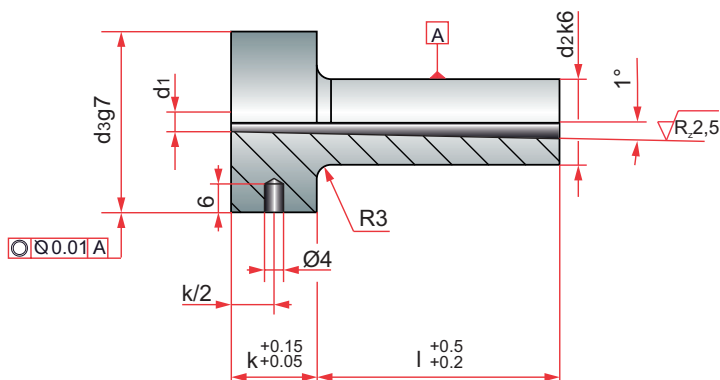
d3	k	d2	l	d1	R	REF.	R	REF.	
28	13	12	22	2,5	15,5	BR511-12x22x2,5x15,5	40	BR511-12x22x2,5x40	
						BR511-12x27x2,5x15,5		BR511-12x27x2,5x40	
						BR511-12x36x2,5x15,5		BR511-12x36x2,5x40	
						BR511-12x46x2,5x15,5		BR511-12x46x2,5x40	
						BR511-12x56x2,5x15,5		BR511-12x56x2,5x40	
						BR511-12x76x2,5x15,5		BR511-12x76x2,5x40	
						BR511-12x96x2,5x15,5		BR511-12x96x2,5x40	
						BR511-12x22x3,5x15,5		BR511-12x22x3,5x40	
	27	13	12	3,5	3,5	15,5	BR511-12x27x3,5x15,5	40	BR511-12x27x3,5x40
							BR511-12x36x3,5x15,5		BR511-12x36x3,5x40
							BR511-12x46x3,5x15,5		BR511-12x46x3,5x40
							BR511-12x56x3,5x15,5		BR511-12x56x3,5x40
							BR511-12x76x3,5x15,5		BR511-12x76x3,5x40
							BR511-12x96x3,5x15,5		BR511-12x96x3,5x40
							BR511-12x22x2,5x15,5		BR511-12x22x2,5x40
							BR511-12x27x2,5x15,5		BR511-12x27x2,5x40

BR511 Radio 0

E 1600/0510, Z 511



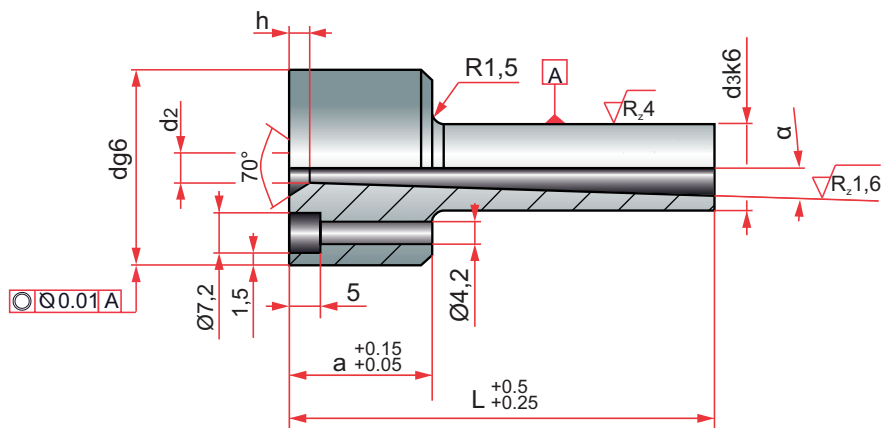
Sprue bushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection



Mat. : 1.7035. Hardness: 54 ± 2 HRC.

d3	k	d2	l	d1	REF.	d1	REF.
28	13	12	22	2,50	BR511-12x22x2,5x0	3,50	BR511-12x22x3,5x0
					BR511-12x27x2,5x0		BR511-12x27x3,5x0
					BR511-12x36x2,5x0		BR511-12x36x3,5x0
					BR511-12x46x2,5x0		BR511-12x46x3,5x0
					BR511-12x56x2,5x0		BR511-12x56x3,5x0
					BR511-12x76x2,5x0		BR511-12x76x3,5x0
					BR511-12x96x2,5x0		BR511-12x96x3,5x0

Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection



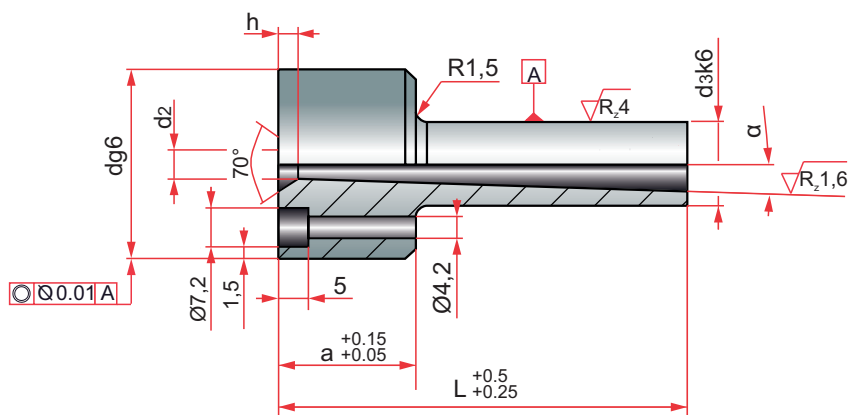
Mat. : 1.1191. Hardness: 21-23 HRC.

d2	h	α (°)	d	a	d3	L	REF.				
4	3	2	35	12	14	27	BRB1-12x027				
						36	BRB1-12x036				
						46	BRB1-12x046				
		1		70		BRB1-12x070					
				100		BRB1-12x100					
				128		BRB1-12x128					
	2	24	2	35	12	14	51	BRB1-24x051			
							60	BRB1-24x060			
							70	BRB1-24x070-2°			
		1	24		2		35	12	14	70	BRB1-24x070-1°
										100	BRB1-24x100
										128	BRB1-24x128

BRB1T



Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection

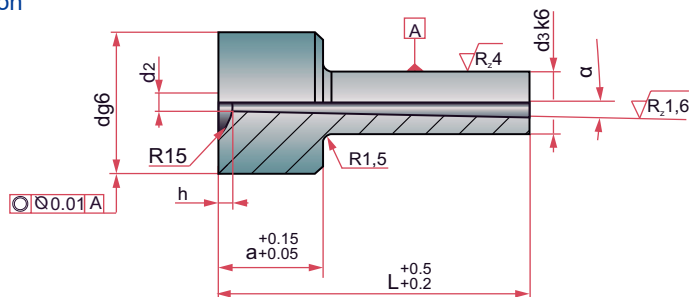


Mat. : 1.7035. Hardness: 54 ± 2 HRC.

d2	h	α (°)	d	a	d3	L	REF.
4	3	1	35	12	14	70	BRB1T-12x070
						100	BRB1T-12x100
		2		24		70	BRB1T-24x070
	1	100				BRB1T-24x100	
		128				BRB1T-24x128	

BRB3

Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection

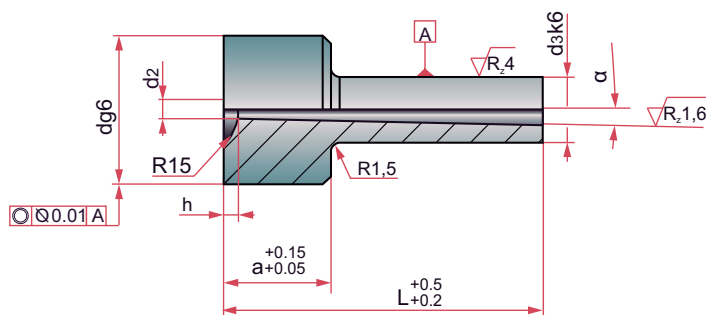


Mat. : 1.1191. Hardness: 21-23 HRC.

d2	h	α (°)	d	a	D3	L	REF.
4	3	1	35	12	14	70	BRB3-12x070
						100	BRB3-12x100
		2		24		70	BRB3-24x070
						100	BRB3-24x100

BRB3T

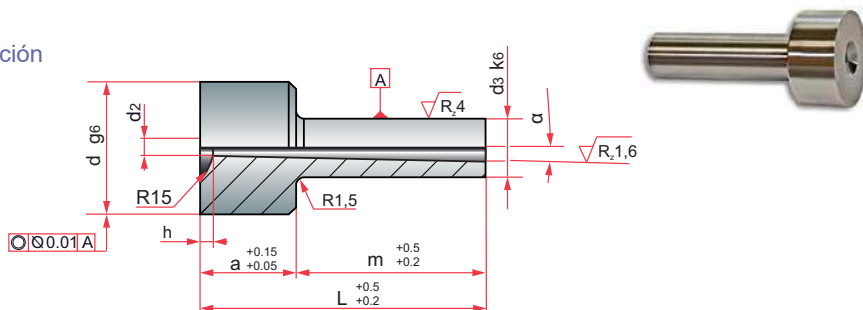
Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection



Mat. : 1.7035. Hardness: 54 ± 2 HRC.

d2	h	α (°)	d	a	D3	L	REF.
4	3	1	35	12	14	70	BRB3T-12x070
						100	BRB3T-12x100
		2		24		70	BRB3T-24x070
						100	BRB3T-24x100

Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection

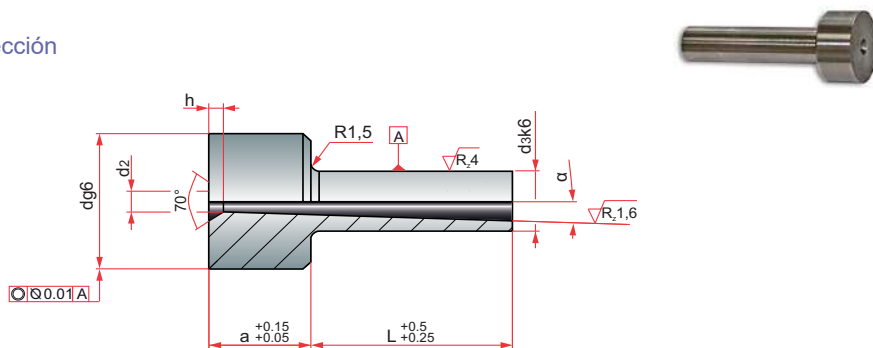


Mat. : 1.1191. Hardness: 21-23 HRC.

d_2	h	α (°)	d	m	a	d_3	L	REF.
5	3	1	50	76,5	26	25	102,5	BRB4-102,5
				86,5			112,5	BRB4-112,5
				96,5			122,5	BRB4-122,5
				106,5			132,5	BRB4-132,5
				116,5			142,5	BRB4-142,5
				126,5			152,5	BRB4-152,5
				136,5			162,5	BRB4-162,5
				156,5			182,5	BRB4-182,5

BRB7

Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection

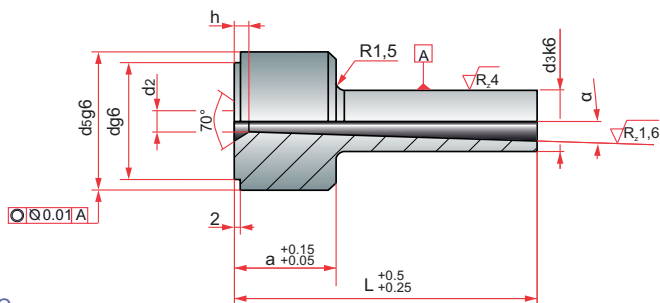


Mat. : 1.1191. Hardness: 21-23 HRC.

d_2	h	α (°)	d	a	d_3	L	REF.
4	3	1	35	18	18	27	BRB7-027
						36	BRB7-036
						46	BRB7-046
						56	BRB7-056
						76	BRB7-076
						96	BRB7-096
						116	BRB7-116

BRB11

Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection

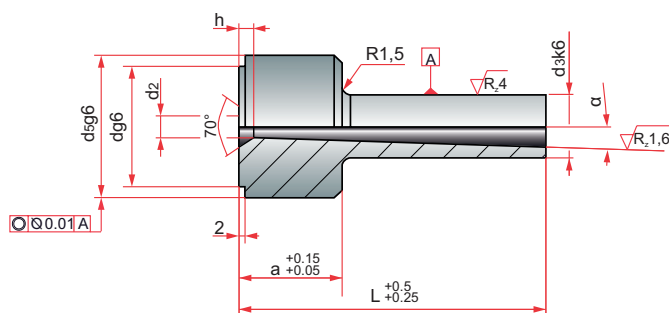


Hardness: 21-23 HRC.

d_2	h	α (°)	d_5	d	a	d_3	L	REF.
4	3	1	38	35	12	14	70	BRB11-12x070
							100	BRB11-12x100
	2	24			60		BRB11-24x060	
					70		BRB11-24x070	
1		100	BRB11-24x100					

BRB11T

Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection

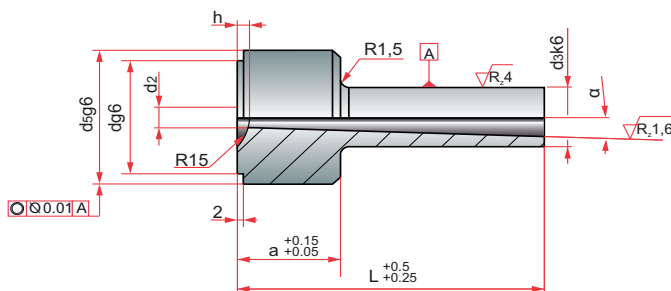


Mat. : 1.7035. Hardness: 54 ± 2 HRC.

d_2	h	α (°)	d_5	d	a	d_3	L	REF.
4	3	1	38	35	12	14	70	BRB11T-12x070
							100	BRB11T-12x100
	2	24			70		BRB11T-24x070	
					100		BRB11T-24x100	
1								

BRB31

Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection

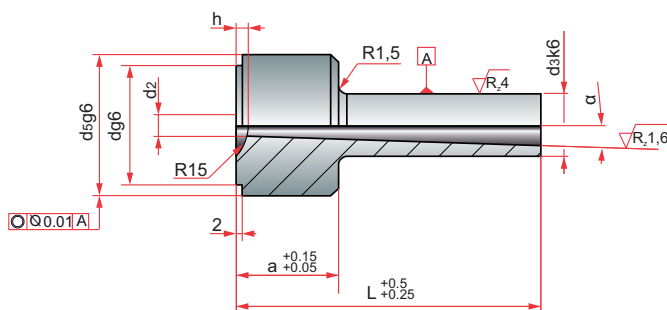


Mat. : 1.1191. Hardness: 21-23 HRC.

d2	h	α (°)	d_5	d	a	d_3	L	REF.
4	3	1	38	35	12	14	70	BRB31-12x070
		100					BRB31-12x100	
	2	24		70	BRB31-24x070			
	1			100	BRB31-24x100			

BRB31T

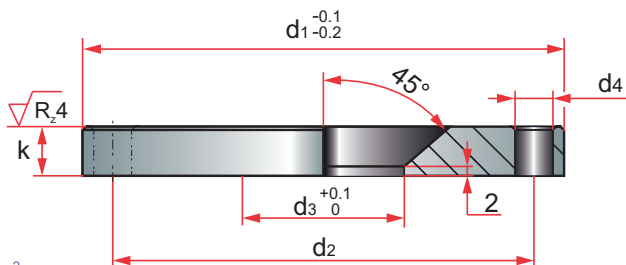
Sprue brushing
 Bebedero de inyección
 Tuleja wtryskowa
 Injector
 Buse d'injection



Mat. : 1.7035. Hardness: 58-60 HRC.

d2	h	α (°)	d_5	d	a	d_3	L	REF.
4	3	1	38	35	12	14	70	BRB31T-12x070
		100					BRB31T-12x100	
	2	24		70	BRB31T-24x070			
	1			100	BRB31T-24x100			

Locating ring
Disco centrador
Pierścień centrujący
Disco de centragem
Bague de centrage

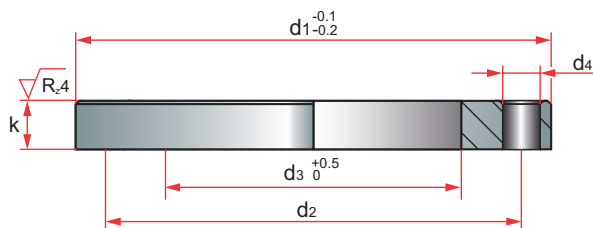


Mat. :1.1730. Min: 630 N/mm²

d4	d3	d2	d1	k	REF.	k	REF.
8,5	35	59	70	8	BRDC-070x08	12	BRDC-070x12
		65	80		BRDC-080x08		BRDC-080x12
		70	90		BRDC-090x08		-
		75	100		BRDC-100x08		BRDC-100x12
		80	110		BRDC-110x08		BRDC-110x12
		84	120		BRDC-120x08		BRDC-120x12
		86	125		BRDC-125x08		BRDC-125x12
		118	150		BRDC-150x08		BRDC-150x12
		118	160		BRDC-160x08		BRDC-160x12
		130	175		BRDC-175x08		BRDC-175x12
		142	200		BRDC-200x08		BRDC-200x12

BRDC0

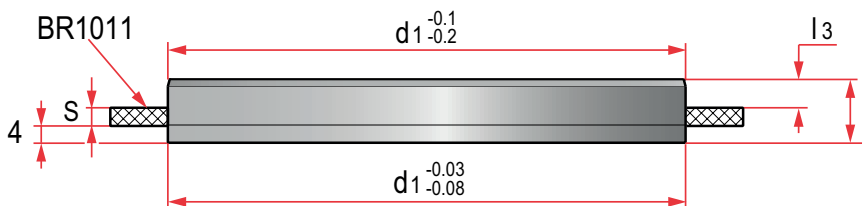
Locating ring
Disco centrador
Pierścień centrujący
Disco de centragem
Bague de centrage



Mat. :1.1730. Min: 630 N/mm²

k	d4	d3	d2	d1	REF.
8	6,5	60	70	80	BRDC0-080
		65	77,5	90	BRDC0-090
		70	85	100	BRDC0-100
		80	95	110	BRDC0-110
		90	105	120	BRDC0-120
		95	110	125	BRDC0-125
		100	115	130	BRDC0-130

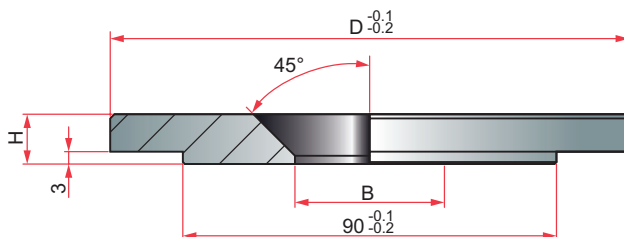
Locating ring
 Disco centrador
 Pierścień centrujący
 Disco de centragem
 Bague de centrage



Mat. : 1.1730. Min: 630 N/mm²

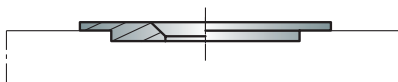
l	l₃	S	d₁	REF.
12	8	-	100	BR1380-100X12
18		6		BR1380-100X18
26	14	8		BR1380-100X26
12	8	-	125	BR1380-125X12
18		6		BR1380-125X18
20		8		BR1380-125X20
30	18			BR1380-125X30
14	10	-	160	BR1380-160X14
20		6		BR1380-160X20
22		8		BR1380-160X22
30	18			BR1380-160X30
14	10	-	200	BR1380-200X14
22		8		BR1380-200X22
30		18		BR1380-200X30

Locating ring
Disco centrador
Pierścień centrujący
Disco de centragem
Bague de centrage



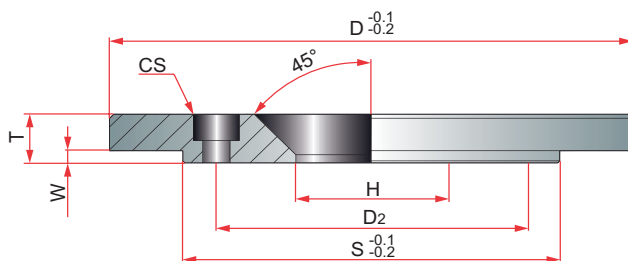
Mat. :1.1730. Min: 630 N/mm²

H	B	D	REF.
12	36	100,0	BRLRS-100 x 36x12
		101,6	BRLRS-101,6x36x12
		110,0	BRLRS-110 x 36x12
36	26	125,0	BRLRS-125 x 26x12
	36	125,0	BRLRS-125 x 36x12



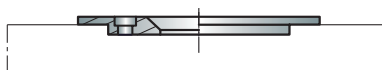
BRLRM

Locating ring
Disco centrador
Pierścień centrujący
Disco de centragem
Bague de centrage



Mat. :1.1730. Min: 630 N/mm²

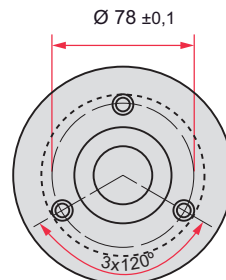
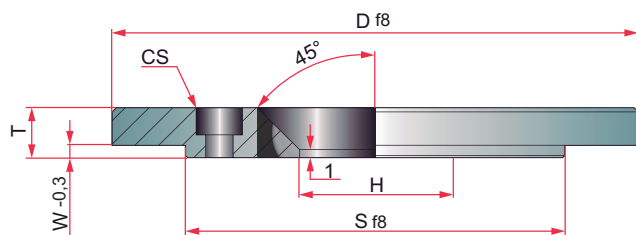
D2	W	S	H	CS	D	T	REF.
65	3,1	75	34	M6	100,0	10	BRLRM-100 x 10
					101,6		BRLRM-101,6x10
34	3,1	75	21	M5	110,0	8	BRLRM-110 x 08
			34	M6	110,0	10	BRLRM-110 x 10
					125,0		BRLRM-125 x 10



BR1000

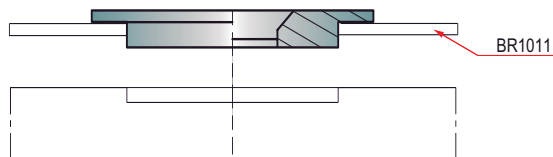


Locating ring
 Disco centrador
 Pierścień centrujący
 Disco de centragem
 Bague de centrage

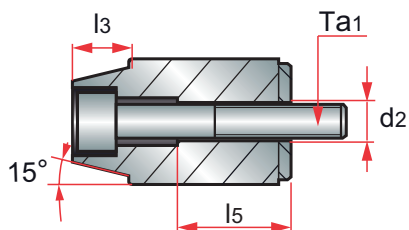
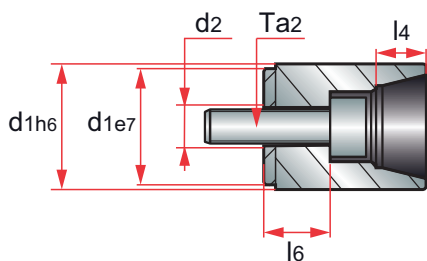
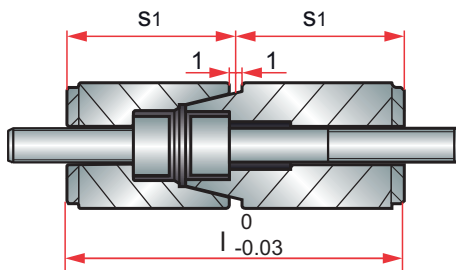


Mat.: 1.1730 / 640 N/mm².

CS	H	S	W	T	D	REF.
M5	36	90	4	12	100	BR1000-100x12
			9	13		BR1000-100x13
			11	15		BR1000-100x15
			7	11	110	BR1000-110x11
			4	12		BR1000-110x12
			11	15		BR1000-110x15
			4	12	120	BR1000-120x12
			9	13		BR1000-120x13
			11	15		BR1000-120x15
			4	12	125	BR1000-125x12
			9	13		BR1000-125x13
			11	15		BR1000-125x15
			4	12	140	BR1000-140x12
			11	15		BR1000-140x15
			4	12	160	BR1000-160x12
			11	15		BR1000-160x15
			4	12	175	BR1000-175x12
			11	15		BR1000-175x15
4	12	200	BR1000-200x12			
11	15		BR1000-200x15			

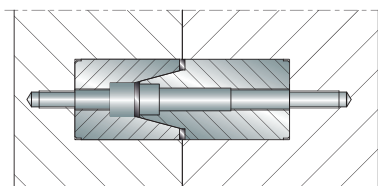
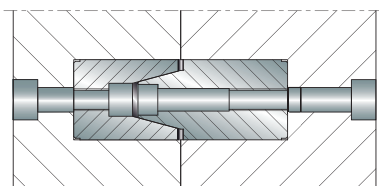


Centring plug
Unidad de centrado
Zespół centrujący
Interlock
Plot de centrage

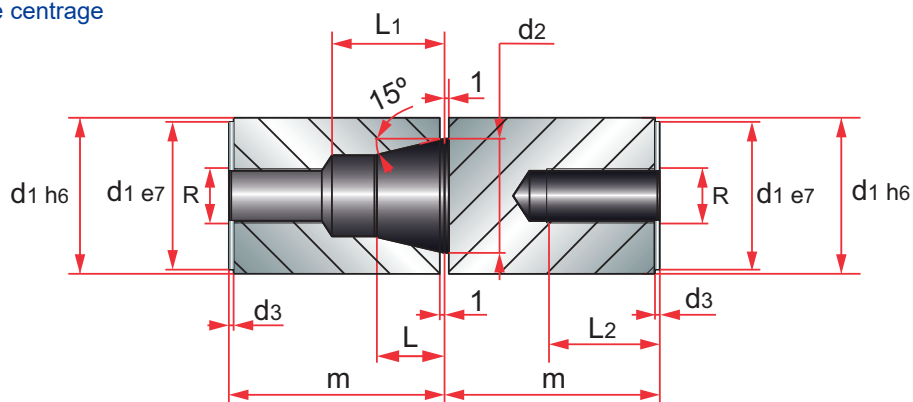


Mat. : 1.1213. Hardness: 54 ± 2 HRC.

Ta1	Ta2	l	l	l	s	l	l	d	d	REF.
M3 x 25	M3 x 16	9,6	5	34	17	4,5	8,5	M4	12	BR051-12
M4 x 25	M4 x 14	12,4	7			6	6	M5	14	BR051-14
							5,8		16	BR051-16
M6 x 40	M6 x 20	19,7	10	54	27	9	10,6	M8	20	BR051-20
			11				25		BR051-25	
			21,7				26		BR051-26	
M8 x 55	M8 x 25	25	16	72	36	14	12,2	M10	30	BR051-30
			26				32		BR051-32	
M8 x 70	M8 x 30	27	20	92	46	18	16,8		42	BR051-42

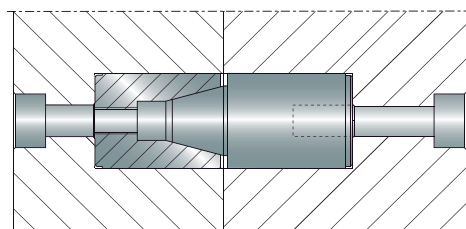


Centring plug
 Unidad de centrado
 Zespół centrujący
 Interlock
 Plot de centrage



Mat. : 1.1213. Hardness: 54 ± 2 HRC.

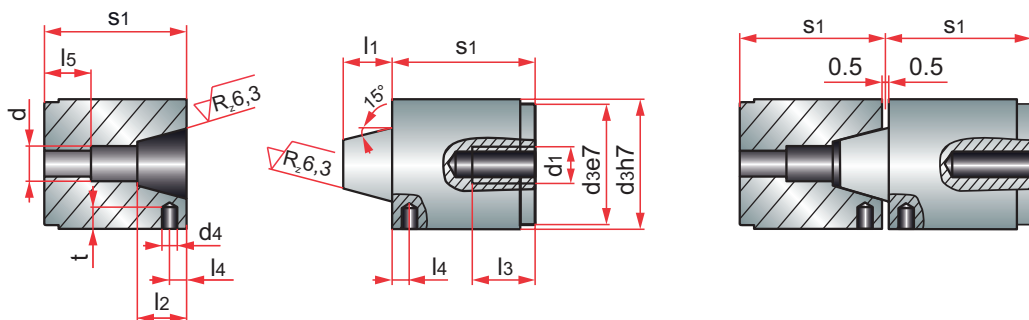
d2	R	L	L1	L2	d3	d1	m	REF.
8	M4	4,9	8	10	3	12	17	BRUC-12x17
10	M5	6,9		11		14		BRUC-14x17
12		7,9		16		BRUC-16x17		
16	M8	10	13	15		20	22	BRUC-20x22
17			15	16		24	27	BRUC-20x27
18							25	BRUC-24x27
25							36	BRUC-25x27
22	M10	13,9	16	18	30	36	BRUC-25x36	
25					46	BRUC-30x36		
30					32	36	BRUC-30x46	
30	M12	17,9	24	20	40	46	BRUC-32x36	
35						56	BRUC-40x46	
40	M10	24,9	32	25	42	46	BRUC-40x56	
46						50	56	BRUC-42x46
	M14	29,9	40	30	60	56	BRUC-50x56	
						76	BRUC-60x76	



Centring plug
 Unidad de centraje
 Zespół centrujący
 Interlock
 Plot de centrage

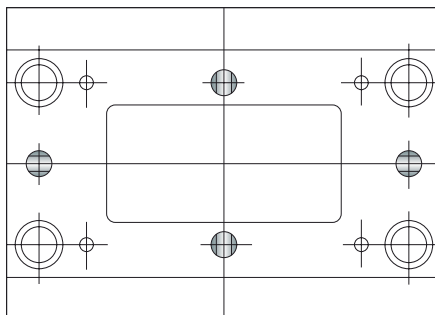
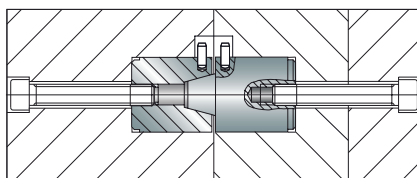


4

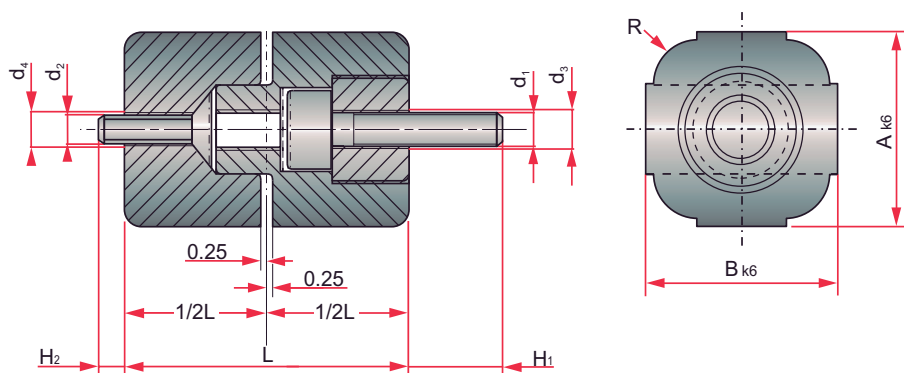


Mat. : 1.2510. Hardness: 54 ± 2 HRC.

d4	t	l2	d	l1	l3	l4	l5	s1	d3	REF.
4	5	11,5	M10	10,5	20	4,5	16,5	36	30	BR06-30
5	7	15,5		14,5		5,5	18,5	46	42	BR06-42
6	8	18,5	M12	17,5	25	7,5	20,5	56	54	BR06-54
8	11	28,5	M16	27,5	30		25,5	76	80	BR06-80

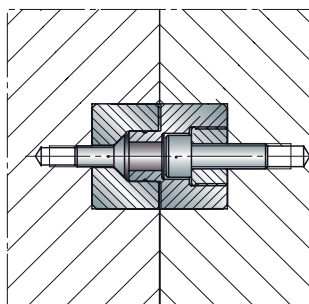
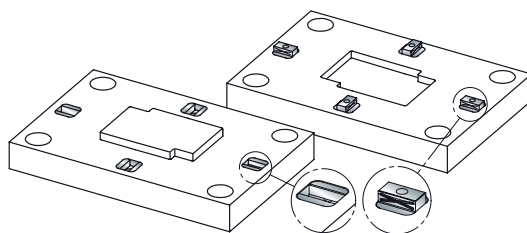


Centring plug
 Unidad de centraje
 Zespół centrujący
 Interlock
 Plot de centrage

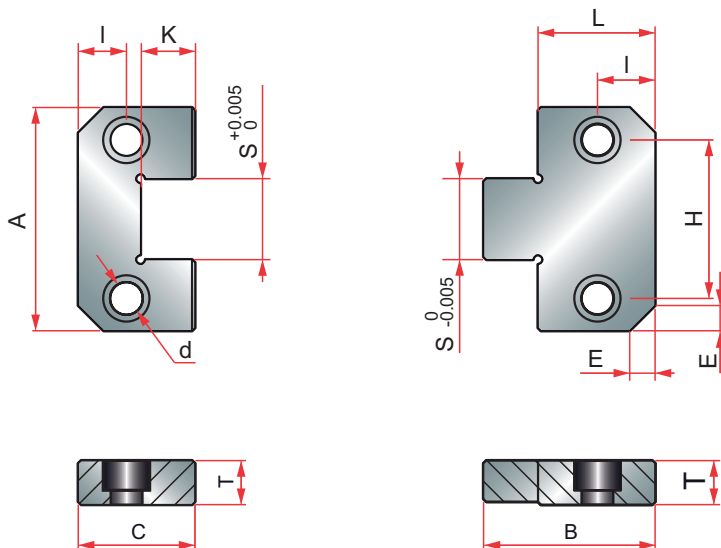


Mat. : 1.2510. Hardness: 54 ± 2 HRC.

R	d1	d3	d2	d4	H1	H2	L	B	A	REF.
4	M5	M6	M4	M5	12	4	28	20	20	BR08-20
5	M6	M8	M5	M6	13	8	32	25	25	BR08-25
6	M8	M10	M6	M8	15	12	36	32	32	BR08-32
	M10	M12	M8	M10	17	10	45	40	40	BR08-40



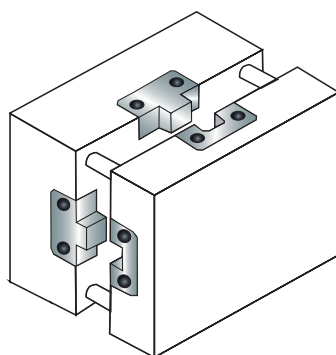
Lateral locating set
 Centrador lateral
 Zamek boczny
 Bloco de travamento lateral
 Plot de centrage lateral



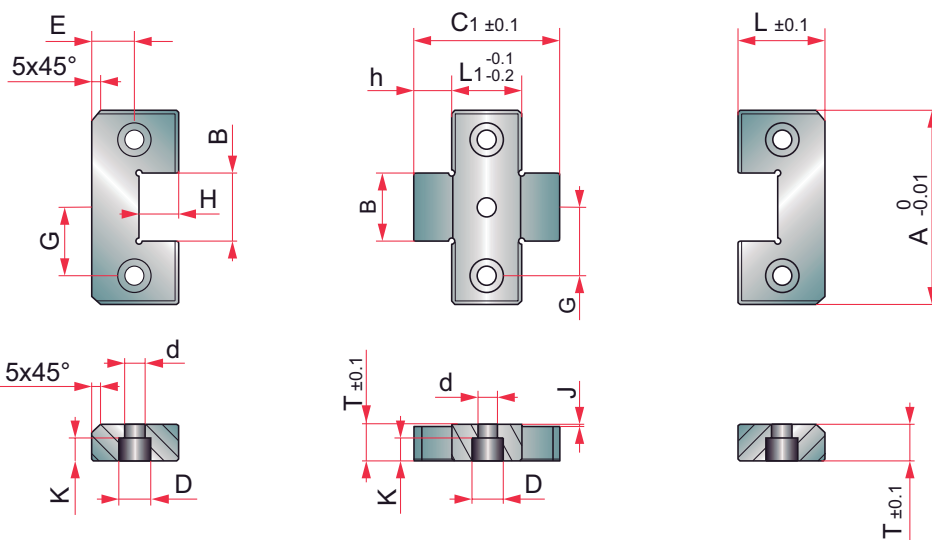
4

Mat. : 1.2510. Hardness: 54 ± 2 HRC.

K	d	E	I	H	S	L	T	C	B	A	REF.
8,5	M6	5	7	22	12	22	13	22	30	38	BRCEL-038
9,5			11	34	17	21,5	16	21,5		50	BRCEL-050
15	M10	8	18	50	25	36	19	36	50	75	BRCEL-075
21			10	22	70	35	45	45		65	100
			84	45			25			125	BRCEL-125

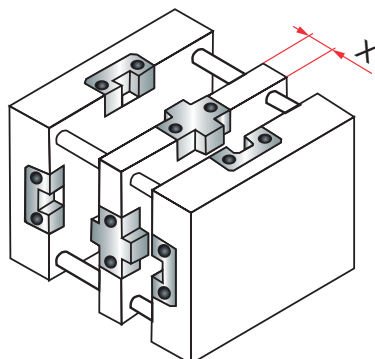


Straight interlock
 Centrador lateral doble
 Zamek boczny podwójny
 Interlock laterais
 Centreurs prismatiques

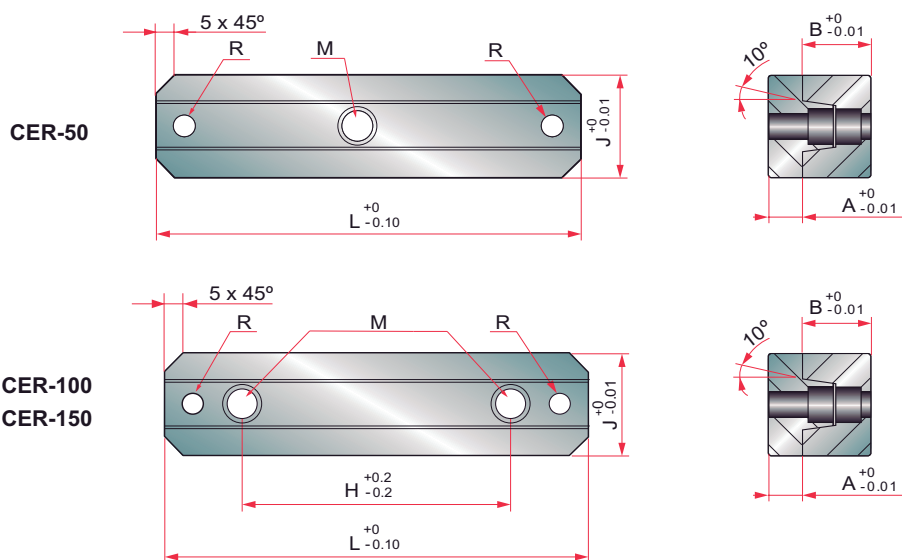


Mat. : 1.2510. Hardness: 54 ± 2 HRC.

N	M	T	L1	L	K	J	H	h	G	F	E	d	D	C1	B	X	A	REF.
15	M6	16	26	21,5	8	1,5	9,5	8,5	17	13	11	6,5	10,5	43	17	26	50	BRCELD-05026
			36						18	53				36	BRCELD-05036			
20	M10	19	26	36	12	1,5	9,5	8,5	25	13	11	6,5	10,5	54	25	26	75	BRCELD-07026
			36						18	64				36	BRCELD-07036			
			45						22	76				35	100			BRCELD-10036
		46	23	86	46	BRCELD-10046												
		25	36	76	45	36	125	BRCELD-12536										
		46	23	86	46	BRCELD-12546												



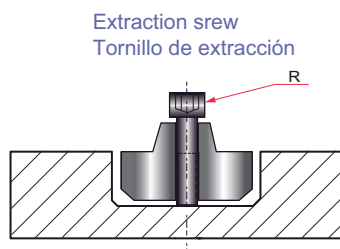
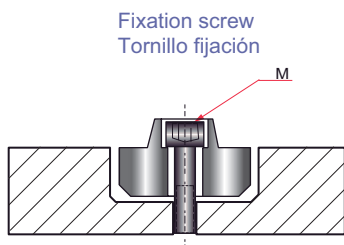
Rectangular locating set
 Centrador rectangular
 Prostokątny zespół centrujący
 Bloco de travamento rectangular
 Plot de centrage rectangular



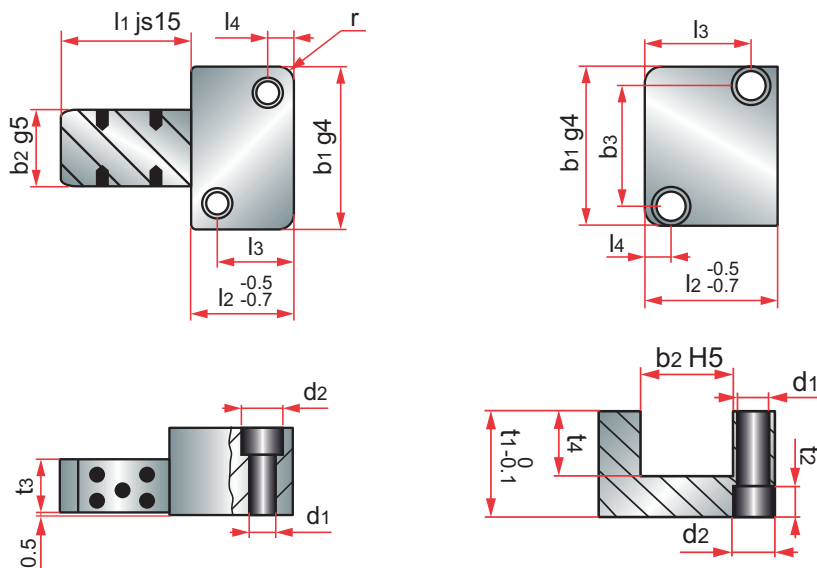
4

Mat. : 1.2510. Hardness: 54 ± 2 HRC.

M	R	B	A	J	H	L	REF.
M5	M5	17,5	8	25	-	50	CER-050
M6	M6	22	10	30	60	100	CER-100
M8	M8	25	13	40	100	150	CER-150

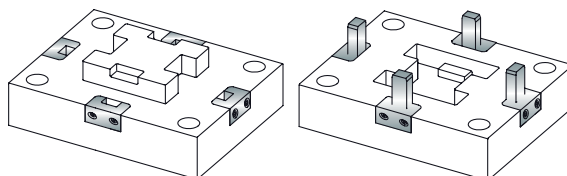


Oilles side locks
 Centrador lateral de precisión con grafito
 Zespól centrujący
 Centrador lateral de precisão com grafite
 Centreur lateral de précision avec graphite



Mat. : 1.2510. Hardness: 54 ± 2 HRC.

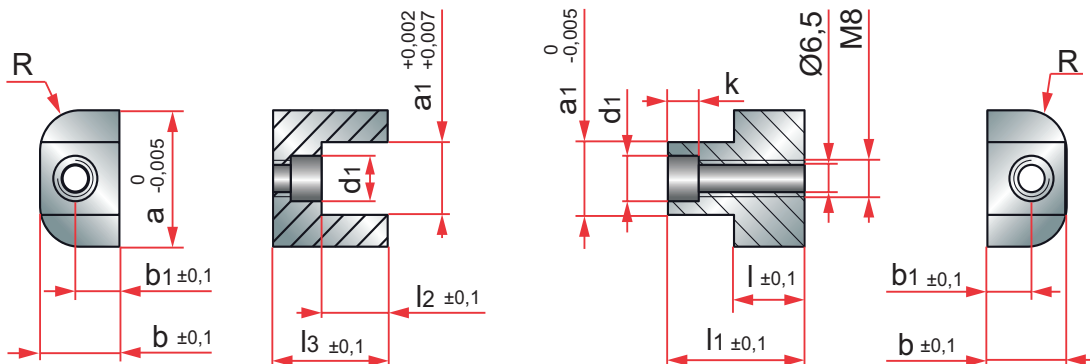
r	t1	t3	t4	d1	d2	t2	b3	l4	l3	l2	l1	b2	b1	REF.			
6	20	11	12	6,6	11	6,8	26	7	15	22	20	16	40	BR07-040A			
											40			BR07-040B			
	22	13	14				31	19	27	25	20	45	BR07-045A				
										50			BR07-045B				
8	25	14	15	9	15	9	35	9	27	36	32	25	50	BR07-050A			
											63			BR07-050B			
	32	19	20				45	11	35	46	40	32	63	BR07-063A			
											80			BR07-063B			
10	36	22	23	11	18	11	60	15	40	56	50	40	85	BR07-085A			
											100			BR07-085B			
	40	24	25				14	20	13	74	18	48	66	56	50	100	BR07-100A
														112			BR07-100B



BR50/0



Centring element
 Centrador lateral
 Zamek boczny
 Bloco de travamento lateral
 Unites de centrage

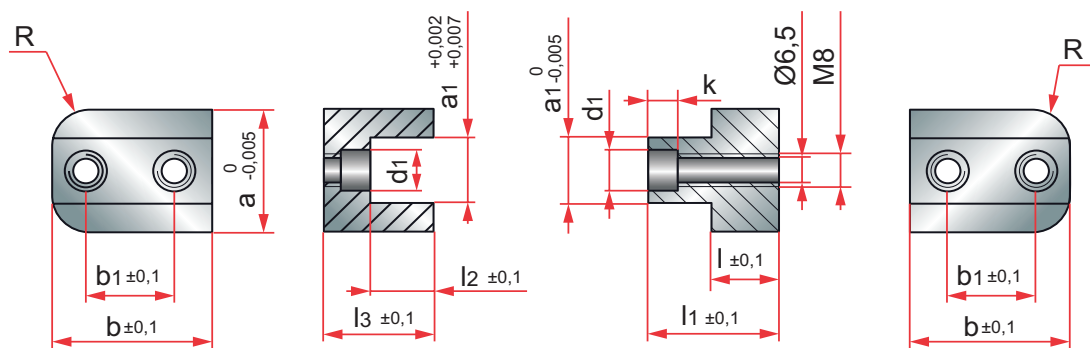


Mat. : 1.2510. Hardness: 54 ± 2 HRC.

a1	k	d1	l2	l	b1	R	l3	b	a	l1	REF.
16	7	11	14,8	15,5	10	8	26	18	30	30	BR50-0

BR50/1

Centring element
 Centrador lateral
 Zamek boczny
 Bloco de travamento lateral
 Unites de centrage



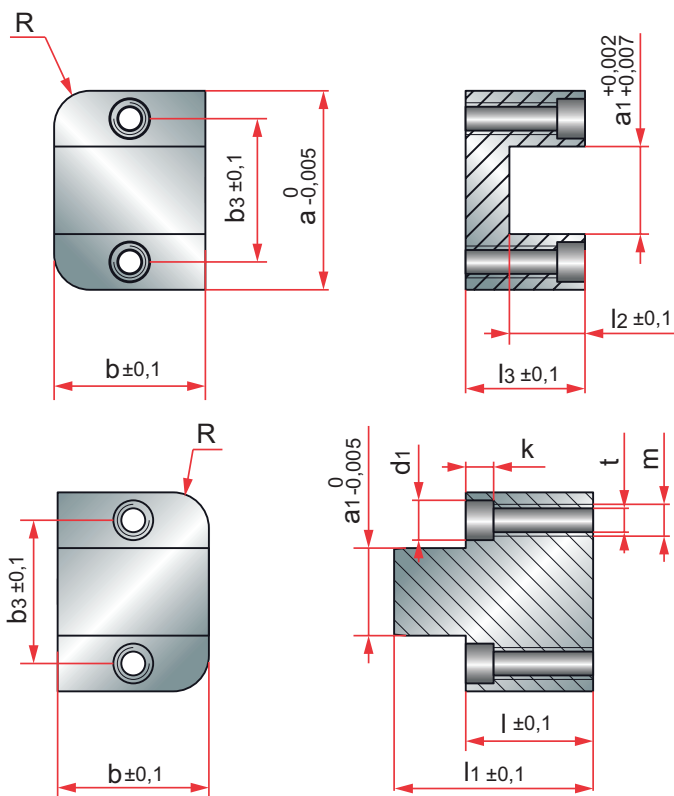
Mat. : 1.2510. Hardness: 54 ± 2 HRC.

a1	k	d1	l2	l	b1	R	l3	b	a	l1	REF.
16	7	11	14,8	15,5	22	8	26	38	30	30	BR50-1

BR50/2-3

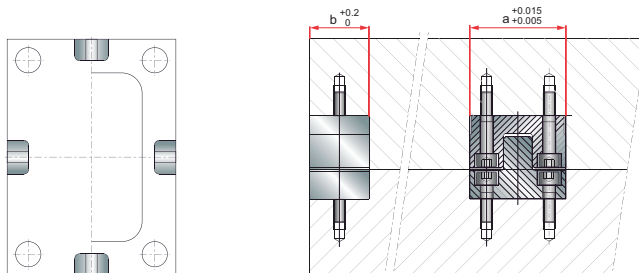


Centring element
 Centrador lateral
 Zamek boczny
 Bloco de travamento lateral
 Unites de centrage



Mat. : 1.2510. Hardness: 54 ± 2 HRC.

a1	t	m	k	d1	l	l2	b3	R	l3	l1	b	a	REF.
20	6,5	M8	7	11	29,8	20	35	8	29,8	48,8	38	50	BR50-2
30	8,3	M10	10	14	39,8	25	52		39,8	63,8		75	BR50-3



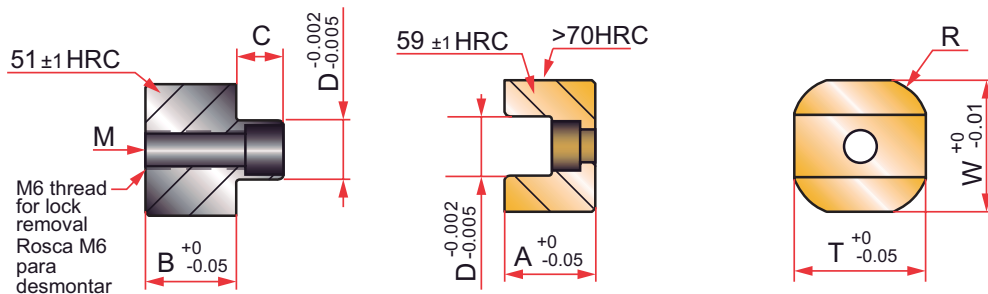
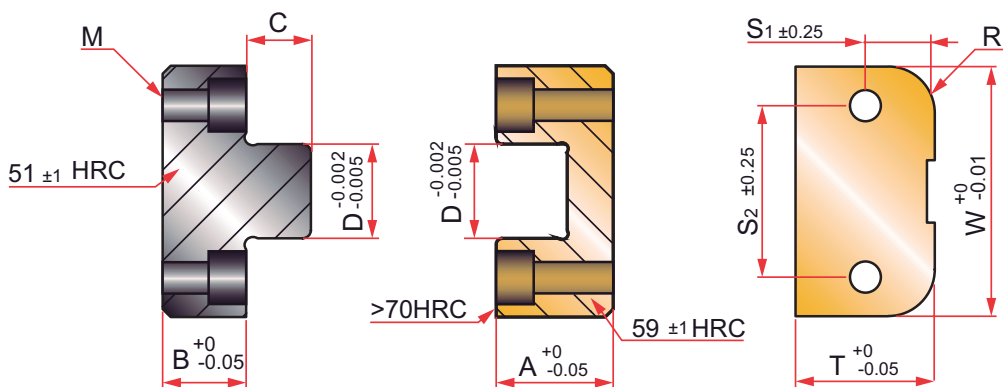
BR152



Centring element
 Centrador lateral
 Zamek górný
 Bloco de travamento lateral
 Unites de centrage



4



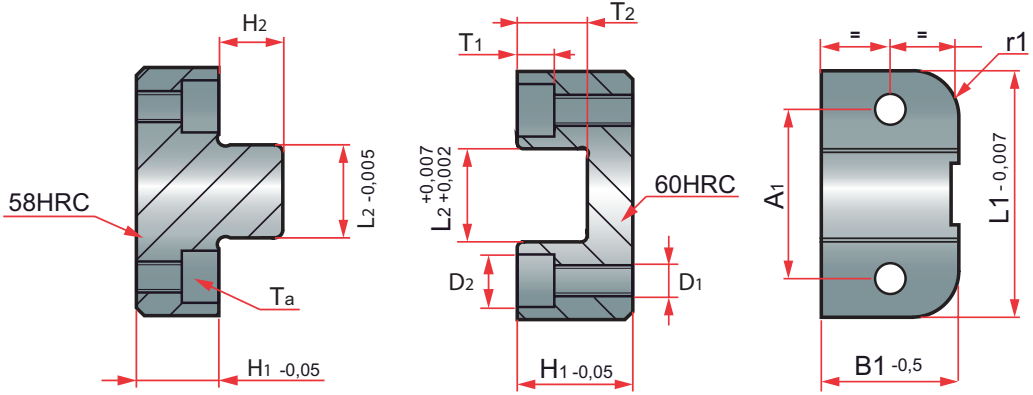
Mat. : 1.2510/1.2379

R	M	S1	S2	D	C	B	A	T	W	REF.
5	M6	CENTER	CENTER	9	7	14	14	20	20	BR152-20x020
8	Ø5,5	13	23	11	16	15	25	26	35	BR152-26x035
	Ø6,5	15	30	15				30	45	BR152-30x045
	Ø9	18	37,5	20	20	20	30	36	55	BR152-36x055
				30	26				35	75
	Ø11	22,5	70	40	41		60	45	100	BR152-45x100

BR085-1

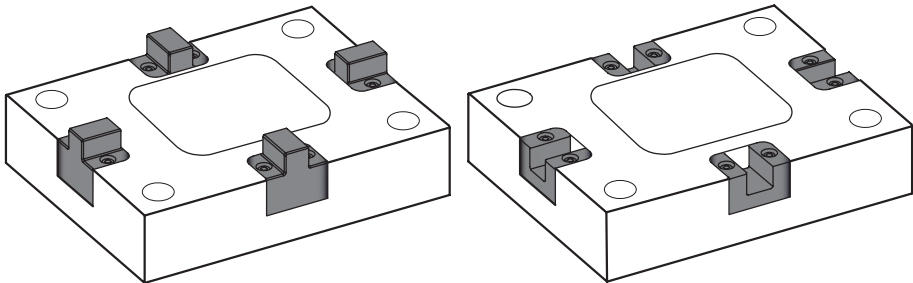
Z085-1

Centring element
 Centrador lateral
 Zamek górný
 Bloco de travamento lateral
 Unites de centrage



Mat. : 1.2379

T1	T2	H1	H2	A1	L2	r1	D2	D1	Ta.	L1	B1	REF.
4,6	10,0	19,8	9,0	20	10	6	8	M 5	M-4	30	28	BR085-1-30x28
6,8	17,5	29,8	16,5	35	20	8	11	M 8	M-6	50	33	BR085-1-50x33
9,0	25,0	39,8	24,0	52	30	10	15	M10	M-8	75	38	BR085-1-75x38



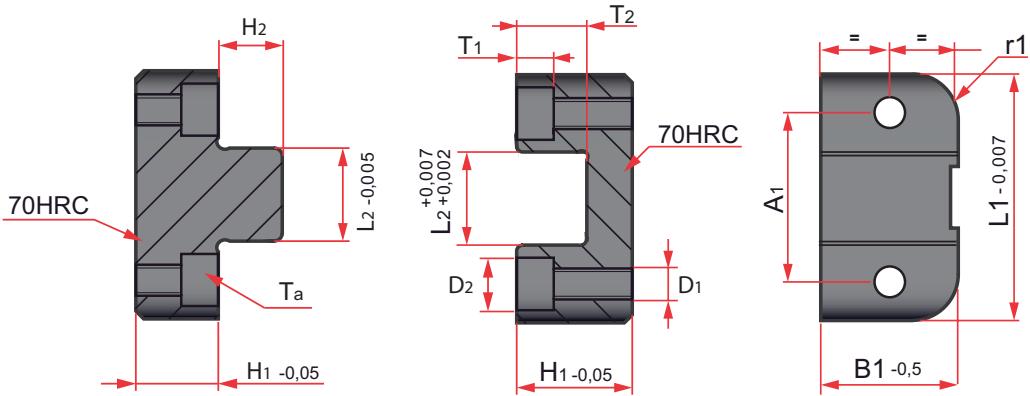
Example: BR085-1 / BR085-2

BR085-2

Z085-2

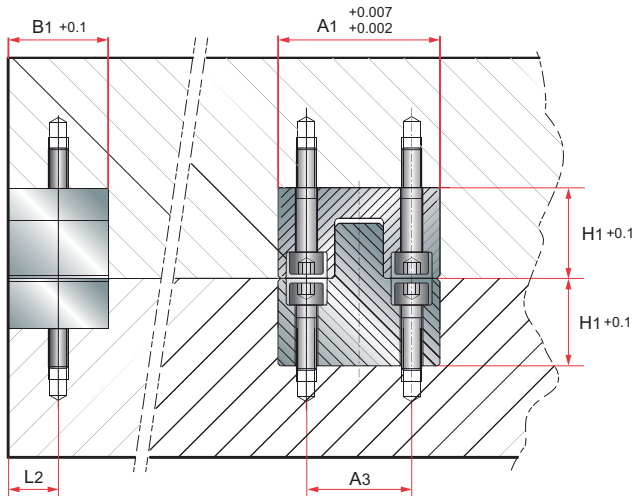


Centring element, DLC
 Centrador lateral, DLC
 Zamek górný, DLC
 Bloco de travamento lateral, DLC
 Unites de centrage, DLC



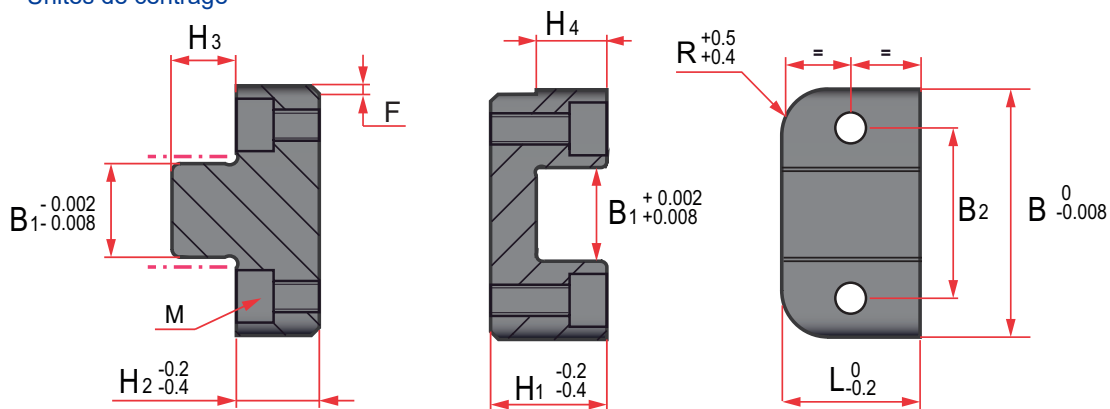
Mat. : 1.2379 - +DLC

T1	T2	H1	H2	A1	L2	r1	D2	D1	Ta.	L1	B1	REF.
4,6	10,0	19,8	9,0	20	10	6	8	M 5	M-4	30	28	BR085-2-30x28
6,8	17,5	29,8	16,5	35	20	8	11	M 8	M-6	50	33	BR085-2-50x33
9,0	25,0	39,8	24,0	52	30	10	15	M10	M-8	75	38	BR085-2-75x38



T1	T2	A3	H1	L2	A1	B1	REF.	REF.
4,6	10,0	20	20	14,0	30	28	BR085-1-30x28	BR085-2-30x28
6,8	17,5	35	30	16,5	50	33	BR085-1-50x33	BR085-2-50x33
9,0	25,0	52	40	19,0	75	38	BR085-1-75x38	BR085-2-75x38

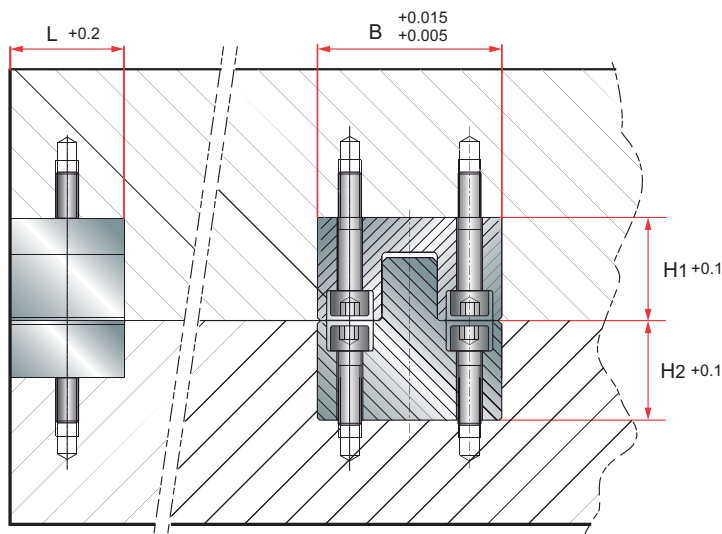
Centring element
 Centrador lateral
 Zamek górný
 Bloco de travamento lateral
 Unites de centrage



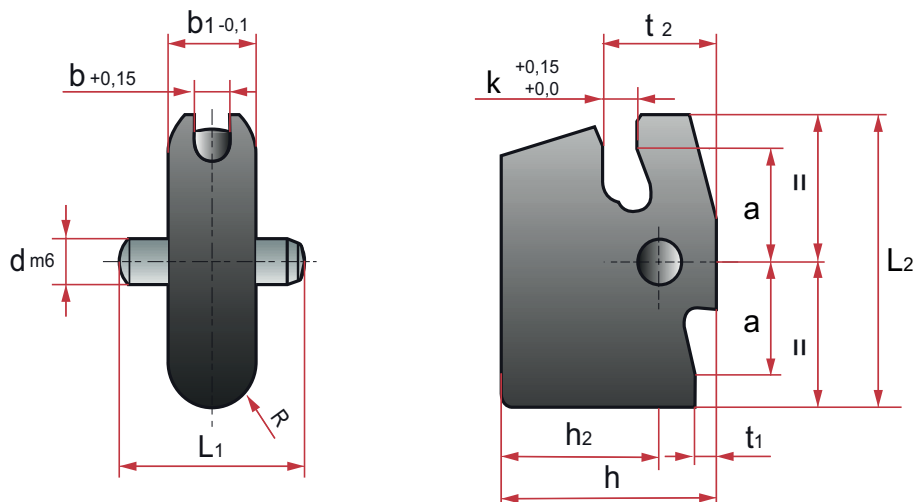
DLC coated - - - -

Mat. : 1.2162 56 HRC

F	R	M	H1	H2	H3	H4	B1	B2	L	B	REF.
0,7	8,0	M4	18	10	12	11	10	22	18	34	BR1304-34
	10	M5	22	12	14	13	12	26	22	40	BR1304-40
1,2	10	M6	30	15	18	17	18	34	30	50	BR1304-50
		M8	40	18	24	23	22	42	40	64	BR1304-64
	46		20	28	27	26	48	52	72	BR1304-72	
	M10	57	22	36	31	36	66	56	96	BR1304-96	

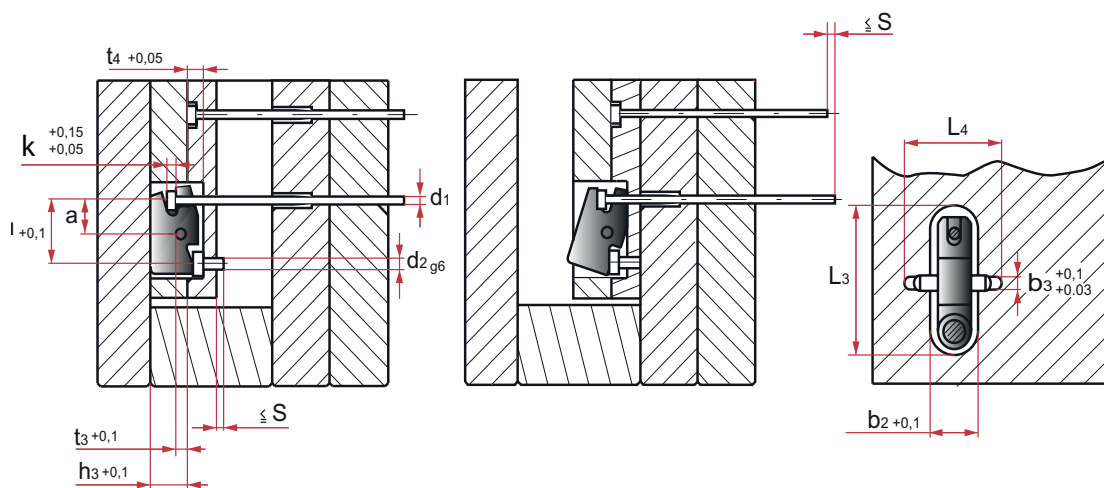


Acceleration rocker
 Acelerador de expulsión
 Przedłużenie wypychania
 Acelerador de expulsão
 Accélérateur éjection

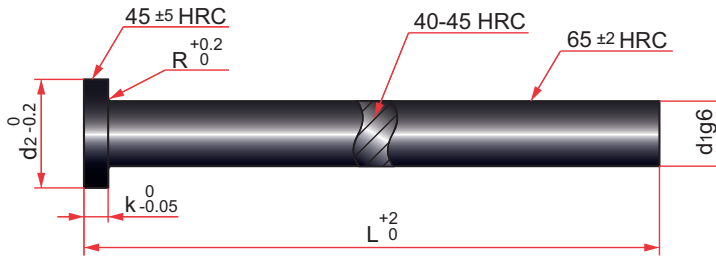


5

d1	b	b1	b2	b3	a	a1	d	d2	h	k	h2	h3	L1	L2	L3	L4	t1	t2	t3	t4	R	S	REF.
3	3	8	8	4	10	20	4	4	19	3	14	16	16	26	31	23	2	10	4	4	4	2,5	BR141x3
6	6	16	16,5	8	21	42	8	8	34	5	23	27	36	56	63	45	4	21	8	8	8	7,6	BR141x6
8	8																						BR141x8



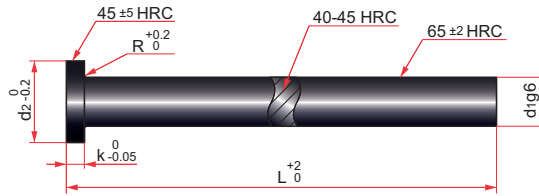
Ejector pin hardened + black nitrided oxidized coating
 Expulsor templado + nitrurado oxidado
 Wypychacz hartowany, azotowany i oksydowany
 Extrator temperado + nitrurado oxidado
 Ejecteur niture baigne oxidized



Mat. : 1.2344 DIN 1530A / ISO 6751 - Maximum temperature at work: 550° C.

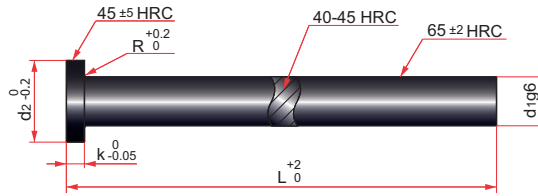
R	k	d2	d1	L	REF.			
0,2	1,2	2,5	1	100	A-01,00x0100			
				125	A-01,00x0125			
				160	A-01,00x0160			
				200	A-01,00x0200			
			1,2	100	A-01,20x0100			
				125	A-01,20x0125			
				160	A-01,20x0160			
				200	A-01,20x0200			
				1,5	3	1,5	100	A-01,50x0100
							125	A-01,50x0125
	160	A-01,50x0160						
	200	A-01,50x0200						
	1,7	100	A-01,70x0100					
		125	A-01,70x0125					
		160	A-01,70x0160					
		200	A-01,70x0200					
		2	4	2	100	A-02,00x0100		
					125	A-02,00x0125		
	160				A-02,00x0160			
	200				A-02,00x0200			
250	A-02,00x0250							
315	A-02,00x0315							
2,2	100				A-02,20x0100			
	125				A-02,20x0125			
160			A-02,20x0160					

R	k	d2	d1	L	REF.			
0,2	2	4	2,2	200	A-02,20x0200			
				250	A-02,20x0250			
				315	A-02,20x0315			
				100	A-02,50x0100			
			0,3	5	2,5	125	A-02,50x0125	
						160	A-02,50x0160	
						200	A-02,50x0200	
						250	A-02,50x0250	
						315	A-02,50x0315	
						2,7	100	A-02,70x0100
							125	A-02,70x0125
							160	A-02,70x0160
200	A-02,70x0200							
3	6	3	100	A-03,00x0100				
			125	A-03,00x0125				
			160	A-03,00x0160				
			200	A-03,00x0200				
			250	A-03,00x0250				
			315	A-03,00x0315				
			400	A-03,00x0400				
			500	A-03,00x0500				
			3,2	100	A-03,20x0100			
				125	A-03,20x0125			



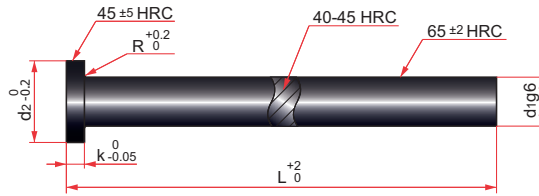
R	k	d2	d1	L	REF.						
0,3	3	6	3,2	160	A-03,20x0160						
				200	A-03,20x0200						
				250	A-03,20x0250						
				315	A-03,20x0315						
				400	A-03,20x0400						
				400	A-03,20x0400						
		7	3,5	7	3,5	100	A-03,50x0100				
						125	A-03,50x0125				
						160	A-03,50x0160				
						200	A-03,50x0200				
						250	A-03,50x0250				
						315	A-03,50x0315				
						400	A-03,50x0400				
						400	A-03,50x0400				
						3,7	3,7	7	3,7	100	A-03,70x0100
										125	A-03,70x0125
	160	A-03,70x0160									
	200	A-03,70x0200									
	250	A-03,70x0250									
	315	A-03,70x0315									
	400	A-03,70x0400									
	400	A-03,70x0400									
	8	4	8	4	100	A-04,00x0100					
					125	A-04,00x0125					
					160	A-04,00x0160					
					200	A-04,00x0200					
					250	A-04,00x0250					
					315	A-04,00x0315					
					400	A-04,00x0400					
					400	A-04,00x0400					
			4,2	4,2	8	4,2	100	A-04,20x0100			
							125	A-04,20x0125			
160							A-04,20x0160				
200							A-04,20x0200				
250							A-04,20x0250				
315							A-04,20x0315				
400							A-04,20x0400				
400							A-04,20x0400				

R	k	d2	d1	L	REF.				
0,3	3	8	4,2	200	A-04,20x0200				
				250	A-04,20x0250				
				315	A-04,20x0315				
				400	A-04,20x0400				
				400	A-04,20x0400				
				4,5	4,5	8	4,5	100	A-04,50x0100
								125	A-04,50x0125
								160	A-04,50x0160
								200	A-04,50x0200
								250	A-04,50x0250
			315					A-04,50x0315	
			400					A-04,50x0400	
			400					A-04,50x0400	
			500					A-04,50x0500	
			500					A-04,50x0500	
			10	10	5	5	100	A-05,00x0100	
							125	A-05,00x0125	
							160	A-05,00x0160	
							200	A-05,00x0200	
							250	A-05,00x0250	
		315					A-05,00x0315		
		400					A-05,00x0400		
		400					A-05,00x0400		
		500					A-05,00x0500		
		500					A-05,00x0500		
		5,2			5,2	10	5,2	100	A-05,20x0100
								125	A-05,20x0125
								160	A-05,20x0160
								200	A-05,20x0200
								250	A-05,20x0250
								315	A-05,20x0315
								400	A-05,20x0400
								400	A-05,20x0400
								500	A-05,20x0500
								500	A-05,20x0500
		5,5	5,5	10	5,5	100	A-05,50x0100		
						125	A-05,50x0125		
						160	A-05,50x0160		
						125	A-05,50x0125		



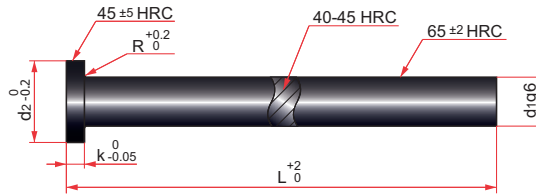
R	k	d2	d1	L	REF.
0,3	3	10	5,5	160	A-05,50x0160
				200	A-05,50x0200
				250	A-05,50x0250
				315	A-05,50x0315
				400	A-05,50x0400
				500	A-05,50x0500
				630	A-05,50x0630
				1000	A-05,50x1000
0,5	5	12	6	100	A-06,00x0100
				125	A-06,00x0125
				160	A-06,00x0160
				200	A-06,00x0200
				250	A-06,00x0250
				315	A-06,00x0315
				400	A-06,00x0400
				500	A-06,00x0500
				630	A-06,00x0630
				800	A-06,00x0800
			1000	A-06,00x1000	
			6,2	100	A-06,20x0100
				125	A-06,20x0125
				160	A-06,20x0160
				200	A-06,20x0200
				250	A-06,20x0250
				315	A-06,20x0315
				400	A-06,20x0400
				500	A-06,20x0500
				630	A-06,20x0630
				800	A-06,20x0800
			6,5	100	A-06,50x0100
				125	A-06,50x0125
				160	A-06,50x0160
200	A-06,50x0200				

R	k	d2	d1	L	REF.	
0,5	5	12	6,5	250	A-06,50x0250	
				315	A-06,50x0315	
				400	A-06,50x0400	
				500	A-06,50x0500	
				7	100	A-07,00x0100
					125	A-07,00x0125
			160		A-07,00x0160	
			200		A-07,00x0200	
			250		A-07,00x0250	
			315		A-07,00x0315	
			7,5	400	A-07,00x0400	
				500	A-07,00x0500	
				100	A-07,50x0100	
				125	A-07,50x0125	
				160	A-07,50x0160	
				200	A-07,50x0200	
			14	8	250	A-07,50x0250
					100	A-08,00x0100
					125	A-08,00x0125
					160	A-08,00x0160
					200	A-08,00x0200
					250	A-08,00x0250
				8,2	315	A-08,00x0315
					400	A-08,00x0400
					500	A-08,00x0500
					630	A-08,00x0630
					800	A-08,00x0800
					1000	A-08,00x1000
					100	A-08,20x0100
					125	A-08,20x0125
160	A-08,20x0160					
200	A-08,20x0200					



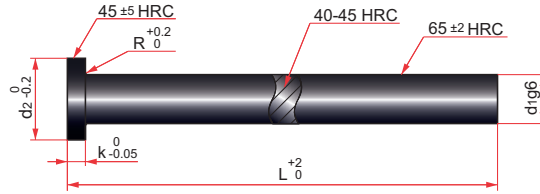
R	k	d2	d1	L	REF.
0,5	5	14	8,2	250	A-08,20x0250
				315	A-08,20x0315
				400	A-08,20x0400
				500	A-08,20x0500
				630	A-08,20x0630
			8,5	100	A-08,50x0100
				125	A-08,50x0125
				160	A-08,50x0160
				200	A-08,50x0200
				250	A-08,50x0250
				315	A-08,50x0315
				400	A-08,50x0400
				500	A-08,50x0500
				630	A-08,50x0630
				9	100
		125	A-09,00x0125		
		160	A-09,00x0160		
		200	A-09,00x0200		
		250	A-09,00x0250		
		315	A-09,00x0315		
		400	A-09,00x0400		
		500	A-09,00x0500		
		16	10	100	A-10,00x0100
				125	A-10,00x0125
				160	A-10,00x0160
				200	A-10,00x0200
				250	A-10,00x0250
			315	A-10,00x0315	
			400	A-10,00x0400	
			500	A-10,00x0500	
			630	A-10,00x0630	
			10	100	A-10,00x0100
		125		A-10,00x0125	

R	k	d2	d1	L	REF.	
0,5	5	16	10	800	A-10,00x0800	
				1000	A-10,00x1000	
				100	A-10,20x0100	
				125	A-10,20x0125	
				160	A-10,20x0160	
				200	A-10,20x0200	
				250	A-10,20x0250	
				315	A-10,20x0315	
				400	A-10,20x0400	
				500	A-10,20x0500	
				630	A-10,20x0630	
				10,5	100	A-10,50x0100
					125	A-10,50x0125
					160	A-10,50x0160
					200	A-10,50x0200
			250		A-10,50x0250	
			315		A-10,50x0315	
			400		A-10,50x0400	
			500		A-10,50x0500	
			630		A-10,50x0630	
			11		800	A-10,50x0800
				100	A-11,00x0100	
				125	A-11,00x0125	
				160	A-11,00x0160	
				200	A-11,00x0200	
				250	A-11,00x0250	
				315	A-11,00x0315	
				400	A-11,00x0400	
			12	100	100	A-12,00x0100
					125	A-12,00x0125
					160	A-12,00x0160
					200	A-12,00x0200
					250	A-12,00x0250
315	A-12,00x0315					
400	A-12,00x0400					
500	A-12,00x0500					
630	A-12,00x0630					
10	100	A-12,00x0100				
	125	A-12,00x0125				



R	k	d2	d1	L	REF.						
0,8	7	18	12	160	A-12,00x0160						
				200	A-12,00x0200						
				250	A-12,00x0250						
				315	A-12,00x0315						
				400	A-12,00x0400						
				500	A-12,00x0500						
				630	A-12,00x0630						
				800	A-12,00x0800						
				1000	A-12,00x1000						
				100	A-12,20x0100						
				125	A-12,20x0125						
				160	A-12,20x0160						
				200	A-12,20x0200						
				250	A-12,20x0250						
				315	A-12,20x0315						
				400	A-12,20x0400						
				500	A-12,20x0500						
				630	A-12,20x0630						
		12,5	7	18	12	100	A-12,50x0100				
						125	A-12,50x0125				
						160	A-12,50x0160				
						200	A-12,50x0200				
						250	A-12,50x0250				
						315	A-12,50x0315				
						400	A-12,50x0400				
						500	A-12,50x0500				
						630	A-12,50x0630				
						22	7	18	12	100	A-14,00x0100
										125	A-14,00x0125
										160	A-14,00x0160
										200	A-14,00x0200
										250	A-14,00x0250
250	A-14,00x0250										

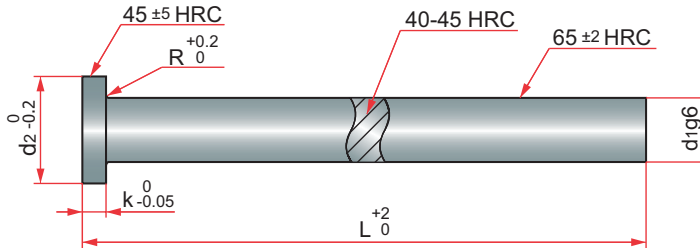
R	k	d2	d1	L	REF.						
0,8	7	22	14	315	A-14,00x0315						
				400	A-14,00x0400						
				500	A-14,00x0500						
				630	A-14,00x0630						
				800	A-14,00x0800						
				1000	A-14,00x1000						
				16	7	22	14	100	A-16,00x0100		
								125	A-16,00x0125		
								160	A-16,00x0160		
								200	A-16,00x0200		
								250	A-16,00x0250		
								315	A-16,00x0315		
								400	A-16,00x0400		
								500	A-16,00x0500		
								630	A-16,00x0630		
								800	A-16,00x0800		
								1000	A-16,00x1000		
								24	7	22	14
		125	A-18,00x0125								
		160	A-18,00x0160								
		200	A-18,00x0200								
		250	A-18,00x0250								
		315	A-18,00x0315								
		400	A-18,00x0400								
		500	A-18,00x0500								
		630	A-18,00x0630								
		800	A-18,00x0800								
		1000	A-18,00x1000								
		1	8	26	20	100	A-20,00x0100				
						125	A-20,00x0125				
						160	A-20,00x0160				
						200	A-20,00x0200				
						200	A-20,00x0200				
						200	A-20,00x0200				



R	k	d2	d1	L	REF.
1	8	26	20	250	A-20,00x0250
				315	A-20,00x0315
				400	A-20,00x0400
				500	A-20,00x0500
				630	A-20,00x0630
				800	A-20,00x0800
				1000	A-20,00x1000
	10	32	25	160	A-25,00x0160
				200	A-25,00x0200
				250	A-25,00x0250
				315	A-25,00x0315
				400	A-25,00x0400

R	k	d2	d1	L	REF.	
1	10	32	25	500	A-25,00x0500	
				630	A-25,00x0630	
				800	A-25,00x0800	
				1000	A-25,00x1000	
		40	32	25	200	A-32,00x0200
					250	A-32,00x0250
					315	A-32,00x0315
					400	A-32,00x0400
					500	A-32,00x0500
				630	A-32,00x0630	
				800	A-32,00x0800	
				1000	A-32,00x1000	

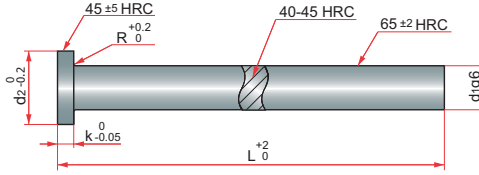
Ejector pin nitrided polished
 Expulsor nitrurado pulido
 Wypychacz azotowany polerowany
 Extrator nitrurado pulido
 Ejecteur nitre rode



Mat. : 1.2344 DIN 1530A / ISO 6751 - Maximum temperature at work: 550° C.

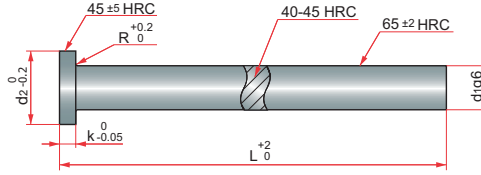
R	k	d2	d1	L	REF.
0,2	1,2	2,5	0,8	100	AP-00'80x0100
				125	AP-00'80x0125
				160	AP-00'80x0160
			0,9	100	AP-00'90x0100
				125	AP-00'90x0125
				1,0	100
		125	AP-01'00x0125		
		160	AP-01'00x0160		
		200	AP-01'00x0200		
			250	AP-01'00x0250	
			1,2	100	AP-01'20x0100
				125	AP-01'20x0125
	160	AP-01'20x0160			
	200	AP-01'20x0200			
	1,5	3	1,5	100	AP-01'50x0100
				125	AP-01'50x0125
				160	AP-01'50x0160
				200	AP-01'50x0200
		1,7	100	AP-01'70x0100	
			125	AP-01'70x0125	
160			AP-01'70x0160		
200			AP-01'70x0200		
2	4	2,0	100	AP-02'00x0100	
			125	AP-02'00x0125	
			160	AP-02'00x0160	
			160	AP-02'00x0160	

R	k	d2	d1	L	REF.
0,2	2	4	2,0	200	AP-02'00x0200
				250	AP-02'00x0250
				315	AP-02'00x0315
			2,1	125	AP-02'10x0125
				200	AP-02'10x0200
				315	AP-02'10x0315
		2,2	100	AP-02'20x0100	
			125	AP-02'20x0125	
			160	AP-02'20x0160	
			200	AP-02'20x0200	
		2,3	250	AP-02'20x0250	
			315	AP-02'20x0315	
	2,4		125	AP-02'30x0125	
			200	AP-02'30x0200	
		315	AP-02'30x0315		
	0,3	5	2,4	125	AP-02'40x0125
				200	AP-02'40x0200
				315	AP-02'40x0315
			2,5	100	AP-02'50x0100
		125		AP-02'50x0125	
160		AP-02'50x0160			
200		AP-02'50x0200			
2,5		4	2,0	250	AP-02'50x0250
	315			AP-02'50x0315	
	400			AP-02'50x0400	
	400			AP-02'50x0400	



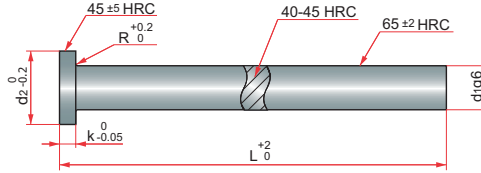
R	k	d2	d1	L	REF.
0,3	2	5	2,6	125	AP-02'60x0125
				200	AP-02'60x0200
				315	AP-02'60x0315
			2,7	100	AP-02'70x0100
				125	AP-02'70x0125
				160	AP-02'70x0160
				200	AP-02'70x0200
				250	AP-02'70x0250
				315	AP-02'70x0315
				2,8	125
			200		AP-02'80x0200
			315		AP-02'80x0315
	3	6	2,9	125	AP-02'90x0125
				200	AP-02'90x0200
				315	AP-02'90x0315
			3,0	100	AP-03'00x0100
				125	AP-03'00x0125
				160	AP-03'00x0160
		200		AP-03'00x0200	
		250		AP-03'00x0250	
		315		AP-03'00x0315	
		3,1	125	AP-03'10x0125	
			200	AP-03'10x0200	
			315	AP-03'10x0315	
3,2	100		AP-03'20x0100		
	125		AP-03'20x0125		
	160		AP-03'20x0160		
	200	AP-03'20x0200			
	250	AP-03'20x0250			
	315	AP-03'20x0315			

R	k	d2	d1	L	REF.	
0,3	3	6	3,2	400	AP-03'20x0400	
				500	AP-03'20x0500	
				800	AP-03'20x0800	
			3,3	125	AP-03'30x0125	
				200	AP-03'30x0200	
				3,4	125	AP-03'40x0125
			200		AP-03'40x0200	
			315		AP-03'40x0315	
			7	3,5	100	AP-03'50x0100
					125	AP-03'50x0125
					160	AP-03'50x0160
					200	AP-03'50x0200
	250	AP-03'50x0250				
	315	AP-03'50x0315				
	3,6	400		AP-03'50x0400		
		500		AP-03'50x0500		
		630		AP-03'50x0630		
		3,7		125	AP-03'60x0125	
				200	AP-03'60x0200	
		3,8		100	AP-03'70x0100	
	125		AP-03'70x0125			
	160		AP-03'70x0160			
	200		AP-03'70x0200			
	250		AP-03'70x0250			
315	AP-03'70x0315					
3,9	400	AP-03'70x0400				
	125	AP-03'80x0125				
	200	AP-03'80x0200				
	315	AP-03'80x0315				
	3,9	125	AP-03'90x0125			
		200	AP-03'90x0200			
315		AP-03'90x0315				



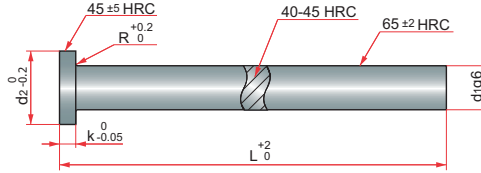
R	k	d2	d1	L	REF.
0,3	3	8	4,0	100	AP-04'00x0100
				125	AP-04'00x0125
				160	AP-04'00x0160
				200	AP-04'00x0200
				250	AP-04'00x0250
				315	AP-04'00x0315
				400	AP-04'00x0400
				500	AP-04'00x0500
				630	AP-04'00x0630
				800	AP-04'00x0800
				1000	AP-04'00x1000
				4,1	125
			200		AP-04'10x0200
			315		AP-04'10x0315
			4,2	100	AP-04'20x0100
				125	AP-04'20x0125
				160	AP-04'20x0160
				200	AP-04'20x0200
				250	AP-04'20x0250
				315	AP-04'20x0315
				400	AP-04'20x0400
				4,3	125
			200	AP-04'30x0200	
			4,4	125	AP-04'40x0125
				200	AP-04'40x0200
			4,5	100	AP-04'50x0100
				125	AP-04'50x0125
				160	AP-04'50x0160
				200	AP-04'50x0200
				250	AP-04'50x0250
				315	AP-04'50x0315
				400	AP-04'50x0400

R	k	d2	d1	L	REF.	
0,3	3	8	4,5	500	AP-04'50x0500	
				630	AP-04'50x0630	
				800	AP-04'50x0800	
				1000	AP-04'50x1000	
				4,6	125	AP-04'60x0125
			200	AP-04'60x0200		
			4,7	125	AP-04'70x0125	
				200	AP-04'70x0200	
				315	AP-04'70x0315	
			4,8	125	AP-04'80x0125	
				200	AP-04'80x0200	
			4,9	125	AP-04'90x0125	
				200	AP-04'90x0200	
			10	5,0	100	AP-05'00x0100
					125	AP-05'00x0125
					160	AP-05'00x0160
					200	AP-05'00x0200
					250	AP-05'00x0250
					315	AP-05'00x0315
					400	AP-05'00x0400
					500	AP-05'00x0500
					630	AP-05'00x0630
					800	AP-05'00x0800
					1000	AP-05'00x1000
5,1	160	AP-05'10x0160				
	250	AP-05'10x0250				
	400	AP-05'10x0400				
5,2	100	AP-05'20x0100				
	125	AP-05'20x0125				
	160	AP-05'20x0160				
	200	AP-05'20x0200				
	250	AP-05'20x0250				



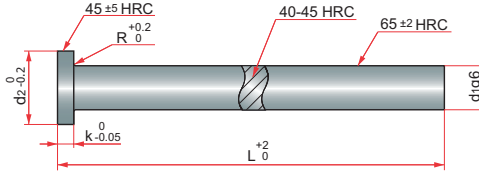
R	k	d2	d1	L	REF.
0,3	3	10	5,2	315	AP-05'20x0315
				400	AP-05'20x0400
				500	AP-05'20x0500
				630	AP-05'20x0630
				800	AP-05'20x0800
				1000	AP-05'20x1000
			5,3	160	AP-05'30x0160
				250	AP-05'30x0250
				400	AP-05'30x0400
			5,4	160	AP-05'40x0160
				250	AP-05'40x0250
				400	AP-05'40x0400
			5,5	100	AP-05'50x0100
				125	AP-05'50x0125
				160	AP-05'50x0160
				200	AP-05'50x0200
				250	AP-05'50x0250
				315	AP-05'50x0315
				400	AP-05'50x0400
				500	AP-05'50x0500
				630	AP-05'50x0630
				800	AP-05'50x0800
			5,6	160	AP-05'60x0160
				250	AP-05'60x0250
				400	AP-05'60x0400
				400	AP-05'60x0400
			5,7	160	AP-05'70x0160
				250	AP-05'70x0250
				400	AP-05'70x0400
			5,8	160	AP-05'80x0160
				250	AP-05'80x0250
				400	AP-05'80x0400

R	k	d2	d1	L	REF.
0,3	3	10	5,9	160	AP-05'90x0160
				250	AP-05'90x0250
				400	AP-05'90x0400
0,5	5	12	6,0	100	AP-06'00x0100
				125	AP-06'00x0125
				160	AP-06'00x0160
				200	AP-06'00x0200
				250	AP-06'00x0250
				315	AP-06'00x0315
				400	AP-06'00x0400
				500	AP-06'00x0500
				630	AP-06'00x0630
				800	AP-06'00x0800
			1000	AP-06'00x1000	
			6,1	160	AP-06'10x0160
				250	AP-06'10x0250
				400	AP-06'10x0400
			6,2	100	AP-06'20x0100
				125	AP-06'20x0125
				160	AP-06'20x0160
				200	AP-06'20x0200
				250	AP-06'20x0250
				315	AP-06'20x0315
				400	AP-06'20x0400
				500	AP-06'20x0500
				630	AP-06'20x0630
				800	AP-06'20x0800
			1000	AP-06'20x1000	
			6,3	250	AP-06'30x0250
				400	AP-06'30x0400
				400	AP-06'30x0400
6,4	250	AP-06'40x0250			
	400	AP-06'40x0400			



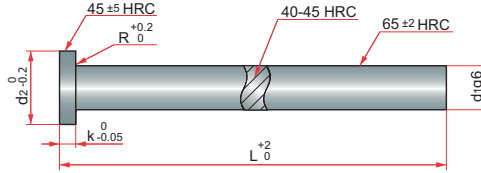
R	k	d2	d1	L	REF.
0,5	5	12	6,5	100	AP-06'50x0100
				125	AP-06'50x0125
				160	AP-06'50x0160
				200	AP-06'50x0200
				250	AP-06'50x0250
				315	AP-06'50x0315
				400	AP-06'50x0400
				500	AP-06'50x0500
				630	AP-06'50x0630
			6,6	160	AP-06'60x0160
				250	AP-06'60x0250
				400	AP-06'60x0400
			6,7	160	AP-06'70x0160
				250	AP-06'70x0250
				400	AP-06'70x0400
			6,8	160	AP-06'80x0160
				250	AP-06'80x0250
				400	AP-06'80x0400
			6,9	160	AP-06'90x0160
				250	AP-06'90x0250
				400	AP-06'90x0400
			7,0	100	AP-07'00x0100
				125	AP-07'00x0125
				160	AP-07'00x0160
				200	AP-07'00x0200
				250	AP-07'00x0250
				315	AP-07'00x0315
				400	AP-07'00x0400
				500	AP-07'00x0500
				630	AP-07'00x0630
				800	AP-07'00x0800
				7,1	160

R	k	d2	d1	L	REF.	
0,5	5	12	7,1	250	AP-07'10x0250	
				400	AP-07'10x0400	
			7,2	160	AP-07'20x0160	
				250	AP-07'20x0250	
			7,3	400	AP-07'20x0400	
				160	AP-07'30x0160	
				250	AP-07'30x0250	
			7,4	400	AP-07'30x0400	
				160	AP-07'40x0160	
				250	AP-07'40x0250	
			7,5	400	AP-07'40x0400	
				100	AP-07'50x0100	
				125	AP-07'50x0125	
			7,6	160	AP-07'50x0160	
				200	AP-07'50x0200	
				250	AP-07'50x0250	
				7,7	160	AP-07'60x0160
					250	AP-07'60x0250
			400		AP-07'60x0400	
			7,8	160	AP-07'70x0160	
				250	AP-07'70x0250	
				400	AP-07'70x0400	
			7,9	160	AP-07'80x0160	
				250	AP-07'80x0250	
				400	AP-07'80x0400	
			8,0	100	AP-07'90x0100	
				125	AP-07'90x0125	
				160	AP-07'90x0160	
				200	AP-07'90x0200	



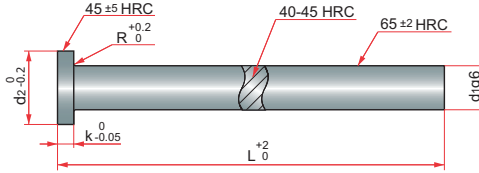
R	k	d2	d1	L	REF.
0,5	5	14	8,0	250	AP-08'00x0250
				315	AP-08'00x0315
				400	AP-08'00x0400
				500	AP-08'00x0500
				630	AP-08'00x0630
				800	AP-08'00x0800
				1000	AP-08'00x1000
				8,1	200
			400		AP-08'10x0400
			8,2	100	AP-08'20x0100
				125	AP-08'20x0125
				160	AP-08'20x0160
				200	AP-08'20x0200
				250	AP-08'20x0250
				315	AP-08'20x0315
				400	AP-08'20x0400
				500	AP-08'20x0500
				630	AP-08'20x0630
				800	AP-08'20x0800
				1000	AP-08'20x1000
				8,3	200
			400		AP-08'30x0400
			500		AP-08'30x0500
			8,4	200	AP-08'40x0200
				400	AP-08'40x0400
				500	AP-08'40x0500
			8,5	100	AP-08'50x0100
				125	AP-08'50x0125
				160	AP-08'50x0160
				200	AP-08'50x0200
				250	AP-08'50x0250
				315	AP-08'50x0315

R	k	d2	d1	L	REF.	
0,5	5	14	8,5	400	AP-08'50x0400	
				500	AP-08'50x0500	
				630	AP-08'50x0630	
			8,6	200	AP-08'60x0200	
				400	AP-08'60x0400	
			8,7	200	AP-08'70x0200	
				400	AP-08'70x0400	
			8,8	200	AP-08'80x0200	
				400	AP-08'80x0400	
			8,9	200	AP-08'90x0200	
				400	AP-08'90x0400	
				9,0	100	AP-09'00x0100
			125		AP-09'00x0125	
			160		AP-09'00x0160	
			200		AP-09'00x0200	
			250		AP-09'00x0250	
			315		AP-09'00x0315	
			400		AP-09'00x0400	
			9,1	500	AP-09'00x0500	
				630	AP-09'00x0630	
				200	AP-09'10x0200	
				400	AP-09'10x0400	
				9,2	200	AP-09'20x0200
					400	AP-09'20x0400
			9,3	200	AP-09'30x0200	
				400	AP-09'30x0400	
			9,4	200	AP-09'40x0200	
				400	AP-09'40x0400	
			9,5	100	AP-09'50x0100	
				125	AP-09'50x0125	
160	AP-09'50x0160					
200	AP-09'50x0200					



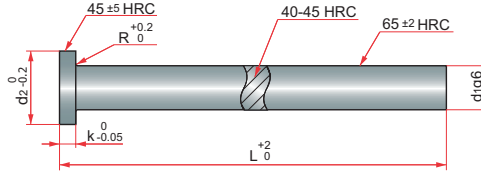
R	k	d2	d1	L	REF.	
0,5	5	14	9,5	250	AP-09'50x0250	
				315	AP-09'50x0315	
				400	AP-09'50x0400	
				500	AP-09'50x0500	
				630	AP-09'50x0630	
			16	9,6	200	AP-09'60x0200
					400	AP-09'60x0400
			9,7	200	AP-09'70x0200	
		400		AP-09'70x0400		
		9,8	200	AP-09'80x0200		
			400	AP-09'80x0400		
		9,9	200	AP-09'90x0200		
			400	AP-09'90x0400		
		10,0	100	AP-10'00x0100		
			125	AP-10'00x0125		
			160	AP-10'00x0160		
	200		AP-10'00x0200			
	250		AP-10'00x0250			
	315		AP-10'00x0315			
	400		AP-10'00x0400			
	500		AP-10'00x0500			
	630		AP-10'00x0630			
	800		AP-10'00x0800			
	10,1	200	AP-10'10x0200			
		400	AP-10'10x0400			
		10,2	100	AP-10'20x0100		
			125	AP-10'20x0125		
			160	AP-10'20x0160		
			200	AP-10'20x0200		
		250	AP-10'20x0250			
		315	AP-10'20x0315			

R	k	d2	d1	L	REF.		
0,5	5	16	10,2	400	AP-10'20x0400		
				500	AP-10'20x0500		
				630	AP-10'20x0630		
			10,5	100	AP-10'50x0100		
				125	AP-10'50x0125		
				160	AP-10'50x0160		
		11,0	200	AP-10'50x0200			
			250	AP-10'50x0250			
			315	AP-10'50x0315			
			400	AP-10'50x0400			
			500	AP-10'50x0500			
			630	AP-10'50x0630			
	0,8	7	18	11,5	800	AP-10'50x0800	
					1000	AP-10'50x1000	
					11,0	100	AP-11'00x0100
						125	AP-11'00x0125
						160	AP-11'00x0160
					11,5	200	AP-11'00x0200
				250		AP-11'00x0250	
				315		AP-11'00x0315	
				12,0	400	AP-11'00x0400	
					500	AP-11'00x0500	
					630	AP-11'00x0630	
					11,5	200	AP-11'50x0200
400	AP-11'50x0400						
630	AP-11'50x0630						
12,0	100	AP-12'00x0100					
	125	AP-12'00x0125					
	160	AP-12'00x0160					
	200	AP-12'00x0200					
	250	AP-12'00x0250					
	315	AP-12'00x0315					
	400	AP-12'00x0400					



R	k	d2	d1	L	REF.
0,8	7	18	12,0	500	AP-12'00x0500
				630	AP-12'00x0630
				800	AP-12'00x0800
				1000	AP-12'00x1000
			12,2	100	AP-12'20x0100
				125	AP-12'20x0125
				160	AP-12'20x0160
				200	AP-12'20x0200
				250	AP-12'20x0250
				315	AP-12'20x0315
				400	AP-12'20x0400
				500	AP-12'20x0500
			12,5	630	AP-12'20x0630
				100	AP-12'50x0100
				125	AP-12'50x0125
				160	AP-12'50x0160
		200		AP-12'50x0200	
		250		AP-12'50x0250	
		315		AP-12'50x0315	
		400		AP-12'50x0400	
		13,0	500	AP-12'50x0500	
			630	AP-12'50x0630	
			100	AP-13'00x0100	
			125	AP-13'00x0125	
			160	AP-13'00x0160	
			200	AP-13'00x0200	
			250	AP-13'00x0250	
			315	AP-13'00x0315	
		22	13,5	250	AP-13'50x0250
				400	AP-13'50x0400

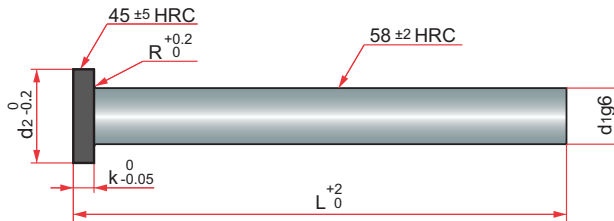
R	k	d2	d1	L	REF.
0,8	7	22	13,5	630	AP-13'50x0630
				14,0	100
			14,0	125	AP-14'00x0125
				160	AP-14'00x0160
				200	AP-14'00x0200
				250	AP-14'00x0250
				315	AP-14'00x0315
				400	AP-14'00x0400
				500	AP-14'00x0500
				630	AP-14'00x0630
				800	AP-14'00x0800
				1000	AP-14'00x1000
			14,5	250	AP-14'50x0250
				400	AP-14'50x0400
				630	AP-14'50x0630
			15,0	100	AP-15'00x0100
				125	AP-15'00x0125
				160	AP-15'00x0160
				200	AP-15'00x0200
				250	AP-15'00x0250
				400	AP-15'00x0400
				400	AP-15'00x0400
				400	AP-15'00x0400
			16,0	100	AP-16'00x0100
				125	AP-16'00x0125
				160	AP-16'00x0160
				200	AP-16'00x0200
				250	AP-16'00x0250
				315	AP-16'00x0315
				400	AP-16'00x0400
				500	AP-16'00x0500
				630	AP-16'00x0630
				800	AP-16'00x0800
			1000	AP-16'00x1000	



R	k	d2	d1	L	REF.	
0,8	7	22	16,2	200	AP-16'20x0200	
				400	AP-16'20x0400	
			16,5	200	AP-16'50x0200	
				400	AP-16'50x0400	
		24	18,0	100	AP-18'00x0100	
				125	AP-18'00x0125	
				160	AP-18'00x0160	
				200	AP-18'00x0200	
	250			AP-18'00x0250		
	315			AP-18'00x0315		
	1	8	26	20,0	100	AP-20'00x0100
					125	AP-20'00x0125
					160	AP-20'00x0160
					200	AP-20'00x0200
250					AP-20'00x0250	
315					AP-20'00x0315	
400					AP-20'00x0400	
500					AP-20'00x0500	
630					AP-20'00x0630	
630					AP-20'00x0630	

R	k	d2	d1	L	REF.	
1	8	26	20,0	800	AP-20'00x0800	
				1000	AP-20'00x1000	
			20,5	250	AP-20'50x0250	
				400	AP-20'50x0400	
		28	22,0	250	AP-22'00x0250	
				400	AP-22'00x0400	
		10	32	25,0	160	AP-25'00x0160
					200	AP-25'00x0200
					250	AP-25'00x0250
					315	AP-25'00x0315
	400				AP-25'00x0400	
	500				AP-25'00x0500	
	630				AP-25'00x0630	
	1000				AP-25'00x1000	
	10	40	32,0	200	AP-32'00x0200	
				250	AP-32'00x0250	
				315	AP-32'00x0315	
				400	AP-32'00x0400	
500				AP-32'00x0500		
630				AP-32'00x0630		
800				AP-32'00x0800		
1000				AP-32'00x1000		

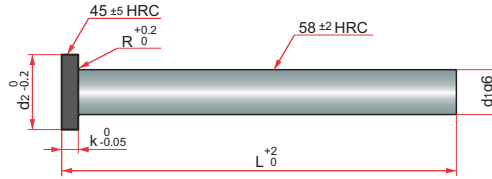
Ejector pin hardened
 Expulsor templado
 Wypychacz hartowany
 Extrator temperado
 Ejecteur trempé



Mat. : 1.2210 / 58 ± 2 HRC - DIN 1530AH - Maximum temperature at work: 220° C.

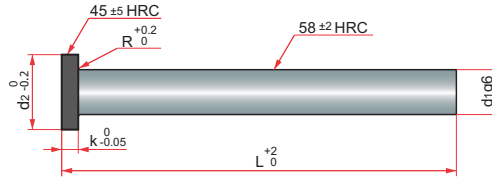
R	k	d2	d1	L	REF.
0,2	1,2	2,5	0,8	100	AH-00,80x0100
				125	AH-00,80x0125
				160	AH-00,80x0160
			0,9	100	AH-00,90x0100
				125	AH-00,90x0125
				1,0	100
		125	AH-01,00x0125		
		160	AH-01,00x0160		
		200	AH-01,00x0200		
		250	AH-01,00x0250		
		1,1	100		AH-01,10x0100
			125	AH-01,10x0125	
	160		AH-01,10x0160		
	200		AH-01,10x0200		
	1,2	100	AH-01,20x0100		
		125	AH-01,20x0125		
		160	AH-01,20x0160		
		200	AH-01,20x0200		
		1,3	100	AH-01,30x0100	
			125	AH-01,30x0125	
160			AH-01,30x0160		
200			AH-01,30x0200		
1,4	100	AH-01,40x0100			
	125	AH-01,40x0125			
	160	AH-01,40x0160			
	200	AH-01,40x0200			

R	k	d2	d1	L	REF.	
0,2	1,5	3	1,4	200	AH-01,40x0200	
				1,5	100	AH-01,50x0100
					125	AH-01,50x0125
			160		AH-01,50x0160	
			200		AH-01,50x0200	
			1,6		100	AH-01,60x0100
					125	AH-01,60x0125
				160	AH-01,60x0160	
			1,7	100	AH-01,70x0100	
		125		AH-01,70x0125		
		160		AH-01,70x0160		
		1,8	100	AH-01,80x0100		
			125	AH-01,80x0125		
			160	AH-01,80x0160		
		1,9	100	AH-01,90x0100		
			125	AH-01,90x0125		
			160	AH-01,90x0160		
		2	4	2,0	100	AH-02,00x0100
	125				AH-02,00x0125	
	160				AH-02,00x0160	
	200				AH-02,00x0200	



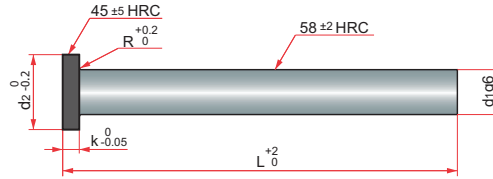
R	k	d2	d1	L	REF.		
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				315	AH-02,00x0315		
			2,1	125	AH-02,10x0125		
				200	AH-02,10x0200		
			315	AH-02,10x0315			
				2,2	100	AH-02,20x0100	
			125		AH-02,20x0125		
			160	AH-02,20x0160			
				200	AH-02,20x0200		
			250	AH-02,20x0250			
				315	AH-02,20x0315		
			2,3	125	AH-02,30x0125		
				200	AH-02,30x0200		
				315	AH-02,30x0315		
			0,3	5	2,4	125	AH-02,40x0125
						200	AH-02,40x0200
						315	AH-02,40x0315
					2,5	100	AH-02,50x0100
125	AH-02,50x0125						
160	AH-02,50x0160						
200	AH-02,50x0200						
250	AH-02,50x0250						
	315	AH-02,50x0315					
2,6	125	AH-02,60x0125					
	200	AH-02,60x0200					
	315	AH-02,60x0315					
2,7	100	AH-02,70x0100					
	125	AH-02,70x0125					
	160	AH-02,70x0160					
	200	AH-02,70x0200					
	250	AH-02,70x0250					
	315	AH-02,70x0315					

R	k	d2	d1	L	REF.		
0,3	2	5	2,8	125	AH-02,80x0125		
				200	AH-02,80x0200		
				315	AH-02,80x0315		
			3	6	2,9	125	AH-02,90x0125
						200	AH-02,90x0200
						315	AH-02,90x0315
	3,0	3,0	100	AH-03,00x0100			
			125	AH-03,00x0125			
			160	AH-03,00x0160			
			200	AH-03,00x0200			
			250	AH-03,00x0250			
			315	AH-03,00x0315			
			400	AH-03,00x0400			
			500	AH-03,00x0500			
			630	AH-03,00x0630			
			800	AH-03,00x0800			
			1000	AH-03,00x1000			
			3,1	3,1	125	AH-03,10x0125	
200	AH-03,10x0200						
315	AH-03,10x0315						
3,2	3,2	100			AH-03,20x0100		
		125			AH-03,20x0125		
		160			AH-03,20x0160		
200	AH-03,20x0200						
	250	AH-03,20x0250					
	315	AH-03,20x0315					
3,3	3,3	400	AH-03,20x0400				
			500	AH-03,20x0500			
			800	AH-03,20x0800			
		125	AH-03,30x0125				
			200	AH-03,30x0200			
			315	AH-03,30x0315			
3,4	3,4	125	AH-03,40x0125				



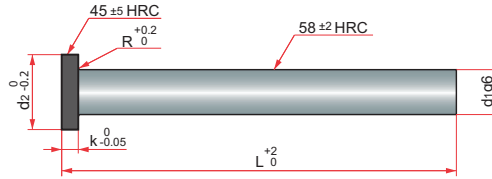
R	k	d2	d1	L	REF.	
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				315	AH-03,40x0315	
			7	3,5	100	AH-03,50x0100
					125	AH-03,50x0125
				160	AH-03,50x0160	
				200	AH-03,50x0200	
				250	AH-03,50x0250	
				315	AH-03,50x0315	
				400	AH-03,50x0400	
				500	AH-03,50x0500	
		630		AH-03,50x0630		
		3,6		125	AH-03,60x0125	
		200	AH-03,60x0200			
		3,7	100	AH-03,70x0100		
			125	AH-03,70x0125		
			160	AH-03,70x0160		
			200	AH-03,70x0200		
			250	AH-03,70x0250		
			315	AH-03,70x0315		
			400	AH-03,70x0400		
	3,8		125	AH-03,80x0125		
			200	AH-03,80x0200		
			315	AH-03,80x0315		
	3,9	125	AH-03,90x0125			
		200	AH-03,90x0200			
		315	AH-03,90x0315			
	8	4,0	100	AH-04,00x0100		
			125	AH-04,00x0125		
			160	AH-04,00x0160		
			200	AH-04,00x0200		
			250	AH-04,00x0250		
			315	AH-04,00x0315		

R	k	d2	d1	L	REF.	
0,3	3	8	4,0	400	AH-04,00x0400	
				500	AH-04,00x0500	
				630	AH-04,00x0630	
				800	AH-04,00x0800	
				1000	AH-04,00x1000	
				4,1	125	AH-04,10x0125
					200	AH-04,10x0200
					315	AH-04,10x0315
				4,2	100	AH-04,20x0100
					125	AH-04,20x0125
					160	AH-04,20x0160
					200	AH-04,20x0200
			250		AH-04,20x0250	
			315		AH-04,20x0315	
			4,3	125	AH-04,30x0125	
				200	AH-04,30x0200	
				4,4	125	AH-04,40x0125
			200		AH-04,40x0200	
			4,5	100	AH-04,50x0100	
				125	AH-04,50x0125	
				160	AH-04,50x0160	
				200	AH-04,50x0200	
				250	AH-04,50x0250	
				315	AH-04,50x0315	
				400	AH-04,50x0400	
				500	AH-04,50x0500	
			4,6	630	AH-04,50x0630	
				800	AH-04,50x0800	
				1000	AH-04,50x1000	
				125	AH-04,60x0125	
200	AH-04,60x0200					



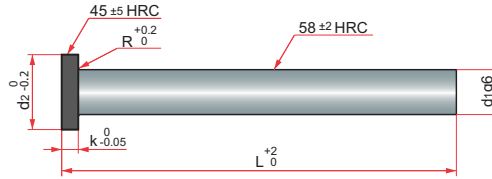
R	k	d2	d1	L	REF.	
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				125	AH-04,70x0125	
				160	AH-04,70x0160	
				200	AH-04,70x0200	
				250	AH-04,70x0250	
				315	AH-04,70x0315	
				400	AH-04,70x0400	
			4,8	125	AH-04,80x0125	
				200	AH-04,80x0200	
			4,9	125	AH-04,90x0125	
				200	AH-04,90x0200	
			10	5,0	100	AH-05,00x0100
					125	AH-05,00x0125
					160	AH-05,00x0160
		200			AH-05,00x0200	
		250			AH-05,00x0250	
		315			AH-05,00x0315	
		400			AH-05,00x0400	
		500			AH-05,00x0500	
		630			AH-05,00x0630	
		800			AH-05,00x0800	
		1000		AH-05,00x1000		
		5,1		160	AH-05,10x0160	
				250	AH-05,10x0250	
				400	AH-05,10x0400	
		5,2		100	AH-05,20x0100	
				125	AH-05,20x0125	
				160	AH-05,20x0160	
				200	AH-05,20x0200	
			250	AH-05,20x0250		
			315	AH-05,20x0315		
		400	AH-05,20x0400			

R	k	d2	d1	L	REF.
0,3	3	10	5,2	500	AH-05,20x0500
				630	AH-05,20x0630
				800	AH-05,20x0800
				1000	AH-05,20x1000
				160	AH-05,30x0160
			5,3	250	AH-05,30x0250
				400	AH-05,30x0400
				160	AH-05,40x0160
			5,4	250	AH-05,40x0250
				400	AH-05,40x0400
				100	AH-05,50x0100
			5,5	125	AH-05,50x0125
				160	AH-05,50x0160
				200	AH-05,50x0200
		250		AH-05,50x0250	
		315		AH-05,50x0315	
		400		AH-05,50x0400	
		500		AH-05,50x0500	
		630		AH-05,50x0630	
		800		AH-05,50x0800	
		160		AH-05,60x0160	
		5,6	250	AH-05,60x0250	
			400	AH-05,60x0400	
		5,7	160	AH-05,70x0160	
			250	AH-05,70x0250	
			400	AH-05,70x0400	
		5,8	160	AH-05,80x0160	
			250	AH-05,80x0250	
			400	AH-05,80x0400	
		5,9	160	AH-05,90x0160	
			250	AH-05,90x0250	
			400	AH-05,90x0400	



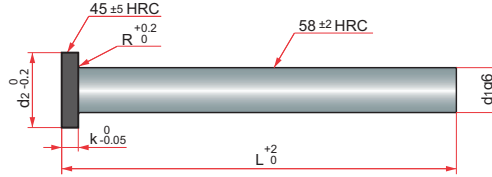
R	k	d2	d1	L	REF.
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				125	AH-06,00x0125
				160	AH-06,00x0160
				200	AH-06,00x0200
				250	AH-06,00x0250
				315	AH-06,00x0315
				400	AH-06,00x0400
				500	AH-06,00x0500
				630	AH-06,00x0630
				800	AH-06,00x0800
			1000	AH-06,00x1000	
			6,1	160	AH-06,10x0160
				250	AH-06,10x0250
				400	AH-06,10x0400
			6,2	100	AH-06,20x0100
				125	AH-06,20x0125
				160	AH-06,20x0160
				200	AH-06,20x0200
				250	AH-06,20x0250
				315	AH-06,20x0315
				400	AH-06,20x0400
				500	AH-06,20x0500
				630	AH-06,20x0630
				800	AH-06,20x0800
			1000	AH-06,20x1000	
			6,3	250	AH-06,30x0250
				400	AH-06,30x0400
			6,4	250	AH-06,40x0250
				400	AH-06,40x0400
			6,5	100	AH-06,50x0100
				125	AH-06,50x0125
				160	AH-06,50x0160
				200	AH-06,50x0200

R	k	d2	d1	L	REF.	
0,5	5	12	6,5	200	AH-06,50x0200	
				250	AH-06,50x0250	
				315	AH-06,50x0315	
				400	AH-06,50x0400	
				500	AH-06,50x0500	
				630	AH-06,50x0630	
				6,6	160	AH-06,60x0160
					250	AH-06,60x0250
					400	AH-06,60x0400
				6,7	160	AH-06,70x0160
			250		AH-06,70x0250	
			6,8	160	AH-06,80x0160	
				250	AH-06,80x0250	
			6,9	160	AH-06,90x0160	
				250	AH-06,90x0250	
				400	AH-06,90x0400	
			7,0	100	AH-07,00x0100	
				125	AH-07,00x0125	
				160	AH-07,00x0160	
				200	AH-07,00x0200	
				250	AH-07,00x0250	
				315	AH-07,00x0315	
				400	AH-07,00x0400	
				500	AH-07,00x0500	
			7,1	160	AH-07,10x0160	
				250	AH-07,10x0250	
				400	AH-07,10x0400	
				160	AH-07,20x0160	



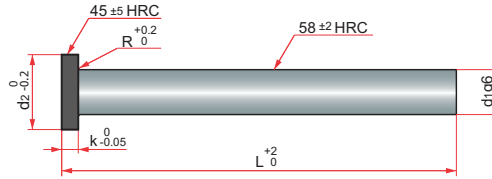
R	k	d2	d1	L	REF.	
0,5	5	12	7,2	250	AH-07,20x0250	
				400	AH-07,20x0400	
			7,3	160	AH-07,30x0160	
				250	AH-07,30x0250	
				400	AH-07,30x0400	
				7,4	160	AH-07,40x0160
			250		AH-07,40x0250	
			400		AH-07,40x0400	
			14		7,6	160
				250		AH-07,60x0250
				400		AH-07,60x0400
				7,7	160	AH-07,70x0160
		250			AH-07,70x0250	
		400			AH-07,70x0400	
		7,8		160	AH-07,80x0160	
				250	AH-07,80x0250	
			400	AH-07,80x0400		
		7,9	160	AH-07,90x0160		
			250	AH-07,90x0250		
			400	AH-07,90x0400		
			8,0	100	AH-08,00x0100	
		125		AH-08,00x0125		
		160		AH-08,00x0160		
		200		AH-08,00x0200		
		250		AH-08,00x0250		
		315		AH-08,00x0315		
		400		AH-08,00x0400		
		500		AH-08,00x0500		
		630		AH-08,00x0630		
		800		AH-08,00x0800		
		1000	AH-08,00x1000			
		8,1	200	AH-08,10x0200		

R	k	d2	d1	L	REF.	
0,5	5	14	8,1	400	AH-08,10x0400	
				8,2	100	AH-08,20x0100
			125		AH-08,20x0125	
			160		AH-08,20x0160	
			200		AH-08,20x0200	
			250		AH-08,20x0250	
			315		AH-08,20x0315	
			400		AH-08,20x0400	
			500		AH-08,20x0500	
			630		AH-08,20x0630	
			800		AH-08,20x0800	
			8,3		200	AH-08,30x0200
					400	AH-08,30x0400
				500	AH-08,30x0500	
			8,4	200	AH-08,40x0200	
				400	AH-08,40x0400	
				500	AH-08,40x0500	
			8,5	100	AH-08,50x0100	
				125	AH-08,50x0125	
				160	AH-08,50x0160	
				200	AH-08,50x0200	
				250	AH-08,50x0250	
				315	AH-08,50x0315	
				400	AH-08,50x0400	
				500	AH-08,50x0500	
				630	AH-08,50x0630	
				8,6	200	AH-08,60x0200
			400		AH-08,60x0400	
			8,7	200	AH-08,70x0200	
				400	AH-08,70x0400	
			8,8	200	AH-08,80x0200	
				400	AH-08,80x0400	



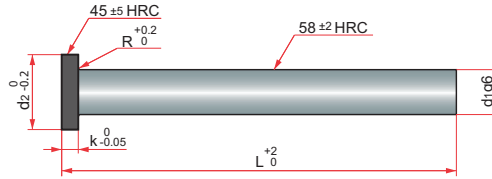
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				400	AH-08,90x0400
			9,0	100	AH-09,00x0100
				125	AH-09,00x0125
				160	AH-09,00x0160
				200	AH-09,00x0200
				250	AH-09,00x0250
				315	AH-09,00x0315
				400	AH-09,00x0400
				500	AH-09,00x0500
			630	AH-09,00x0630	
			9,1	200	AH-09,10x0200
				400	AH-09,10x0400
			9,2	200	AH-09,20x0200
				400	AH-09,20x0400
			9,3	200	AH-09,30x0200
				400	AH-09,30x0400
			9,4	200	AH-09,40x0200
		400		AH-09,40x0400	
		9,5	100	AH-09,50x0100	
			125	AH-09,50x0125	
			160	AH-09,50x0160	
			200	AH-09,50x0200	
			250	AH-09,50x0250	
			315	AH-09,50x0315	
			400	AH-09,50x0400	
			500	AH-09,50x0500	
		16	9,6	200	AH-09,60x0200
				400	AH-09,60x0400
		9,7	200	AH-09,70x0200	
			400	AH-09,70x0400	

R	k	d2	d1	L	REF.
0,5	5	16	9,8	200	AH-09,80x0200
				400	AH-09,80x0400
			9,9	200	AH-09,90x0200
				400	AH-09,90x0400
			10,0	100	AH-10,00x0100
				125	AH-10,00x0125
				160	AH-10,00x0160
				200	AH-10,00x0200
				250	AH-10,00x0250
				315	AH-10,00x0315
				400	AH-10,00x0400
				500	AH-10,00x0500
				630	AH-10,00x0630
				800	AH-10,00x0800
			1000	AH-10,00x1000	
			10,1	200	AH-10,10x0200
		400		AH-10,10x0400	
		10,2	100	AH-10,20x0100	
			125	AH-10,20x0125	
			160	AH-10,20x0160	
			200	AH-10,20x0200	
			250	AH-10,20x0250	
			315	AH-10,20x0315	
			400	AH-10,20x0400	
		10,5	100	AH-10,50x0100	
			125	AH-10,50x0125	
			160	AH-10,50x0160	
			200	AH-10,50x0200	
			250	AH-10,50x0250	
			315	AH-10,50x0315	



R	k	d2	d1	L	REF.			
0,5	5	16	10,5	400	AH-10,50x0400			
				500	AH-10,50x0500			
				630	AH-10,50x0630			
			11,0	100	AH-11,00x0100			
				125	AH-11,00x0125			
				160	AH-11,00x0160			
				200	AH-11,00x0200			
				250	AH-11,00x0250			
				315	AH-11,00x0315			
				400	AH-11,00x0400			
				500	AH-11,00x0500			
				630	AH-11,00x0630			
				11,5	200	AH-11,50x0200		
					400	AH-11,50x0400		
					630	AH-11,50x0630		
			0,8	7	18	12,0	100	AH-12,00x0100
							125	AH-12,00x0125
							160	AH-12,00x0160
200	AH-12,00x0200							
250	AH-12,00x0250							
315	AH-12,00x0315							
400	AH-12,00x0400							
500	AH-12,00x0500							
630	AH-12,00x0630							
800	AH-12,00x0800							
1000	AH-12,00x1000							
12,2	100	AH-12,20x0100						
	125	AH-12,20x0125						
	160	AH-12,20x0160						
	200	AH-12,20x0200						
	250	AH-12,20x0250						
	315	AH-12,20x0315						

R	k	d2	d1	L	REF.	
0,8	7	18	12,2	400	AH-12,20x0400	
				500	AH-12,20x0500	
				630	AH-12,20x0630	
				12,5	100	AH-12,50x0100
					125	AH-12,50x0125
					160	AH-12,50x0160
					200	AH-12,50x0200
					250	AH-12,50x0250
					315	AH-12,50x0315
			400		AH-12,50x0400	
			500		AH-12,50x0500	
			630		AH-12,50x0630	
			13,0	100	AH-13,00x0100	
				125	AH-13,00x0125	
				160	AH-13,00x0160	
				200	AH-13,00x0200	
				250	AH-13,00x0250	
				315	AH-13,00x0315	
				400	AH-13,00x0400	
				630	AH-13,00x0630	
				13,5	250	AH-13,50x0250
					400	AH-13,50x0400
					630	AH-13,50x0630
					14,0	100
			125			AH-14,00x0125
			160			AH-14,00x0160
			200			AH-14,00x0200
			250			AH-14,00x0250
			315			AH-14,00x0315
			400	AH-14,00x0400		
500	AH-14,00x0500					
630	AH-14,00x0630					



R	k	d2	d1	L	REF.
0,8	7	22	14,0	800	AH-14,00x0800
				1000	AH-14,00x1000
			14,5	250	AH-14,50x0250
				400	AH-14,50x0400
				630	AH-14,50x0630
			15,0	100	AH-15,00x0100
				125	AH-15,00x0125
				160	AH-15,00x0160
				200	AH-15,00x0200
				250	AH-15,00x0250
				400	AH-15,00x0400
				630	AH-15,00x0630
		16,0		100	AH-16,00x0100
			125	AH-16,00x0125	
			160	AH-16,00x0160	
			200	AH-16,00x0200	
			250	AH-16,00x0250	
			315	AH-16,00x0315	
			400	AH-16,00x0400	
			500	AH-16,00x0500	
			630	AH-16,00x0630	
			800	AH-16,00x0800	
		1000	AH-16,00x1000		
		16,2	200	AH-16,20x0200	
			400	AH-16,20x0400	
		16,5	200	AH-16,50x0200	
			400	AH-16,50x0400	
		24	18,0	100	AH-18,00x0100
				125	AH-18,00x0125
				160	AH-18,00x0160
				200	AH-18,00x0200
				250	AH-18,00x0250

R	k	d2	d1	L	REF.		
0,8	7	24	18,0	315	AH-18,00x0315		
				400	AH-18,00x0400		
				500	AH-18,00x0500		
				630	AH-18,00x0630		
1	8	26	20,0	100	AH-20,00x0100		
				125	AH-20,00x0125		
				160	AH-20,00x0160		
				200	AH-20,00x0200		
				250	AH-20,00x0250		
				315	AH-20,00x0315		
				400	AH-20,00x0400		
				500	AH-20,00x0500		
				630	AH-20,00x0630		
				800	AH-20,00x0800		
		1000	AH-20,00x1000				
		20,5	250	AH-20,50x0250			
			400	AH-20,50x0400			
			28	22,0	250	AH-22,00x0250	
					400	AH-22,00x0400	
			10	32	25,0	160	AH-25,00x0160
						200	AH-25,00x0200
						250	AH-25,00x0250
						315	AH-25,00x0315
						400	AH-25,00x0400
500	AH-25,00x0500						
630	AH-25,00x0630						

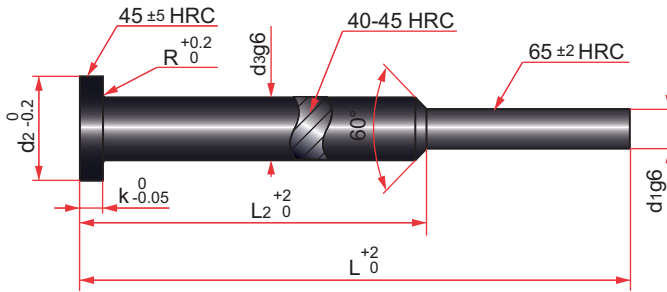
Black nitrited oxidized stepped ejector pin

Expulsor nitrurado mechado oxidado

Wypychacz odsadzany azotowany i oksydowany

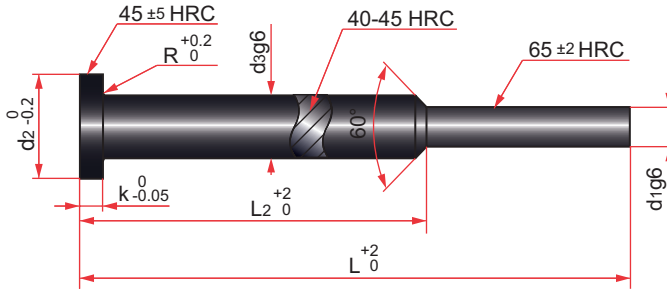
Extrator respigado nitrurado oxidado

Ejecteur epaulee nitruure baigne oxidized



Mat. : 1.2344 DIN 1530 / ISO 8694 - Maximum temperature at work: 550° C.

R	k	d2	d3	L2	d1	L	REF.	R	k	d2	d3	L2	d1	L	REF.		
0,2	2	4	2	32	0,8	80	CN-0,80x080	0,2	2	4	2	100	1,2	250	CN-1,20x250		
						100	CN-0,80x100							32	1,3	80	CN-1,30x080
						125	CN-0,80x125						50	1,3	100	CN-1,30x100	
						160	CN-0,80x160						50		125	CN-1,30x125	
				32	0,9	80	CN-0,90x080						63	1,4	80	CN-1,40x080	
						100	CN-0,90x100						80		100	CN-1,40x100	
						125	CN-0,90x125						100		125	CN-1,40x125	
						160	CN-0,90x160						32		1,4	80	CN-1,40x080
						200	CN-0,90x200						50		100	CN-1,40x100	
						80	200						CN-1,40x200				
				32	1	80	CN-1,00x080					50	125	CN-1,40x125			
						100	CN-1,00x100					63	160	CN-1,40x160			
						125	CN-1,00x125					80	200	CN-1,40x200			
						160	CN-1,00x160					100	250	CN-1,40x250			
						200	CN-1,00x200					32	1,5	80	CN-1,50x080		
						80	200					CN-1,50x200					
						100	250					CN-1,50x250					
						50	100					CN-1,50x100					
				32	1,1	80	CN-1,10x080					50	125	CN-1,50x125			
						100	CN-1,10x100					63	160	CN-1,50x160			
125	CN-1,10x125	80	200			CN-1,50x200											
160	CN-1,10x160	100	250			CN-1,50x250											
200	CN-1,10x200	32	1,6			80	CN-1,60x080										
80	200	CN-1,60x200															
100	250	CN-1,60x250															
50	100	CN-1,60x100															
32	1,2	80	CN-1,20x080			50	125	CN-1,60x125									
		100	CN-1,20x100			63	160	CN-1,60x160									
		125	CN-1,20x125	80	200	CN-1,60x200											
		160	CN-1,20x160	100	250	CN-1,60x250											
		200	CN-1,20x200	32	1,7	80	CN-1,70x080										
		80	200	CN-1,70x200													



R	k	d2	d3	L2	d1	L	REF.
0,3	3	6	3	50	1,7	100	CN-1,70x100
						125	CN-1,70x125
						160	CN-1,70x160
						200	CN-1,70x200
						250	CN-1,70x250
				32	1,8	80	CN-1,80x080
						100	CN-1,80x100
						125	CN-1,80x125
						160	CN-1,80x160
						200	CN-1,80x200
				50	1,9	80	CN-1,90x080
						100	CN-1,90x100
						125	CN-1,90x125
						160	CN-1,90x160
						200	CN-1,90x200
				100	2	80	CN-2,00x080
						100	CN-2,00x100
						125	CN-2,00x125
						160	CN-2,00x160
						200	CN-2,00x200
				32	2,1	80	CN-2,10x080
						100	CN-2,10x100
						125	CN-2,10x125
						160	CN-2,10x160
						200	CN-2,10x200
				50		250	CN-2,10x250
						315	CN-2,10x315
						80	CN-2,10x080
						100	CN-2,10x100
						125	CN-2,10x125
				160		160	CN-2,10x160
						200	CN-2,10x200
250	CN-2,10x250						
315	CN-2,10x315						

R	k	d2	d3	L2	d1	L	REF.			
0,3	3	6	3	32	2,2	80	CN-2,20x080			
						100	CN-2,20x100			
						125	CN-2,20x125			
						160	CN-2,20x160			
						200	CN-2,20x200			
				50		250	CN-2,20x250			
						315	CN-2,20x315			
						32	2,3	80	CN-2,30x080	
								100	CN-2,30x100	
								125	CN-2,30x125	
				160	CN-2,30x160					
				200	CN-2,30x200					
				100		250	CN-2,30x250			
						315	CN-2,30x315			
						32	2,4	80	CN-2,40x080	
								100	CN-2,40x100	
								125	CN-2,40x125	
				160	CN-2,40x160					
				200	CN-2,40x200					
				160		250	CN-2,40x250			
						315	CN-2,40x315			
						50	2,5	100	CN-2,50x100	
								125	CN-2,50x125	
								160	CN-2,50x160	
				200	CN-2,50x200					
				250	CN-2,50x250					
				160		315	CN-2,50x315			
						8	4	3	125	CN-3,00x125
									200	CN-3,00x200
									250	CN-3,00x250
									315	CN-3,00x315

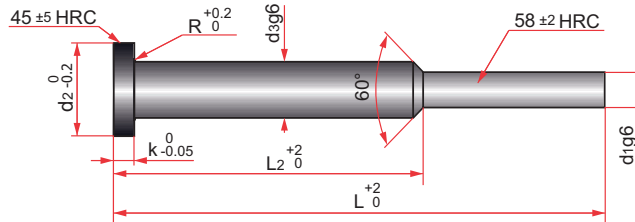
Hardened stepped ejector pin

Expulsor templado mechado

Wypychacz hartowany azotowany

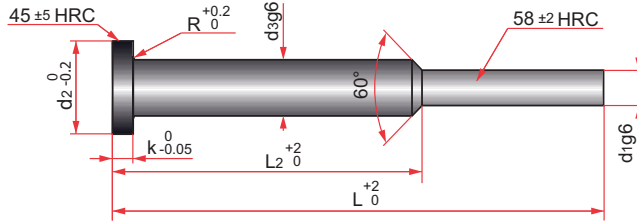
Extrator temperado respigado

Ejecteur à tête cylindrique épaulé trempé

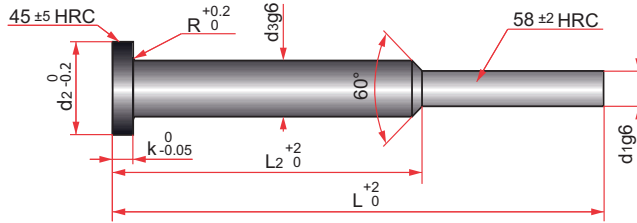


Mat. : 1.2210 / 58 ± 2 HRC. DIN 1530 / Maximum temperature at work: 220° C.

R	k	d2	d3	L2	d1	L	REF.
0,2	2	4	2	32	0,80	80	C-0,80x080
				50		100	C-0,80x100
						125	C-0,80x125
				63		160	C-0,80x160
				32	0,90	80	C-0,90x080
				50		100	C-0,90x100
						125	C-0,90x125
				63		160	C-0,90x160
				80	1,00	200	C-0,90x200
				32		80	C-1,00x080
				50		100	C-1,00x100
						125	C-1,00x125
				63	160	C-1,00x160	
				80	200	C-1,00x200	
				32	1,10	80	C-1,10x080
				50		100	C-1,10x100
						125	C-1,10x125
				63		160	C-1,10x160
				80	200	C-1,10x200	
				32	1,20	80	C-1,20x080
50	100	C-1,20x100					
	125	C-1,20x125					
63	160	C-1,20x160					
80	200	C-1,20x200					
32	1,30	80	C-1,30x080				
50		100	C-1,30x100				
		125	C-1,30x125				

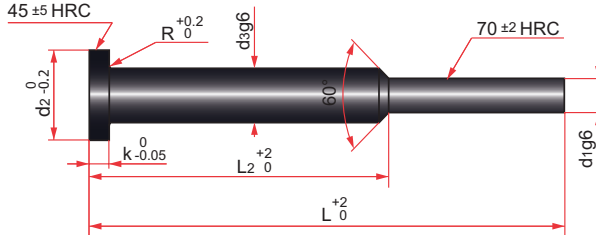


R	k	d2	d3	L2	d1	L	REF.
0,2	2	4	2	63	1,30	160	C-1,30x160
				80		200	C-1,30x200
				32	1,40	80	C-1,40x080
				50		100	C-1,40x100
						125	C-1,40x125
				63		160	C-1,40x160
80	200	C-1,40x200					
0,3	3	6	3	32	1,50	80	C-1,50x080
				50		100	C-1,50x100
						125	C-1,50x125
				63		160	C-1,50x160
				80	200	C-1,50x200	
				32	1,60	80	C-1,60x080
				50		100	C-1,60x100
						125	C-1,60x125
				63		160	C-1,60x160
				80	200	C-1,60x200	
				32	1,70	80	C-1,70x080
				50		100	C-1,70x100
						125	C-1,70x125
				63		160	C-1,70x160
				80	200	C-1,70x200	
				32	1,80	80	C-1,80x080
				50		100	C-1,80x100
						125	C-1,80x125
				63		160	C-1,80x160
				80	200	C-1,80x200	
				32	1,90	80	C-1,90x080
				50		100	C-1,90x100
						125	C-1,90x125
				63		160	C-1,90x160
80	200	C-1,90x200					



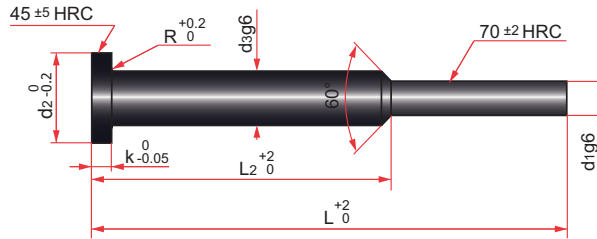
R	k	d2	d3	L2	d1	L	REF.			
0,3	3	6	3	32	2,00	80	C-2,00x080			
				50		100	C-2,00x100			
				63		125	C-2,00x125			
				80		160	C-2,00x160			
				200		200	C-2,00x200			
				32	2,10	80	C-2,10x080			
				50		100	C-2,10x100			
				63		125	C-2,10x125			
				80		160	C-2,10x160			
				200	200	C-2,10x200				
				32	2,20	80	C-2,20x080			
				50		100	C-2,20x100			
				63		125	C-2,20x125			
				80		160	C-2,20x160			
				200	200	C-2,20x200				
				32	2,30	80	C-2,30x080			
				50		100	C-2,30x100			
				63		125	C-2,30x125			
				80		160	C-2,30x160			
				200	200	C-2,30x200				
				32	2,40	80	C-2,40x080			
				50		100	C-2,40x100			
				63		125	C-2,40x125			
				80		160	C-2,40x160			
				200	200	C-2,40x200				
				50	2,50	100	C-2,50x100			
				63		125	C-2,50x125			
				80		160	C-2,50x160			
				200		200	C-2,50x200			
				250	250	C-2,50x250				
				8	4	4	50	3,00	125	C-3,00x125
				80			200		C-3,00x200	

Hardened stepped ejector pin DLC
 Expulsor templado mechado DLC
 Wypychacz hartowany azotowany DLC
 Extrator temperado respigado DLC
 Ejecteur à tête cylindrique épaulé trempé DLC

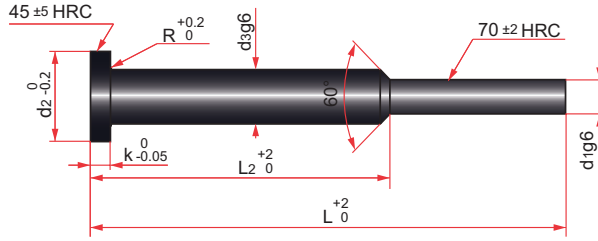


Mat. : 1.2210 / 58 ± 2 HRC. DIN 1530 / Dureza recubrimiento > 70 HRC. Maximum temperature at work: 220° C.

R	k	d2	d3	L2	d1	L	REF.
0,2	2	4	2	32	0,80	80	CDLC-0,80x080
				50		100	CDLC-0,80x100
						125	CDLC-0,80x125
				63		160	CDLC-0,80x160
				32	0,90	80	CDLC-0,90x080
				50		100	CDLC-0,90x100
						125	CDLC-0,90x125
				63		160	CDLC-0,90x160
				80		200	CDLC-0,90x200
				32	1,00	80	CDLC-1,00x080
				50		100	CDLC-1,00x100
						125	CDLC-1,00x125
				63		160	CDLC-1,00x160
				80		200	CDLC-1,00x200
				32	1,10	80	CDLC-1,10x080
				50		100	CDLC-1,10x100
						125	CDLC-1,10x125
				63		160	CDLC-1,10x160
				80		200	CDLC-1,10x200
				32	1,20	80	CDLC-1,20x080
50	100	CDLC-1,20x100					
	125	CDLC-1,20x125					
63	160	CDLC-1,20x160					
80		200	CDLC-1,20x200				
32	1,30	80	CDLC-1,30x080				
50		100	CDLC-1,30x100				
		125	CDLC-1,30x125				

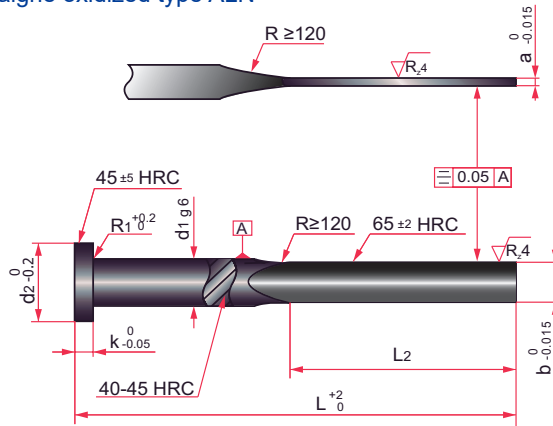


R	k	d2	d3	L2	d1	L	REF.	
0,2	2	4	2	63	1,30	160	CDLC-1,30x160	
				80		200	CDLC-1,30x200	
				32	1,40	80	CDLC-1,40x080	
				50		100	CDLC-1,40x100	
				63		125	CDLC-1,40x125	
				80		160	CDLC-1,40x160	
0,3	3	6	3	32	1,50	80	CDLC-1,50x080	
				50		100	CDLC-1,50x100	
				63		125	CDLC-1,50x125	
				80		160	CDLC-1,50x160	
				32	1,60	200	CDLC-1,50x200	
				32		1,60	80	CDLC-1,60x080
				50			100	CDLC-1,60x100
				63			125	CDLC-1,60x125
				80	160		CDLC-1,60x160	
				32	1,70	200	CDLC-1,60x200	
				32		1,70	80	CDLC-1,70x080
				50			100	CDLC-1,70x100
				63			125	CDLC-1,70x125
				80	160		CDLC-1,70x160	
				32	1,80	200	CDLC-1,70x200	
				32		1,80	80	CDLC-1,80x080
				50			100	CDLC-1,80x100
				63			125	CDLC-1,80x125
				80	160		CDLC-1,80x160	
				32	1,90	200	CDLC-1,80x200	
				32		1,90	80	CDLC-1,90x080
				50			100	CDLC-1,90x100
				63			125	CDLC-1,90x125
				80	160		CDLC-1,90x160	
32	1,90	200	CDLC-1,90x200					



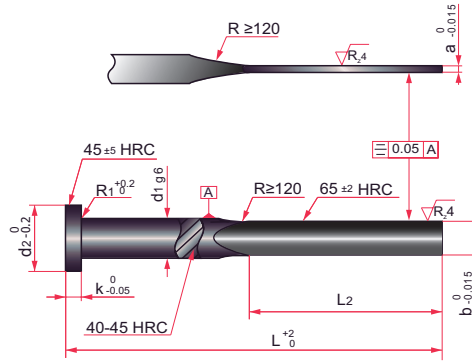
R	k	d2	d3	L2	d1	L	REF.			
0,3	3	6	3	32	2,00	80	CDLC-2,00x080			
				50		100	CDLC-2,00x100			
						125	CDLC-2,00x125			
				63		160	CDLC-2,00x160			
				80		200	CDLC-2,00x200			
				32	2,10	80	CDLC-2,10x080			
				50		100	CDLC-2,10x100			
				63		125	CDLC-2,10x125			
				80		160	CDLC-2,10x160			
				32	2,20	80	CDLC-2,20x080			
				50		100	CDLC-2,20x100			
				63		125	CDLC-2,20x125			
				80		160	CDLC-2,20x160			
				32	2,30	80	CDLC-2,30x080			
				50		100	CDLC-2,30x100			
				63		125	CDLC-2,30x125			
				80		160	CDLC-2,30x160			
				32	2,40	80	CDLC-2,40x080			
				50		100	CDLC-2,40x100			
				63		125	CDLC-2,40x125			
				80		160	CDLC-2,40x160			
				50	2,50	100	CDLC-2,50x100			
				63		125	CDLC-2,50x125			
				80		160	CDLC-2,50x160			
				200		200	CDLC-2,50x200			
						250	CDLC-2,50x250			
					8	4	50	3,00	125	CDLC-3,00x125
							80		200	CDLC-3,00x200

Flat ejector pin black nitrited oxidized ALN
 Expulsor laminar nitruado oxidado ALN
 Wypychacz płaski azotowany i oksydowany
 Extrator de lamina nitruado oxidado ALN
 Ejecteur lame nitre baigne oxidized type ALN

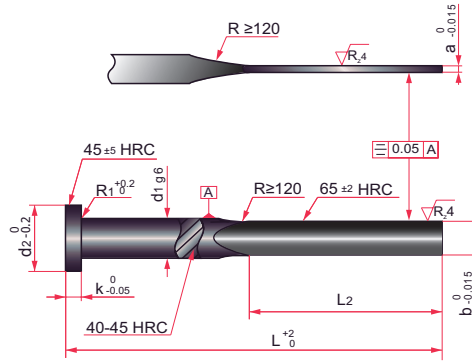


Mat. : 1.2344 DIN 1530 / ISO 8693 - Maximum temperature at work: 550° C.

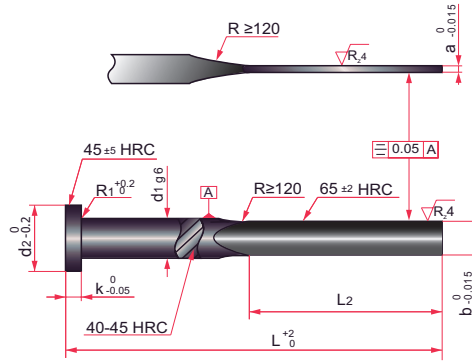
R1	k	d2	d1	L2	a	b	L	REF.		
0,3	3	6	3	40	0,8	2,8	80	ALN-0'8x02'8x080		
				50			100	ALN-0'8x02'8x100		
				60			125	ALN-0'8x02'8x125		
				80			160	ALN-0'8x02'8x160		
				100			200	ALN-0'8x02'8x200		
				125			250	ALN-0'8x02'8x250		
				155			315	ALN-0'8x02'8x315		
				40			1	80	ALN-1'0x02'8x080	
				50				100	ALN-1'0x02'8x100	
				60				125	ALN-1'0x02'8x125	
		80	160	ALN-1'0x02'8x160						
		100	200	ALN-1'0x02'8x200						
		125	250	ALN-1'0x02'8x250						
		155	315	ALN-1'0x02'8x315						
		8		4		40	0,8	3,5	80	ALN-0,8x03,5x080
						50			100	ALN-0,8x03,5x100
						60			125	ALN-0,8x03,5x125
						80			160	ALN-0,8x03,5x160
						40			1	80
				50	100	ALN-1,0x03,5x100				
60	125			ALN-1,0x03,5x125						
80	160			ALN-1,0x03,5x160						
40	1,2			80	ALN-1,2x03,5x080					



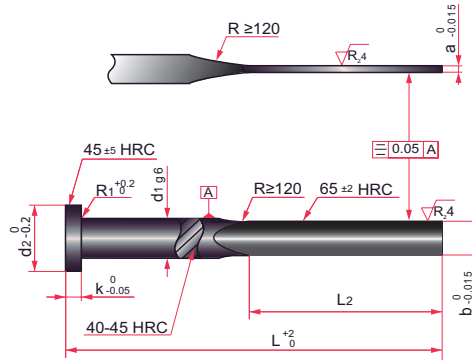
R1	k	d2	d1	L2	a	b	L	REF.		
0,3	3	8	4	50	1,2	3,5	100	ALN-1,2x03,5x100		
				60			125	ALN-1,2x03,5x125		
				80			160	ALN-1,2x03,5x160		
			4,2	0,8	40	3,8	80	ALN-0,8x03,8x080		
					50		100	ALN-0,8x03,8x100		
					60		125	ALN-0,8x03,8x125		
					80		160	ALN-0,8x03,8x160		
					100		200	ALN-0,8x03,8x200		
					125		250	ALN-0,8x03,8x250		
				1	40	3,8	80	ALN-1,0x03,8x080		
					50		100	ALN-1,0x03,8x100		
					60		125	ALN-1,0x03,8x125		
		80			160		ALN-1,0x03,8x160			
		100			200		ALN-1,0x03,8x200			
		125			250		ALN-1,0x03,8x250			
		1,2		40	3,8	80	ALN-1,2x03,8x080			
				50		100	ALN-1,2x03,8x100			
				60		125	ALN-1,2x03,8x125			
				80		160	ALN-1,2x03,8x160			
				100		200	ALN-1,2x03,8x200			
				125		250	ALN-1,2x03,8x250			
		10	5	0,8	4,5	40	1	80	ALN-1,0x04,5x080	
						50		100	ALN-1,0x04,5x100	
						60		125	ALN-1,0x04,5x125	
						80		160	ALN-1,0x04,5x160	
						100		200	ALN-1,0x04,5x200	
						125		250	ALN-1,0x04,5x250	
				1,2	40	4,5	80	1,2	80	ALN-1,2x04,5x080
					50		100		ALN-1,2x04,5x100	
					60		125		ALN-1,2x04,5x125	
80	160				ALN-1,2x04,5x160					
100	200				ALN-1,2x04,5x200					
125	250				ALN-1,2x04,5x250					



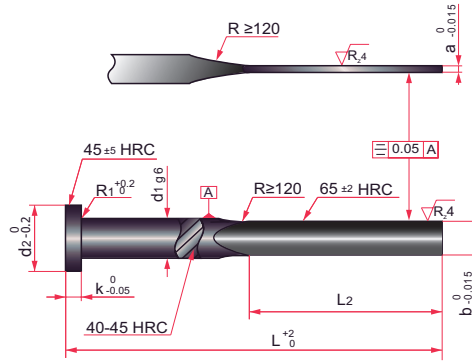
R1	k	d2	d1	L2	a	b	L	REF.					
0,3	3	10	5	60	1,2	4,5	125	ALN-1,2x04,5x125					
							160	ALN-1,2x04,5x160					
							200	ALN-1,2x04,5x200					
							250	ALN-1,2x04,5x250					
							315	ALN-1,2x04,5x315					
							40	1,5	80	ALN-1,5x04,5x080			
				50	100	ALN-1,5x04,5x100							
				60	125	ALN-1,5x04,5x125							
				80	160	ALN-1,5x04,5x160							
				100	200	ALN-1,5x04,5x200							
				125	250	ALN-1,5x04,5x250							
				155	315	ALN-1,5x04,5x315							
				0,5	5	12	6		40	1	5,5	80	ALN-1,0x05,5x080
												100	ALN-1,0x05,5x100
								125				ALN-1,0x05,5x125	
160	ALN-1,0x05,5x160												
200	ALN-1,0x05,5x200												
250	ALN-1,0x05,5x250												
315	ALN-1,0x05,5x315												
40	1,2	80	ALN-1,2x05,5x080										
50		100	ALN-1,2x05,5x100										
60		125	ALN-1,2x05,5x125										
80		160	ALN-1,2x05,5x160										
100		200	ALN-1,2x05,5x200										
125		250	ALN-1,2x05,5x250										
155	315	ALN-1,2x05,5x315											
40	1,5	80	ALN-1,5x05,5x080										
50		100	ALN-1,5x05,5x100										
60		125	ALN-1,5x05,5x125										
80		160	ALN-1,5x05,5x160										



R1	k	d2	d1	L2	a	b	L	REF.							
0,5	5	12	6	100	1,5	5,5	200	ALN-1,5x05,5x200							
							250	ALN-1,5x05,5x250							
							315	ALN-1,5x05,5x315							
				14	8	40	1,2	7,5	80	ALN-2,0x05,5x080					
									100	ALN-2,0x05,5x100					
									125	ALN-2,0x05,5x125					
									160	ALN-2,0x05,5x160					
									200	ALN-2,0x05,5x200					
									250	ALN-2,0x05,5x250					
									315	ALN-2,0x05,5x315					
									400	ALN-1,2x07,5x400					
									14	8	8	1,5	7,5	80	ALN-1,5x07,5x080
														100	ALN-1,5x07,5x100
														125	ALN-1,5x07,5x125
														160	ALN-1,5x07,5x160
	200	ALN-1,5x07,5x200													
	250	ALN-1,5x07,5x250													
	315	ALN-1,5x07,5x315													
	400	ALN-1,5x07,5x400													
	14	8	8	2	7,5	80	ALN-2,0x07,5x080								
						100	ALN-2,0x07,5x100								
						125	ALN-2,0x07,5x125								
						160	ALN-2,0x07,5x160								
						200	ALN-2,0x07,5x200								
						250	ALN-2,0x07,5x250								
						315	ALN-2,0x07,5x315								
						400	ALN-2,0x07,5x400								
						160	ALN-2,0x07,5x160								

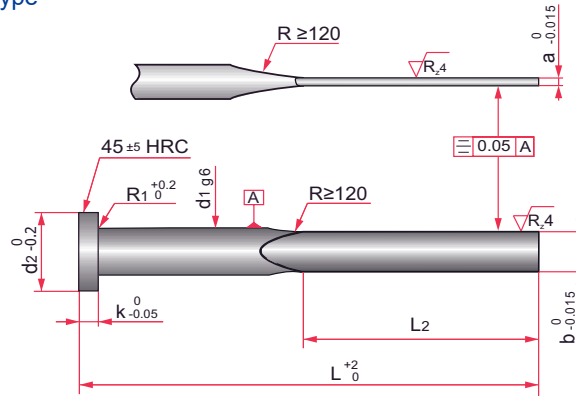


R1	k	d2	d1	L2	a	b	L	REF.							
0,5	5	14	8	100	2	7,5	200	ALN-2,0x07,5x200							
				125			250	ALN-2,0x07,5x250							
				155			315	ALN-2,0x07,5x315							
				200			400	ALN-2,0x07,5x400							
		16	10	50	1,5	9,5	100	100	ALN-1,5x09,5x100						
							125	125	ALN-1,5x09,5x125						
							160	160	ALN-1,5x09,5x160						
							200	200	ALN-1,5x09,5x200						
	125			250	315	250	ALN-1,5x09,5x250								
								400	ALN-1,5x09,5x400						
										50	2	100	100	ALN-2,0x09,5x100	
														125	125
	160	160	ALN-2,0x09,5x160												
	200	200	ALN-2,0x09,5x200												
	0,8	7	18	12	60	2,5	11,5	125	ALN-2,0x11,5x125						
								160	160	ALN-2,0x11,5x160					
200								200	ALN-2,0x11,5x200						
250								250	ALN-2,0x11,5x250						
315								315	ALN-2,0x11,5x315						
400								400	ALN-2,0x11,5x400						
60								80	100	125	250	315	400	125	ALN-2,5x11,5x125
														160	160
		200	200	ALN-2,5x11,5x200											
		250	250	ALN-2,5x11,5x250											
		315	315	ALN-2,5x11,5x315											
		400	400	ALN-2,5x11,5x400											



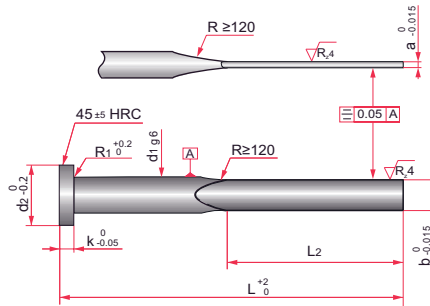
R1	k	d2	d1	L2	a	b	L	REF.
0,8	7	22	16	80	2	15,5	160	ALN-2,0x15,5x160
				100			200	ALN-2,0x15,5x200
				125			250	ALN-2,0x15,5x250
				155			315	ALN-2,0x15,5x315
				200			400	ALN-2,0x15,5x400
				80	2,5		160	ALN-2,5x15,5x160
				100			200	ALN-2,5x15,5x200
				125			250	ALN-2,5x15,5x250
				155			315	ALN-2'5x15'5x315
				200			400	ALN-2'5x15'5x400

Flat ejector pin hardened
 Expulsor laminar templado
 Wypychacz płaski hartowany
 Extrator de lamina temperado
 Ejecteur lame trempé type



Mat.: 1.2210 / 58 ± 2 HRC. DIN 1530A . Maximum temperature at work: $220^\circ C$

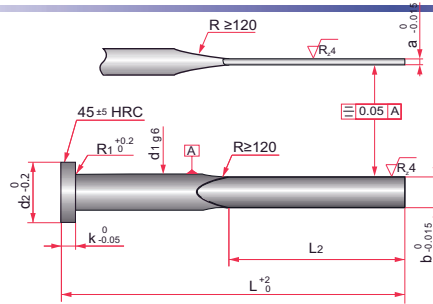
R1	k	d2	d1	L2	a	b	L	REF.			
0,3	3	8	4	40	0,8	3,5	80	AL-0,8x3,5x080			
				50			100	AL-0,8x3,5x100			
				60			125	AL-0,8x3,5x125			
				80			160	AL-0,8x3,5x160			
				40	1		80	AL-1,0x3,5x080			
				50			100	AL-1,0x3,5x100			
				60			125	AL-1,0x3,5x125			
				80			160	AL-1,0x3,5x160			
				40	1,2		80	AL-1,2x3,5x080			
				50			100	AL-1,2x3,5x100			
				60			125	AL-1,2x3,5x125			
				80			160	AL-1,2x3,5x160			
			4,2			4,2	40	0,8	3,8	80	AL-0,8x3,8x080
							50			100	AL-0,8x3,8x100
							60			125	AL-0,8x3,8x125
							80			160	AL-0,8x3,8x160
							100			200	AL-0,8x3,8x200
							40			1	80
						50	100	AL-1,0x3,8x100			
						60	125	AL-1,0x3,8x125			
						80	160	AL-1,0x3,8x160			
						100	200	AL-1,0x3,8x200			
						40	1,2	80			AL-1,2x3,8x080



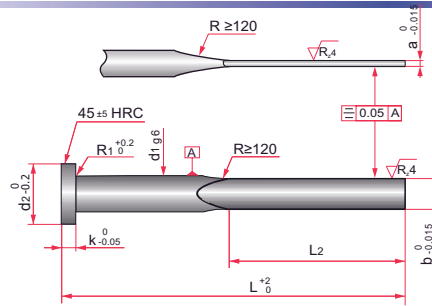
5

R1	k	d2	d1	L2	a	b	L	REF.						
0,3	3	8	4,2	50	1,2	3,8	100	AL-1,2x3,8x100						
				60			125	AL-1,2x3,8x125						
				80			160	AL-1,2x3,8x160						
				100			200	AL-1,2x3,8x200						
		10	5	10	5	40	1	4,5	80	AL-1,0x4,5x080				
						50			100	AL-1,0x4,5x100				
						60			125	AL-1,0x4,5x125				
						80			160	AL-1,0x4,5x160				
						100			200	AL-1,0x4,5x200				
						125			250	AL-1,0x4,5x250				
	40					1,2			80	AL-1,2x4,5x080				
	50								100	AL-1,2x4,5x100				
	60								125	AL-1,2x4,5x125				
	80								160	AL-1,2x4,5x160				
	10	5	10	5	100	1,5	4,5	200	AL-1,2x4,5x200					
					125			250	AL-1,2x4,5x250					
					40			80	AL-1,5x4,5x080					
					50			100	AL-1,5x4,5x100					
					60			125	AL-1,5x4,5x125					
					80			160	AL-1,5x4,5x160					
100					200			AL-1,5x4,5x200						
125					250			AL-1,5x4,5x250						
0,5					5			12	6	40	1	5,5	80	AL-1,0x5,5x080
										50			100	AL-1,0x5,5x100
	60	125	AL-1,0x5,5x125											
	80	160	AL-1,0x5,5x160											
	100	200	AL-1,0x5,5x200											
	125	250	AL-1,0x5,5x250											
	40	1,2	80	AL-1,2x5,5x080										
	50		100	AL-1,2x5,5x100										

E1725. Z 465

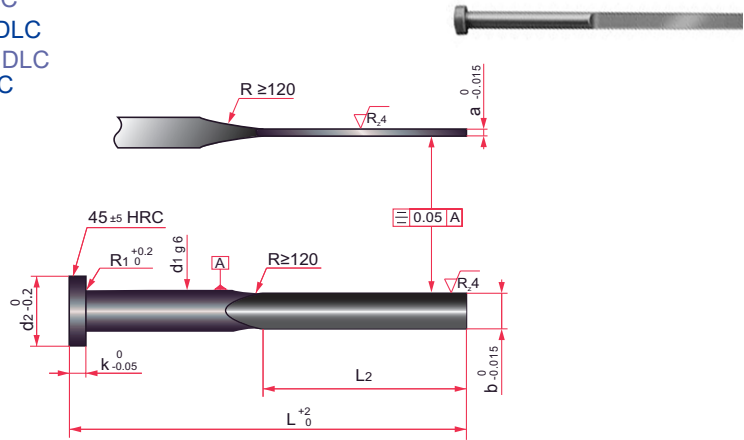


R1	k	d2	d1	L2	a	b	L	REF.		
0,5	5	12	6	60	1,2	5,5	125	AL-1,2x5,5x125		
				80			160	AL-1,2x5,5x160		
				100			200	AL-1,2x5,5x200		
				125			250	AL-1,2x5,5x250		
				40	1,5		80	AL-1,5x5,5x080		
				50			100	AL-1,5x5,5x100		
				60			125	AL-1,5x5,5x125		
				80			160	AL-1,5x5,5x160		
				100	200		AL-1,5x5,5x200			
				125	250		AL-1,5x5,5x250			
				40	2		80	AL-2,0x5,5x080		
				50			100	AL-2,0x5,5x100		
		60	125	AL-2,0x5,5x125						
		80	160	AL-2,0x5,5x160						
		100	200	AL-2,0x5,5x200						
		125	250	AL-2,0x5,5x250						
		14	8	12	6	40	1,2	7,5	80	AL-1,2x7,5x080
						50			100	AL-1,2x7,5x100
						60			125	AL-1,2x7,5x125
						80			160	AL-1,2x7,5x160
						100	200		AL-1,2x7,5x200	
						125	250		AL-1,2x7,5x250	
						40	1,5		80	AL-1,5x7,5x080
						50			100	AL-1,5x7,5x100
						60			125	AL-1,5x7,5x125
						80			160	AL-1,5x7,5x160
						100	200		AL-1,5x7,5x200	
						125	250		AL-1,5x7,5x250	
40	2			80	AL-2,0x7,5x080					
50				100	AL-2,0x7,5x100					



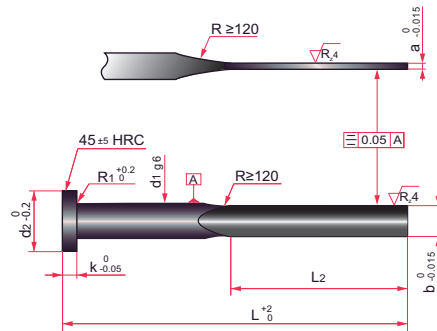
R1	k	d2	d1	L2	a	b	L	REF.	
0,5	5	14	8	60	2	7,5	125	AL-2,0x7,5x125	
				80			160	AL-2,0x7,5x160	
				100			200	AL-2,0x7,5x200	
				125			250	AL-2,0x7,5x250	
		16	10	10	50	1,5	9,5	100	AL-1,5x9,5x100
					60			125	AL-1,5x9,5x125
					80			160	AL-1,5x9,5x160
					100			200	AL-1,5x9,5x200
	50		2	10	50	2	9,5	100	AL-2,0x9,5x100
					60			125	AL-2,0x9,5x125
					80			160	AL-2,0x9,5x160
					100			200	AL-2,0x9,5x200
	0,8	7	18	12	60	2,5	11,5	125	AL-2,0x11,5x125
					80			160	AL-2,0x11,5x160
					100			200	AL-2,0x11,5x200
					125			250	AL-2,0x11,5x250
60					125			AL-2,5x11,5x125	
80					160			AL-2,5x11,5x160	
100					200			AL-2,5x11,5x200	
125					250			AL-2,5x11,5x250	
22			16	16	80	2	15,5	160	AL-2,0x15,5x160
					100			200	AL-2,0x15,5x200
					125			250	AL-2,0x15,5x250
					80			2,5	160
			100	200	AL-2,5x15,5x200				
			125	250	AL-2,5x15,5x250				

Flat ejector pin hardened DLC
 Expulsor laminar templado DLC
 Wypychacz płaski hartowany DLC
 Extrator de lamina temperado DLC
 Ejecteur lame trempé type DLC

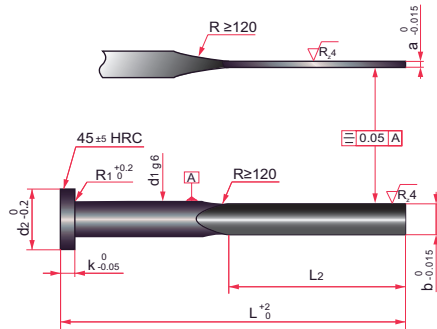


Mat.: 1.2210 / 58±2 HRC. DIN 1530A / Dureza recubrimiento > 70 HRC. Maximum temperature at work: 220° C

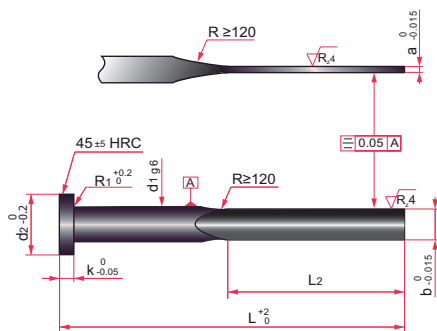
R1	k	d2	d1	L2	a	b	L	REF.	
0,3	3	8	4	40	0,8	3,5	80	ALDLC-0,8x3,5x080	
				50			100	ALDLC-0,8x3,5x100	
				60			125	ALDLC-0,8x3,5x125	
				80			160	ALDLC-0,8x3,5x160	
			40	1	80		ALDLC-1,0x3,5x080		
			50		100		ALDLC-1,0x3,5x100		
			60		125		ALDLC-1,0x3,5x125		
			80		160		ALDLC-1,0x3,5x160		
			40	1,2	80		ALDLC-1,2x3,5x080		
			50		100		ALDLC-1,2x3,5x100		
			60		125		ALDLC-1,2x3,5x125		
			80		160		ALDLC-1,2x3,5x160		
		4,2	4,2	0,8	4	40	3,8	80	ALDLC-0,8x3,8x080
		50				100		ALDLC-0,8x3,8x100	
		60				125		ALDLC-0,8x3,8x125	
		80				160		ALDLC-0,8x3,8x160	
		100		200	ALDLC-0,8x3,8x200				
		40		1	80	ALDLC-1,0x3,8x080			
		50			100	ALDLC-1,0x3,8x100			
		60			125	ALDLC-1,0x3,8x125			
		80			160	ALDLC-1,0x3,8x160			
		100		200	ALDLC-1,0x3,8x200				
		40		1,2	80	ALDLC-1,2x3,8x080			



R1	k	d2	d1	L2	a	b	L	REF.	
0,3	3	8	4,2	50	1,2	3,8	100	ALDLC-1,2x3,8x100	
				60			125	ALDLC-1,2x3,8x125	
				80			160	ALDLC-1,2x3,8x160	
				100			200	ALDLC-1,2x3,8x200	
		10	5	40	5	1	4,5	80	ALDLC-1,0x4,5x080
								100	ALDLC-1,0x4,5x100
								125	ALDLC-1,0x4,5x125
								160	ALDLC-1,0x4,5x160
			40	1,2	80	ALDLC-1,2x4,5x080			
					100	ALDLC-1,2x4,5x100			
	125				ALDLC-1,2x4,5x125				
	160				ALDLC-1,2x4,5x160				
	200				ALDLC-1,2x4,5x200				
	250				ALDLC-1,2x4,5x250				
	40	1,5	80	ALDLC-1,5x4,5x080					
			100	ALDLC-1,5x4,5x100					
			125	ALDLC-1,5x4,5x125					
			160	ALDLC-1,5x4,5x160					
			200	ALDLC-1,5x4,5x200					
			250	ALDLC-1,5x4,5x250					
0,5	5	12	6	40	1	5,5	80	ALDLC-1,0x5,5x080	
							100	ALDLC-1,0x5,5x100	
							125	ALDLC-1,0x5,5x125	
							160	ALDLC-1,0x5,5x160	
				100	200	ALDLC-1,0x5,5x200			
					250	ALDLC-1,0x5,5x250			
				40	1,2	80	ALDLC-1,2x5,5x080		
						100	ALDLC-1,2x5,5x100		



R1	k	d2	d1	L2	a	b	L	REF.			
0,5	5	12	6	60	1,2	5,5	125	ALDLC-1,2x5,5x125			
				80			160	ALDLC-1,2x5,5x160			
				100			200	ALDLC-1,2x5,5x200			
				125			250	ALDLC-1,2x5,5x250			
				40	1,5		80	ALDLC-1,5x5,5x80			
				50			100	ALDLC-1,5x5,5x100			
				60			125	ALDLC-1,5x5,5x125			
				80			160	ALDLC-1,5x5,5x160			
				100	200		ALDLC-1,5x5,5x200				
				125	250		ALDLC-1,5x5,5x250				
				40	2		80	ALDLC-2,0x5,5x80			
				50			100	ALDLC-2,0x5,5x100			
		60	125	ALDLC-2,0x5,5x125							
		80	160	ALDLC-2,0x5,5x160							
		100	200	ALDLC-2,0x5,5x200							
		125	250	ALDLC-2,0x5,5x250							
		14	8			8	40	1,2	7,5	80	ALDLC-1,2x7,5x80
							50			100	ALDLC-1,2x7,5x100
							60			125	ALDLC-1,2x7,5x125
							80			160	ALDLC-1,2x7,5x160
							100			200	ALDLC-1,2x7,5x200
					125		250			ALDLC-1,2x7,5x250	
					40		1,5	80		ALDLC-1,5x7,5x80	
					50			100		ALDLC-1,5x7,5x100	
					60			125		ALDLC-1,5x7,5x125	
					80			160		ALDLC-1,5x7,5x160	
					100			200		ALDLC-1,5x7,5x200	
					125			250		ALDLC-1,5x7,5x250	
					40		2	80		ALDLC-2,0x7,5x80	
					50			100		ALDLC-2,0x7,5x100	



R1	k	d2	d1	L2	a	b	L	REF.		
0,5	5	14	8	60	2	7,5	125	ALDLC-2,0x7,5x125		
				80			160	ALDLC-2,0x7,5x160		
				100			200	ALDLC-2,0x7,5x200		
				125			250	ALDLC-2,0x7,5x250		
		16	10	10	50	1,5	9,5	100	ALDLC-1,5x9,5x100	
					60			125	ALDLC-1,5x9,5x125	
					80			160	ALDLC-1,5x9,5x160	
					100			200	ALDLC-1,5x9,5x200	
	50		2	10	50	2	9,5	100	ALDLC-2,0x9,5x100	
					60			125	ALDLC-2,0x9,5x125	
					80			160	ALDLC-2,0x9,5x160	
					100			200	ALDLC-2,0x9,5x200	
	0,8	7	18	12	60	2,5	11,5	125	ALDLC-2,0x11,5x125	
					80			160	ALDLC-2,0x11,5x160	
					100			200	ALDLC-2,0x11,5x200	
					125			250	ALDLC-2,0x11,5x250	
60					2			11,5	125	ALDLC-2,5x11,5x125
80									160	ALDLC-2,5x11,5x160
100									200	ALDLC-2,5x11,5x200
125									250	ALDLC-2,5x11,5x250
22			16	16	80	2	15,5	160	ALDLC-2,0x15,5x160	
					100			200	ALDLC-2,0x15,5x200	
					125			250	ALDLC-2,0x15,5x250	
					80			2,5	15,5	160
			100	200	ALDLC-2,5x15,5x200					
			125	250	ALDLC-2,5x15,5x250					
			80	2,5	15,5	160	ALDLC-2,5x15,5x160			
			100			200	ALDLC-2,5x15,5x200			
125	250	ALDLC-2,5x15,5x250								

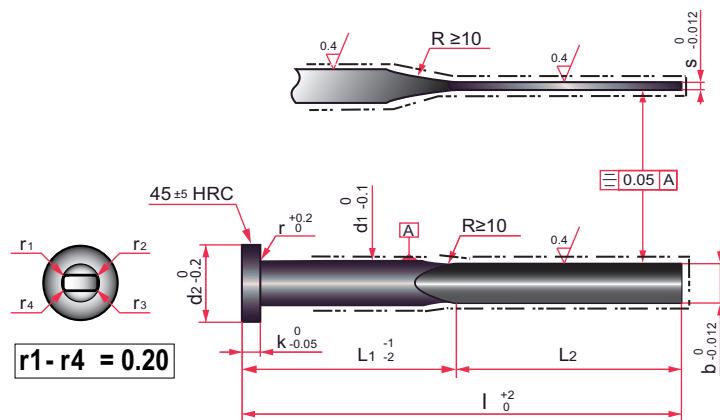
Flat ejector pin with 4 angle radii, through-hardened, with DLC coating

Expulsor laminar templado, 4 radios, con recubrimiento DLC

Wypychacz płaski, hartowany, końcówka 4R zaokrąglona, z powłoką DLC

Extrator de lâmina, temperado, 4 radios, com revestimento DLC

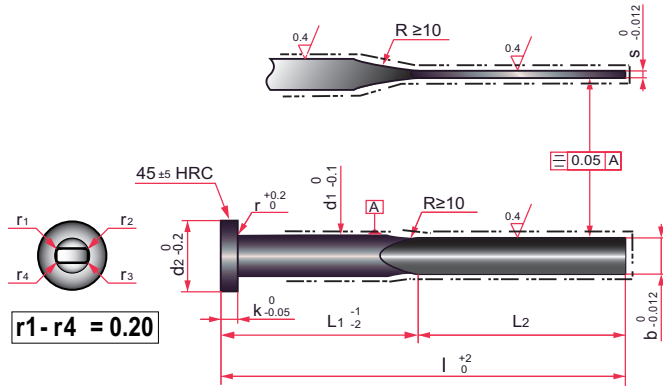
Éjecteur à lame, trempé avec 4 rayons et revêtement DLC



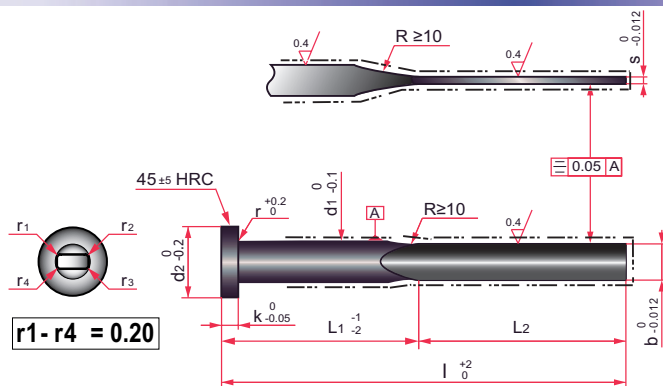
Material: SUJ2(58-62HRC)+DLC

DLC coated

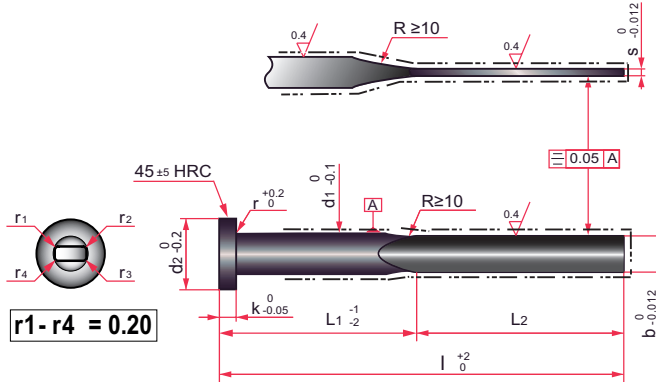
r	d1	d2	l1	l2	k	b	s	l	REF.			
0,3	3	6	50	50	3	2,8	0,5	100	BR1728DLC-02,8x0,5x100			
			60	65				125	BR1728DLC-02,8x0,5x125			
			80	80				160	BR1728DLC-02,8x0,5x160			
			50	50				0,6	100	BR1728DLC-02,8x0,6x100		
			60	65					125	BR1728DLC-02,8x0,6x125		
			80	80					160	BR1728DLC-02,8x0,6x160		
			50	50			0,8	100	BR1728DLC-02,8x0,8x100			
			60	65				125	BR1728DLC-02,8x0,8x125			
			80	80				160	BR1728DLC-02,8x0,8x160			
			100	100				200	BR1728DLC-02,8x0,8x200			
			50	50			1	100	BR1728DLC-02,8x1,0x100			
			60	65				125	BR1728DLC-02,8x1,0x125			
		80	80	160	BR1728DLC-02,8x1,0x160							
		100	100	200	BR1728DLC-02,8x1,0x200							
		4,2	8	8	50	50	3,8	3,8	0,5	100	BR1728DLC-03,8x0,5x100	
					60	65				125	BR1728DLC-03,8x0,5x125	
					80	80				160	BR1728DLC-03,8x0,5x160	
					50	50				0,6	100	BR1728DLC-03,8x0,6x100
					60	65					125	BR1728DLC-03,8x0,6x125
					80	80					160	BR1728DLC-03,8x0,6x160
100	100				200	BR1728DLC-03,8x0,6x200						
50	50				0,8	100			BR1728DLC-03,8x0,8x100			
60	65					125			BR1728DLC-03,8x0,8x125			



r	d1	d2	l1	l2	k	b	s	l	REF.
0,3	4,2	8	80	80	3	3,8	0,8	160	BR1728DLC-03,8x0,8x160
			100	100				200	BR1728DLC-03,8x0,8x200
			125	125				250	BR1728DLC-03,8x0,8x250
		50	50	1			100	BR1728DLC-03,8x1,0x100	
		60	65				125	BR1728DLC-03,8x1,0x125	
		80	80				160	BR1728DLC-03,8x1,0x160	
		100	100				200	BR1728DLC-03,8x1,0x200	
		125	125				250	BR1728DLC-03,8x1,0x250	
		160	155				315	BR1728DLC-03,8x1,0x315	
		50	50	1,2			100	BR1728DLC-03,8x1,2x100	
		60	65				125	BR1728DLC-03,8x1,2x125	
		80	80				160	BR1728DLC-03,8x1,2x160	
	100	100	200		BR1728DLC-03,8x1,2x200				
	125	125	250		BR1728DLC-03,8x1,2x250				
	160	155	315		BR1728DLC-03,8x1,2x315				
	5	10	50	50	4,5	1	100	BR1728DLC-04,5x1,0x100	
							125	BR1728DLC-04,5x1,0x125	
							160	BR1728DLC-04,5x1,0x160	
							200	BR1728DLC-04,5x1,0x200	
							250	BR1728DLC-04,5x1,0x250	
							315	BR1728DLC-04,5x1,0x315	
			50	50		1,2	100	BR1728DLC-04,5x1,2x100	
			60	65			125	BR1728DLC-04,5x1,2x125	
			80	80			160	BR1728DLC-04,5x1,2x160	
100			100	200			BR1728DLC-04,5x1,2x200		
125			125	250			BR1728DLC-04,5x1,2x250		
160			155	315			BR1728DLC-04,5x1,2x315		
50			50	1,5		100	BR1728DLC-04,5x1,5x100		
60			65			125	BR1728DLC-04,5x1,5x125		
80			80			160	BR1728DLC-04,5x1,5x160		

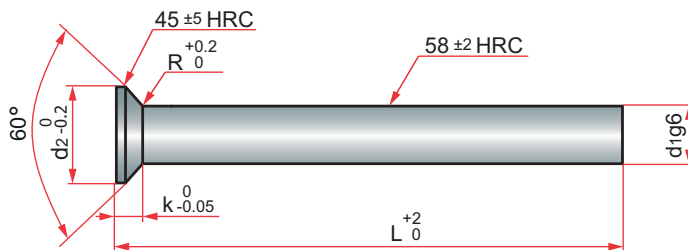


r	d1	d2	l1	l2	k	b	s	l	REF.	
0,3	5	10	100	100	3	4,5	1,5	200	BR1728DLC-04,5x1,5x200	
			125	125				250	BR1728DLC-04,5x1,5x250	
			160	155				315	BR1728DLC-04,5x1,5x315	
0,5	6	12	50	50	5	5,5	1	100	BR1728DLC-05,5x1,0x100	
			60	65				125	BR1728DLC-05,5x1,0x125	
			80	80				160	BR1728DLC-05,5x1,0x160	
			100	100				200	BR1728DLC-05,5x1,0x200	
			125	125				250	BR1728DLC-05,5x1,0x250	
			160	155				315	BR1728DLC-05,5x1,0x315	
			50	50				1,2	100	BR1728DLC-05,5x1,2x100
			60	65					125	BR1728DLC-05,5x1,2x125
			80	80					160	BR1728DLC-05,5x1,2x160
			100	100					200	BR1728DLC-05,5x1,2x200
			125	125					250	BR1728DLC-05,5x1,2x250
			160	155					315	BR1728DLC-05,5x1,2x315
			50	50			1,5		100	BR1728DLC-05,5x1,5x100
			60	65					125	BR1728DLC-05,5x1,5x125
			80	80					160	BR1728DLC-05,5x1,5x160
			100	100					200	BR1728DLC-05,5x1,5x200
			125	125					250	BR1728DLC-05,5x1,5x250
			160	155					315	BR1728DLC-05,5x1,5x315
			50	50				2	100	BR1728DLC-05,5x2,0x100
			60	65					125	BR1728DLC-05,5x2,0x125
			80	80					160	BR1728DLC-05,5x2,0x160
			100	100					200	BR1728DLC-05,5x2,0x200
			125	125					250	BR1728DLC-05,5x2,0x250
			160	155					315	BR1728DLC-05,5x2,0x315
			50	50			7,5		100	BR1728DLC-07,5x1,2x100
			60	65					125	BR1728DLC-07,5x1,2x125
			80	80					160	BR1728DLC-07,5x1,2x160



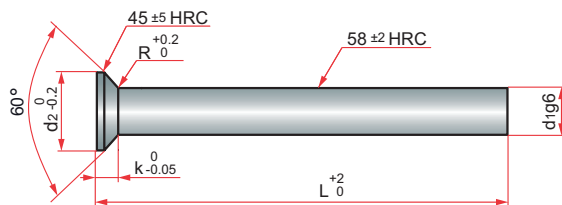
r	d1	d2	l1	l2	k	b	s	l	REF.	
0,5	8	14	100	100	5	7,5	1,2	200	BR1728DLC-07,5x1,2x200	
			125	125				250	BR1728DLC-07,5x1,2x250	
			160	155				315	BR1728DLC-07,5x1,2x315	
			60	65				1,5	125	BR1728DLC-07,5x1,5x125
		80	80	160			BR1728DLC-07,5x1,5x160			
		100	100	200			BR1728DLC-07,5x1,5x200			
		125	125	250			BR1728DLC-07,5x1,5x250			
		160	155	315			BR1728DLC-07,5x1,5x315			
	80	80	2	160	BR1728DLC-07,5x2,0x160					
	100	100	200	BR1728DLC-07,5x2,0x200						
	125	125	250	BR1728DLC-07,5x2,0x250						
	160	155	315	BR1728DLC-07,5x2,0x315						
	0,8	12	16	80	80	7	9,5	1,5	160	BR1728DLC-09,5x1,5x160
				100	100				200	BR1728DLC-09,5x1,5x200
				125	125				250	BR1728DLC-09,5x1,5x250
				160	155				315	BR1728DLC-09,5x1,5x315
100			100	2	200			BR1728DLC-09,5x2,0x200		
125			125	250	BR1728DLC-09,5x2,0x250					
160			155	315	BR1728DLC-09,5x2,0x315					
0,8			12	18	100			100	7	11,5
	125	125			250	BR1728DLC-11,5x2,0x250				
	160	155			315	BR1728DLC-11,5x2,0x315				
	100	100			2,5	200	BR1728DLC-11,5x2,5x200			
	125	125				250	BR1728DLC-11,5x2,5x250			
	160	155				315	BR1728DLC-11,5x2,5x315			

Ejector pin hardened
Expulsor templado
Wypychacz hartowany z łbem stożkowym
Extrator temperado
Ejecteur trempé



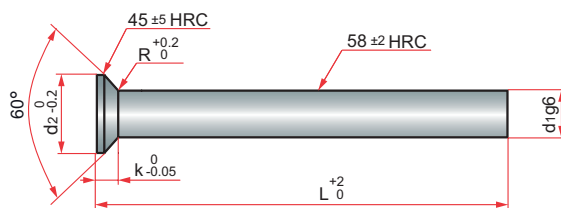
Mat. : 1.2210 / $58 \pm 2 \text{ HRC}$ - DIN 1530D - Maximum temperature at work: 220°C .

R	k	d2	d1	L	REF.	R	k	d2	d1	L	REF.
0,4	1,2	1,8	1,00	70	D-01,00x070	0,4	1,2	2,2	1,40	70	D-01,40x070
				100	D-01,00x100					100	D-01,40x100
				125	D-01,00x125					125	D-01,40x125
				160	D-01,00x160					160	D-01,40x160
				200	D-01,00x200					200	D-01,40x200
	1,1	1,10	70	D-01,10x070	1,1		1,50	80	D-01,50x080		
			100	D-01,10x100				100	D-01,50x100		
			125	D-01,10x125				125	D-01,50x125		
			160	D-01,10x160				160	D-01,50x160		
			200	D-01,10x200				200	D-01,50x200		
	1,2	2	1,20	70	D-01,20x070		1,2	2,5	1,60	70	D-01,60x070
				100	D-01,20x100					100	D-01,60x100
				125	D-01,20x125					125	D-01,60x125
				160	D-01,20x160					160	D-01,60x160
				200	D-01,20x200					200	D-01,60x200
	1,1	1,25	70	D-01,25x070	1,70		70	D-01,70x070			
			100	D-01,25x100			100	D-01,70x100			
			125	D-01,25x125			125	D-01,70x125			
			160	D-01,25x160			160	D-01,70x160			
			200	D-01,25x200			200	D-01,70x200			
1,30		70	D-01,30x070	1,5	2,8	1,75	70	D-01,75x070			
		100	D-01,30x100				100	D-01,75x100			
		125	D-01,30x125				125	D-01,75x125			
		160	D-01,30x160				160	D-01,75x160			
		200	D-01,30x200				200	D-01,75x200			



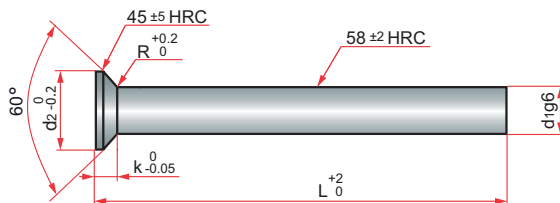
R	k	d2	d1	L	REF.	
0,4	1,4	2,8	1,80	70	D-01,80x070	
				100	D-01,80x100	
				125	D-01,80x125	
				160	D-01,80x160	
				200	D-01,80x200	
	1,3			1,90	70	D-01,90x070
					100	D-01,90x100
					125	D-01,90x125
					160	D-01,90x160
					200	D-01,90x200
	1,4	3		2,00	80	D-02,00x080
					100	D-02,00x100
					125	D-02,00x125
					160	D-02,00x160
					200	D-02,00x200
					250	D-02,00x250
					315	D-02,00x315
	1,5	3,2		2,10	70	D-02,10x070
					100	D-02,10x100
					125	D-02,10x125
160					D-02,10x160	
200					D-02,10x200	
1,4			2,20	70	D-02,20x070	
				100	D-02,20x100	
				125	D-02,20x125	
				160	D-02,20x160	
				200	D-02,20x200	
1,5	3,5		2,25	70	D-02,25x070	
				100	D-02,25x100	
				125	D-02,25x125	
				160	D-02,25x160	
				200	D-02,25x200	

R	k	d2	d1	L	REF.	
0,4	1,5	3,5	2,30	70	D-02,30x070	
				100	D-02,30x100	
				125	D-02,30x125	
				160	D-02,30x160	
				200	D-02,30x200	
	1,4			2,40	70	D-02,40x070
					100	D-02,40x100
					125	D-02,40x125
					160	D-02,40x160
					200	D-02,40x200
	1,7	4		2,50	80	D-02,50x080
					100	D-02,50x100
					125	D-02,50x125
					160	D-02,50x160
					200	D-02,50x200
1,6			2,60	70	D-02,60x070	
				100	D-02,60x100	
				125	D-02,60x125	
				160	D-02,60x160	
				200	D-02,60x200	
1,6			2,70	70	D-02,70x070	
				100	D-02,70x100	
				125	D-02,70x125	
				160	D-02,70x160	
				200	D-02,70x200	
1,5			2,75	70	D-02,75x070	
				100	D-02,75x100	
				125	D-02,75x125	
				160	D-02,75x160	
				200	D-02,75x200	
1,5			2,80	70	D-02,80x070	



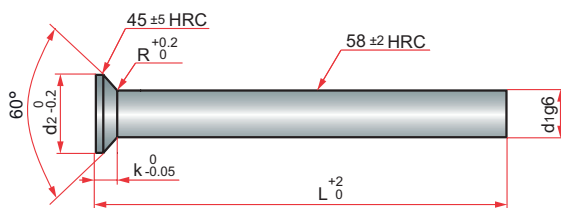
R	k	d2	d1	L	REF.
0,4	1,5	4	2,80	100	D-02,80x100
				125	D-02,80x125
				160	D-02,80x160
				200	D-02,80x200
		2,90	70	D-02,90x070	
			100	D-02,90x100	
			125	D-02,90x125	
			160	D-02,90x160	
	1,8	4,5	3,00	80	D-03,00x080
				100	D-03,00x100
				125	D-03,00x125
				160	D-03,00x160
				200	D-03,00x200
				250	D-03,00x250
				315	D-03,00x315
				1,7	3,10
	100	D-03,10x100			
	125	D-03,10x125			
	160	D-03,10x160			
	200	D-03,10x200			
3,20	70	D-03,20x070			
	100	D-03,20x100			
	125	D-03,20x125			
	160	D-03,20x160			
	200	D-03,20x200			
	3,25	70	D-03,25x070		
100		D-03,25x100			
125		D-03,25x125			
160		D-03,25x160			
200		D-03,25x200			
3,30		70	D-03,30x070		

R	k	d2	d1	L	REF.		
0,4	1,7	4,5	3,30	100	D-03,30x100		
				125	D-03,30x125		
				160	D-03,30x160		
				200	D-03,30x200		
		3,40	70	D-03,40x070			
			100	D-03,40x100			
			125	D-03,40x125			
			160	D-03,40x160			
			200	D-03,40x200			
			1,8	5	3,50	80	D-03,50x080
						100	D-03,50x100
						125	D-03,50x125
	160	D-03,50x160					
	200	D-03,50x200					
	250	D-03,50x250					
	1,7	3,60				70	D-03,60x070
						100	D-03,60x100
			125	D-03,60x125			
			160	D-03,60x160			
			200	D-03,60x200			
3,70			70	D-03,70x070			
		100	D-03,70x100				
		125	D-03,70x125				
		160	D-03,70x160				
		200	D-03,70x200				
		3,75	70	D-03,75x070			
100			D-03,75x100				
125	D-03,75x125						
160	D-03,75x160						
200	D-03,75x200						
3,80	70		D-03,80x070				
	100	D-03,80x100					



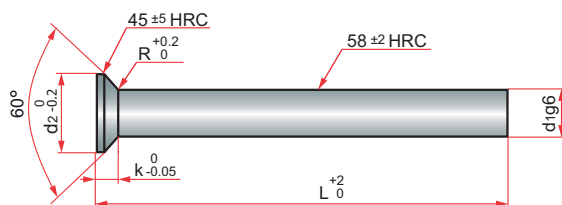
R	k	d2	d1	L	REF.		
0,4	1,7	5	3,80	125	D-03,80x125		
				160	D-03,80x160		
				200	D-03,80x200		
	1,8	5,5	3,90	70	D-03,90x070		
				100	D-03,90x100		
				125	D-03,90x125		
				160	D-03,90x160		
				200	D-03,90x200		
				4,00	80	D-04,00x080	
					100	D-04,00x100	
					125	D-04,00x125	
					160	D-04,00x160	
					200	D-04,00x200	
					250	D-04,00x250	
					315	D-04,00x315	
					4,10	70	D-04,10x070
						100	D-04,10x100
				125		D-04,10x125	
160	D-04,10x160						
200	D-04,10x200						
4,20	70	D-04,20x070					
	100	D-04,20x100					
	125	D-04,20x125					
	160	D-04,20x160					
	200	D-04,20x200					
4,25	70	D-04,25x070					
	100	D-04,25x100					
	125	D-04,25x125					
	160	D-04,25x160					
	200	D-04,25x200					
4,40	70	D-04,40x070					
	100	D-04,40x100					

R	k	d2	d1	L	REF.		
0,6	1,7	5,5	4,40	125	D-04,40x125		
				160	D-04,40x160		
				200	D-04,40x200		
	1,8	6	4,50	80	D-04,50x080		
				100	D-04,50x100		
				125	D-04,50x125		
				150	D-04,50x150		
				160	D-04,50x160		
				200	D-04,50x200		
				250	D-04,50x250		
				1,7	4,60	70	D-04,60x070
						100	D-04,60x100
						125	D-04,60x125
						160	D-04,60x160
						200	D-04,60x200
						200	D-04,60x200
				4,75	70	D-04,75x070	
					100	D-04,75x100	
125	D-04,75x125						
160	D-04,75x160						
200	D-04,75x200						
1,8	6,5	5,00	80	D-05,00x080			
			100	D-05,00x100			
			125	D-05,00x125			
			160	D-05,00x160			
			200	D-05,00x200			
			250	D-05,00x250			
			315	D-05,00x315			
			1,7	5,10	70	D-05,10x070	
					100	D-05,10x100	
					125	D-05,10x125	
160	D-05,10x200						
200	D-05,10x200						



R	k	d2	d1	L	REF.	
0,6	1,7	6,5	5,20	70	D-05,20x070	
				100	D-05,20x100	
				125	D-05,20x125	
				160	D-05,20x160	
				200	D-05,20x200	
		5,25	70	D-05,25x070		
			100	D-05,25x100		
			125	D-05,25x125		
			160	D-05,25x160		
			200	D-05,25x200		
		5,30	70	D-05,30x070		
			100	D-05,30x100		
			125	D-05,30x125		
			160	D-05,30x160		
		5,40	70	D-05,40x070		
			100	D-05,40x100		
	125		D-05,40x125			
	160		D-05,40x160			
	1,8	7	5,50	80	D-05,50x080	
				100	D-05,50x100	
				125	D-05,50x125	
				150	D-05,50x150	
				160	D-05,50x160	
				200	D-05,50x200	
				250	D-05,50x250	
				5,60	70	D-05,60x070
					100	D-05,60x100
					125	D-05,60x125
160					D-05,60x160	
200					D-05,60x200	

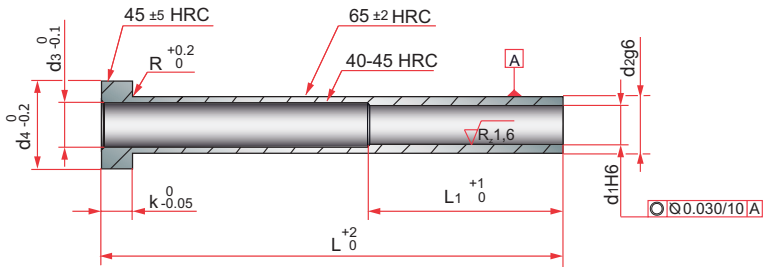
R	k	d2	d1	L	REF.	
0,6	1,8	7	5,75	70	D-05,75x070	
				100	D-05,75x100	
				125	D-05,75x125	
				160	D-05,75x160	
				200	D-05,75x200	
		2,2	8	6,00	80	D-06,00x080
					100	D-06,00x100
					125	D-06,00x125
					160	D-06,00x160
					200	D-06,00x200
	3,2	9	6,50	70	D-06,50x070	
				100	D-06,50x100	
				125	D-06,50x125	
				160	D-06,50x160	
				250	D-06,50x250	
	2,7	7,00	80	D-07,00x080		
			100	D-07,00x100		
			125	D-07,00x125		
			150	D-07,00x150		
			160	D-07,00x160		
			200	D-07,00x200		
			250	D-07,00x250		
			315	D-07,00x315		
	1	3,2	10	7,50	70	D-07,50x070
					100	D-07,50x100
					125	D-07,50x125
					160	D-07,50x160
					200	D-07,50x200
250	D-07,50x250					



R	k	d2	d1	L	REF.
1	2,7	10	8,00	80	D-08,00x080
				100	D-08,00x100
				125	D-08,00x125
				160	D-08,00x160
				200	D-08,00x200
				250	D-08,00x250
				315	D-08,00x315
	3,2	11	8,50	70	D-08,50x070
				100	D-08,50x100
				125	D-08,50x125
				160	D-08,50x160
				200	D-08,50x200
	2,7	9,00	80	D-09,00x080	
			100	D-09,00x100	
			125	D-09,00x125	
			160	D-09,00x160	
			200	D-09,00x200	
			250	D-09,00x250	
			315	D-09,00x315	
	12	10,00	80	D-10,00x080	
			100	D-10,00x100	
125			D-10,00x125		
160			D-10,00x160		
200			D-10,00x200		

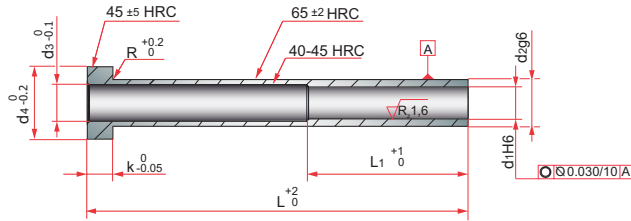
R	k	d2	d1	L	REF.		
1	2,7	12	10,00	250	D-10,00x250		
				315	D-10,00x315		
				14	12,00	80	D-12,00x080
						100	D-12,00x100
	125	D-12,00x125					
		160	D-12,00x160				
	200	D-12,00x200					
		250	D-12,00x250				
	1,5	3,2	16	14,00	80	D-14,00x080	
					100	D-14,00x100	
125					D-14,00x125		
150					D-14,00x150		
160					D-14,00x160		
200					D-14,00x200		
250					D-14,00x250		
18		16,00	80	D-16,00x080			
			100	D-16,00x100			
			125	D-16,00x125			
			160	D-16,00x160			
			200	D-16,00x200			
			250	D-16,00x250			
			315	D-16,00x315			

Nitrided bright ejector sleeve ETN
 Expulsor tubular nitrurado pulido ETN
 Wypychacz tulejowy azotowany ETN
 Extrator tubular nitrurado pulido ETN
 Ejecteur tubulaire nitreure rode type ETN

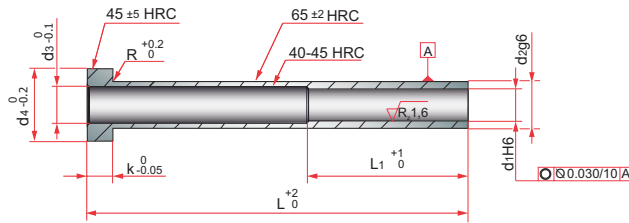


Mat. : 1.2344 - DIN 16756 / ISO 8405 - Maximum temperature at work: 550° C.

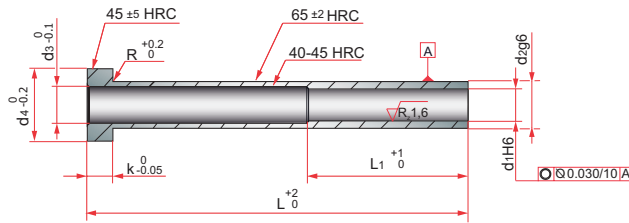
R	k	L1	d3	d4	d2	d1	L	REF.
0,3	3	35	2	6	3	1,6	75	ETN-01'60x03'00x075
							100	ETN-01'60x03'00x100
							125	ETN-01'60x03'00x125
			2,4	8	4	2	75	ETN-02'00x04'00x075
							100	ETN-02'00x04'00x100
							125	ETN-02'00x04'00x125
							150	ETN-02'00x04'00x150
							175	ETN-02'00x04'00x175
							200	ETN-02'00x04'00x200
			2,5	10	5	2,2	75	ETN-02'20x04'00x075
							100	ETN-02'20x04'00x100
							125	ETN-02'20x04'00x125
		150					ETN-02'20x04'00x150	
		175					ETN-02'20x04'00x175	
		200					ETN-02'20x04'00x200	
		45	3	10	5	2,5	75	ETN-02'50x05'00x075
							100	ETN-02'50x05'00x100
							125	ETN-02'50x05'00x125
							150	ETN-02'50x05'00x150
							175	ETN-02'50x05'00x175
							200	ETN-02'50x05'00x200
			2,7	10	5	2,7	75	ETN-02'70x05'00x075
							100	ETN-02'70x05'00x100
							125	ETN-02'70x05'00x125
150	ETN-02'70x05'00x150							



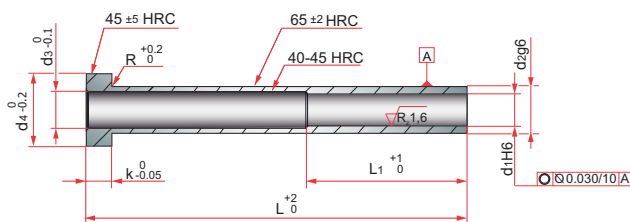
R	k	L1	d3	d4	d2	d1	L	REF.	
0,3	3	45	3	10	5	2,7	175	ETN-02'70x05'00x175	
							200	ETN-02'70x05'00x200	
							3	75	ETN-03'00x05'00x075
								100	ETN-03'00x05'00x100
								125	ETN-03'00x05'00x125
			150			ETN-03'00x05'00x150			
			175			ETN-03'00x05'00x175			
			3,3			3,2	75	ETN-03'20x05'00x075	
							100	ETN-03'20x05'00x100	
							125	ETN-03'20x05'00x125	
		150		ETN-03'20x05'00x150					
		175		ETN-03'20x05'00x175					
		3,5		200	ETN-03'20x05'00x200				
				225	ETN-03'00x05'00x225				
				250	ETN-03'00x05'00x250				
				275	ETN-03'00x05'00x275				
				300	ETN-03'00x05'00x300				
		0,5	5	4	12	6	3,5	75	ETN-03'50x06'00x075
								100	ETN-03'50x06'00x100
								125	ETN-03'50x06'00x125
150	ETN-03'50x06'00x150								
175	ETN-03'50x06'00x175								
200	ETN-03'50x06'00x200								
225	ETN-03'50x06'00x225								
250	ETN-03'50x06'00x250								
275	ETN-03'50x06'00x275								
300	ETN-03'50x06'00x300								
3,7	75							ETN-03'70x06'00x075	
	100							ETN-03'70x06'00x100	
	125							ETN-03'70x06'00x125	
	150						ETN-03'70x06'00x150		



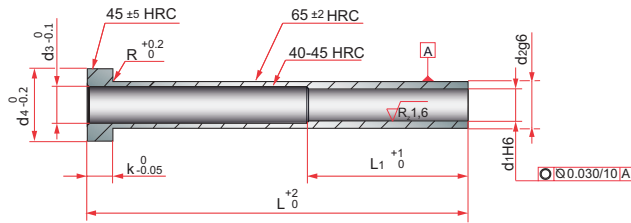
R	k	L1	d3	d4	d2	d1	L	REF.		
0,5	5	45	4	12	6	3,7	175	ETN-03'70x06'00x175		
							200	ETN-03'70x06'00x200		
							4,5	4	75	ETN-04'00x06'00x075
							100		ETN-04'00x06'00x100	
							125		ETN-04'00x06'00x125	
							150		ETN-04'00x06'00x150	
			175	ETN-04'00x06'00x175						
			200	ETN-04'00x06'00x200						
			225	ETN-04'00x06'00x225						
			250	ETN-04'00x06'00x250						
			275	ETN-04'00x06'00x275						
			300	ETN-04'00x06'00x300						
			5	14	8	4,2	75	ETN-04'20x08'00x075		
			100				ETN-04'20x08'00x100			
			125				ETN-04'20x08'00x125			
			150				ETN-04'20x08'00x150			
			175				ETN-04'20x08'00x175			
			200				ETN-04'20x08'00x200			
		5,3	12	7	5	75	ETN-04'50x08'00x075			
		100				ETN-04'50x08'00x100				
		125				ETN-04'50x08'00x125				
		150				ETN-04'50x08'00x150				
		175				ETN-04'50x08'00x175				
		200				ETN-04'50x08'00x200				
		225				ETN-04'50x08'00x225				
		250				ETN-04'50x08'00x250				
		275				ETN-04'50x08'00x275				
		300				ETN-04'50x08'00x300				
		100				ETN-05'00x07'00x100				
		125				ETN-05'00x07'00x125				
		150	ETN-05'00x07'00x150							
		175	ETN-05'00x07'00x175							



R	k	L1	d3	d4	d2	d1	L	REF.
0,5	5	45	5,3	12	7	5	200	ETN-05'00x07'00x200
							225	ETN-05'00x07'00x225
							250	ETN-05'00x07'00x250
							75	ETN-05'00x08'00x075
							100	ETN-05'00x08'00x100
							125	ETN-05'00x08'00x125
			150	ETN-05'00x08'00x150				
			175	ETN-05'00x08'00x175				
			200	ETN-05'00x08'00x200				
			225	ETN-05'00x08'00x225				
			250	ETN-05'00x08'00x250				
			275	ETN-05'00x08'00x275				
		300	ETN-05'00x08'00x300					
		75	ETN-05'20x08'00x075					
		100	ETN-05'20x08'00x100					
		125	ETN-05'20x08'00x125					
		150	ETN-05'20x08'00x150					
		175	ETN-05'20x08'00x175					
		200	ETN-05'20x08'00x200					
		75	ETN-05'50x09'00x075					
		100	ETN-05'50x09'00x100					
		125	ETN-05'50x09'00x125					
		150	ETN-05'50x09'00x150					
		175	ETN-05'50x09'00x175					
		200	ETN-05'50x09'00x200					
		225	ETN-05'50x09'00x225					
		250	ETN-05'50x09'00x250					
		275	ETN-05'50x09'00x275					
		300	ETN-05'50x09'00x300					
		75	ETN-06'00x10'00x075					
100	ETN-06'00x10'00x100							
125	ETN-06'00x10'00x125							

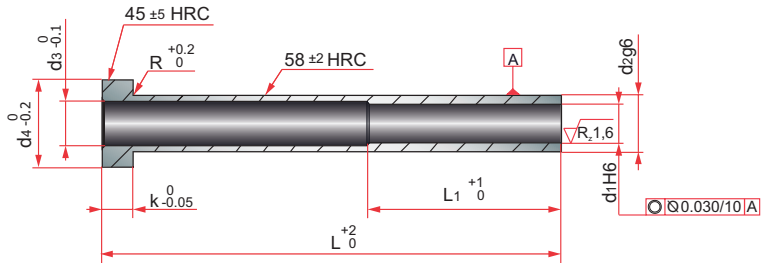


R	k	L1	d3	d4	d2	d1	L	REF.					
0,5	5	45	6,5	16	10	6	150	ETN-06'00x10'00x150					
							175	ETN-06'00x10'00x175					
							200	ETN-06'00x10'00x200					
							225	ETN-06'00x10'00x225					
							250	ETN-06'00x10'00x250					
							275	ETN-06'00x10'00x275					
							300	ETN-06'00x10'00x300					
						6,2	75	ETN-06'20x10'00x075					
							100	ETN-06'20x10'00x100					
							125	ETN-06'20x10'00x125					
							150	ETN-06'20x10'00x150					
							175	ETN-06'20x10'00x175					
							200	ETN-06'20x10'00x200					
							225	ETN-06'20x10'00x225					
		7,5	7	7,5	20	12	8	100	ETN-07'00x10'00x100				
								125	ETN-07'00x10'00x125				
								150	ETN-07'00x10'00x150				
								175	ETN-07'00x10'00x175				
								200	ETN-07'00x10'00x200				
								225	ETN-07'00x10'00x225				
								250	ETN-07'00x10'00x250				
								0,8	7	7,5	20	12	8
100	ETN-08'00x12'00x100												
125	ETN-08'00x12'00x125												
150	ETN-08'00x12'00x150												
175	ETN-08'00x12'00x175												
200	ETN-08'00x12'00x200												
225	ETN-08'00x12'00x225												
250	ETN-08'00x12'00x250												
0,8	7	7,5	20	12	8	275	ETN-08'00x12'00x275						
						300	ETN-08'00x12'00x300						



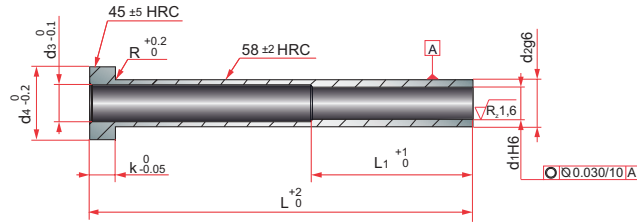
R	k	L1	d3	d4	d2	d1	L	REF.			
0,8	7	45	8,5	20	12	8,2	75	ETN-08'20x12'00x075			
							100	ETN-08'20x12'00x100			
							125	ETN-08'20x12'00x125			
							150	ETN-08'20x12'00x150			
							175	ETN-08'20x12'00x175			
							200	ETN-08'20x12'00x200			
							225	ETN-08'20x12'00x225			
							250	ETN-08'20x12'00x250			
		50	10,5	22	14	10	75	ETN-10'00x14'00x075			
							100	ETN-10'00x14'00x100			
							125	ETN-10'00x14'00x125			
							150	ETN-10'00x14'00x150			
							175	ETN-10'00x14'00x175			
							200	ETN-10'00x14'00x200			
							225	ETN-10'00x14'00x225			
							250	ETN-10'00x14'00x250			
							275	ETN-10'00x14'00x275			
							300	ETN-10'00x14'00x300			
							12,5	16	12	100	ETN-12'00x16'00x100
										125	ETN-12'00x16'00x125
150	ETN-12'00x16'00x150										
175	ETN-12'00x16'00x175										
200	ETN-12'00x16'00x200										
225	ETN-12'00x16'00x225										
250	ETN-12'00x16'00x250										
275	ETN-12'00x16'00x275										
300	ETN-12'00x16'00x300										

Hardened ejector sleeve ET
 Expulsor tubular templado ET
 Wypychacz tulejowy hartowany ET
 Extrator tubular temperado ET
 Ejecteur tubulaire non nitrure type ET

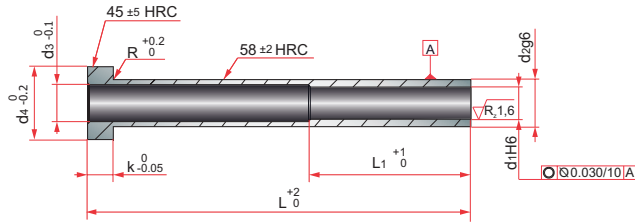


Mat. : 1.2210 / 58 ± 2 HRC - DIN 16576 / ISO 8405 - Maximum temperature at work: $220^\circ C$.

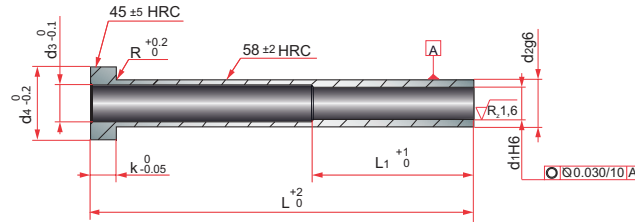
R	k	L1	d3	d4	d2	d1	L	REF.
0,3	3	35	2	6	3	1,6	75	ET-01,60x075
							100	ET-01,60x100
							125	ET-01,60x125
			2,4	8	4	2,0	75	ET-02,00x075
							100	ET-02,00x100
							125	ET-02,00x125
							150	ET-02,00x150
							175	ET-02,00x175
							200	ET-02,00x200
			2,5	10	5	2,2	75	ET-02,20x075
							100	ET-02,20x100
							125	ET-02,20x125
		150					ET-02,20x150	
		175					ET-02,20x175	
		200					ET-02,20x200	
		45	3	10	5	2,5	75	ET-02,50x075
							100	ET-02,50x100
							125	ET-02,50x125
							150	ET-02,50x150
							175	ET-02,50x175
							200	ET-02,50x200
			2,7	10	5	2,7	75	ET-02,70x075
							100	ET-02,70x100
							125	ET-02,70x125
150	ET-02,70x150							



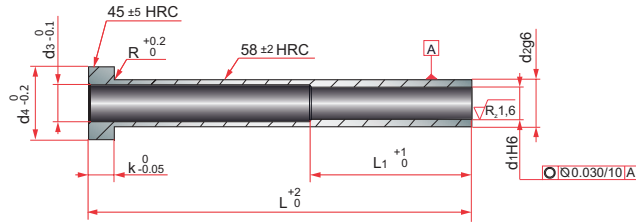
R	k	L1	d3	d4	d2	d1	L	REF.		
0,3	3	45	3	10	5	2,7	175	ET-02,70x175		
							200	ET-02,70x200		
							3,3	3,0	75	ET-03,00x075
									100	ET-03,00x100
									125	ET-03,00x125
			150			ET-03,00x150				
			175			ET-03,00x175				
			3,5			3,2	200	ET-03,00x200		
							225	ET-03,00x225		
							250	ET-03,00x250		
		275		ET-03,00x275						
		300		ET-03,00x300						
		75		ET-03,20x075						
		100		ET-03,20x100						
		125		ET-03,20x125						
		150		ET-03,20x150						
		175		ET-03,20x175						
		200	ET-03,20x200							
		0,5	5		4	12	6	3,5	75	ET-03,50x075
									100	ET-03,50x100
125	ET-03,50x125									
150	ET-03,50x150									
175	ET-03,50x175									
200	ET-03,50x200									
225	ET-03,50x225									
250	ET-03,50x250									
275	ET-03,50x275									
300	ET-03,50x300									
3,7	75				ET-03,70x075					
	100				ET-03,70x100					
	125				ET-03,70x125					
	150				ET-03,70x150					



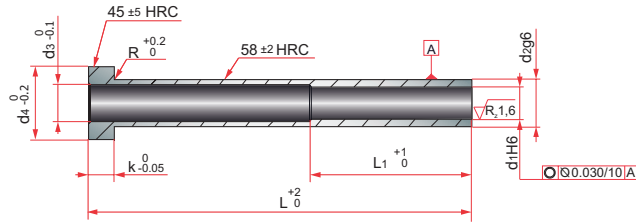
R	k	L1	d3	d4	d2	d1	L	REF.		
0,5	5	45	4	12	6	3,7	175	ET-03,70x175		
							200	ET-03,70x200		
							4,5	4,0	75	ET-04,00x075
									100	ET-04,00x100
									125	ET-04,00x125
									150	ET-04,00x150
			175	ET-04,00x175						
			200	ET-04,00x200						
			5	14	8	4,2	75	ET-04,20x075		
							100	ET-04,20x100		
							125	ET-04,20x125		
							150	ET-04,20x150		
		175					ET-04,20x175			
		200					ET-04,20x200			
		5,3		4,5	75	ET-04,50x075				
					100	ET-04,50x100				
					125	ET-04,50x125				
					150	ET-04,50x150				
					175	ET-04,50x175				
					200	ET-04,50x200				
		5,5	5,0	75	ET-05,00x075					
				100	ET-05,00x100					
				125	ET-05,00x125					
				150	ET-05,00x150					
				175	ET-05,00x175					



R	k	L1	d3	d4	d2	d1	L	REF.		
0,5	5	45	5,5	14	8	5,0	175	ET-05,00x175		
							200	ET-05,00x200		
							225	ET-05,00x225		
							250	ET-05,00x250		
							275	ET-05,00x275		
							300	ET-05,00x300		
						5,2	75	ET-05,20x075		
							100	ET-05,20x100		
							125	ET-05,20x125		
							150	ET-05,20x150		
							175	ET-05,20x175		
							200	ET-05,20x200		
		6	16	9	5,5	75	ET-05,50x075			
						100	ET-05,50x100			
						125	ET-05,50x125			
						150	ET-05,50x150			
						175	ET-05,50x175			
						200	ET-05,50x200			
						225	ET-05,50x225			
						250	ET-05,50x250			
						275	ET-05,50x275			
						300	ET-05,50x300			
						6,5	10	6,0	75	ET-06,00x075
									100	ET-06,00x100
125	ET-06,00x125									
150	ET-06,00x150									
175	ET-06,00x175									
200	ET-06,00x200									
225	ET-06,00x225									
250	ET-06,00x250									
300	ET-06,00x300									



R	k	L1	d3	d4	d2	d1	L	REF.		
0,5	5	45	6,5	16	10	6,2	75	ET-06,20x075		
							100	ET-06,20x100		
							125	ET-06,20x125		
							150	ET-06,20x150		
							175	ET-06,20x175		
							200	ET-06,20x200		
							225	ET-06,20x225		
							250	ET-06,20x250		
0,8	7	50	8,5	20	12	8,0	75	ET-08,00x075		
							100	ET-08,00x100		
							125	ET-08,00x125		
							150	ET-08,00x150		
							175	ET-08,00x175		
							200	ET-08,00x200		
							225	ET-08,00x225		
							250	ET-08,00x250		
							275	ET-08,00x275		
			300	ET-08,00x300						
			8,2	75	10,5	22	14	10,0	75	ET-10,00x075
									100	ET-10,00x100
									125	ET-10,00x125
									150	ET-10,00x150
									175	ET-10,00x175
									200	ET-10,00x200
									225	ET-10,00x225
									250	ET-10,00x250
200	ET-10,00x200									



R	k	L1	d3	d4	d2	d1	L	REF.	
0,8	7	50	10,5	22	14	10,0	225	ET-10,00x225	
							250	ET-10,00x250	
							275	ET-10,00x275	
							300	ET-10,00x300	
						11	10,5	100	ET-10,50x100
								125	ET-10,50x125
								150	ET-10,50x150
								175	ET-10,50x175
			200				200	ET-10,50x200	
							225	ET-10,50x225	
							250	ET-10,50x250	
							12,5	16	12,0
			125			ET-12,00x125			
			150			ET-12,00x150			
			175			ET-12,00x175			
			200			200		ET-12,00x200	
		225		ET-12,00x225					
		250		ET-12,00x250					
		275		ET-12,00x275					
		13	12,5	12,5	100	ET-12,50x100			
					125	ET-12,50x125			
					150	ET-12,50x150			
					175	ET-12,50x175			
			200	200	ET-12,50x200				
				225	ET-12,50x225				
				250	ET-12,50x250				
				250	ET-12,50x250				

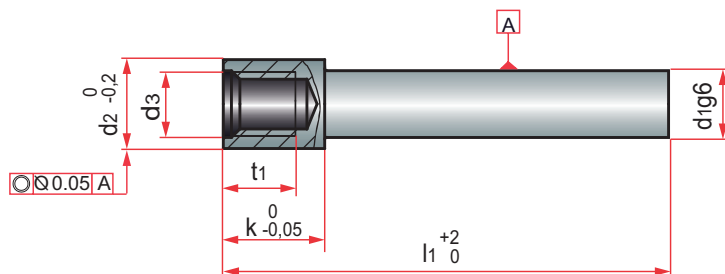
Core pin, with extracting thread

Noyo

Rdzeń z gwintem wewnętrzym

Postiço redondo

Noyaux



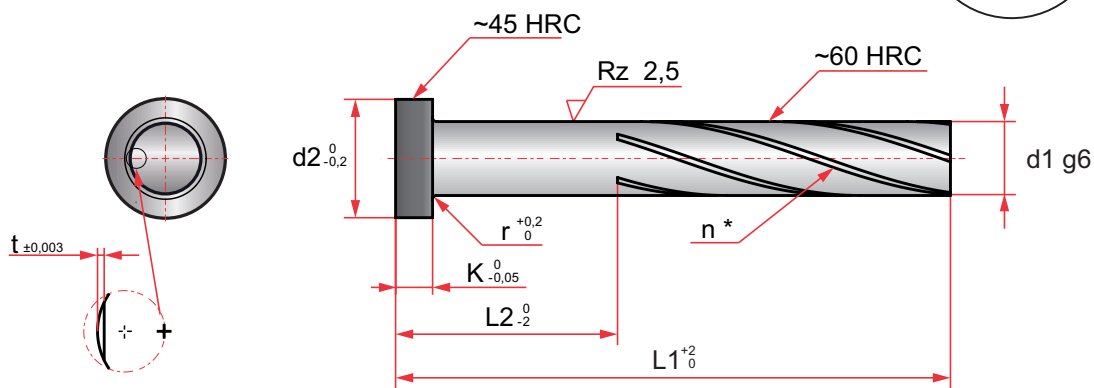
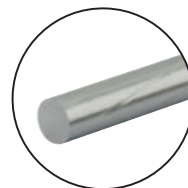
Mat. : 1.2344. Hardness: 45 ± 2 HRC.

d2	d3	t1	k	d1	l1	REF.	
9	M6	9	14	5	160	BR49-05,00x160	
					200	BR49-05,00x200	
				5,5	160	BR49-05,50x160	
					250	BR49-05,50x250	
10				6	100	BR49-06,00x100	
					160	BR49-06,00x160	
					200	BR49-06,00x200	
					250	BR49-06,00x250	
				6,5	200	BR49-06,50x200	
					250	BR49-06,50x250	
					7	160	BR49-7x160 M6
						250	BR49-7x250 M6
13	M8	10	16	7	160	BR49-07,00x160	
					250	BR49-07,00x250	
				7,5	250	BR49-07,50x250	
				8	250	BR49-08,00x250	
				8,5	200	BR49-08,50x200	
15	M10	12	18	10	160	BR49-10,00x160	
					200	BR49-10,00x200	
					250	BR49-10,00x250	
				10,2		BR49-10,20x250	
				10,5	160	BR49-10,50x160	
					200	BR49-10,50x200	
250	BR49-10,50x250						
18	M12	14	22	11		BR49-11,00x250	
				11,5	200	BR49-11,50x200	
				12		BR49-12,00x200	
				12,5		BR49-12,50x200	

BR7318



Ejector pin for ventilation, through-hardened
 Expulsor con ventilación, templado
 Wypychacz do odpowietrzania, hartowany
 Extrator com escape de gases, temperado
 Éjecteur d'éventation, trempé

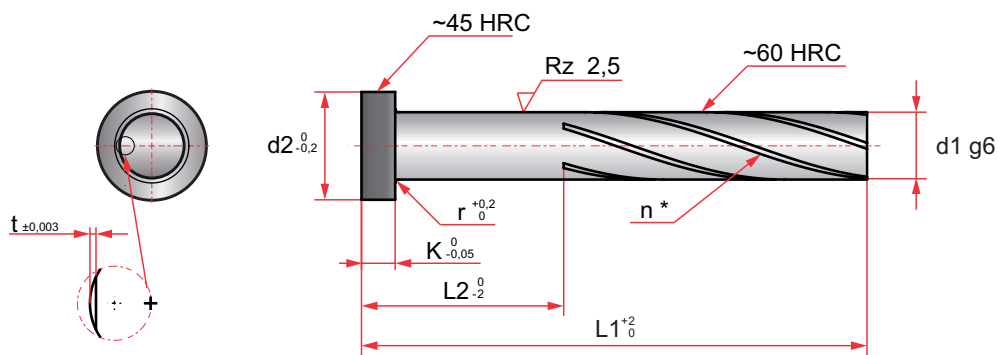


5

n^* = Num. of chanel/Num. canales

Mat. : 1.2067/ 58 ± 2 HRC - DIN 1530AH - Maximum temperature at work: 220° C.

t	n^*	r	K	d_2	d_1	L_1	L_2	REF.	t	n^*	r	K	d_2	d_1	L_1	L_2	REF.	
0,02	3	0,2	2	4	2	125	50	BR7318-02'00x125	0,02	3	0,3	3	8	3,5	160	63	BR7318-03'50x160	
						160	63	BR7318-02'00x160							200	80	BR7318-03'50x200	
						200	80	BR7318-02'00x200							250	100	BR7318-03'50x250	
						250	100	BR7318-02'00x250							4	125	50	BR7318-04'00x125
	0,3	5	2,5	125	50	BR7318-02'50x125	160	63						BR7318-04'00x160				
				160	63	BR7318-02'50x160	200	80						BR7318-04'00x200				
				200	80	BR7318-02'50x200	250	100						BR7318-04'00x250				
				250	100	BR7318-02'50x250	315	125						BR7318-04'00x315				
	3	6	3	3	125	50	BR7318-03'00x125	450						158	BR7318-04'00x450			
					160	63	BR7318-03'00x160	4,5						160	63	BR7318-04'50x160		
					200	80	BR7318-03'00x200							200	80	BR7318-04'50x200		
					250	100	BR7318-03'00x250							250	100	BR7318-04'50x250		
					315	125	BR7318-03'00x315							5	125	50	BR7318-05'00x125	
					450	158	BR7318-03'00x450	160							63	BR7318-05'00x160		
					7	3,5	125	50							BR7318-03'50x125	200	80	BR7318-05'00x200
							160	63							BR7318-03'50x160			



t	n*	r	K	d ₂	d ₁	L ₁	L ₂	REF.					
0,02	5	0,3	3	10	5	250	100	BR7318-05'00x250					
						315	125	BR7318-05'00x315					
						450	158	BR7318-05'00x450					
		5,5	160	63	BR7318-05'50x160								
			250	100	BR7318-05'50x250								
			0,5	5	12	6	125	50	BR7318-06'00x125				
	160	63					BR7318-06'00x160						
	200	80					BR7318-06'00x200						
	250	100	BR7318-06'00x250	315	125	BR7318-06'00x315	450	158	BR7318-06'00x450				
										6,5	160	63	BR7318-06'50x160
										250	100	BR7318-06'50x250	
	7	160	63	BR7318-07'00x160	200	80	BR7318-07'00x200	250	100	BR7318-07'00x250			

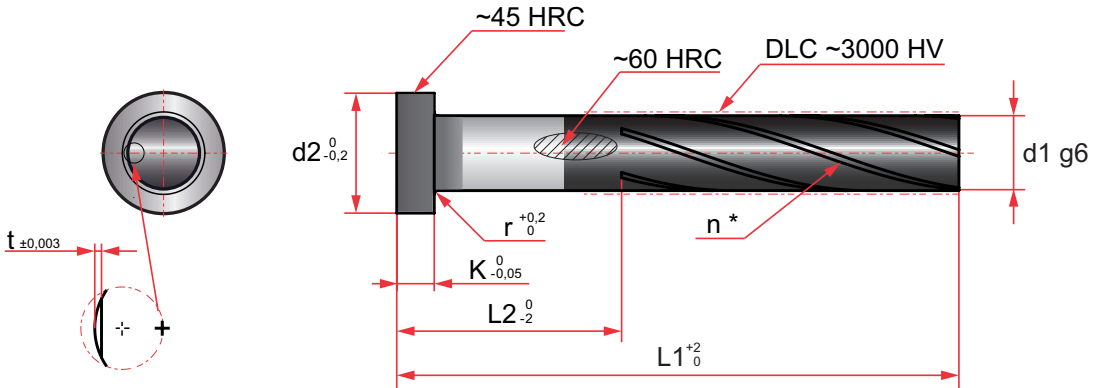
t	n*	r	K	d ₂	d ₁	L ₁	L ₂	REF.								
0,02	5	0,5	5	14	8	125	50	BR7318-08'00x125								
						160	63	BR7318-08'00x160								
						200	80	BR7318-08'00x200								
		250	100	BR7318-08'00x250	315	125	BR7318-08'00x315	450	158	BR7318-08'00x450						
											7	16	10	160	63	BR7318-10'00x160
														200	80	BR7318-10'00x200
	250	100	BR7318-10'00x250													
	315	125	BR7318-10'00x315	450	158	BR7318-10'00x450	0,8	7	18	12	160	63	BR7318-12'00x160			
											200	80	BR7318-12'00x200			
											250	100	BR7318-12'00x250			
	315	125	BR7318-12'00x315													

- *Optimization of the mold through ventilation of the cavity
- *High-precision, self-cleaning propeller geometry ensures reliable operation
- *Less surface wear increases useful life
- *Interchangeable with standard ejectors
- *Wide range of dimensions (Ø2 to 12 mm)

- *Optimización del molde mediante la ventilación de la cavidad
- *La geometría de hélice de alta precisión y autolimpiante garantiza un funcionamiento fiable
- *El menor desgaste de la superficie aumenta la vida útil
- *Intercambiable con expulsores estándar
- *Amplia gama de dimensiones (Ø 2 a 12 mm)

BR7319

Ejector pin for ventilation, through-hardened, with DLC coating
 Expulsor con ventilación, templado con DLC
 Wypychacz do odpowietrzania, hartowany, z powłoką DLC
 Extrator com escape de gases, temperado, e revestimento DLC
 Éjecteur d'éventation, trempé, avec revêtement DLC

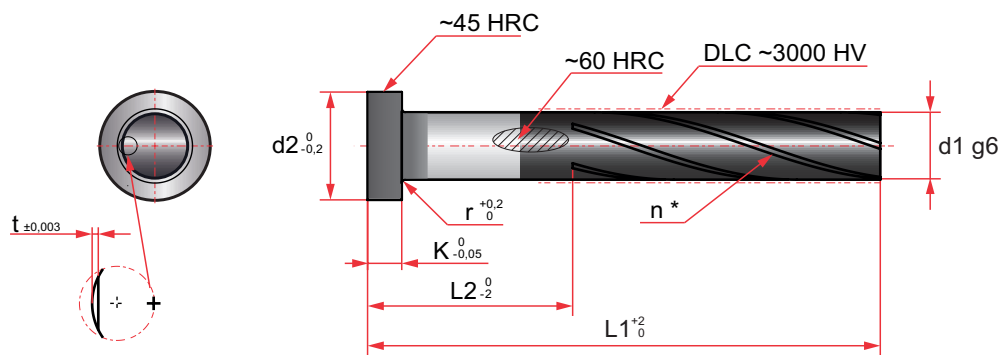


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n* = Num. of chanel/Num. canales

Mat.: 1.2067+DLC / 58±2 HRC. DIN 1530A Maximum temperature at work: 220° C

t	n*	r	K	d ₂	d ₁	L ₁	L ₂	REF.						
0,02	3	0,2	2	4	2	125	50	BR7319-02'00x125						
						160	63	BR7319-02'00x160						
						200	80	BR7319-02'00x200						
						250	100	BR7319-02'00x250						
		0,3	5	2,5	5	2,5	125	50	BR7319-02'50x125					
							160	63	BR7319-02'50x160					
							200	80	BR7319-02'50x200					
							250	100	BR7319-02'50x250					
	3	6	3	6	3	125	50	BR7319-03'00x125						
						160	63	BR7319-03'00x160						
						200	80	BR7319-03'00x200						
						250	100	BR7319-03'00x250						
			315	125	125	125	125	315	125	BR7319-03'00x315				
								450	158	BR7319-03'00x450				
								7	3,5	125	50	BR7319-03'50x125		
	0,02	3	0,3	3	8	3,5	160	63	BR7319-03'50x160					
							200	80	BR7319-03'50x200					
							250	100	BR7319-03'50x250					
							4	125	50	125	BR7319-04'00x125			
160											63	BR7319-04'00x160		
200											80	BR7319-04'00x200		
250											100	BR7319-04'00x250		
315							125	125	315	BR7319-04'00x315				
										450	158	BR7319-04'00x450		
										4,5	160	63	160	BR7319-04'50x160
														200
250							100	BR7319-04'50x250						
5	10	5	125	50	BR7319-05'00x125									
				160	63	BR7319-05'00x160								
				200	80	BR7319-05'00x200								



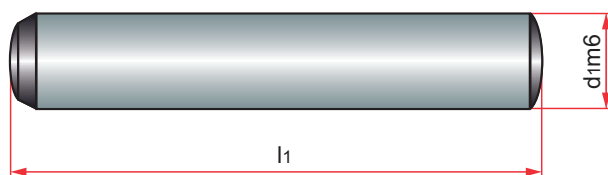
t	n*	r	K	d ₂	d ₁	L ₁	L ₂	REF.
0,02	5	0,3	3	10	5	250	100	BR7319-05'00x250
						315	125	BR7319-05'00x315
						450	158	BR7319-05'00x450
					5,5	160	63	BR7319-05'50x160
						250	100	BR7319-05'50x250
	0,5	5	12	6	125	50	BR7319-06'00x125	
					160	63	BR7319-06'00x160	
					200	80	BR7319-06'00x200	
					250	100	BR7319-06'00x250	
					315	125	BR7319-06'00x315	
					450	158	BR7319-06'00x450	
					6,5	160	63	BR7319-06'50x160
						250	100	BR7319-06'50x250
					7	160	63	BR7319-07'00x160
						200	80	BR7319-07'00x200
250	100	BR7319-07'00x250						

t	n*	r	K	d ₂	d ₁	L ₁	L ₂	REF.			
0,02	5	0,5	5	14	8	125	50	BR7319-08'00x125			
						160	63	BR7319-08'00x160			
						200	80	BR7319-08'00x200			
						250	100	BR7319-08'00x250			
						315	125	BR7319-08'00x315			
						450	158	BR7319-08'00x450			
						7	16	10	160	63	BR7319-10'00x160
									200	80	BR7319-10'00x200
									250	100	BR7319-10'00x250
									315	125	BR7319-10'00x315
	450	158	BR7319-10'00x450								
	0,8	7	18	12	160	63	BR7319-12'00x160				
					200	80	BR7319-12'00x200				
					250	100	BR7319-12'00x250				
					315	125	BR7319-12'00x315				

- *Optimization of the mold through ventilation of the cavity
- *High-precision, self-cleaning propeller geometry ensures reliable operation
- *Less surface wear increases useful life
- *Interchangeable with standard ejectors
- *Wide range of dimensions (Ø 2 to 12 mm)
- *Friction coefficient ~ 0.1-0.15
- *Suitable for dry working

- *Optimización del molde mediante la ventilación de la cavidad
- *La geometría de hélice de alta precisión y autolimpiante garantiza un funcionamiento fiable
- *El menor desgaste de la superficie aumenta la vida útil
- *Intercambiable con expulsores estándar
- *Amplia gama de dimensiones (Ø 2 a 12 mm)
- *Coeficiente de fricción ~ 0,1-0,15
- *Adecuado para trabajo en seco

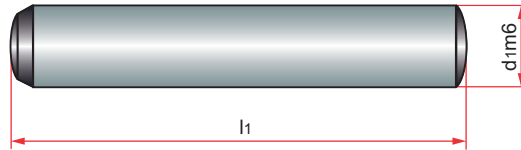
Dowel pin
Pasador cilíndrico
Kotek walcowy
Cavilha cilíndrica
Goupille cylindrique



Hardness: 58 ± 2 HRC. DIN 6325.

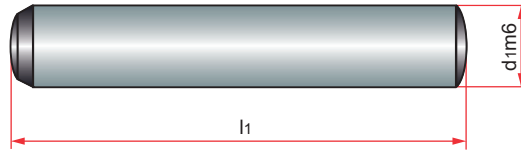
d1	l1	REF.
2	10	PAS-02x010
	12	PAS-02x012
	14	PAS-02x014
	16	PAS-02x016
	18	PAS-02x018
	20	PAS-02x020
	24	PAS-02x024
	28	PAS-02x028
3	10	PAS-03x010
	12	PAS-03x012
	14	PAS-03x014
	16	PAS-03x016
	18	PAS-03x018
	20	PAS-03x020
	24	PAS-03x024
	28	PAS-03x028
	30	PAS-03x030
	32	PAS-03x032
	36	PAS-03x036
	40	PAS-03x040
	45	PAS-03x045
	50	PAS-03x050
4	10	PAS-04x010
	12	PAS-04x012
	14	PAS-04x014
	16	PAS-04x016
	18	PAS-04x018

d1	l1	REF.
4	20	PAS-04x020
	24	PAS-04x024
	28	PAS-04x028
	30	PAS-04x030
	32	PAS-04x032
	36	PAS-04x036
	40	PAS-04x040
	45	PAS-04x045
	50	PAS-04x050
	60	PAS-04x060
	5	10
12		PAS-05x012
14		PAS-05x014
16		PAS-05x016
18		PAS-05x018
20		PAS-05x020
24		PAS-05x024
28		PAS-05x028
30		PAS-05x030
32		PAS-05x032
36		PAS-05x036
40		PAS-05x040
45		PAS-05x045
50		PAS-05x050
55		PAS-05x055
60		PAS-05x060
70		PAS-05x070



d1	l1	REF.
5	80	PAS-05x080
6	10	PAS-06x010
	12	PAS-06x012
	14	PAS-06x014
	16	PAS-06x016
	18	PAS-06x018
	20	PAS-06x020
	24	PAS-06x024
	28	PAS-06x028
	30	PAS-06x030
	32	PAS-06x032
	36	PAS-06x036
	40	PAS-06x040
	45	PAS-06x045
	50	PAS-06x050
	55	PAS-06x055
	60	PAS-06x060
	70	PAS-06x070
	80	PAS-06x080
	90	PAS-06x090
100	PAS-06x100	
7	20	PAS-07x020
	24	PAS-07x024
	28	PAS-07x028
	30	PAS-07x030
	32	PAS-07x032
	36	PAS-07x036
	40	PAS-07x040
	45	PAS-07x045
	50	PAS-07x050
	55	PAS-07x055
	60	PAS-07x060
70	PAS-07x070	
80	PAS-07x080	

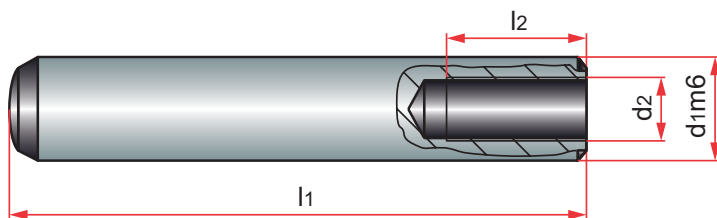
d1	l1	REF.
7	90	PAS-07x090
	100	PAS-07x100
8	16	PAS-08x016
	20	PAS-08x020
	24	PAS-08x024
	28	PAS-08x028
	30	PAS-08x030
	32	PAS-08x032
	36	PAS-08x036
	40	PAS-08x040
	45	PAS-08x045
	50	PAS-08x050
	55	PAS-08x055
	60	PAS-08x060
	70	PAS-08x070
	80	PAS-08x080
	90	PAS-08x090
	100	PAS-08x100
	10	120
20		PAS-10x020
24		PAS-10x024
28		PAS-10x028
30		PAS-10x030
32		PAS-10x032
36		PAS-10x036
40		PAS-10x040
45		PAS-10x045
50		PAS-10x050
55		PAS-10x055
60		PAS-10x060
70		PAS-10x070
80	PAS-10x080	
90	PAS-10x090	
100	PAS-10x100	



d1	l1	REF.
10	120	PAS-10x120
12	28	PAS-12x028
	30	PAS-12x030
	32	PAS-12x032
	36	PAS-12x036
	40	PAS-12x040
	45	PAS-12x045
	50	PAS-12x050
	55	PAS-12x055
	60	PAS-12x060
	70	PAS-12x070
	80	PAS-12x080
	90	PAS-12x090
	100	PAS-12x100
	120	PAS-12x120
	130	PAS-12x130
	140	PAS-12x140
150	PAS-12x150	
14	40	PAS-14x040
	45	PAS-14x045
	50	PAS-14x050
	55	PAS-14x055
	60	PAS-14x060
	70	PAS-14x070
	80	PAS-14x080
	90	PAS-14x090
	100	PAS-14x100

d1	l1	REF.
14	120	PAS-14x120
	130	PAS-14x130
	140	PAS-14x140
	150	PAS-14x150
16	36	PAS-16x036
	40	PAS-16x040
	45	PAS-16x045
	50	PAS-16x050
	55	PAS-16x055
	60	PAS-16x060
	70	PAS-16x070
	80	PAS-16x080
	90	PAS-16x090
	100	PAS-16x100
	120	PAS-16x120
	130	PAS-16x130
	140	PAS-16x140
	150	PAS-16x150
20	60	PAS-20x060
	70	PAS-20x070
	80	PAS-20x080
	90	PAS-20x090
	100	PAS-20x100
	120	PAS-20x120
	130	PAS-20x130
	140	PAS-20x140
	150	PAS-20x150

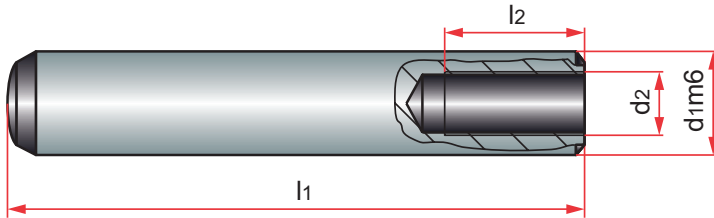
Dowel pin with extracting thread
 Pasador cilíndrico roscado
 Kołek walcowy z gwintem wewnętrznym
 Cavilha cilíndrica com furo roscado
 Goupille cylíndrique a truoit turaude



Hardness: 58 ± 2 HRC. DIN 7979.

d2	l2	d1	l1	REF.
M4	6	6	16	PASR-06x016
			20	PASR-06x020
			24	PASR-06x024
			28	PASR-06x028
			32	PASR-06x032
			36	PASR-06x036
			40	PASR-06x040
			45	PASR-06x045
			50	PASR-06x050
			55	PASR-06x055
			60	PASR-06x060
			70	PASR-06x070
M5	8	8	20	PASR-08x020
			24	PASR-08x024
			28	PASR-08x028
			32	PASR-08x032
			36	PASR-08x036
			40	PASR-08x040
			45	PASR-08x045
			50	PASR-08x050
			55	PASR-08x055
			60	PASR-08x060
M6	10	10	24	PASR-10x024

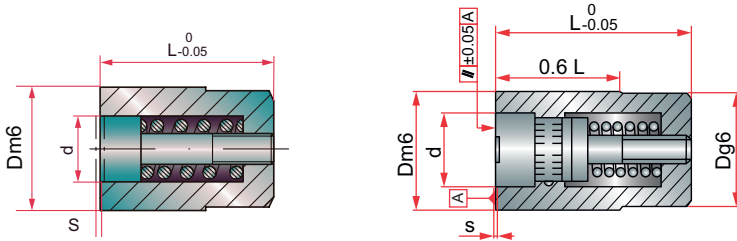
d2	l2	d1	l1	REF.
M6	10	10	28	PASR-10x028
			32	PASR-10x032
			36	PASR-10x036
			40	PASR-10x040
			45	PASR-10x045
			50	PASR-10x050
			55	PASR-10x055
			60	PASR-10x060
			70	PASR-10x070
			80	PASR-10x080
			90	PASR-10x090
			100	PASR-10x100
	12	12	28	PASR-12x028
			32	PASR-12x032
			36	PASR-12x036
			40	PASR-12x040
			45	PASR-12x045
			50	PASR-12x050
			55	PASR-12x055
			60	PASR-12x060
			70	PASR-12x070
			80	PASR-12x080
90	PASR-12x090			
			100	PASR-12x100



d2	l2	d1	l1	REF.
M6	12	12	120	PASR-12x120
M8			14	32
		36		PASR-14x036
		40		PASR-14x040
		45		PASR-14x045
		50		PASR-14x050
		55		PASR-14x055
		60		PASR-14x060
		70		PASR-14x070
		80		PASR-14x080
		90		PASR-14x090
		100		PASR-14x100
		120		PASR-14x120
M8		16	16	40
	45			PASR-16x045
	50			PASR-16x050

d2	l2	d1	l1	REF.
M8	16	16	55	PASR-16x055
			60	PASR-16x060
			70	PASR-16x070
			80	PASR-16x080
			90	PASR-16x090
			100	PASR-16x100
			120	PASR-16x120
			M10	20
55	PASR-20x055			
60	PASR-20x060			
70	PASR-20x070			
80	PASR-20x080			
90	PASR-20x090			
100	PASR-20x100			
120	PASR-20x120			

Short date stamp
 Fechador anual corto
 Datownik krótki
 Datador anual curto
 Corps dateur court



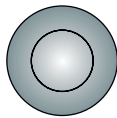
Only D: 4Ø

Blank/S

DA/S

DF/S

DM/S



6 years



Mat. : INOX. 1.4034. Hardness: 51 ± 3 HRC. Maximum temperature at work: 150° C.

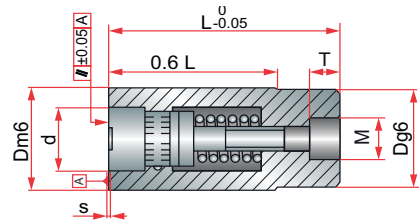
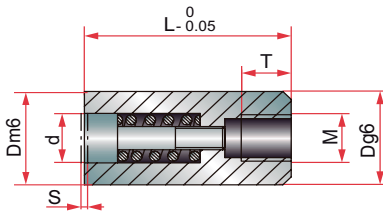
s	d	D	L	REF.	
0,20	2,2	4	5	Blank/ 4S	
				DA/ 4S	
				DF/ 4S	
				DM/ 4S	
0	2,9	5	8	Blank/ 5S	
				DA/ 5S	
				DF/ 5S	
				DM/ 5S	
	3,7	6			Blank/ 6S
					DA/ 6S
					DF/ 6S
					DM/ 6S
5	8	8	10	Blank/ 8S	
				DA/ 8S	
				DF/ 8S	
				DM/ 8S	

s	d	D	L	REF.
0	6,3	10	12	Blank/ 10S
				DA/ 10S
				DF/ 10S
				DM/ 10S
				Blank/ 12S
7,5	12	14		DA/ 12S
				DF/ 12S
				DM/ 12S
				Blank/ 16S
8,7	16	20		DA/ 16S
				DF/ 16S
				DM/ 16S
				Blank/ 20S
10,7	20			DA/ 20S
				DF/ 20S
				DM/ 20S

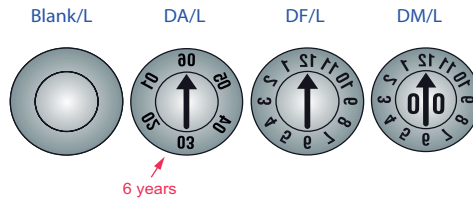
IMPORTANT

Special engraving available under request.
 Grabados especiales bajo demanda.

Long date stamp
 Fechador anual largo
 Datownik długi
 Datador anual longo
 Corps dateur longue



Only D: 40



Mat. : INOX. 1.4034. Hardness: 51 ± 3 HRC. Maximum temperature at work: 150° C.

s	T	M	d	D	L	REF.
0,2	3,5	M2	2,2	4	12	Blank/ 4L
						DA/ 4L
						DF/ 4L
						DM/ 4L
0		M3	2,9	5		Blank/ 5L
						DA/ 5L
			3,7	6	20	Blank/ 6L
						DA/ 6L
						DF/ 6L
						DM/ 6L

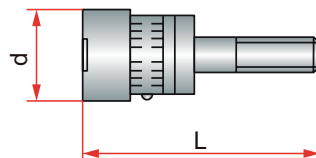
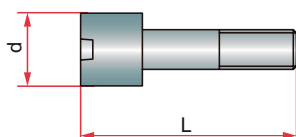
s	T	M	d	D	L	REF.	
0	4	M4	5	8	20	Blank/ 8L	
						DA/ 8L	
						DF/ 8L	
						DM/ 8L	
		M5	6,3	10		Blank/ 10L	
						DA/ 10L	
			6	M6	7,5	12	Blank/ 12L
							DA/ 12L
						DF/ 12L	
						DM/ 12L	

IMPORTANT Special engraving available under request.
 Grabados especiales bajo demanda.

Date insert
 Indicador anual
 Wkładka datownika
 Inserto anual
 Insert dateur



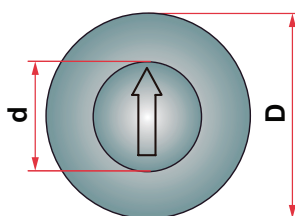
Only: 2,2 Ø



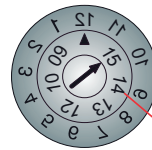
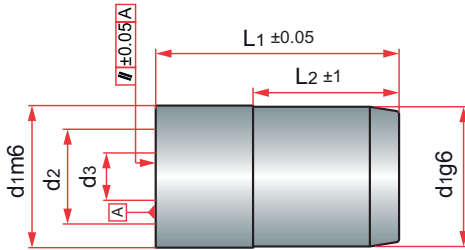
Mat. : INOX. 1.4034. Hardness: 51 ± 3 HRC. Maximum temperature at work: 150° C.

D	L	d	REF.
4	5	2,2	IA/ 4 + YEAR
			IF/ 4
			BLANK/ 4
5	8	2,9	IA/ 5 + YEAR
			IF/ 5
			BLANK/ 5
6	10	3,7	IA/ 6 + YEAR
			IF/ 6
			BLANK/ 6
8	10	5	IA/ 8 + YEAR
			IF/ 8
			BLANK/ 8

D	L	d	REF.
10	12	6,3	IA/ 10 + YEAR
			IF/ 10
			BLANK/ 10
12	14	7,5	IA/ 12 + YEAR
			IF/ 12
			BLANK/ 12
16	20	8,7	IA/ 16 + YEAR
			IF/ 16
			BLANK/ 16
20	20	10,7	IA/ 20 + YEAR
			IF/ 20
			BLANK/ 20



Double date stamp
 Fechador doble
 Datownik podwójny
 Datador duplo
 Dateur double



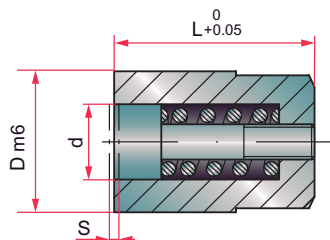
12 Months + Years
 N° of years
 N° años
 Liczba lat
 N° de anos

Mat. : INOX. 1.4034. Hardness: 51 ± 3 HRC. Maximum temperature at work: 150° C.

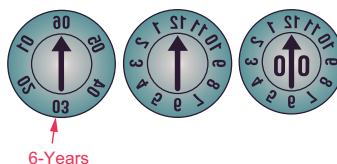
N	L2	d3	d2	d1	L1	REF.
6	5	2,5	5	8	20	DD/ 8
		3	6	10		DD/ 10
		4	8	12		DD/ 12
		5	10	16		DD/ 16

IMPORTANT Special engraving available under request.
 Grabados especiales bajo demanda.

Short date stamp
 Fechador anual corto
 Datownik krótki
 Datador anual curto
 Dateur année court

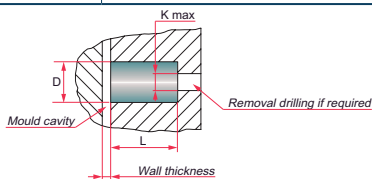


DA/1301 DF/1301 DM/1301



Mat. : INOX. 1.4034. Hardness: 56 ± 2 HRC. Stainless.

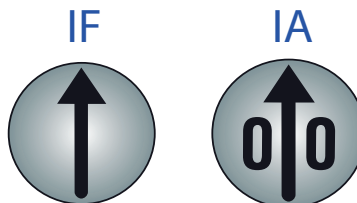
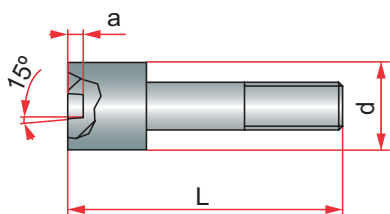
D	d	K	L	S	REF.
4	2,1	2,6	5	0,25	BR1301- 4- DA
					BR1301- 4- DF
					BR1301- 4-DM
5	3,1	3,2	8	0,2	BR1301- 5- DA
					BR1301- 5- DF
					BR1301- 5-DM
6	3,1	3,2	8	0,2	BR1301- 6- DA
					BR1301- 6- DF
					BR1301- 6-DM
8	4,4	5,2	10	0,25	BR1301- 8- DA
					BR1301- 8- DF
					BR1301- 8-DM
10	5,2	6,2	12	0,35	BR1301-10- DA
					BR1301-10- DF
					BR1301-10-DM
12	6,2	7,2	14	0,35	BR1301-12- DA
					BR1301-12- DF
					BR1301-12-DM
16	8,2	8,2	16	0,35	BR1301-16- DA
					BR1301-16- DF
					BR1301-16-DM



BR1302



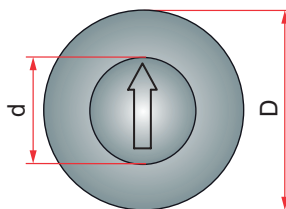
Date insert
 Indicador anual
 Wkładka datownika
 Inserto anual
 Insert année



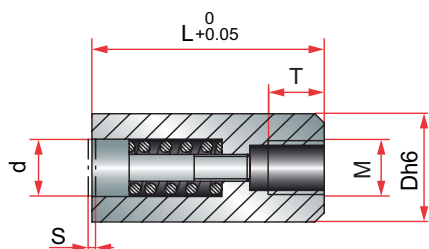
Mat. : INOX. 1.4034. Hardness: 56 ± 2 HRC. Stainless.

D	d	L	a	REF.
4	2,1	4,8	0,3	BR1302- 4-IF
				BR1302- 4-IA
5	3,1	7,8	0,4	BR1302- 5-IF
				BR1302- 5-IA
				BR1302- 6-IF
				BR1302- 6-IA
6	4,4	9,8	0,4	BR1302- 8-IF
BR1302- 8-IA				
8	5,2	11,8	0,4	BR1302-10-IF
BR1302-10-IA				
10	6,2	13,8	0,6	BR1302-12-IF
BR1302-12-IA				
12	8,2	13,8	0,6	BR1302-16-IF
BR1302-16-IA				
16				

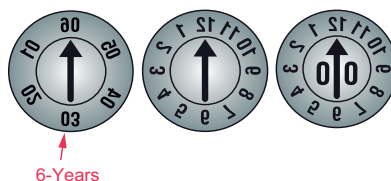
6



Long date stamp
 Fechador anual largo
 Datownik długi
 Datador anual longo
 Dateur année long

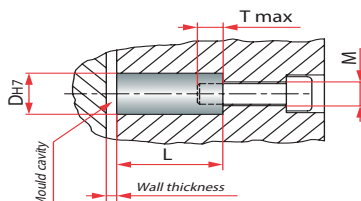


DA/1001 DF/1001 DM/1001



Mat. : INOX. 1.4034. Hardness: 56 ± 2 HRC. Stainless.

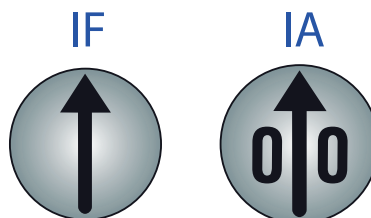
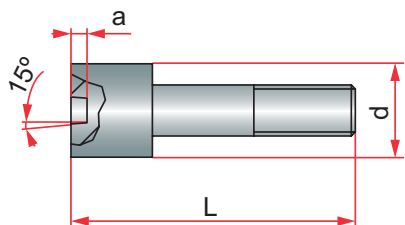
D	d	M	T	L	S	REF.
4	2,5	2	3	14	0,3	BR1001- 4-DF
						BR1001- 4-DA
						BR1001- 4-DM
5	3,1	3		17	0,4	BR1001- 5-DF
						BR1001- 5-DA
						BR1001- 5-DM
6						BR1001- 6-DF
						BR1001- 6-DA
						BR1001- 6-DM
8	4,6	4	4	20		BR1001- 8-DF
						BR1001- 8-DA
						BR1001- 8-DM
10		5				BR1001-10-DF
						BR1001-10-DA
						BR1001-10-DM
12	6,4	6	6	25	0,6	BR1001-12-DF
						BR1001-12-DA
						BR1001-12-DM
16	8,4	8	8	33		BR1001-16-DF
						BR1001-16-DA
						BR1001-16-DM



BR1002

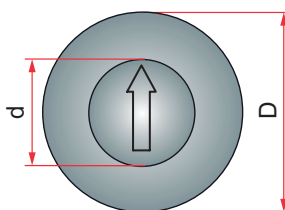


Date insert
 Indicador anual
 Wkładka datownika
 Inserto anual
 Insert année



Mat. : INOX. 1.4034. Hardness: 56 ± 2 HRC. Stainless.

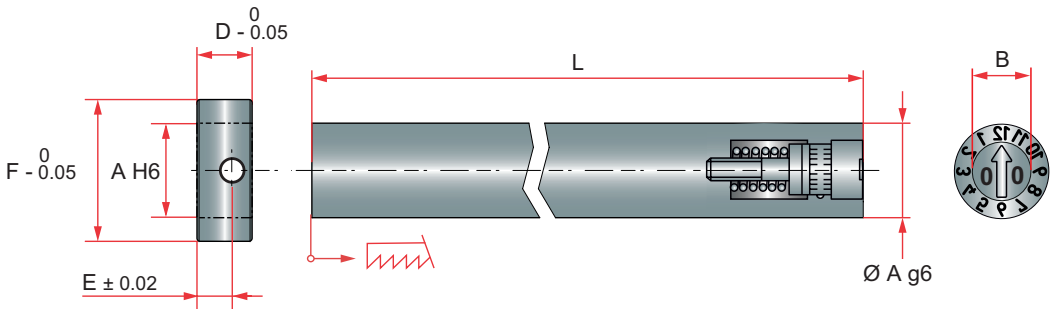
D	d	L	a	REF.
4	2,5	10,5	0,3	BR1002- 4-IF
				BR1002- 4-IA
5	3,1	13	0,4	BR1002- 5-IF
				BR1002- 5-IA
6	4,6	14	0,6	BR1002- 6-IF
				BR1002- 6-IA
8	6,4	17	0,6	BR1002- 8-IF
				BR1002- 8-IA
10	8,4	23	0,6	BR1002-10-IF
				BR1002-10-IA
12	8,4	23	0,6	BR1002-12-IF
				BR1002-12-IA
16	8,4	23	0,6	BR1002-16-IF
				BR1002-16-IA



BR2500

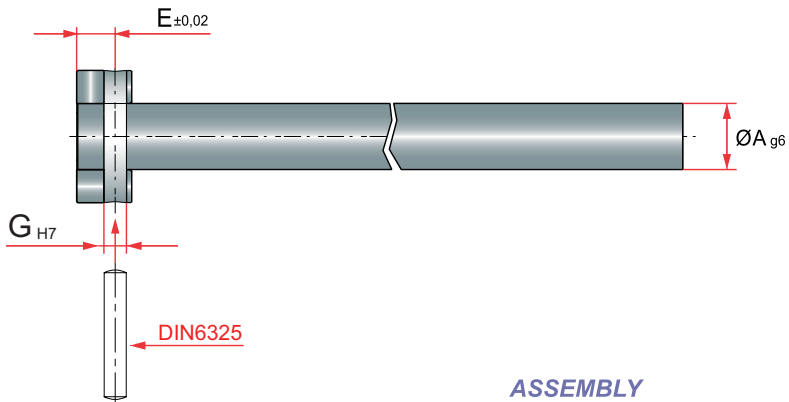


Date stamp with ejector pin
 Fechador con expulsor
 Datownik z wypychaczem
 Datador con extrator
 Dateur avec éjecteur



Mat. : 1.2344 58 HRC ± 3

A	B	D	F	G	E	L	REF.	
4	2,2	5	10	2	3,5	400	BR2500-4	
5	2,9						BR2500-5	
6	3,7						12	BR2500-6
8	5						14	BR2500-8
10	6,3						16	BR2500-10
12	7,5	7	18	3	4	BR2500-12		
16	8,7	7	22			BR2500-16		



ASSEMBLY

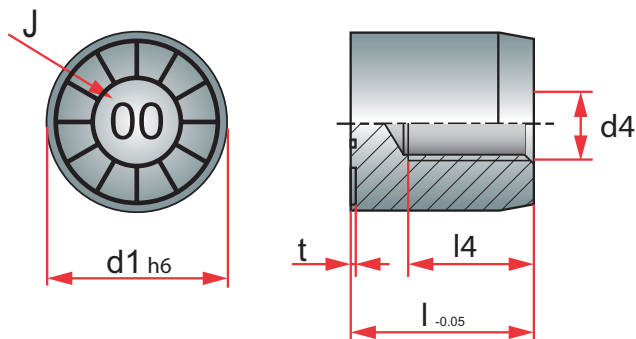
Machine on the ejector rod the hole to fit the head-holding pin.
 Insert the ejector head and fix it with the pin code

BR24760

E 24760



Month stamp markable
 Fechador mes marcable
 Datownik znakowalny
 Datador marcável
 Dateur marquable

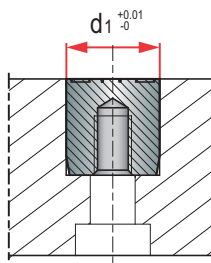


6

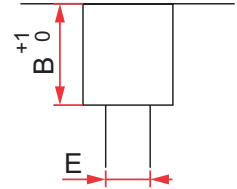
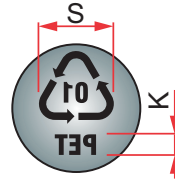
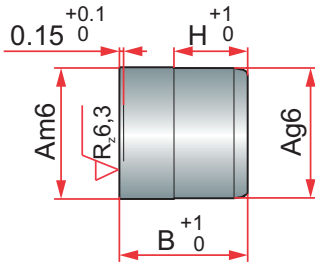
Mat. : 1.2343 43 HRC ±3

t	l_4	l	d_4	d_1	J	REF.
0,2	6	10	M4	6	YEAR/AÑO	BR24760-06-J
				8		BR24760-08-J
				10		BR24760-10-J
0,25	6	10	M6	12	YEAR/AÑO	BR24760-12-J
				16		BR24760-16-J
0,3	6	10	M6	16	YEAR/AÑO	BR24760-16-J

Marked/Marcado



Reference insert
 Inserto referencia
 Wkładka znakownika recyklingu
 Indicadores de reciclagem
 Pion de recyclage



01



02



03



04



05



06



07 (Others)

Mat. : INOX. 1.4034. Hardness: 51 ± 3 HRC. Maximum temperature at work: 150° C.

S	K	E	H	A	B	REF.
5,6	1,5	8	7	10	12	IR-1012-01 (PET)
						IR-1012-02 (PE-HD)
						IR-1012-03 (PVC)
						IR-1012-04 (PE-LD)
						IR-1012-05 (PP)
						IR-1012-06 (PS)
						IR-1012-07
6,8	1,8	10		12		IR-1212-01 (PET)
						IR-1212-02 (PE-HD)
						IR-1212-03 (PVC)
						IR-1212-04 (PE-LD)
						IR-1212-05 (PP)
						IR-1212-06 (PS)
						IR-1212-07

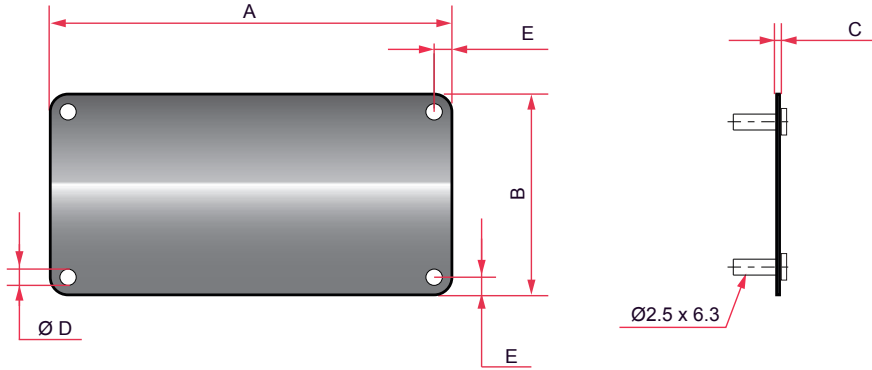
S	K	E	H	A	B	REF.
9	2,4	12	9	16	16	IR-1616-01 (PET)
						IR-1616-02 (PE-HD)
						IR-1616-03 (PVC)
						IR-1616-04 (PE-LD)
						IR-1616-05 (PP)
						IR-1616-06 (PS)
						IR-1616-07
11,5	3,2	16		20		IR-2016-01 (PET)
						IR-2016-02 (PE-HD)
						IR-2016-03 (PVC)
						IR-2016-04 (PE-LD)
						IR-2016-05 (PP)
						IR-2016-06 (PS)
						IR-2016-07

* Indicate the desired model after the reference.
 * Indiquer le sigle demandé après la référence.
 * Indicar o modelo desejado depois da referência.
 * Indicar el modelo deseado después de la referencia.

BR1034P

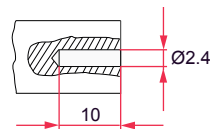
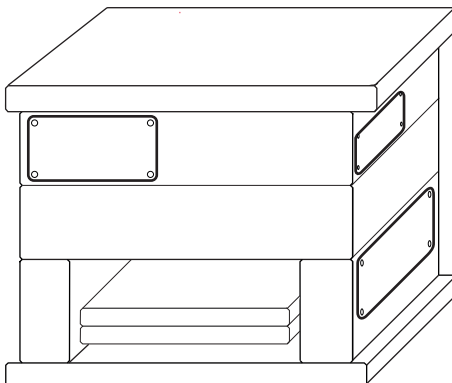


Name Plate, with mounting hole
Placa de identificación con agujeros de montaje



Mat. aluminium.

A	B	C	D	E	REF.
50	25	1	2,8	5	BR1034P- 2550
70	40				BR1034P- 4070
90	50				BR1034P- 5090
120	60				BR1034P-60120

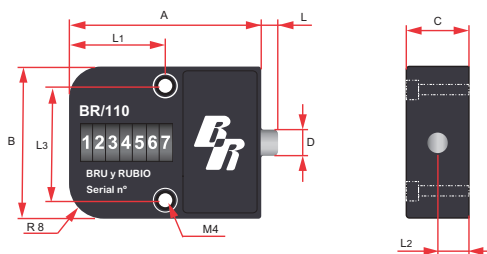




BR110

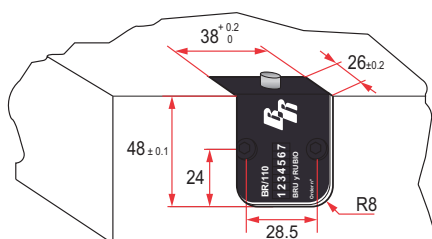
A5730

Cycle counter
 Contador de ciclos
 Licznik cykli
 Contador de ciclos
 Compteur de cycles



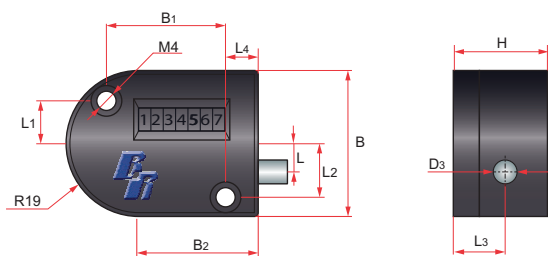
Maximum temperature at work: 120° C.

A	B	C	D	L	L1	L2	L3	REF.
48	38	25	6,3	4	24	12	28,5	BR110



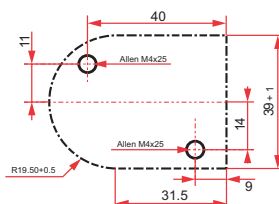
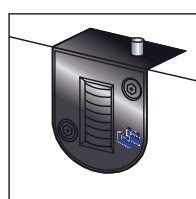
BR111

Cycle counter
 Contador de ciclos
 Licznik cykli
 Contador de ciclos
 Compteur de cycles



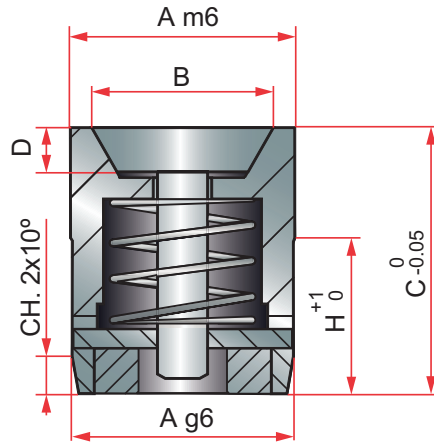
Maximum temperature at work: 120° C.

L	L1	L2	L3	L4	D3	B	B1	B2	H	REF.
7,5	11	14	13,4	8,5	6,2	38	31	31	24,5	BR111/



SCHEEM OF FASTENING
 ESQUEMA DE FIJACIÓN

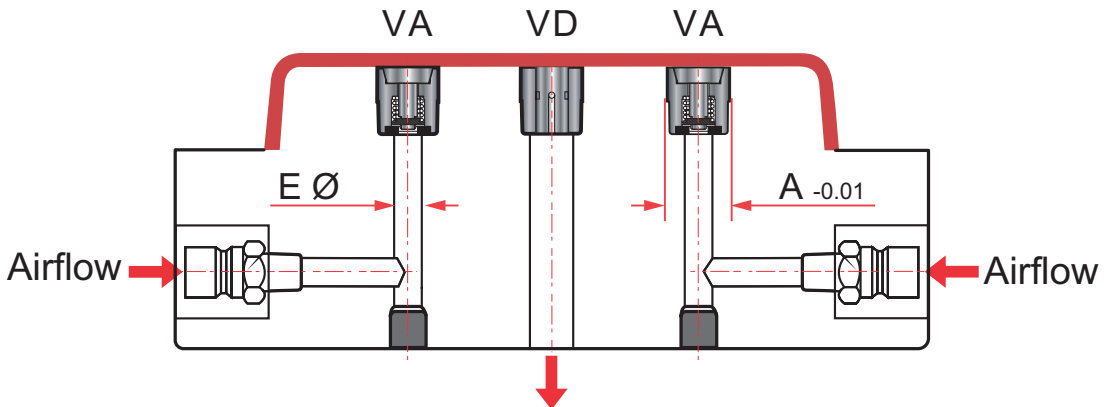
Air valve with anti spin system
 Válvula de aire con sistema anti-rotación
 Zawór powietrzny
 Valvula de ar con sistema antigiro
 Soupape a air avec système anti-tour



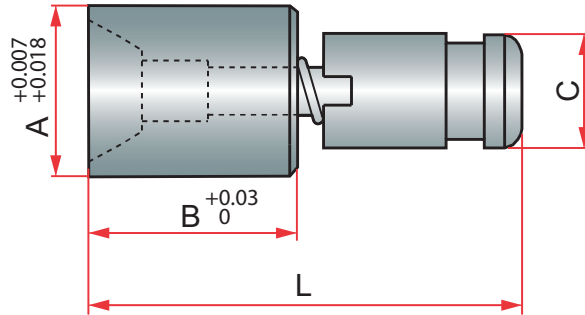
Mat. : INOX. 1.4034./ Hardness: 56 ± 2 HRC. Working pressure 1,5-6 BARS.

B	D	E	H	A	C	REF.
3,8	1,5	3,5	7	5	12	VA-05
5	2,5	4		6		VA-06
6,5				8		VA-08
8				10		VA-10
10				12		VA-12
13	4	10	12	16	20	VA-16
16,8	4,5	12		20		VA-20

7

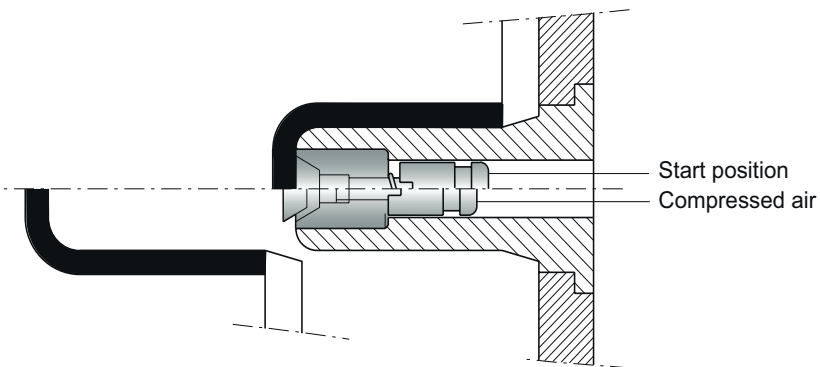


Air valve
 Válvula de aire
 Zawór powietrzny
 Valvula de ar
 Soupape a air

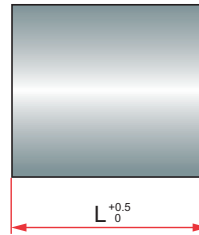
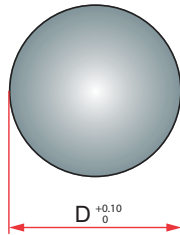


Mat. : INOX. 1.4034./ Hardness: 56 ± 2 HRC. Working pressure 1,5-6 BARS.

B	C	A	L	REF.
11	6	8	24	VAB-08
18	8	12	34	VAB-12
22	12	18	45,5	VAB-18



Porous insert
 Inserto poroso
 Wkładka porowata
 Inserção porosa
 Events



d	L	REF.
4	10	VPS-04x10
6		VPS-06x10
8		VPS-08x10
10	12	VPS-10x12
12		VPS-12x12
16	14	VPS-16x14
18	15	VPS-18x15
20		VPS-20x15

7

Porous steel that is used in injection mould as a venting solution.

Acero poroso que se utiliza en los moldes de inyección para la evacuación de gases.

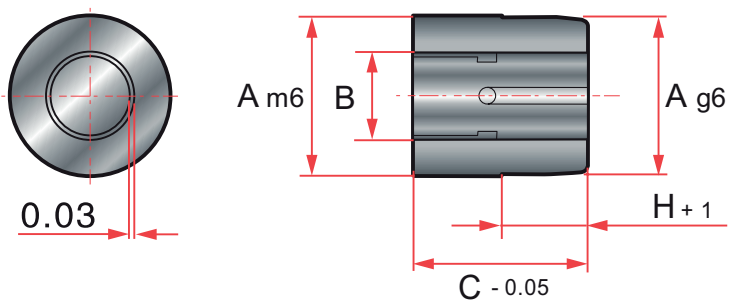
Porous structure (20 to 30% of it's volume) is crossed by a network of pores of an average diameter of 10 μm which passes the off-gas during the injection.

Su estructura porosa (del 20 al 30% de su volumen) es cruzada por una red de poros de un diámetro medio de 10 μm que deja pasar las liberaciones gaseosas producidas en la inyección.

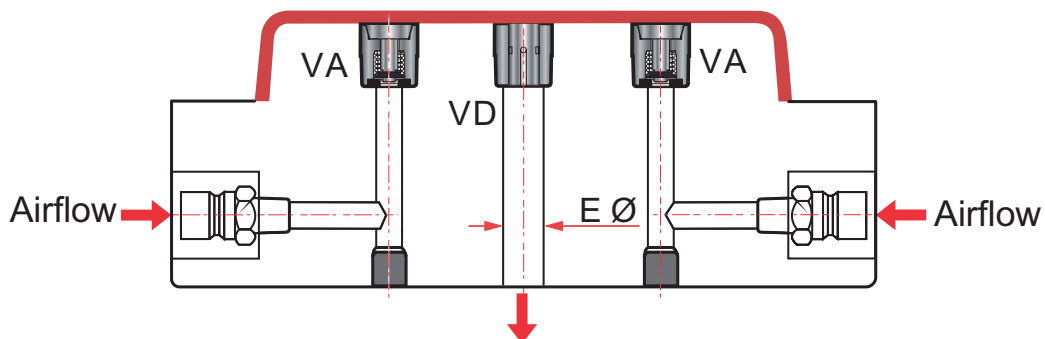
*Other measures under request.

*Otras medidas bajo demanda.

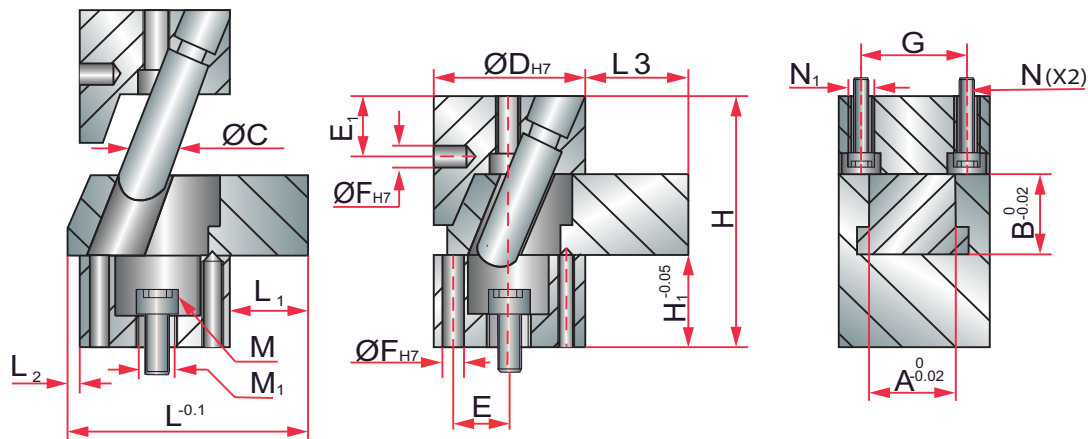
Double valve
 Válvula doble
 Podwójny zawór
 Valvula dupla
 Double soupape



A	B	C	E	H	REF.
8	5	12	4	7	VD-08
10	6		5		VD-10
12	8		7		VD-12
16	10	20	9	12	VD-16

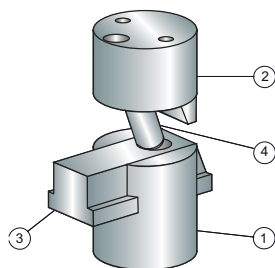


Cylindrical slide
 Corredera cilíndrica
 Zespół suwaka okrągły
 Deslizando cilíndrico
 Tiroirs standard



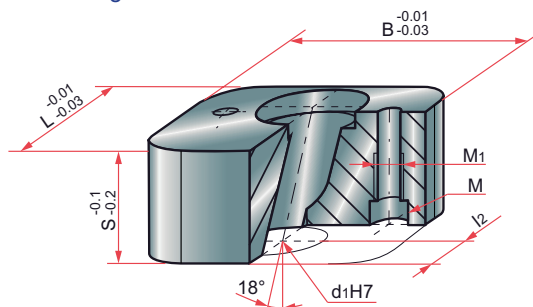
H1	H	G	F	E1	E	D	C	B	A	REF.
10	35,5	14	4	11,5	7,5	22	6	10	10	CC-101022
16	51	19	5	15,5	10,5	30	8	15	15	CC-151530
23	63	24			13	35	10	20	20	CC-202035

L	L1	L2	L3	M	M1	N	N1	Stroke
35	12,5	1,8	15	M5	M6	M3	M4	2,5
45	15,4	1,2	20	M6	M8	M4	M5	4,6
55,5	17,9	2,6	25	M8	M10	M5	M6	7,1



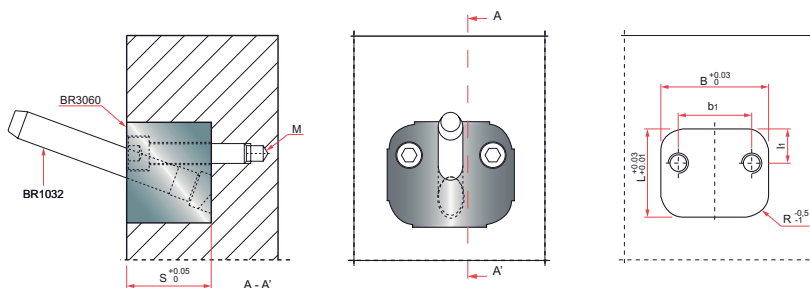
Part	Mat.	Treatment
1	1.2312	Nitrided
2		
3	1.2343	Hardened 52-54 HRC
4	C53	Hardened 61-64 HRC

Retainer for inclined pin
 Alojamiento para guía inclinada
 Oprawa bolców skośnych
 Alojamento para guia inclinada
 Logement pour doigt de démoulage

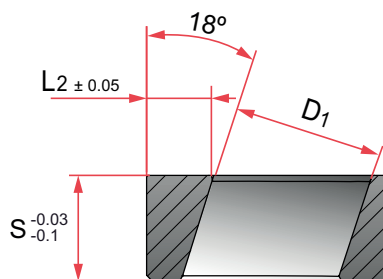
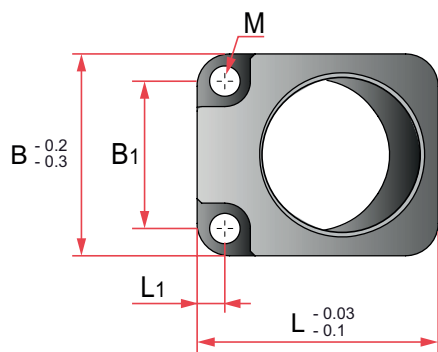


Mat. : 1.2312 \approx 1080 N/mm².

B	S	b1	I1	I2	M	M1	R	d1	L	REF.		
40	18	24	8	6,8	M6	M8	8	10	18	BR3060/10x18		
			8,5	10					26	BR3060/10x26		
	24	26	10	8,5			12	23	BR3060/12x23			
			10	11				30	BR3060/12x30			
44	28	28	10	9,45	M8	M10	12	14	26	BR3060/14x26		
			12	12				34	BR3060/14x34			
52	32	34	12	11			M10	M12	16	30	30	BR3060/16x30
			14	13						38	BR3060/16x38	
54	36	36	12	12	M10	M12			18	33	33	BR3060/18x33
			16	15						42	BR3060/18x42	
56	40	38	12	13			M10	M12	20	36	36	BR3060/20x36
			18	17						46	BR3060/20x46	
62	44	42	12	14,8	M10	M12			22	40	40	BR3060/22x40
			20	19						50	BR3060/22x50	
66	46	44	12	15,3			M10	M12	24	42	42	BR3060/24x42
			22	19						52	BR3060/24x52	
74	56	52	24	22					16	30	62	BR3060/30x62

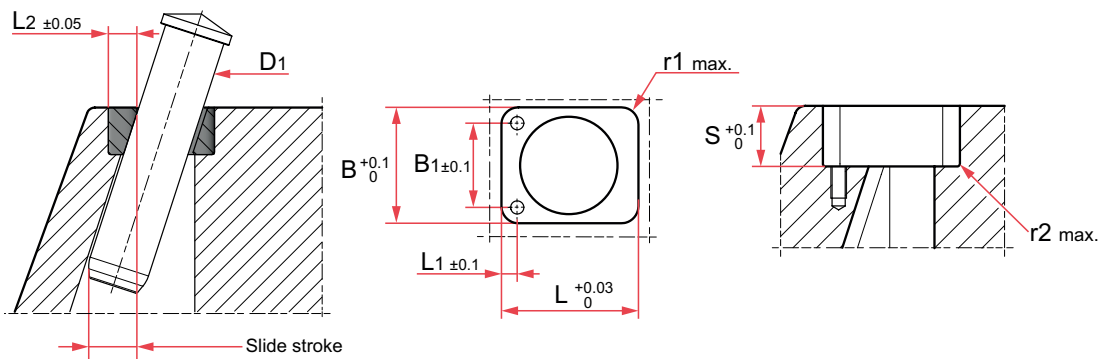


Guide for inclined pin
 Guia para columna inclinada
 Prowadzenie słupa skośnego
 Guia para coluna inclinada
 Guide pour doigt de démoulage

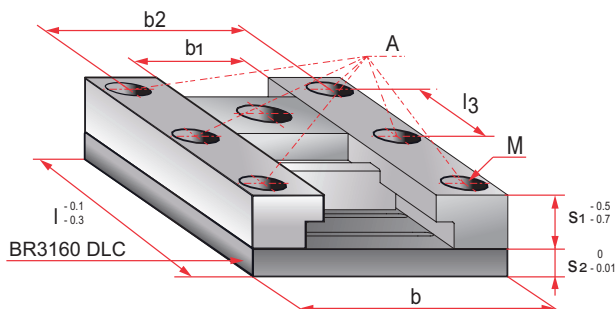
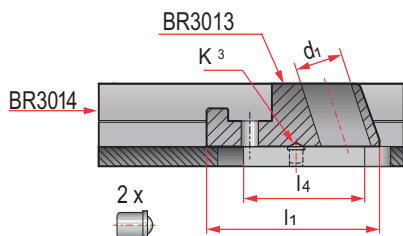


Mat. : 1.2363 ≈ 58 HRC

r1	r2	B1	L1	L2	M	S	B	L	D1	REF.
4,5	0,5	-	5,5	16,0	M5	11	22	33,50	12	BR3064/12
5,5				16,5		13	24	36,50	14	BR3064/14
				14,0		15	27	16	BR3064/16	
				13,5		16	30	38,00	18	BR3064/18
				13,0		17	32	40,00	20	BR3064/20
				12,5		18	35	41,50	22	BR3064/22
6,5	1,0	24	6	15,0	M6	21	37	46,50	24	BR3064/24
				14,0		23	44	52,00	30	BR3064/30



Slide guiding kit
 Conjunto de corredera
 Suwak do zabudowy modułowej
 Conjunto de elemento móvil
 Kit ensemble tiroir



A	b	d ₁	l ₁	b ₂	M	s ₂	l ₃	b ₄	l ₄	s ₁	b ₁	l	REF.
4	52	11	40	40	M5	8	34	12	16	12	20	50	BR3012-12-20- 50
							47		22			63	BR3012-12-20- 63
							32		28			80	BR3012-12-20- 80
4	57			45			34		16		25	50	BR3012-12-25- 50
							47		22			63	BR3012-12-25- 63
							32		28			80	BR3012-12-25- 80
4	64			52			34		16		32	50	BR3012-12-32- 50
							47		22			63	BR3012-12-32- 63
							32		28			80	BR3012-12-32- 80
4	52		42	40			34		16	16	20	50	BR3012-16-20- 50
							47		22			63	BR3012-16-20- 63
							32		28			80	BR3012-16-20- 80
4	57			45			34		16		25	50	BR3012-16-25- 50
							47		22			63	BR3012-16-25- 63
							32		28			80	BR3012-16-25- 80
4	64			52			34		16		32	50	BR3012-16-32- 50
							47		22			63	BR3012-16-32- 63
							32		28			80	BR3012-16-32- 80

(1) A: Number of screwholes

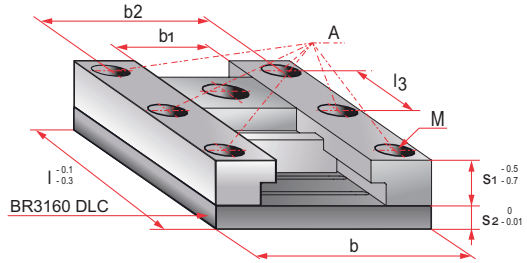
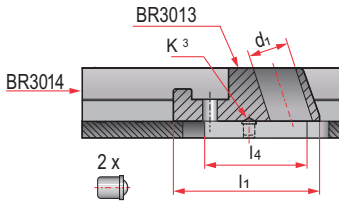
(1) A: Num. de agujeros

(2) l₄: Maximum stroke

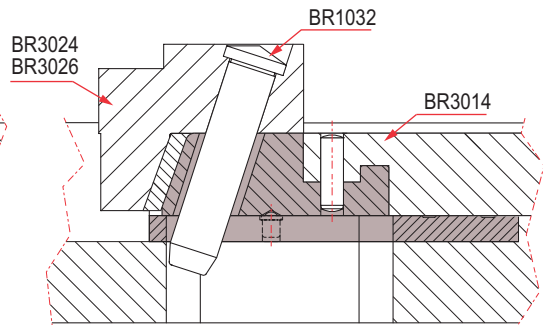
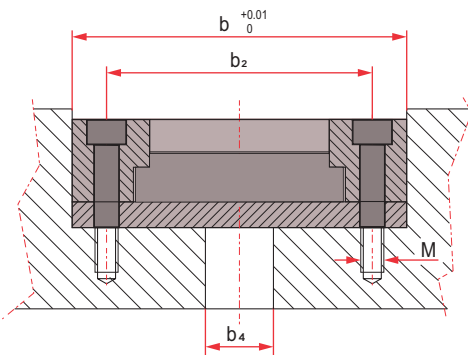
(2) l₄: Carrera max.

(3) K: Slot for thrust piece to be machined by the customer

(3) K: Ranura para pieza de empuje, a mecanizar por el cliente



A	b	d ₁	l ₁	b ₂	M	s ₂	l ₃	b ₄	l ₄	s ₁	b ₁	l	REF.
4	65	13	46	47	M6	8	43	14	20	20	25	63	BR3012-20-25- 63
							60		28			80	BR3012-20-25- 80
							40		38			100	BR3012-20-25-100
4	72			54			43		20		32	63	BR3012-20-32- 63
							60		28			80	BR3012-20-32- 80
							40		38			100	BR3012-20-32-100
4	80			62			43		20		40	63	BR3012-20-40- 63
							60		28			80	BR3012-20-40- 80
							40		38			100	BR3012-20-40-100
4	65		52	47			60		28	25	25	80	BR3012-25-25- 80
							40		38			100	BR3012-25-25-100
							60		28			32	80
4	72			54			40		38		32	100	BR3012-25-32-100
							60		28			80	BR3012-25-40- 80
							40		38			100	BR3012-25-40-100
4	80			62			60		28		40	80	BR3012-25-40- 80
							40		38			100	BR3012-25-40-100
							50		125			BR3012-32-50-125	
4	82	15	60	60	M8	10	76	16	38	32	32	100	BR3012-32-32-100
				68								40	BR3012-32-40-100
				78								50	BR3012-32-50-100
6						50,5					125	BR3012-32-50-125	



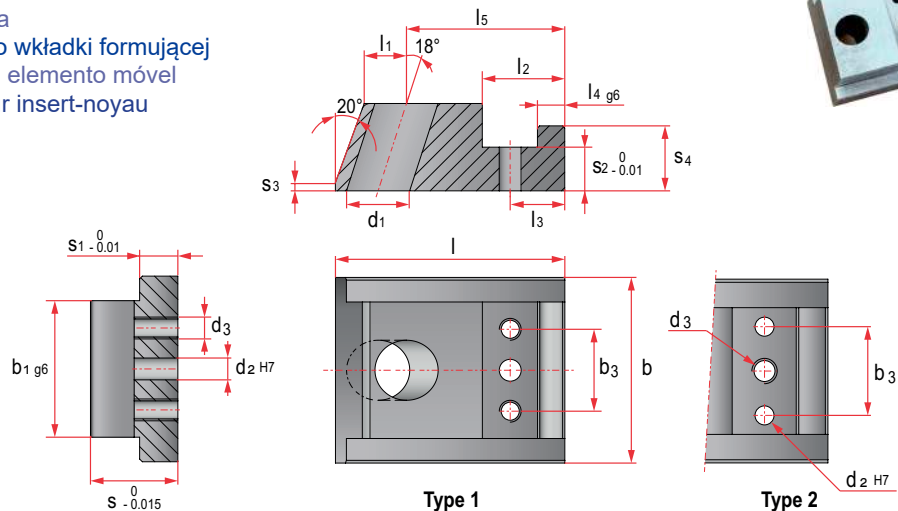
Slidefor core

Corredera

Suwak do wkładki formującej

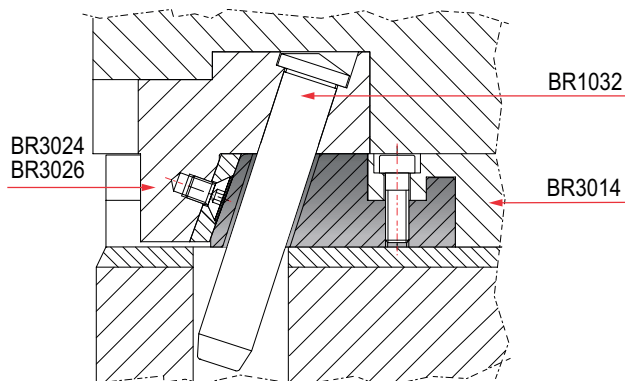
Corpo de elemento móvel

Tiroir pour insert-noyau

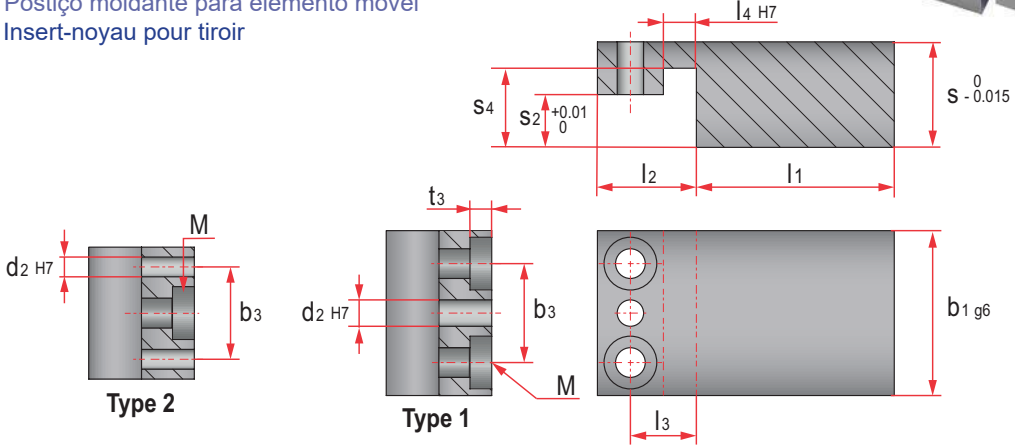


Mat. : 1.2343 ≈ 54 HRC

Type	b	l	d ₁	l ₁	s ₁	d ₂	l ₂	s ₂	b ₃	d ₃	l ₃	s ₃	l ₄	s ₄	l ₅	s	b ₁	REF.	
2	27	40	11	7,75	6	3	15,1	6	14	M4	10	1,5	5	8,9	28,44	12	20	BR3013-12-20	
1	32					4			15									25	BR3013-12-25
	20								32									BR3013-12-32	
	14								20									BR3013-12-20	
2	29	42			8	3	8	14					11,9	28,98	16	20	BR3013-16-20		
1	34					4			15									25	BR3013-16-25
	20								32									BR3013-16-32	
	14								20									BR3013-16-20	
	34	46	13	9,75			18,1	9	15		13	2	8	13,9	29,71	20	25	BR3013-20-25	
	41								20									32	BR3013-20-32
	25								40									BR3013-20-40	
	15								25									BR3013-20-25	
15	20								BR3013-20-20										
	34	52					22,1	10	15		16		10	15,9	33,89	25	25	BR3013-25-25	
	41								20	M5								32	BR3013-25-32
	25								40									BR3013-25-40	
15	25								BR3013-25-25										
	43	60	15	11,6	10	6	26,1	12	20		19		12	19,9	37,47	32	32	BR3013-32-32	
	51								25									40	BR3013-32-40
	30								50									BR3013-32-50	
15	30								BR3013-32-15-30										

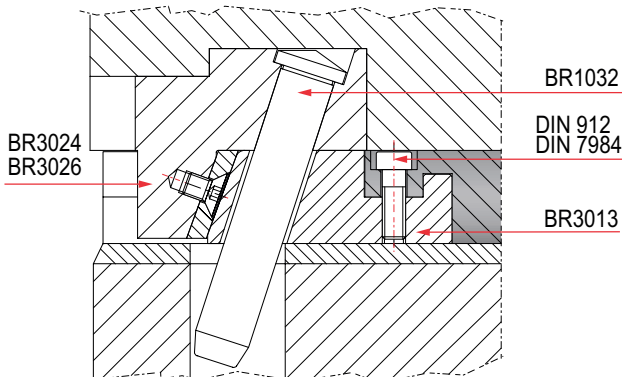


Core for slidefor
 Noyo para corredera
 Wkładka formująca do suwaka
 Postiço moldante para elemento móvel
 Insert-noyau pour tiroir

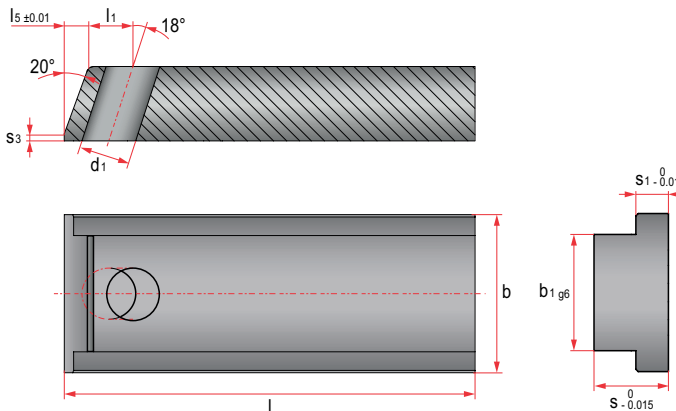


Mat. : 1.2343 ≈ 54 HRC

Type	l_1	d_2	l_2	s_2	b_3	M	l_3	t_3	l_4	s_4	s	b_1	REF.
2	30	3	15	6	14	M4 DIN7984	10	3,3	5	9	12	20	BR3014-12-20
1	30	4	15	6	15							25	BR3014-12-25
		20			32							BR3014-12-32	
2	30	3	15	8	14	10	3,3	5	12	16	20	BR3014-16-20	
1		4		8	15						25	BR3014-16-25	
		20			32						BR3014-16-32		
1	40	3	15	9	15	M4 DIN912	13	4,5	8	14	20	25	BR3014-20-25
					20							32	BR3014-20-32
					25							40	BR3014-20-40
	40	3	15	10	15	M5 DIN912	16	6	10	16	25	25	BR3014-25-25
					20							32	BR3014-25-32
					25							40	BR3014-25-40
	50	6	26	12	20	M5 DIN912	19	6	12	20	32	32	BR3014-32-32
					25							40	BR3014-32-40
					30							50	BR3014-32-50

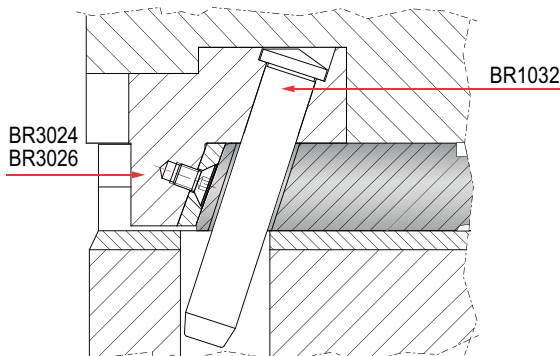


Slide
Corredera
Suwak
Elemento móvil
Tiroir



Mat. : 1.2311

b	b ₁	l	d ₁	l ₁	s	s ₁	s ₃	l ₅	REF.
27	20	76	11	7,75	12	6	1,5	3,82	BR3016/12/20
32	25								BR3016/12/25
39	32								BR3016/12/32
29	20	78			16	8		5,28	BR3016/16/20
34	25								BR3016/16/25
41	32								BR3016/16/32
34	25	92	13	9,75	20		2	6,55	BR3016/20/25
41	32								BR3016/20/32
49	40								BR3016/20/40
34	25	98			25			8,37	BR3016/25/25
41	32								BR3016/25/32
49	40								BR3016/25/40
43	32	116	15	11,62	32	10		10,92	BR3016/32/32
51	40								BR3016/32/40
61	50								BR3016/32/50



BR3024

E3024



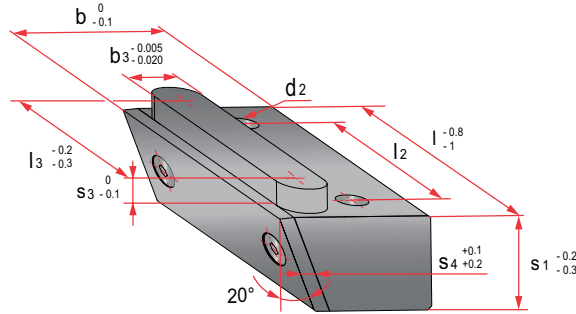
Cotter with wear plate

Cuña de cierre con placa sufridera

Klin zamykający z płytą dociskową

Bloco de encosto com chapa de ajuste

Coin de verrouillage avec plaquette de frottement



* (l₂) One screw hole centred

* (l₂) Solo un agujero centrado

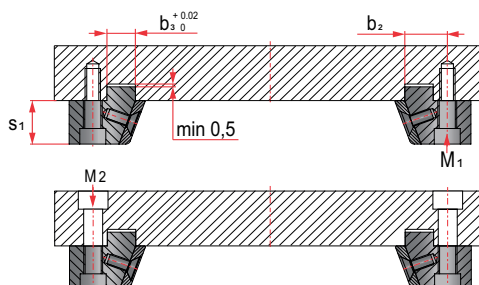
Mat. : 1.2312 ≈ 1080 N/mm²

b	b ₃	s ₃	s ₄	d ₂	l ₂ *	l ₃	s ₁	l	REF.		
18	8	5	4	M6	-	10	11	20	BR3024/11/20		
						18		28	BR3024/11/28		
						24		40	BR3024/11/40		
						34		56	BR3024/11/56		
22	10	6		M8	-	8	15	20	BR3024/15/20		
						16		28	BR3024/15/28		
						24		40	BR3024/15/40		
						32		56	BR3024/15/56		
28	12				-	10	19	24	BR3024/19/24		
						22		36	BR3024/19/36		
						26		40	BR3024/19/40		
						32		50	BR3024/19/50		
						36		60	BR3024/19/60		
						44		72	BR3024/19/72		
32				M10	-	10	24	24	BR3024/24/24		
						22		36	BR3024/24/36		
						26		40	BR3024/24/40		
						30		50	BR3024/24/50		
						36		60	BR3024/24/60		
						44		72	BR3024/24/72		
						48		80	BR3024/24/80		
						66					
40	16	8	6		-	22	28	40	BR3024/28/40		
						26		50	BR3024/28/50		
						36		60	BR3024/28/60		
						48		80	BR3024/28/80		
						64		100	BR3024/28/100		
						74		120	BR3024/28/120		
						-		14	31	32	BR3024/31/32
						22		40		BR3024/31/40	

* (l2) One screw hole centred * (l2) Solo un agujero centrado

b	b ₃	s ₃	s ₄	d ₂	l ₂ '	l ₃	s ₁	l	REF.
40	16	8	6	M10	24	28	31	46	BR3024/31/46
					26	32		50	BR3024/31/50
					36	42		60	BR3024/31/60
					40	46		64	BR3024/31/64
					48	62		80	BR3024/31/80
					52	68		86	BR3024/31/86
					64	82		100	BR3024/31/100
50				M12	-	22	39	40	BR3024/39/40
					32	38		56	BR3024/39/56
					52	62		80	BR3024/39/80
					68	94		112	BR3024/39/112
63	20	10		M16	-	18	49	40	BR3024/49/40
						28		50	BR3024/49/50
					32	38		60	BR3024/49/60
					40	50		72	BR3024/49/72
					46	58		80	BR3024/49/80
					64	78		100	BR3024/49/100
					74	98		120	BR3024/49/120
					84	118		140	BR3024/49/140
70					-	18	60	40	BR3024/60/40
						28		50	BR3024/60/50
					32	38		60	BR3024/60/60
					46	58		80	BR3024/60/80
					64	78		100	BR3024/60/100
					74	98		120	BR3024/60/120
80	25	12			-	23	75	50	BR3024/75/50
					32	33		60	BR3024/75/60
					46	53		80	BR3024/75/80
					64	73		100	BR3024/75/100
					74	93		120	BR3024/75/120

s ₁	M ₁	M ₂	b ₂
11	M 4	M 6	13
15	M 6	M 8	15
19	M 6	M 8	18
24	M 8	M 10	20
28	M 8	M 10	24
31	M 8	M 10	24
39	M 10	M 12	26
49	M 12	M 16	32
60	M 12	M 16	36
75	M 12	M 16	42



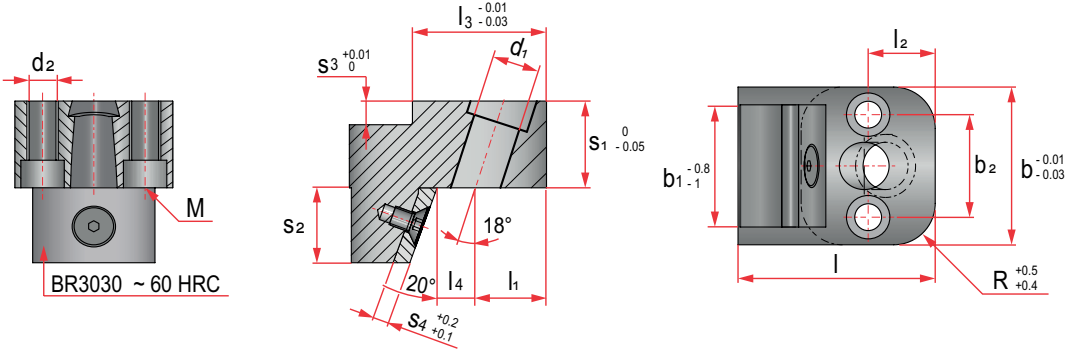
Cotter with inclined pin retainer

Cuña de cierre con alojamiento guía inclinada

Klin zamykający z prowadzeniem dla trzpieni skośnych

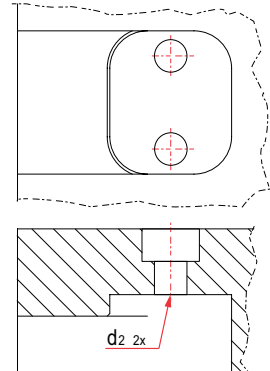
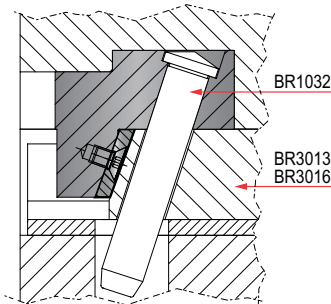
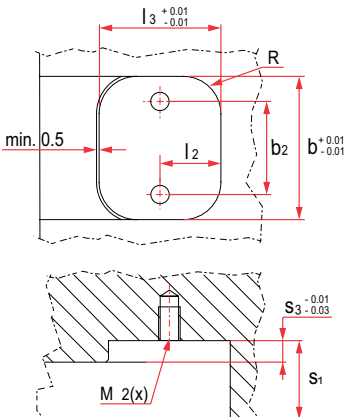
Bloco de encosto com alojamento para guia inclinada

Coin de fermeture avec logement de colonne oblique

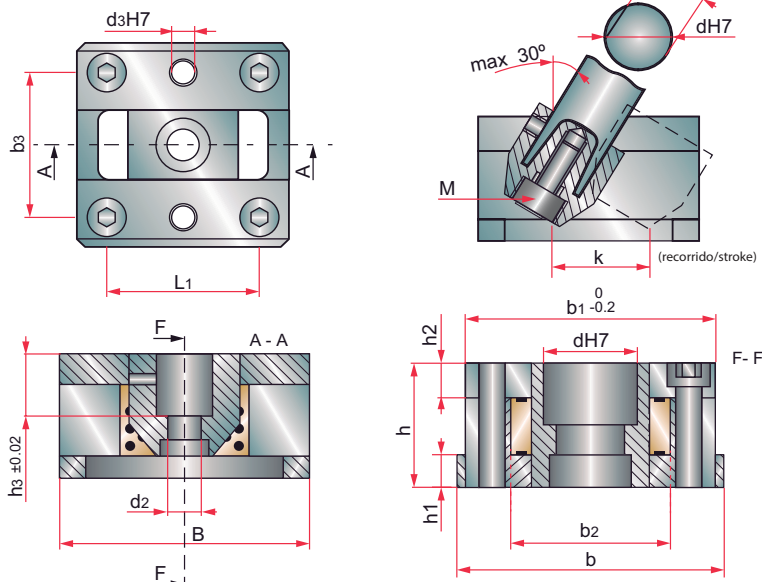


Mat. : 1.2312 $\approx 1080 \text{ N/mm}^2$

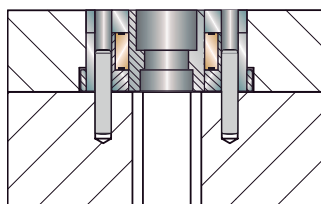
M	R	b	l	d ₂	d ₁	l ₄	l ₃	l ₂	l ₁	s ₄	s ₃	s ₂	s ₁	b ₂	b ₁	REF.	
8	8	32	38	M6	10	7,75	26	13	13	4	6	11	16	21	20	BR3026/11/20	
																24	
			32	20													
		42	14	15	18	20											
				24													
			32	24													
10	10	40	50	M8	12	9,75	34	17	18	8	19	22	26	24	24	BR3026/19/24	
																32	
																40	
			54	24	24	24	24										
					32												
				40	32												
		50	65	M10	14	11,6	40	20	20	6	31	26	32	32	32	32	BR3026/31/32
																	40
			50	40	50												



Sliding carriages
 Carro para corredera
 Obsada wypychacza skośnego
 Deslizador
 Tiroir articulé



h	b1	b2	b3	L1	h1	h2	h3	M	d2	d3	F	k	b	B	d	REF.
22	30	19	24	20	5	7	8	M4	4,5	3	7	10	33	32	8	S10-08
27	40	25	32	30		8	10	M5	5,5	4	9	18	45	45	10	S10-10
32	51	31	39	35	7	10	12	M6	7	6	11	20	57	50	12	S10-12
36	58	38	46	40	8	16	M8	9	14,5		25	65	65	16	S10-16	
42	72	44	56	55	11	12	20	M10	11	8	18	30	80	80	20	S10-20
50	85	52	66	65	15	15	25	M12	14	10	22,5	35	93	90	25	S10-25
55	93	60	74	70			30	27	40		101	100	30	S10-30		
62	110	70	85	80		18	35	32	45	120	120	35	S10-35			
70	120	80	95	90		40	M16	17,5	36	50	130	135	40	S10-40		

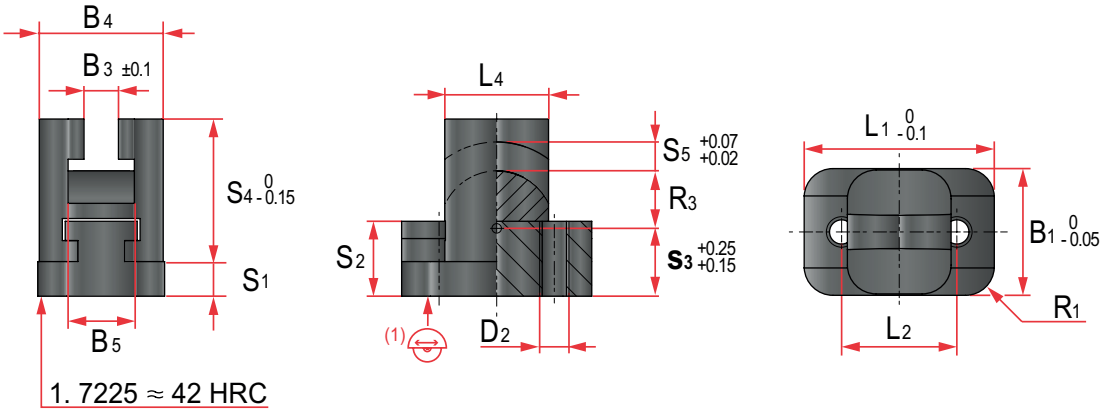


BR7532

E 3240



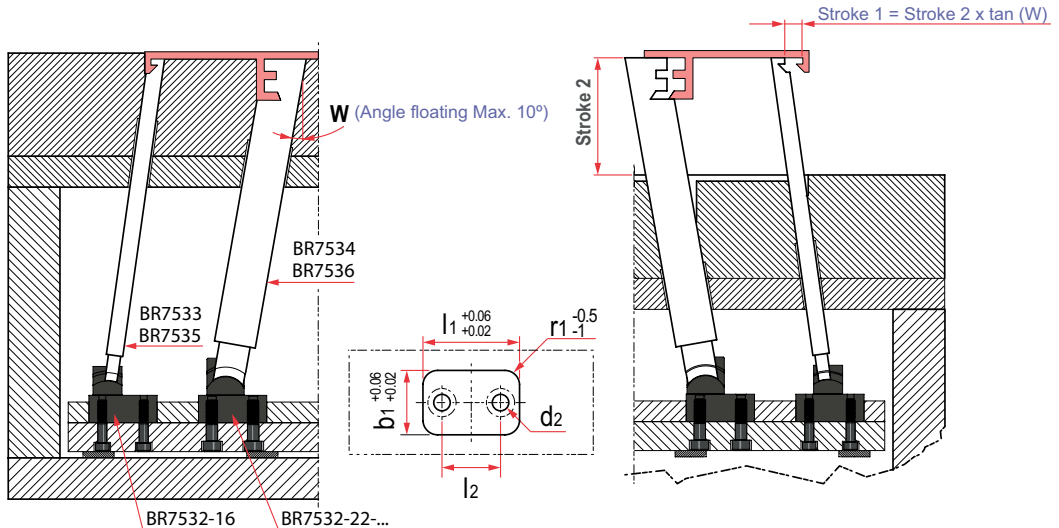
Inclined ejector unit
 Base expulsor inclinado
 Zespół mocujący do wypychacza skośnego
 Base de expulsor inclinado
 Unité d'éjection inclinée



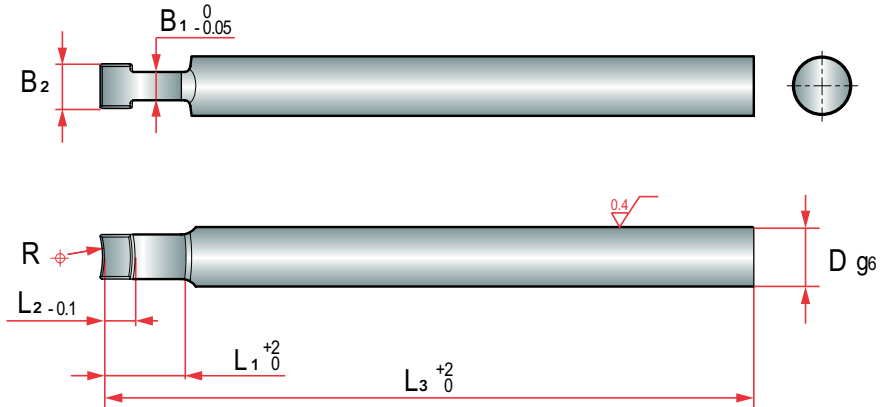
Mat. : 1.2344./ Hardness: 58 ± 2 HRC.

(1) S₃ With allowance for adjusting

Stroke ₁	R ₁	R ₃	D ₂	L ₁	L ₂	L ₄	S ₁	S ₂	S ₃ ⁽¹⁾	S ₄	S ₅	B ₁	B ₃	B ₄	B ₅	REF.
16	2,5	12	M4	33	20	14	6	13	8	21	4	16	4	15,9	6,6	BR7532-16-33
12	5	10	M5			18			12	25	5	22	6,1	21,5	11,5	BR7532-22-33
30				52	30											BR7532-22-52



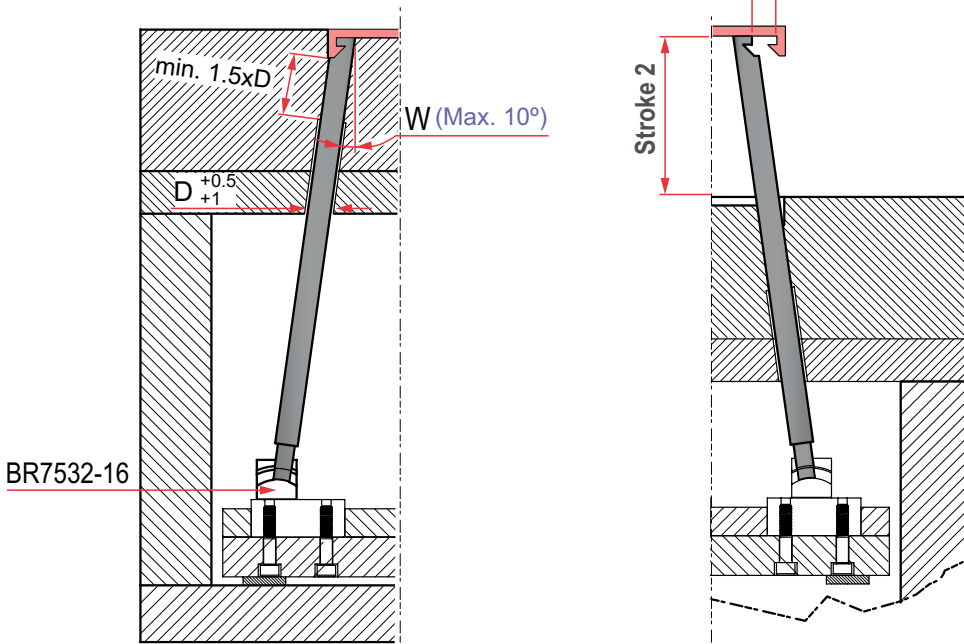
Inclined round ejector core
 Expulsor inclinado
 Wypychacz skośny okrągły
 Expulsor inclinado
 Éjecteur inclin  rond



Mat. : 1.2343./ Hardness: 48-50 HRC.

B_1	B_2	R	D	L_1	L_2	L_3	REF.
3,81	6	12	8	12	4	200	BR7533-8-200

Stroke 1 = Stroke 2 x tan (W)

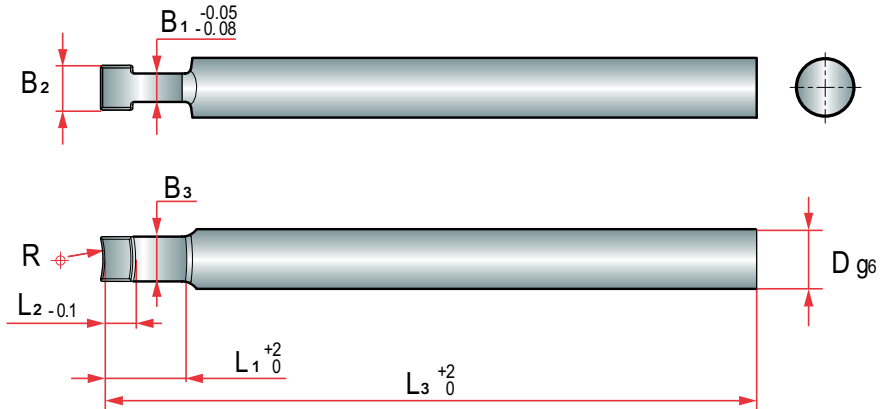


BR7534

E 3244

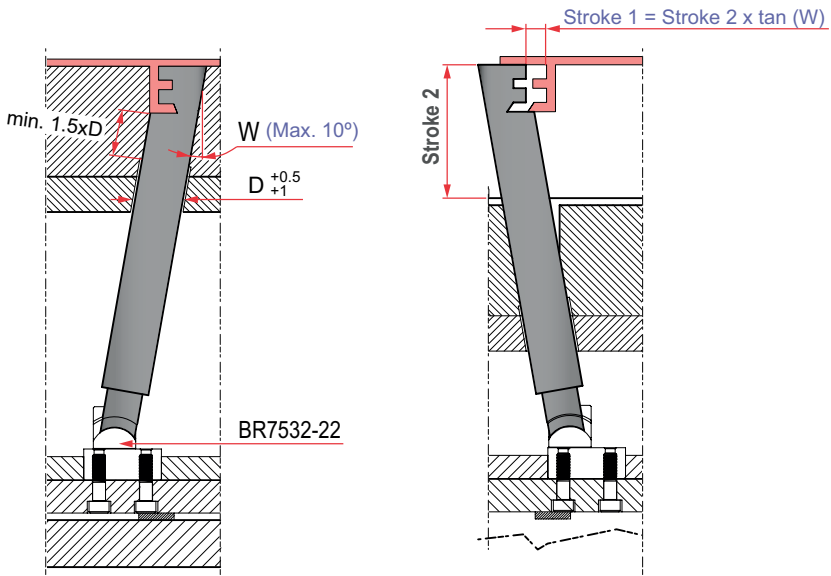


Inclined round ejector core
Expulsor inclinado
Wypychacz skośny okrągły
Expulsor inclinado
Éjecteur incliné rond

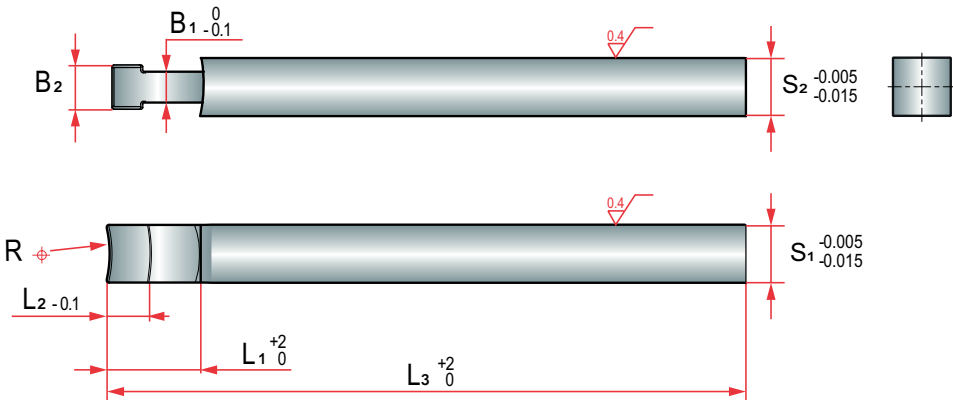


Mat. : 1.2344./ Hardness: 38-40 HRC.

B_1	B_2	B_3	R	D	L_1	L_2	L_3	REF.
6,1	10	10	10	10	14	5	250	BR7534-10-250
				15				BR7534-15-250

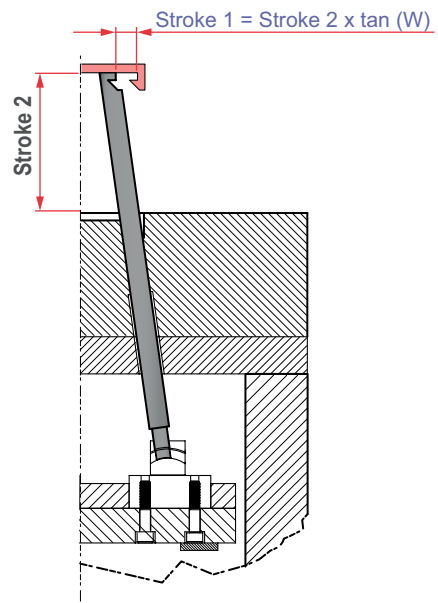
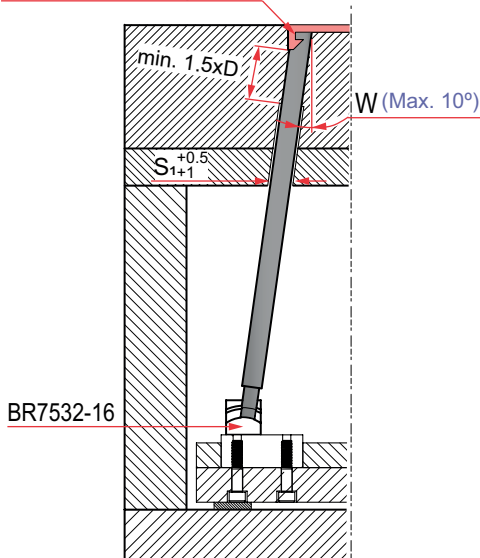


Inclined ejector rectangular
 Expulsor inclinado rectangular
 Wypychacz skośny, kątowy
 Expulsor inclinado rectangular
 Éjecteur incliné rectangulaire



B_1	B_2	R	L_1	L_2	S_1	S_2	L_3	REF.
3,81	6	12	12	4	6	6	200	BR7535-6- 6- 200
						10		BR7533-6-10-200
					8	6		BR7533-8-6-200
					10	8		BR7533-8- 8- 200
								BR7533-10-8-200

Nitride or coat if required

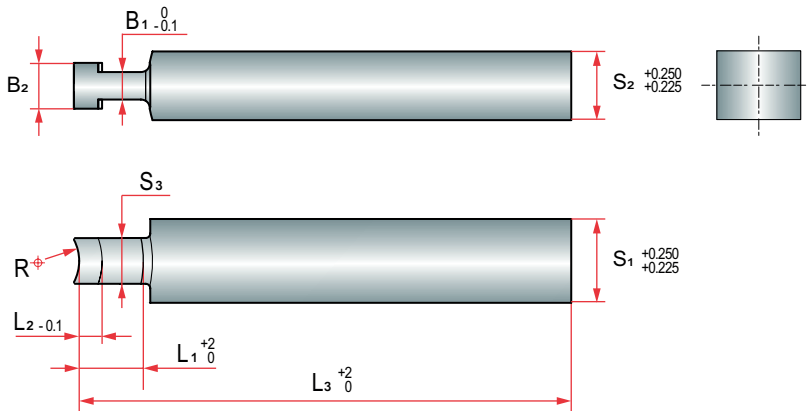


BR7536

E 3246

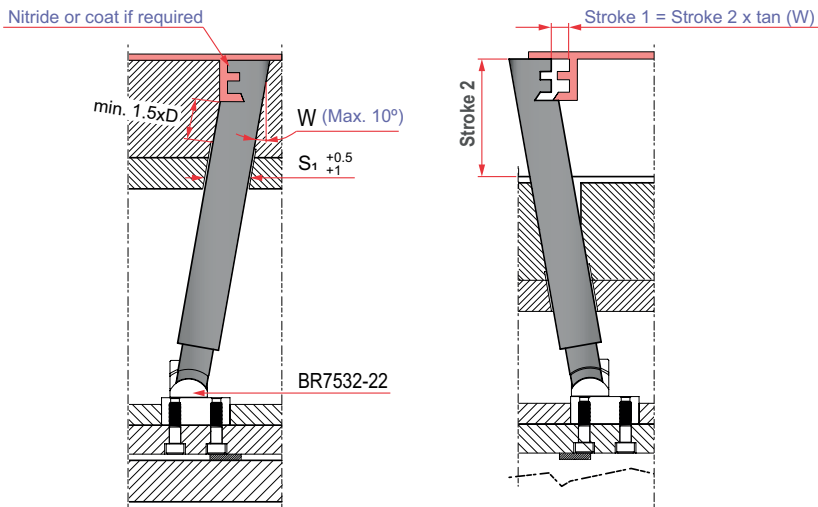


Inclined ejector rectangular
 Expulsor inclinado rectangular
 Wypychacz skośny, kątowy
 Expulsor inclinado rectangular
 Éjecteur incliné rectangular



Mat. : 1.2344./ Hardness: 38-40 HRC.

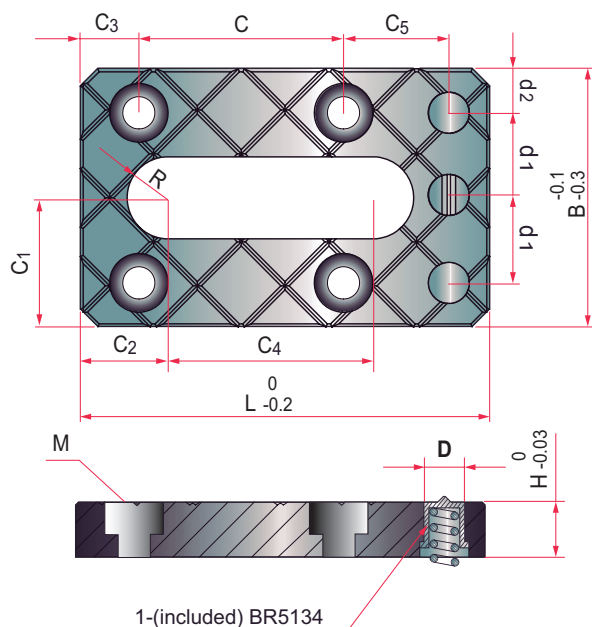
B_1	B_2	R	L_1	L_2	S_1	S_2	S_3	L_3	REF.	
6	10	10	14	5	10	10	10	250	BR7536-10-10-250	
						20			BR7536-10-20-250	
						20			15	BR7536-20-10-250
						15			15	BR7536-15-15-250
					400	30	30	BR7536-15-30-400		
						30	15	BR7536-30-15-400		
						20	20	BR7536-20-20-400		
						20	20	BR7536-20-20-400		



BR5135

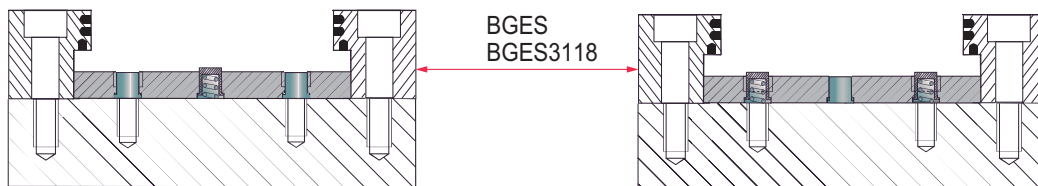


Slip plate with thrust piece
 Placa deslizamiento corredera
 Płytką ślizgowa z zatrzaskiem
 Chapa de deslize com elemento de pressão
 Plaque de frottement chariot



Mat. : 12842 \approx 58 HRC.

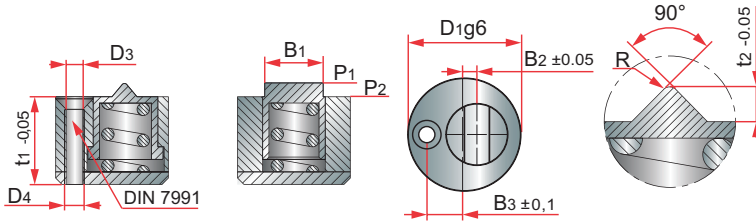
C	C1	C2	C3	C4	C5	d1	d2	R	B	L	H	M	D	REF.
35	22	29	10	35	18	14,5	7,5	7	44	70	9,4	M5	7	BR5135-07
57	32	42	19	37	12	21	11	10	64	100	12,2	M6	10	BR5135-10
61	42	60	25	40	17	30	12	12	84	120	17,9	M8	15	BR5135-15



BR5130

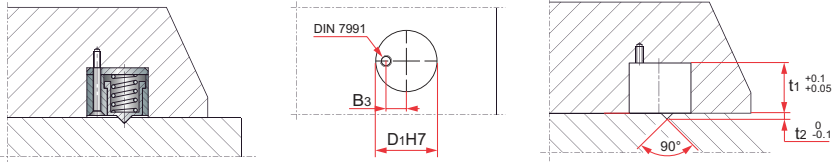


Slide holding devices
 Posicionador
 Zatrask
 Posicionador
 Verrous de tiroirs



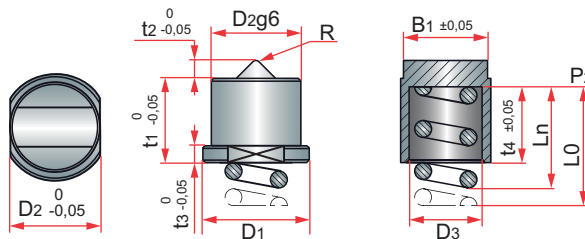
Body mat. : 1.2344. Insert mat. : 1.2379. Hardness: 54 ± 2 HRC. Maximum temperature at work: 100° C.

P1 (N)	P2 (N)	D3	D4	R	t2	B3	B2	B1	t1	D1	REF.
28	34	M2	M3	0,4	1	4,3	1,4	6,6	10	13	BR5130-13
38	42	M3	M4	0,55	1,8	6	2	9,6	14	18	BR5130-18
	92	M4	M5	0,7	2,8	9	3	14,4	21	27	BR5130-27



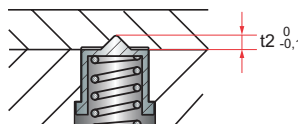
BR5134

Slide holding devices
 Posicionador
 Zatrask
 Posicionador
 Verrous de tiroirs



Mat. : 1.2379. Hardness: 54 ± 2 HRC. Maximum temperature at work: 100° C.

P2 (N)	LO	Ln	R	t4	t3	t2	B1	D3	D1	t1	D2	REF.
34	12	7,5	0,4	6,3	1,4	1	6,6	5,3	8,4	7	7	BR5134- 7
42	16	10	0,55	9	2	1,8	9,6	8,3	12	10	10	BR5134-10
92	18	16	0,7	13,5	3	2,8	14,4	12,4	18	15	15	BR5134-15



BR5140/0-1

E 3048

Slide holding devices

Posicionador

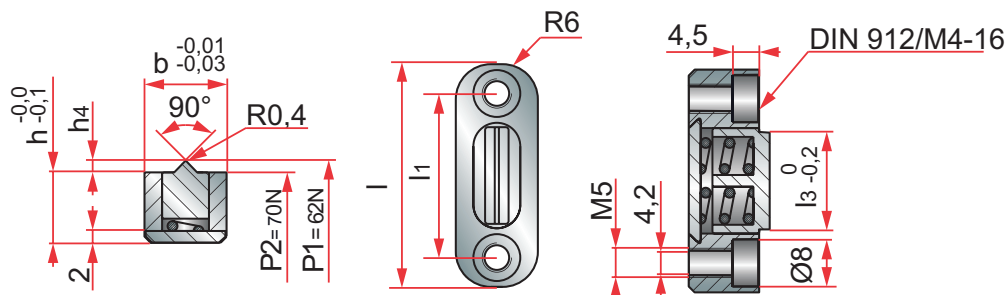
Zatrask

Posicionador

Verrous de tiroirs



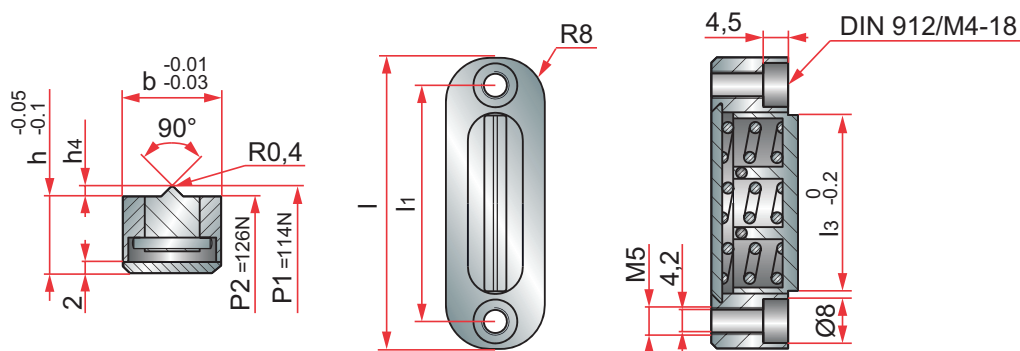
BR5140/0



Body mat. : 1.2344. Insert mat. : 1.2379. Hardness: 54 ± 2 HRC. Maximum temperature at work: 100°C .

l1	l3	h4	h	b	l	REF.
28	16,5	1,8	12	14	38	BR5140-0

BR5140/1



Body mat. : 1.2344. Insert mat. : 1.2379. Hardness: 54 ± 2 HRC. Maximum temperature at work: 100°C .

l1	l3	h4	h	b	l	REF.
43	32	1,8	14	18	53	BR5140-1

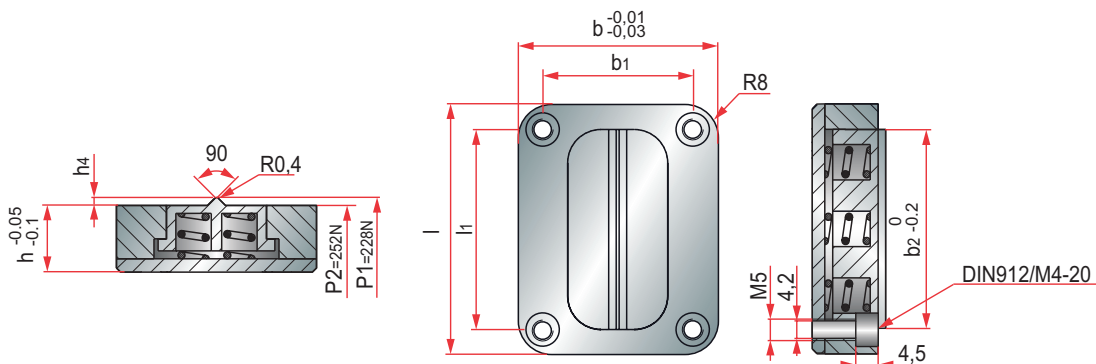
Slide holding devices

Posicionador

Zatrask

Posicionador

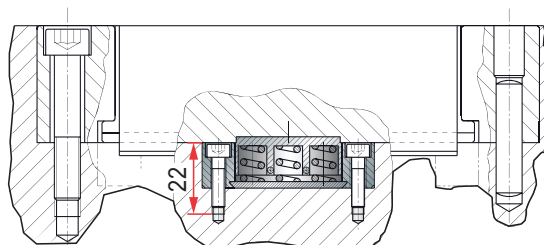
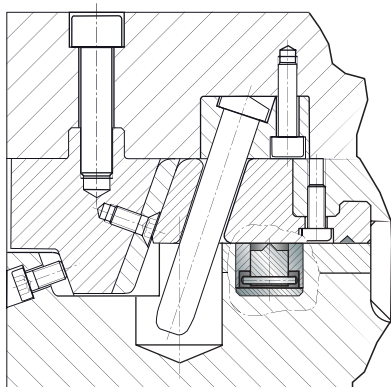
Verrous de tiroirs



7

Body mat. : 1.2344. Insert mat. : 1.2379. Hardness: 54 ± 2 HRC. Maximum temperature at work: 100° C.

l1	b1	b2	h4	h	b	l	REF.
44	36	44	1,8	16	48	56	BR5140-2

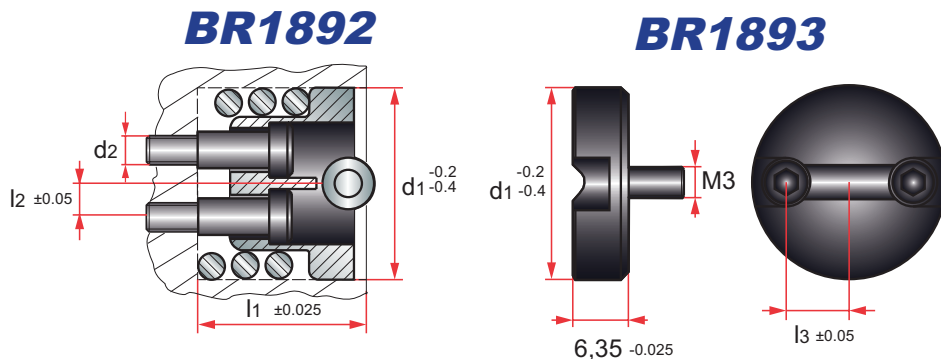


BR1892/BR1893

Z 1892, Z 1893

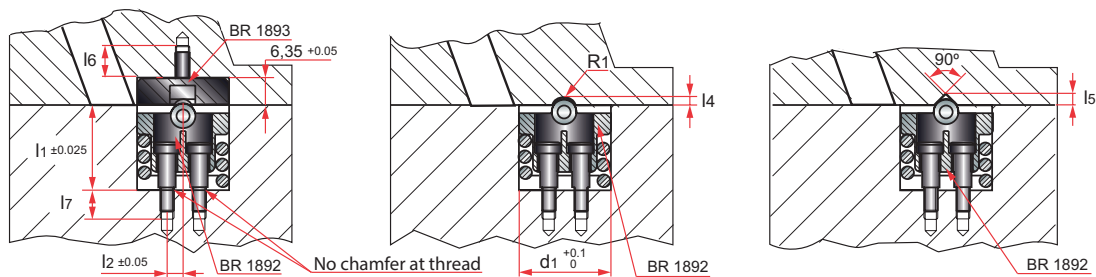


Slide retainer
Retensor de corredera
Rolkowy zatrzask
Retenores de movimientos
Butée de tiroir



Maximum temperature = 200° C.

d2	R1	I7	I6	I5	I4	I3	I2	I1	d1	REF.
M3	2	1,90	-	1	0,23	-	3,95	4,06	16	BR1892-16
M4	3	4,80	-	2	0,75	-	3,80	12,70	19	BR1892-19
		6,20	-					19,05	22	BR1892-22
M3	2	-	6,5	1	0,23	4,85	-	-	16	BR1893-16
								-	19	BR1893-19
								7,60	22	BR1893-22



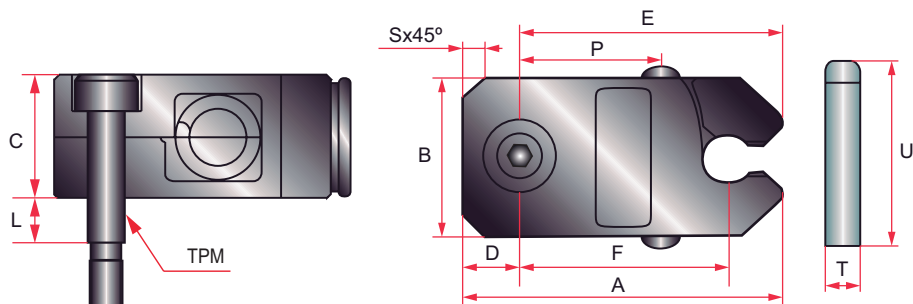
Slide retainers

Retensor de corredera

Zatrząsk suwaka

Retentores de movimientos

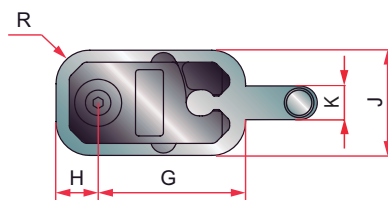
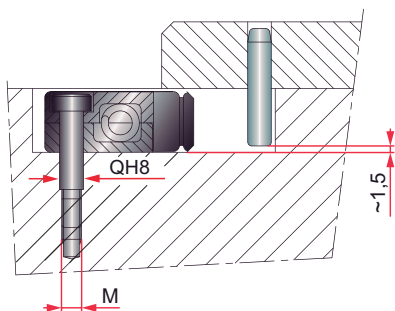
Verrous de tiroirs



Mat.: cast from 8620 steel. Hardness: 58-62 HRC. Maximum temperature at work: 150° C.

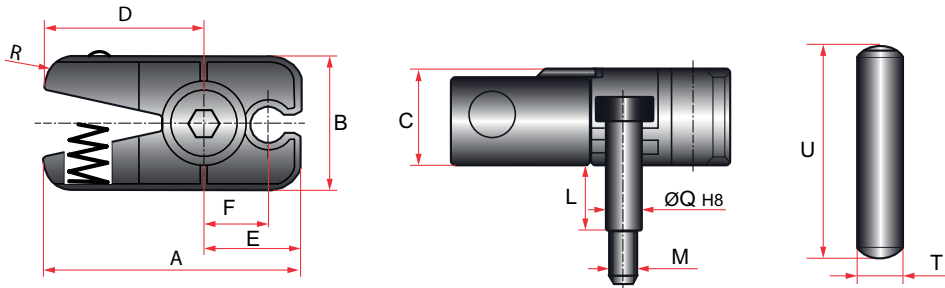
A	B	C	D	E	F	L	P	S	T	U	TPM	REF.
38	19	16	7	31,5	24,89	9	15,5	3,5	6	32	5x20	PPSM-0001
54	32	20	11	43	34,93	11	22,5	6,35	8	40	6x25	PPSM-0002
86	45	30	19	67	53,98	17	40	9,65	10	60	8x40	PPSM-0003

7



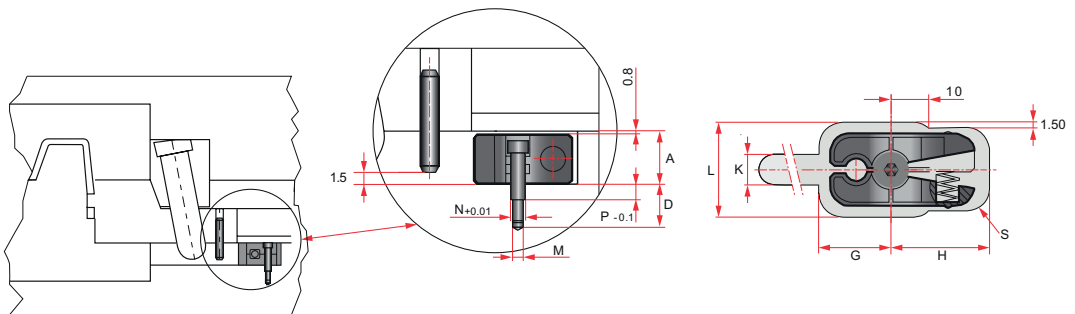
G	H	J	K	R	M	Q	REF.
34,3	9,9	25,4	8	7,5	M5	6	PPSM-0001
45,9	14,2	38	10	9	M6	8	PPSM-0002
69,8	22,3	50,8	12	12,7	M8	10	PPSM-0003

Slide retainers
 Retensor de corredera
 Zatrask suwaka
 Retentores de movimientos
 Verrous de tiroirs



Mat.: cast from 8620 steel. Hardness: 58-62 HRC. Maximum temperature at work: 150° C.

A	B	C	D	E	F	Q	R	M	T	L	U	Max. Slide weight(Kg)	TPM	REF.
38	19	16	22	16	9,15	6	5	M5	6	6	30	10	5x16	MRT-10M
54	32	20	33	21	12,7	8	6	M6	8	8	40	20	6x20	MRT-20M
86	45	30	53	33	20,3	10	10	M8	10	10	60	40	8x30	MRT-40M

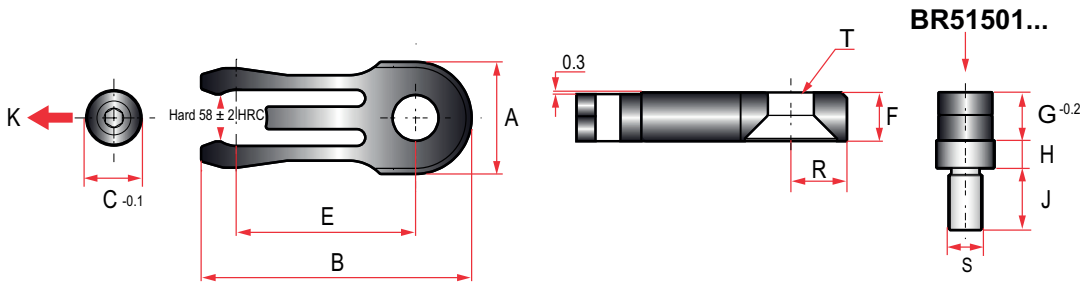


L	K	G	H	S	A	P	D	N	M	REF.
25	8	19	26	8	17	6	15,5	6	M5	MRT-10M
38	10	24	36	10	21	8,1	20,5	8	M6	MRT-20M
51	12	36	56	13	31	10	25	10	M8	MRT-40M

BR5150



Slide retainers
 Retensor de corredera
 Zatrask suwaka
 Retenores de movimientos
 Verrous de tiroirs

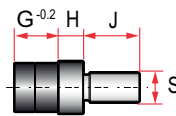


Mat. 1.8159 Hardness 45±3

K = Force to release the retainer
 K = Fuerza de desenganche del retensor.

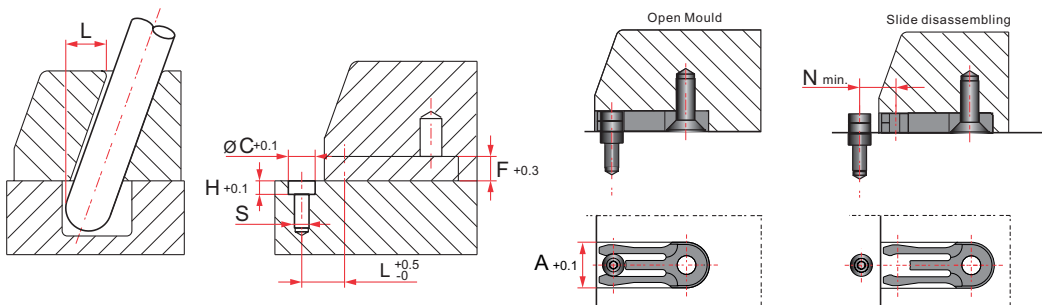
A	B	C	E	F	G	H	J	N	R	S	T	K	REF.
16	38	8	25	7,6	7,6	4	10	7	8	M5	M6	100 N	BR5150-16-38
20	48	10	32	8,7	8,6	5	11	8	10	M6	M8	140 N	BR5150-20-48
24	57	12	37,5	9,6	9,6	6	12	9	12	M8	M10	180 N	BR5150-24-57

7



Spare part / Recambio

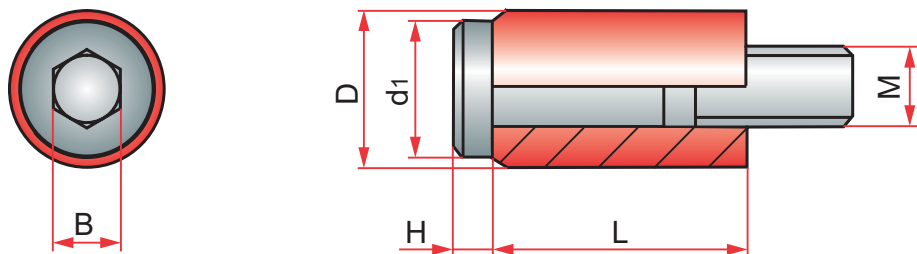
C	G	H	J	S	REF.
8	7,6	4	10	M5	BR51501- 8
10	8,6	5	11	M6	BR51501-10
12	9,6	6	12	M8	BR51501-12



BR314

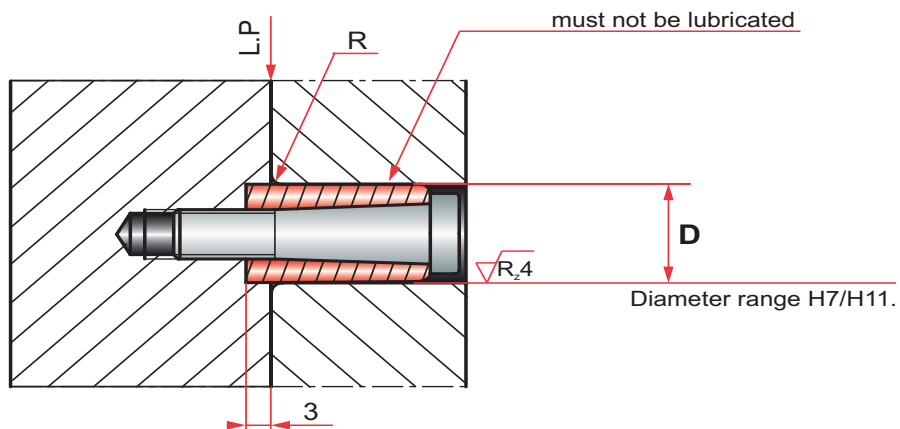


Frictional puller
 Tiradores por expansión
 Ściągacz cierny
 Extrator de atrito
 Extracteur de frottement



High Strength alloy Steel / Nylon resin. Maximum temperature at work: 80° C.

B	H	M	d1	D	L	REF.
4	3	M5	8,5	10	18	BR314-10
5	3,5	M6	11	12	20	BR314-12
				13		BR314-13
6	4	M8	14	16	25	BR314-16
8	5	M10	16	20	30	BR314-20



BR1031



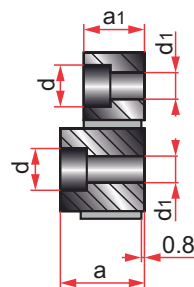
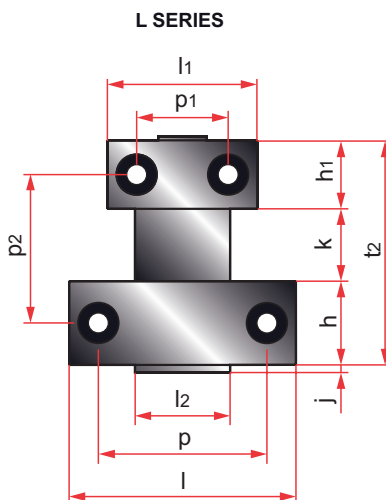
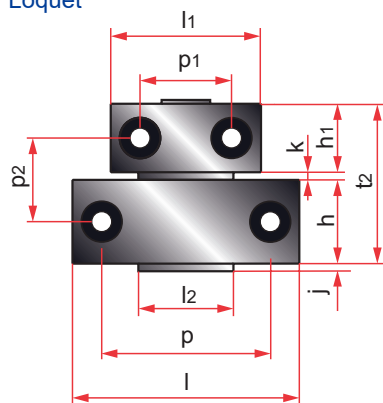
Latch locking unit

Tirante

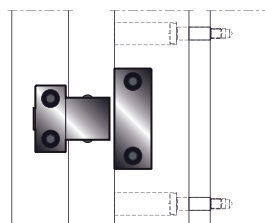
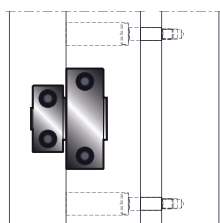
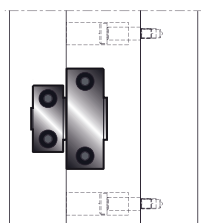
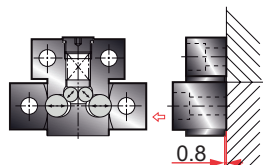
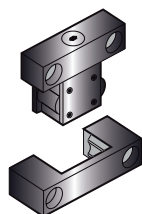
Mechanizm dwustopniowego otwarcia

Trinco

Loquet



Max. (N)	d1	d	a1	a	p2	p1	p	k	j	h1	h	t2	l2	l1	l	REF.
981	6,5	11	16	24	22	24	36	2	2	18	22	42	25	36	48	BR1031/ 10
1961					28	40	42							54	BR1031/ 20	
2942					19	27	26							31	50	3,5
5884	9	14	19	27	33	52	34,5	11,5	42,5	20	25	48,5	35	50	73	BR1031/ 60
7845					57	79,5								BR1031/ 60L		
					34	56,5								BR1031/ 80		
9807	11	17	25	34	31	42	76	4	4	24	30	58	48	65	103	BR1031/100
					62	89	BR1031/100L									



<

<< <<

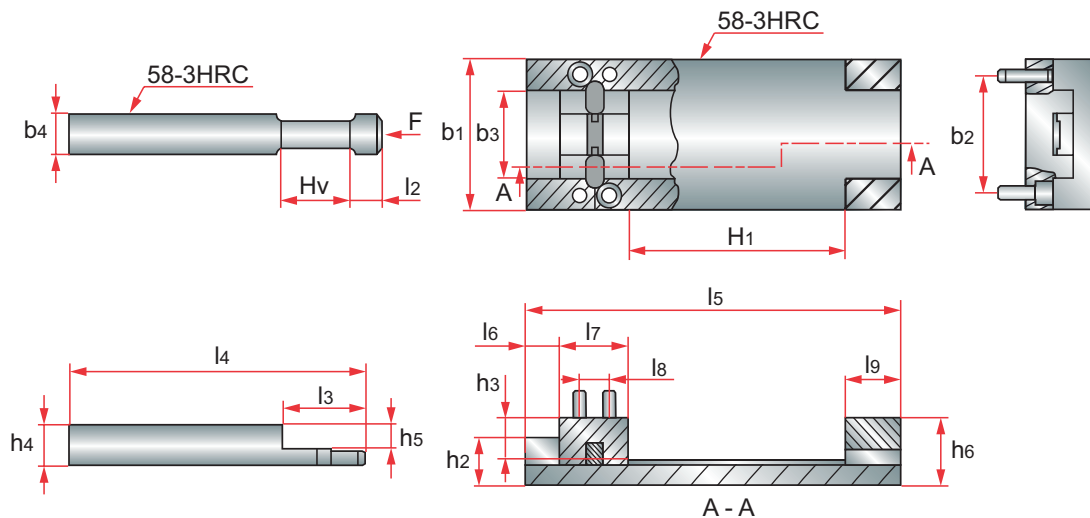
Latch locking unit

Tirante

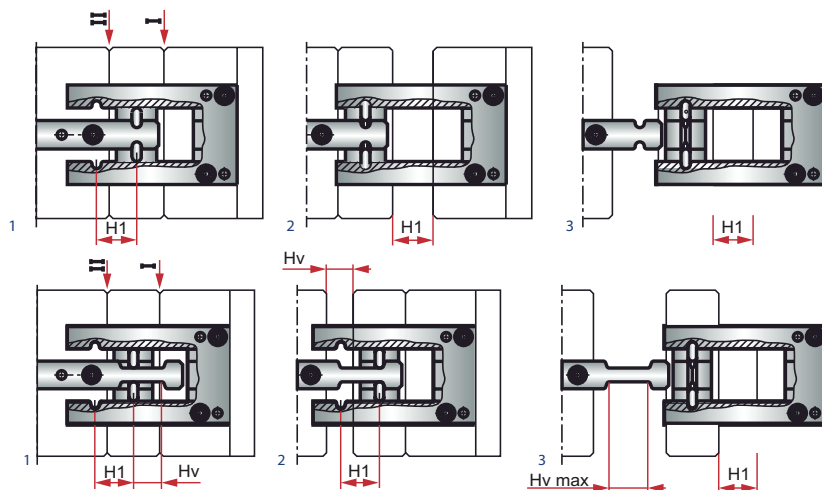
Mechanizm dwustopniowego otwarcia

Trinco

Loquet



F(N)	h6	h5	h4	h3	h2	b4	b3	b2	l9	l8	l7	l6	l5	l4	l3	l2	b1	H1		Hv	REF.
																		Min.	Max.		
16000	22,3	10	16	9,3	16	15	30,05	40	20	10	20	10	140	140	20	9,75	50	4	90	0	BR174-050x90x 0
																					20
27000	30,3	13	21	12,3	22	20	45,05	60	34	16	34	15	200	200	34	16,75	80	5,50	117	0	BR174-80x117x 0
																					32
48000	37,5	16	27	15,5	27	25	60,05	80	45	22	45	250	250	45	22,25	100	7	145	0	BR174-100x145x0	
																				50	BR174-100x145x50



BR531/532

Z 5-31, Z 5-32



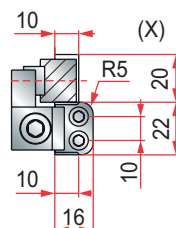
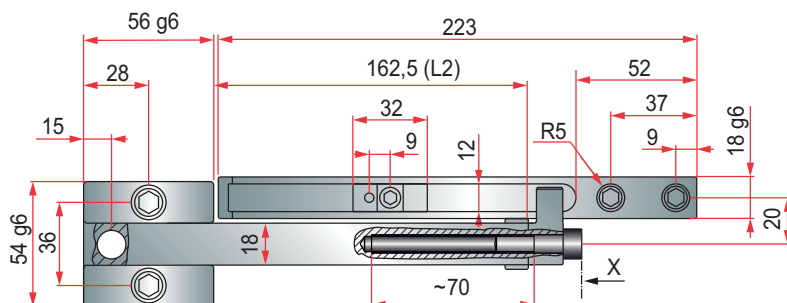
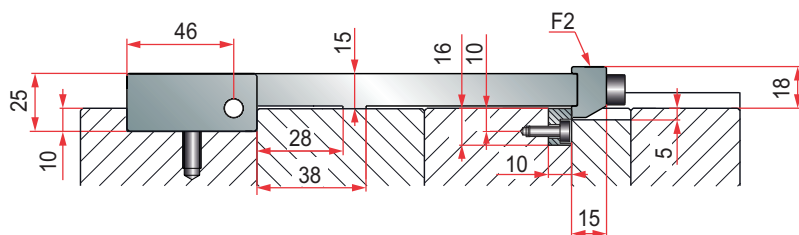
Latch locks

Mecanismo de doble apertura

Mechanizm dwustopniowego otwarcia

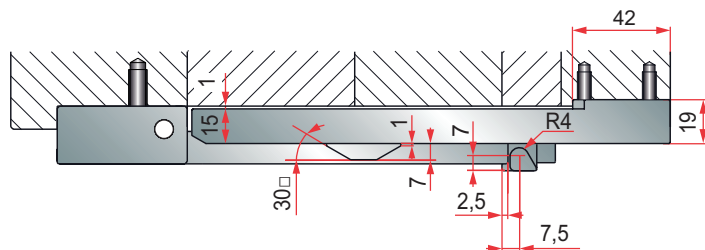
Mecanismo de abertura dupla

Mécanisme à double ouverture

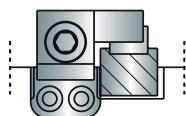


L2 = 110,5	F2 = ~ 48 N
L2 = 162,5	F2 = ~ 30 N

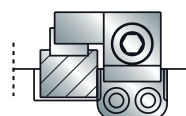
max. 180°C



* Set includes right and left
* Incluido derecha e izquierda



PEDIDO/ORDER: REF. BR531

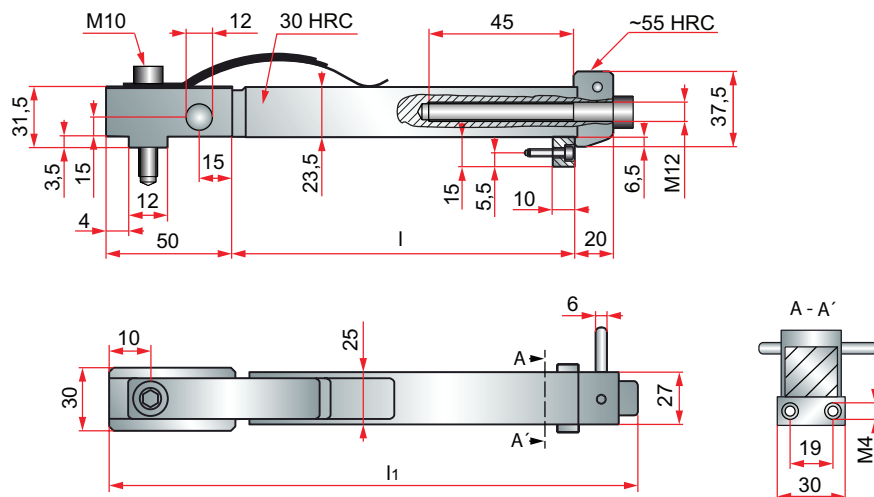


PEDIDO/ORDER: REF. BR532

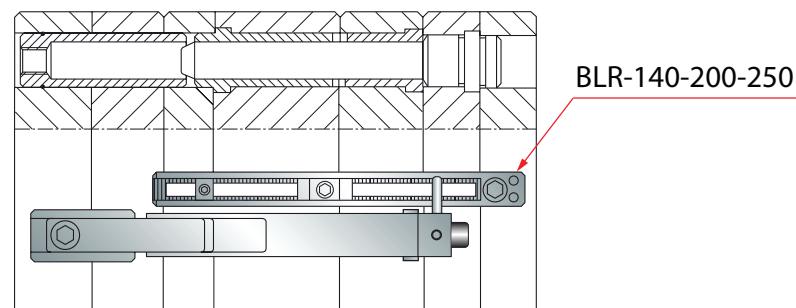
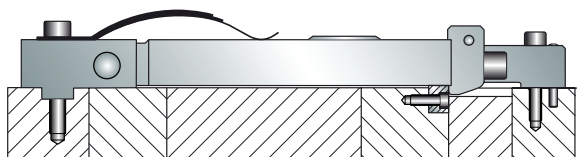
7

TEN 070

Elevation bar
 Tirantes de enclavamiento de placas
 Mechanizm dwustopniowego otwarcia
 Barra de trinco
 Barre de levée

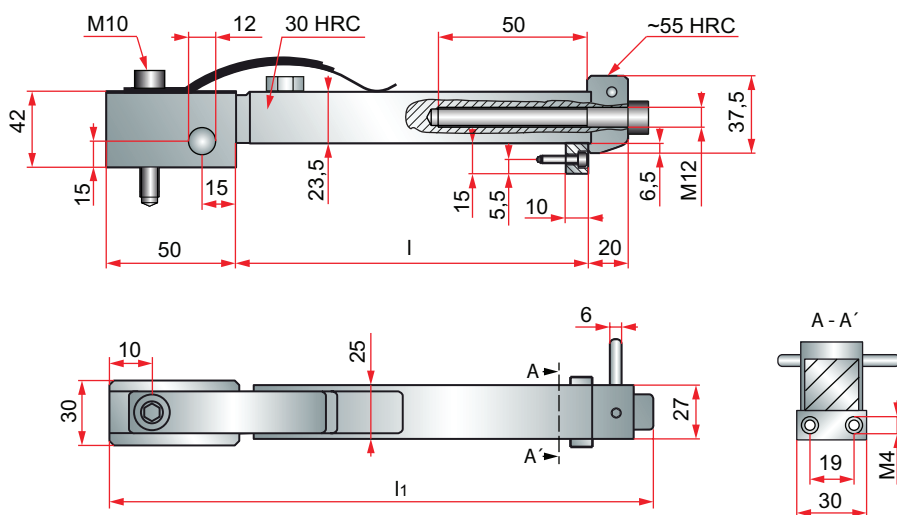


l_1	l	REF.
152	70	TEN-070

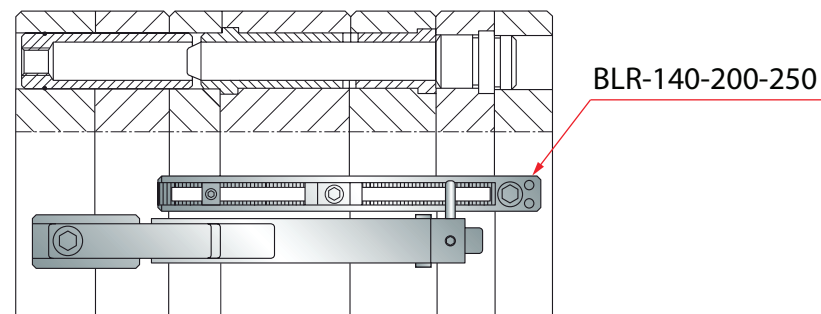
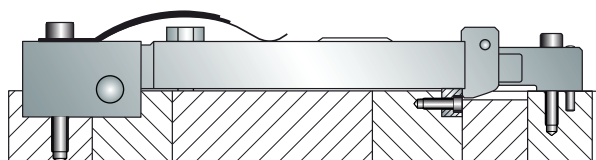


TEN 090/170/220/270

Elevation bar
 Tirantes de enclavamiento de placas
 Mechanism dwustopniowego otwarcia
 Barra de trinco
 Barre de levée

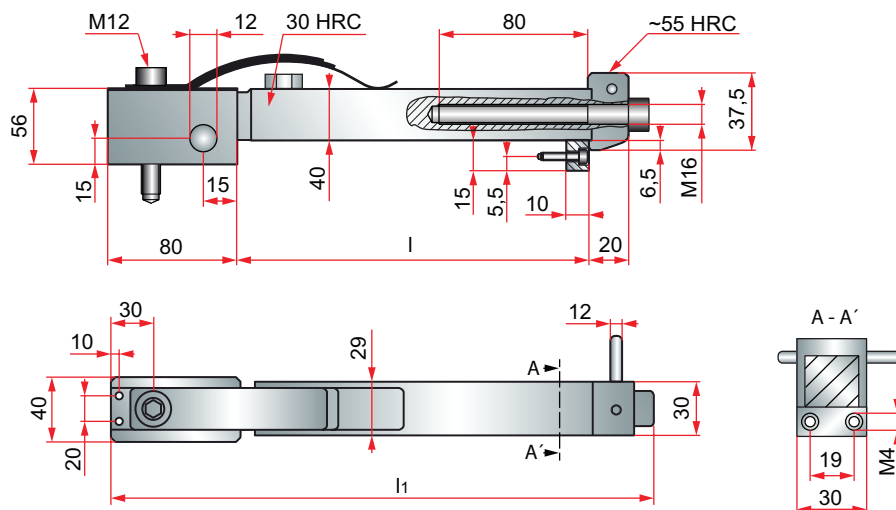


l1	l	REF.
172	90	TEN-090
252	170	TEN-170
302	220	TEN-220
352	270	TEN-270

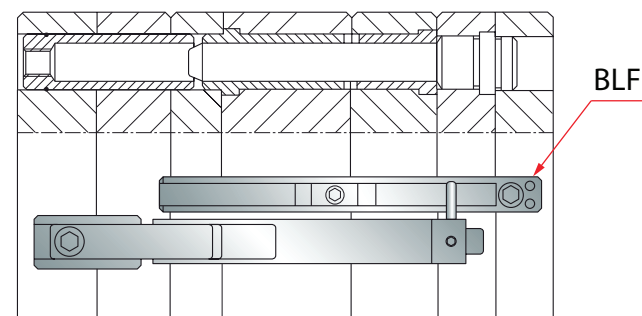
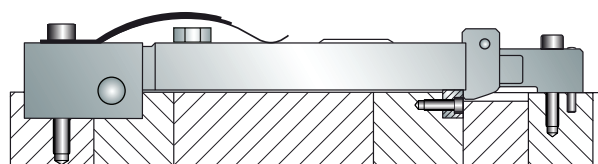


TEN 256

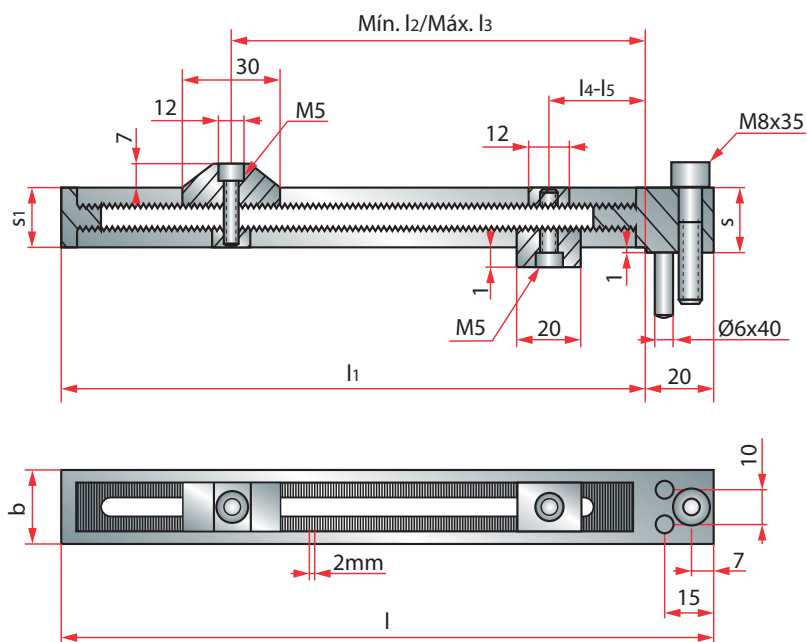
Elevation bar
 Tirantes de enclavamiento de placas
 Mechanism dwustopniowego otwarcia
 Barra de trinco
 Barre de levée



l_1	l	REF.
379	256	TEN-256

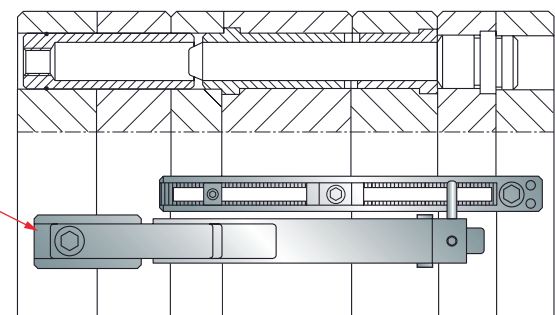


Adjustable base bar
 Barra de liberación regulable
 Listwa uwalniająca regulowana
 Barra de base regulavel
 Barre d'appui réglable

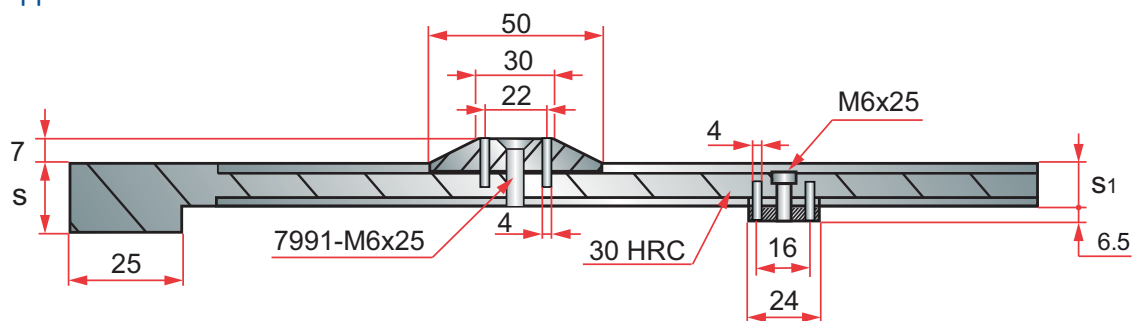


l_1	l_2	l_3	l_4	l_5	s_1	s	b	l	REF.
120	20	100	20	104	19	20	21,5	140	BLR-140
184		164		168				204	BLR-200
234		214		218				254	BLR-250

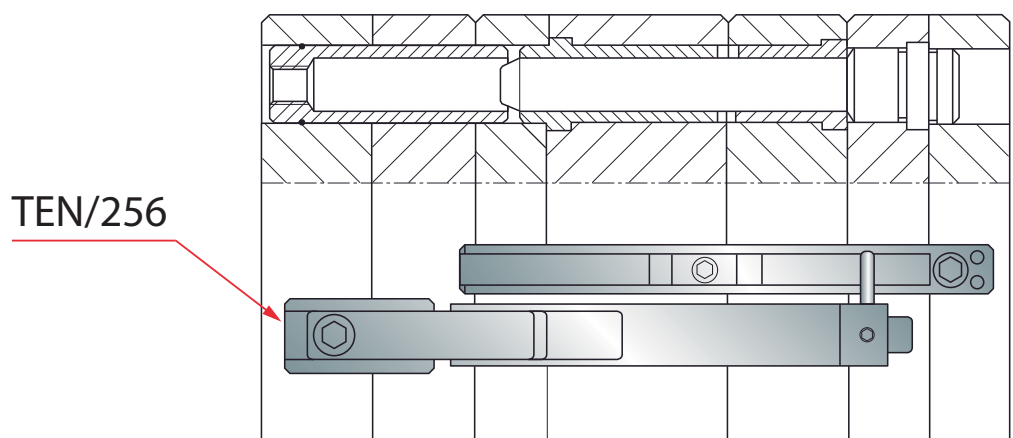
TEN 70/90/170/220/270



Fixed base bar
 Barra de liberación fija
 Listwa stała
 Barra de base fija
 Barre d'appui fixe

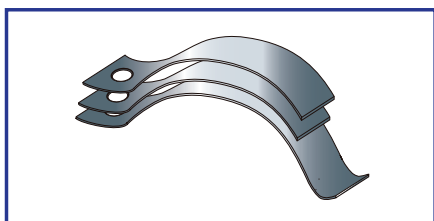


s1	s	b	L	REF.
29	30	20	396	BLF

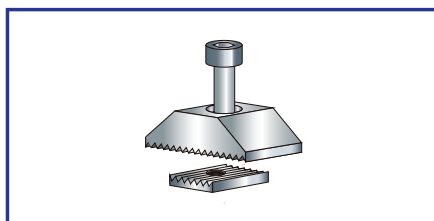


SPARE PARTS TEN/BLR

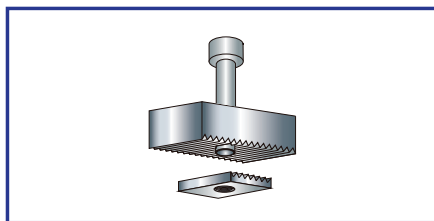
Spare parts TEN/BLR
 Recambios TEN/BLR
 Części zamienne TEN/BLR
 Parties TEN/BLR
 Éléments pour système d'ouverture TEN/BLR



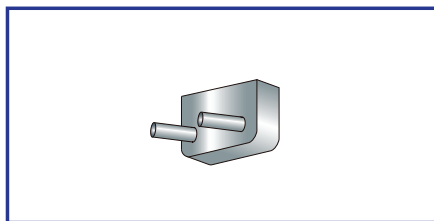
Ref. : MEP



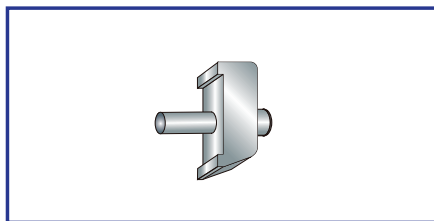
Ref. : LER



Ref. : TOR



Ref. : UEP



Ref. : CEP

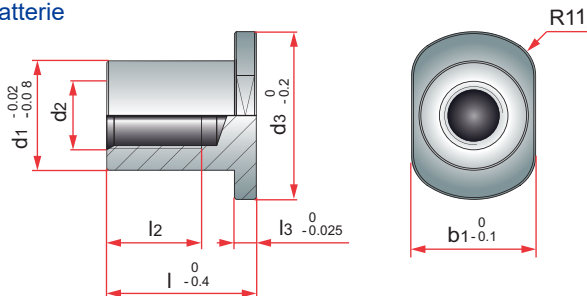
Threaded insert for ejector set

Inserto roscado para paquete de expulsión

Wkładka gwintowana do zestawu płyt wypychaczy

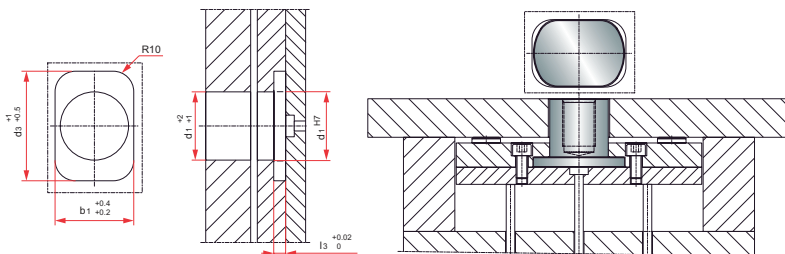
Adapatador K. O. com faces

Insert fileté pour attelage batterie

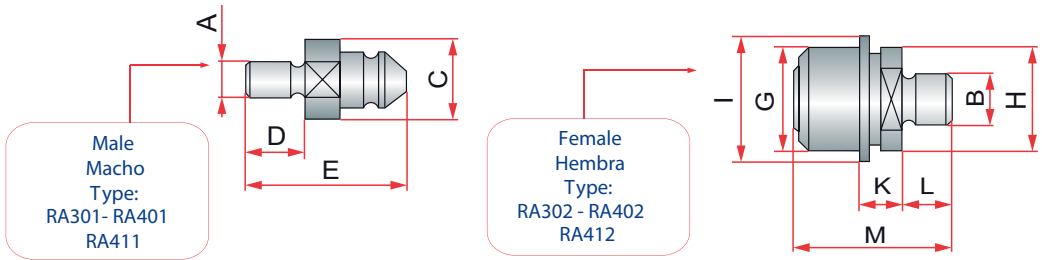


Hardness: aprox. 190 Hb.

b1	d1	d3	l2	l3	d2	l	REF.
34	30	46	24	6	M12	42	BR1515-12x42
						47	BR1515-12x47
						52	BR1515-12x52
						61	BR1515-12x61
					M16	42	BR1515-16x42
						47	BR1515-16x47
						52	BR1515-16x52
						61	BR1515-16x61
						66	BR1515-16x66
						71	BR1515-16x71
						76	BR1515-16x76
						85	BR1515-16x85
46	40	56	28	6	M20	42	BR1515-20x42
						47	BR1515-20x47
						52	BR1515-20x52
						61	BR1515-20x61
						66	BR1515-20x66
						71	BR1515-20x71
						76	BR1515-20x76
						85	BR1515-20x85
						95	BR1515-20x95



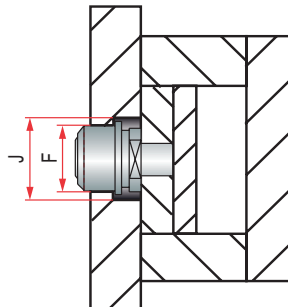
Bushed ejector rod
 Recuperación adelantada
 Sprzęgło
 Adaptador de extacção
 Attelage d'ejection



Hardness: 54 ± 2 HRC.

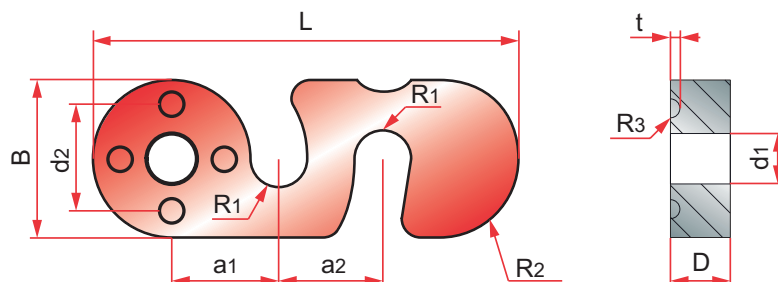
A	C	D	E	Strength (Kg)	REF.
M10x150	22,8	20	45,5	1500	RA301/M10X150
M10x150	25,8		55	2400	RA401/M10X150
M12x175					RA401/M12X175
M14x200	35	25	68	3200	RA401/M14X200
M16x200					RA411/M16X200
M20x250					RA411/M20X250

B	F	H	J	K	L	M	I	G	Strength (Kg)	REF.
M16X150	34	32	43	9	15	42,5	39	32	1500	RA302/M16X150
M16X150	40	38	53	13	15	52	48	38	2400	RA402/M16X150
M16X150	58	52	70	17	18	68	65	56	3200	RA412/M16X150
M20X150										RA412/M20X150
M24X150										RA412/M24X150

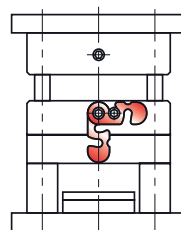
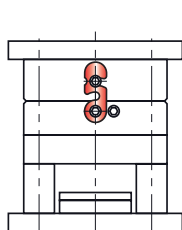


BR6040

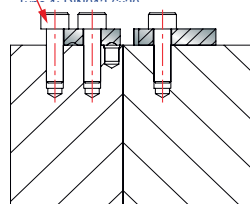
Safety hooks
 Gatillo de seguridad
 Zabezpieczenie formy
 Trinco
 Crochet de securite



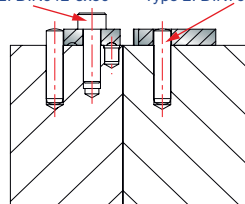
F (kN)	T	R3	R2	R1	a2	a1	d2	d1	D	B	L	REF.
9,8	1	2	10	3,3	11,75	13,25	14	6,5	6	20	54	BR6040/1
17,6	2	2,5	15	5	20	20	20	9	10	30	80	BR6040/2



Type 1: DIN912-6x20
 Type 2: DIN912-8x30



Type 1: DIN912-6x20
 Type 2: DIN912-8x30
 Type 1: DIN7979-6x28
 Type 2: DIN7979-8x40



- These safety hooks devices prevent the injection mould being opened by accident during the transportation, installation or removal.
- All the safety precautions stipulated can be guaranteed for.
- Simple construction and diverse applications.
- No searching for hooks and screws as these safety hooks always remain on the mould.

ATTENTION!

The hooks should be turned to the inoperative position before opening the injection mould in the injection moulding machine.

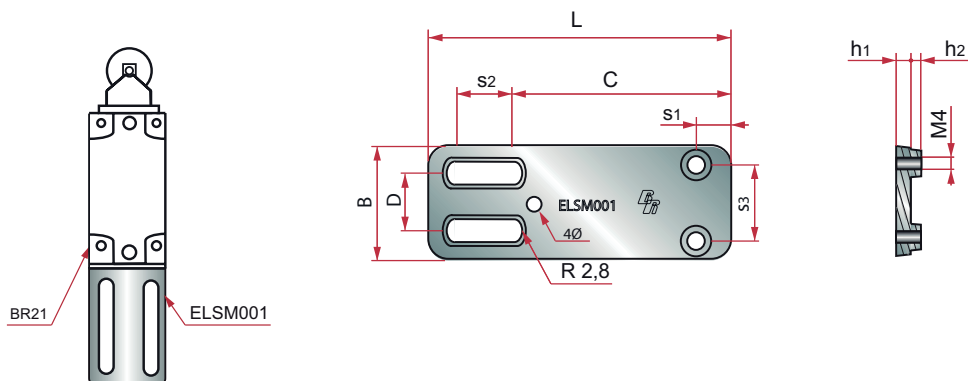
- Este gatillo de seguridad previene que el molde se abra por accidente durante el transporte, instalación o bien durante el desmontaje de la máquina de inyección.
- Todas las condiciones de seguridad están garantizadas.
- Fácil montaje y con diferentes posibilidades.
- Evita sistemas complejos de seguridad ya que este permanece siempre instalado en el molde.

¡ATENCIÓN!

El gatillo debe ser girado a la posición inoperativa antes de abrir el molde en la máquina de inyección.

ELSM001

Clamp for Telemecanique micros
 Soporte para Microcontactores
 Mocowanie wyłącznika krańcowego Telemecanique
 Suporte para micros
 Plaque de fixation pour interrupteurs xcmd

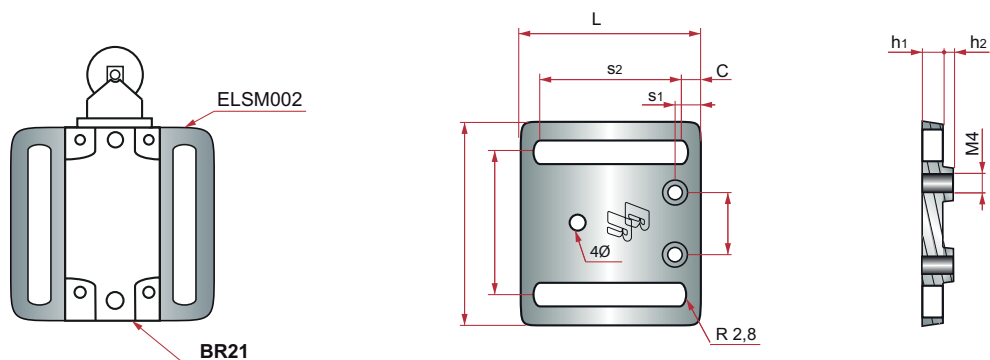


Mat. : Zamak.

B	L	C	D	S1	S2	S3	h1	h2	REF.
31,5	83,5	58	15,6	9	14	20	4	3	ELSM001

ELSM002

Clamp for Telemecanique micros
 Soporte para Microcontactores
 Mocowanie wyłącznika krańcowego Telemecanique
 Suporte para micros
 Plaque de fixation pour interrupteurs xcmd



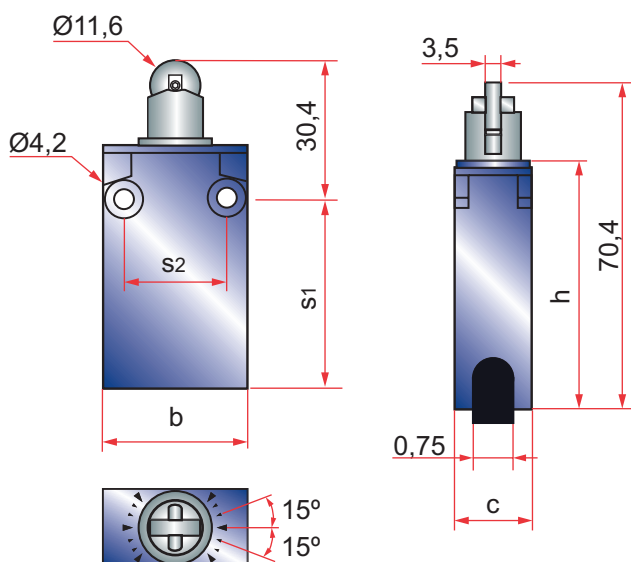
Mat. : Zamak.

B	L	C	D	s1	s2	s3	h1	h2	REF.
56,5	51	8	43,6	9	32	20	4	3	ELSM002

BR21

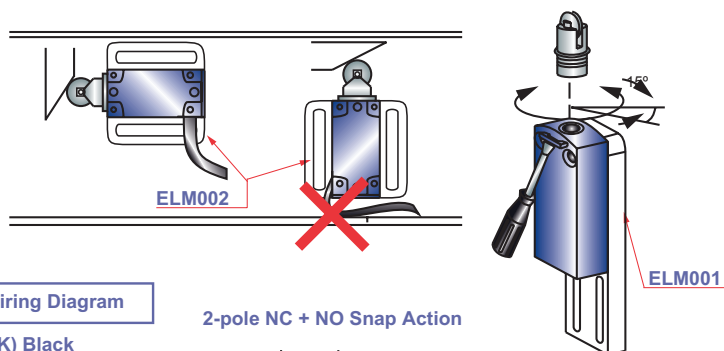


Micro
Microcontactor
Wyłącznik krańcowy Telemecanique
Micro
Micro-compteur



Operating temperature: -25° to 70° C. Operates in all positions. Maximum power: 6A.

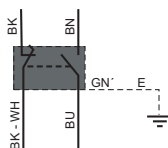
b	c	h	s1	s2	REF.
30	16	50	40	$20 \pm 0,1$	BR21



Wiring Diagram

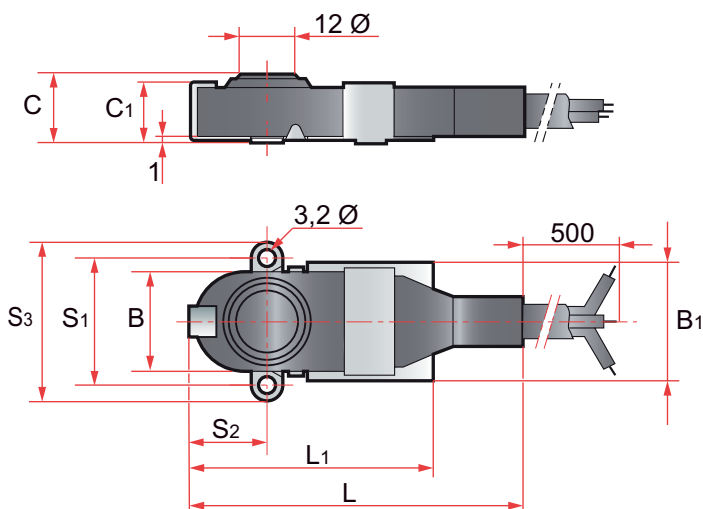
(BK) Black
(BKWH) Black White
(BU) Blue
(BN) Brown
(GNYE) Green Yellow

2-pole NC + NO Snap Action



BR22

Micro
Microcontactor
Wyłącznik krańcowy
Micro
Micro-compteur



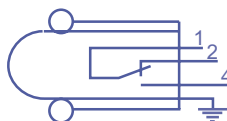
IP 66 / Casing: Nitrile / Contacts: Silver / Contact holder: Polyamide / Mounting plate: Zinc

B	B ₁	C	C ₁	L	L ₁	S ₁	S ₂	S ₃	REF.
20	24	12,3	10,3	71	49	26	16	32	BR22

Maximum operating force (N)	7.5
Min. Release force (N)	1.5
Maximum total travel force (N)	8
Max. permitted overtravel force (N)	30
Tripping point (mm)	11.4±0.4
Maximum differential travel (mm)	0.2
Min. overtravel (mm)	0.25
Ambient operating temperature (°C)	0 →
Mechanical life (operations)	2 x 10 ⁶
Contact gap (mm)	0.5
Weight (g)	45

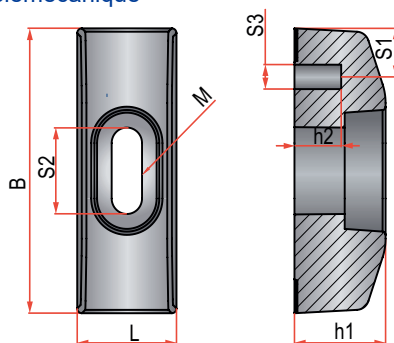
Common (1) : black
Normally closed (2) : brown
Normally open (4) : grey

Double break changeover switch



BR012501-1

Jum for telemecanique micros
 Rampa para microcontactores
 Rampy wyłącznika krańcowego telemecanique
 Rampa para micros
 Came de contrôle

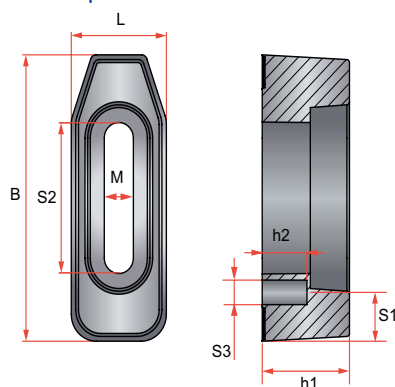


Mat. : Zamak

B	L	M	S ₁	S ₂	S ₃	h ₁	h ₂	REF.
47,8	17	5	8,15	14	4	15,6	8	BR012501-1

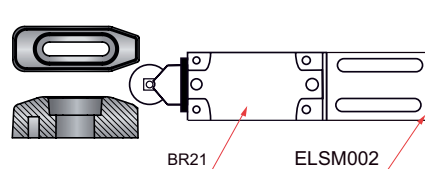
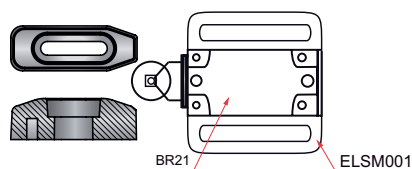
BR012501-2

Jum for telemecanique micros
 Rampa para microcontactores
 Rampy wyłącznika krańcowego telemecanique
 Rampa para micros
 Came de contrôle



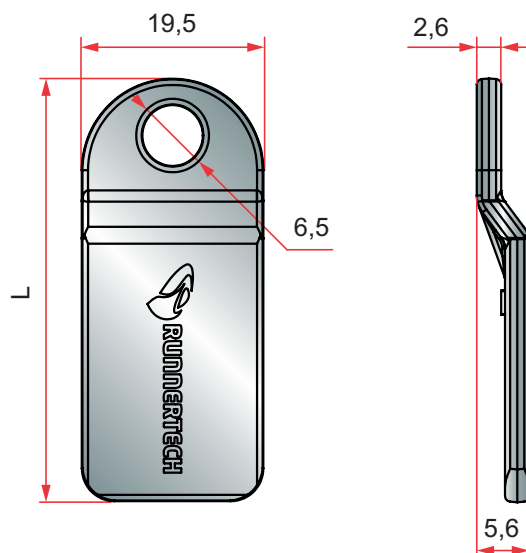
Mat. : Zamak.

B	L	M	S ₁	S ₂	S ₃	h ₁	h ₂	REF.
47,8	17	5	8,10	25	4	15,6	8	BR012501-2



BR55132

Wire slot clip
 Clip de sujeción cable
 Uchwyt montażowy
 Presilha de cabo
 Maintien de cable

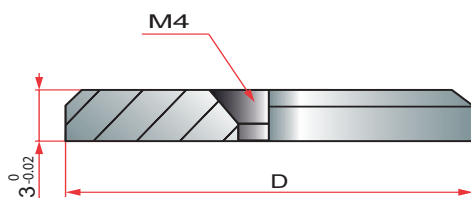


7

Mat. : Zamak.

L	REF.
30	BR55132/30
45	BR55132/45
60	BR55132/60

Stop pin
 Topes placa
 Podkładka oporowa
 Botão de encosto
 Butee de course d'ejection



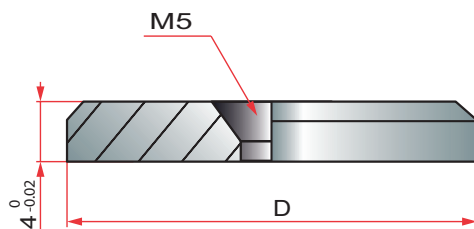
Hardness: 54 ± 2 HRC.

D	REF.
18	TPS / 18
28	TPS / 28

TPS 1730

E 1500, Z 55

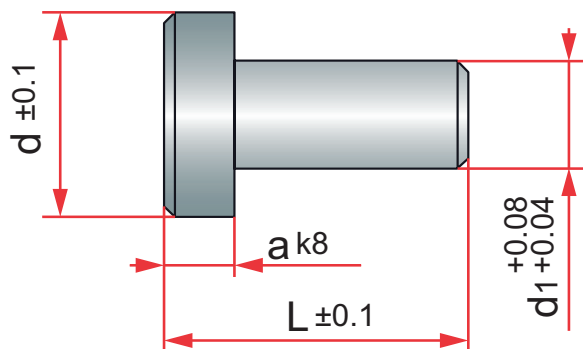
Stop pin
 Topes placa
 Podkładka oporowa
 Botão de encosto
 Butee de course d'ejection



Mat. 1.1730

D	REF.
20	TPS 1730 / 20
30	TPS 1730 / 30

Stop pin
 Topes placa
 Kołek dystansowy
 Botão de encosto
 Butee de course d'ejection



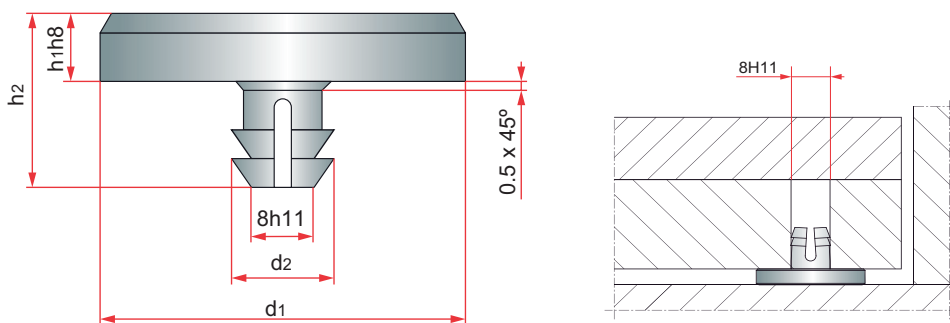
Hardness: 54 ± 2 HRC.

d1	a	L	d	REF.
8	4,5	20	15	TP/ 15
10	5	15	20	TP/ 20

TP551

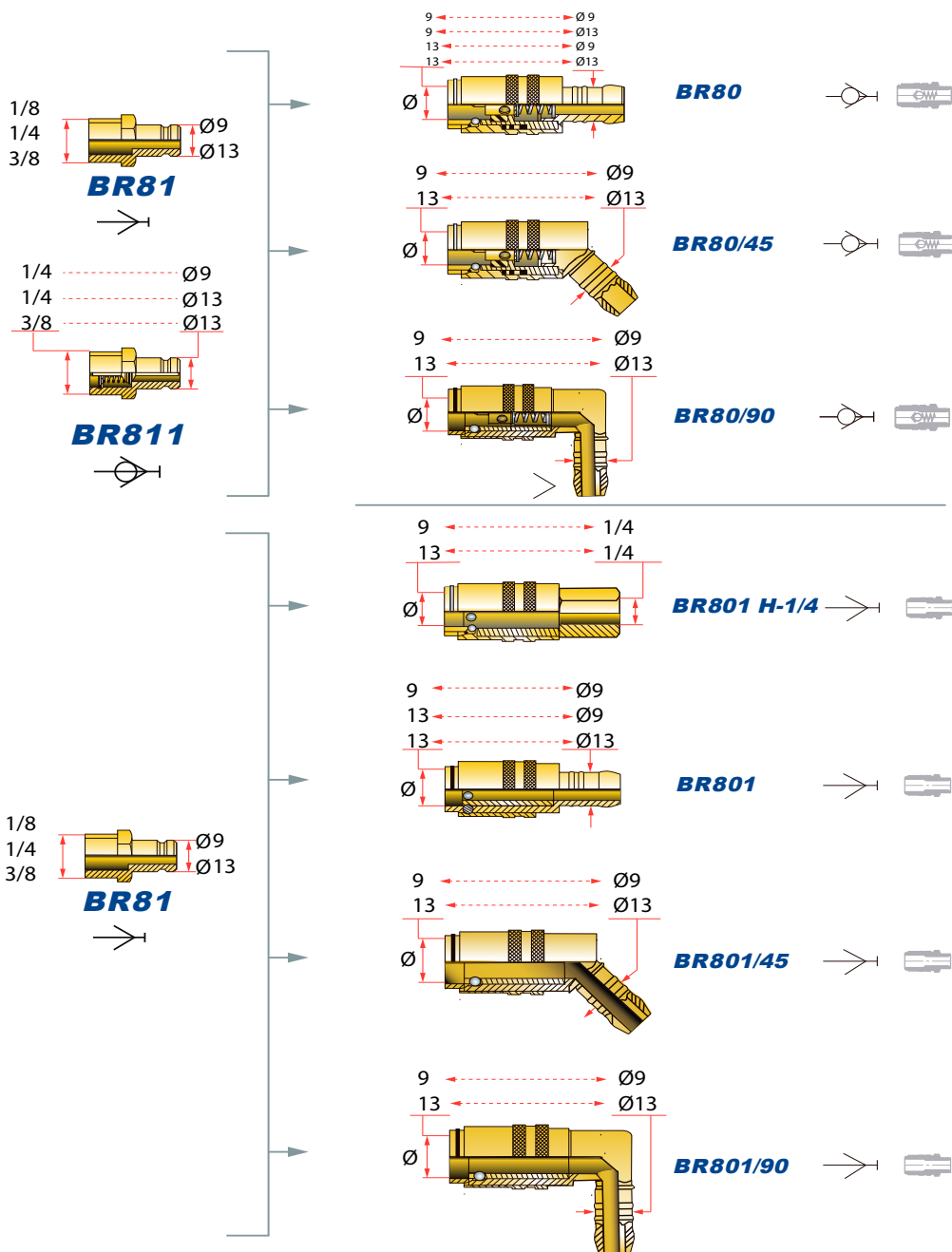
E 1505, Z 551

Stop pin
 Topes placa
 Kołek dystansowy
 Botão de encosto
 Butee de course d'ejection



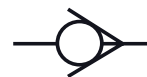
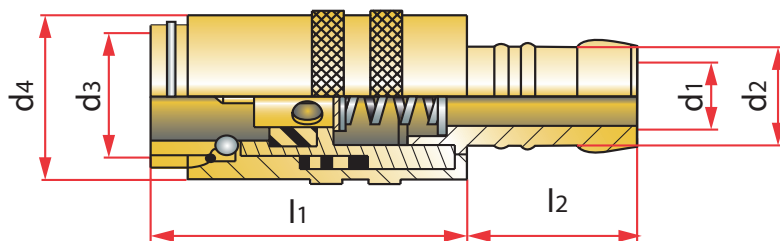
Hardness: 54 ± 2 HRC

d2	h1	d1	h2	REF.
8,2	3	16	11	TP551/ 16
		25		TP551/ 25



Compatible EU

Couplin with valve
 Enchufe rápido con válvula
 Szybkozłącze z zaworem
 Acoplador rapido com valvula
 Raccord avec vanne d'arrêt



Mat. : Brass / Latón / Mosiądz / Latão.

I1	I2	d4	d1	d3	d2	REF.
31	22	17	6	9	9	BR80/09/09
			9		13	BR80/09/13
37	25	23	6	13	9	BR80/13/09
			9		13	BR80/13/13

BR80/45°

Z 80



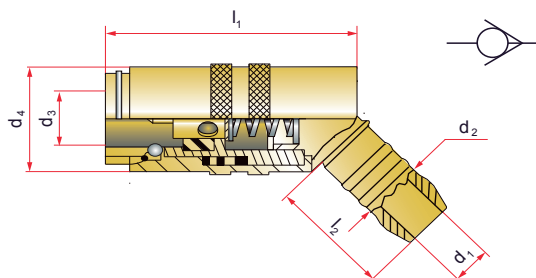
Coupling with valve 45°

Cierre rápido con válvula de cierre ángulo 45°

Szybkozłącze z zaworem 45°

Acoplador rapido com valvula 45°

Raccord avec vanne d'arrêt 45°



Mat. : Brass / Latón / Mosaźdz / Latão.

I1	I2	d4	d1	d3	d2	REF.
41	28	17	6	9	9	BR80/09/45
51		22	9	13	13	BR80/13/45

BR80/90°

Z 80

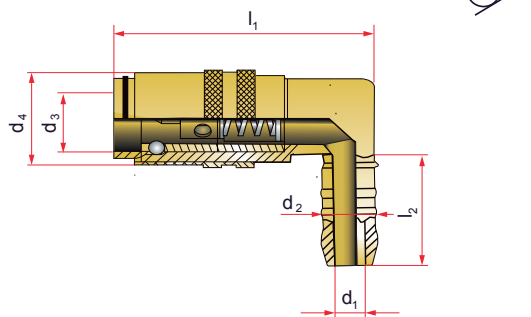
Coupling with valve 90°

Cierre rápido con válvula de cierre ángulo 90°

Szybkozłącze z zaworem 90°

Acoplador rapido com valvula 90°

Raccord avec vanne d'arrêt 90°



Mat. : Brass / Latón / Mosaźdz / Latão.

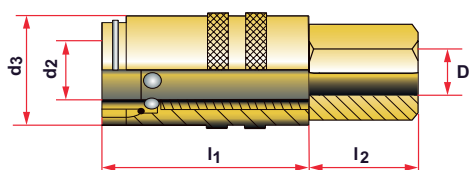
I1	I2	d4	d1	d3	d2	REF.
41	24	17	6	9	9	BR80/09/90
51	28	22	9	13	13	BR80/13/90

BR801 H1/4

Z 80



Coupling open flow
 Acoplamiento rápido paso libre
 Szybkozłącze z zaworem
 Acoplador rápido
 Raccord avec passage libre



Mat. : Brass / Latón / Mosiądz / Latão.

l1	l2	d3	D	d2	REF.
31	20	17	1/4	9	BR801/09/H1/4
37		23		13	BR801/13/H1/4

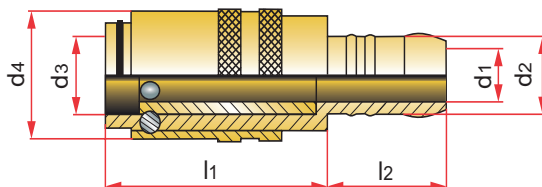
BR801

Z 80

Coupling, open flow
 Enchufe rápido
 Szybkozłącze bez zaworu
 Acoplador rápido
 Raccord avec passage libre



8



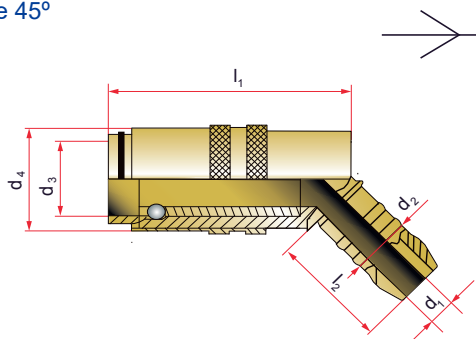
Mat. : Brass / Latón / Mosiądz / Latão.

l1	l2	d4	d1	d3	d2	REF.
31	22	17	6	9	9	BR801/ 9/ 9
37	25	23		9		13
					13	BR801/ 13/13

BR801/45°

Z 80

Coupling open flow 45°
 Acoplamiento rápido paso libre. Angulo de 45°
 Szybkozłącze z zaworem 45°
 Acoplador rapido 45°
 Raccord avec passage libre 45°



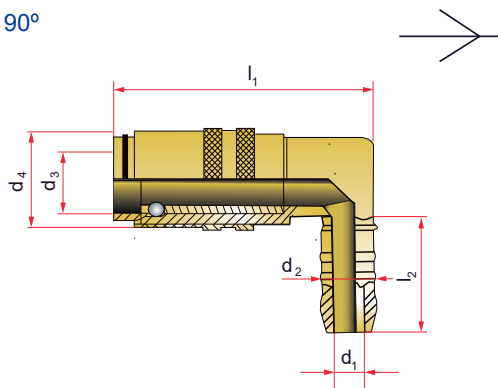
Mat. : Brass / Latón / Mosiądz / Latão.

I1	I2	d4	d1	d3	d1	REF.
41	28	17	6	9	9	BR801-09-45
51		22	9	13	13	BR801-13-45

BR801/90°

Z 80

Coupling open flow 90°
 Acoplamiento rápido paso libre, Angulo de 90°
 Szybkozłącze z zaworem 90°
 Acoplador rapido 90°
 Raccord avec passage libre 90°



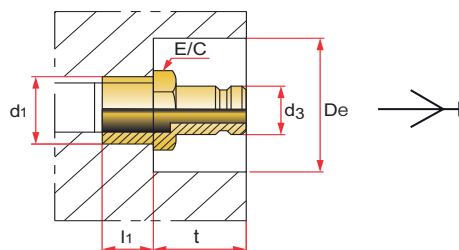
Mat. : Brass / Latón / Mosiądz / Latão.

I1	I2	d4	d1	d3	d1	REF.
41	24	17	6	9	9	BR801-09-90
51	28	22	9	13	13	BR801-13-90

BR81

Z 81

Nipple, open flow
 Conector sin válvula
 Końcówka szybkozłączna
 Racord rapido sem valvula
 Nipple avec passage libre



Mat. : Brass / Latón / Mosaźdz / Latão.

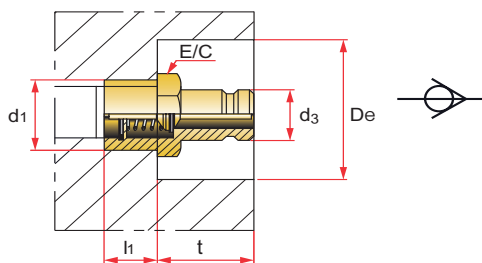
De	E/C	t	l1	d3	d1	REF.
19	11	18	7	9	G1/8"	BR81-09-G1/8
22	15		9		G1/4"	BR81-09-G1/4
25	17	18	9	13	G1/4"	BR81-13-G1/4
					G3/8"	BR81-13-G3/8
19	11	18	7	9	M-10x1.00	BR81- 9-M-10
22	15		9		M-14x1.50	BR81- 9-M-14
25	17	18	9	13	M-10x1.00	BR81-13-M-10
					M-14x1.50	BR81-13-M-14
					M-16x1.50	BR81-13-M-16

BR811

Z 811

8

Nipple with valve
 Conector con válvula
 Końcówka szybkozłączna
 Racord rapido com valvula
 Nipple avec vanne d'arrêt

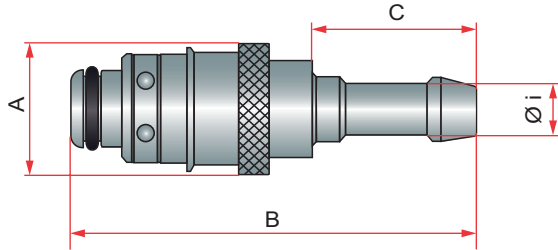


Mat. : Brass / Latón / Mosaźdz / Latão.

De	E/C	t	l1	d3	d1	REF.
22	15	18	12	9	G1/4"	BR811-09-G1/4
25	17			13	G3/8"	BR811-13-G3/8
22	15	18	12	9	M-14x1.50	BR811-09-M14
25	17			13	M-14x1.50	BR811-13-M14
				M-16x1.50	BR811-13-M16	

BR804

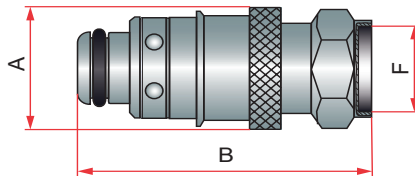
Straight quick coupling
 Enchufe rápido
 Szybkozłącze
 Acoplador rápido
 Fiche droite pour tuyau



B	C	A	Ø i	REF.
66	28	20	10	BR804-08.6810
65			12,5	BR804-08.6812

BR807

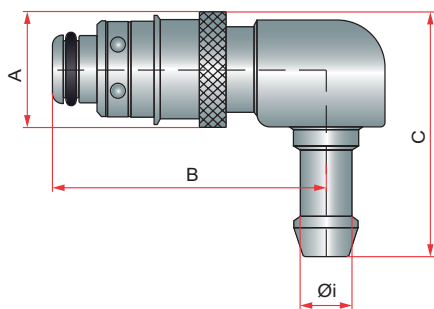
Straight quick coupling female
 Enchufe rápido rosca hembra
 Szybkozłącze
 Acoplador rápido
 Fiche droite filetage femelle



B	A	F	REF.
48,5	20	G1/4	BR807-08.6101

BR804/90°

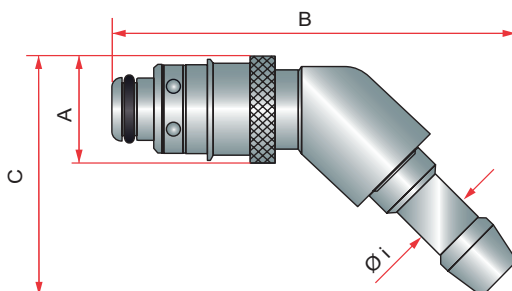
Quick coupling 90°
 Enchufe rápido 90°
 Szybkozłącze kątowe 90°
 Acoplador rapido 90°
 Fiche droite pour tuyau 90°



B	C	A	Ø i	REF.
48,5	48	20	12,5	BR804-08.6812-90

BR804/135°

Quick coupling 135°
 Enchufe rápido 135°
 Szybkozłącze kątowe 135°
 Acoplador rapido 135°
 Fiche droite pour tuyau 135°

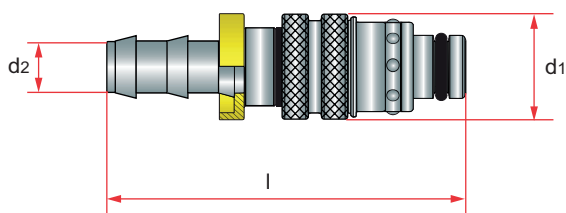
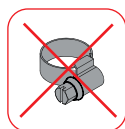


B	C	A	Ø i	REF.
82	49	20	12,5	BR804-08.6812-135

BR85



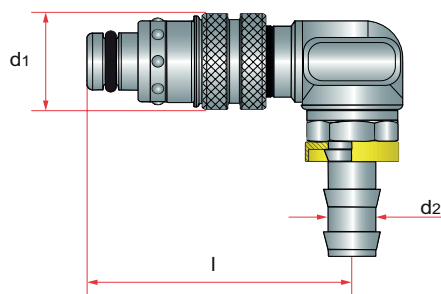
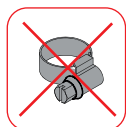
Coupler with quick-t nozzle
Enchufe exprés
Wtyk samozaciskowy
Acoplamiento rápido, auto-aperto
Coupleur droit rapide



l	d1	d2	REF.
65	20	10	BR85-08.FG10
		13	BR85-08.FG13

BR85/90

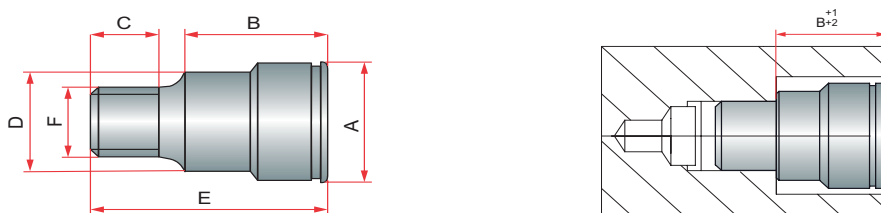
Coupler with quick-t nozzle 90°
Enchufe exprés 90°
Wtyk samozaciskowy 90°
Acoplamiento rápido, auto-aperto 90°
Coupleur droit rapide 90°



l	d1	d2	REF.
45,5	20	10	BR85-08.FG10-90
		13	BR85-08.FG13-90

BR84

Straight quick coupling male
 Racor recto macho
 Szybkozłącze proste męskie
 Acoplador rapido
 Prise droite filetage mâle

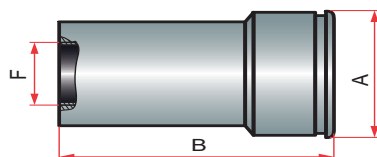


B	E	D	C	A	F	REF.
22	32	17,5	8	21	G1/8	BR84-08.1150
21	33		10		G1/4	BR84-08.1151
11	24		11		G3/8	BR84-08.1152
			G3/8		BR84-08.1152-ON-JV	

*With flow stop - Con obturador - Prosta wtyczka - Con obturador - á obturation

BR841

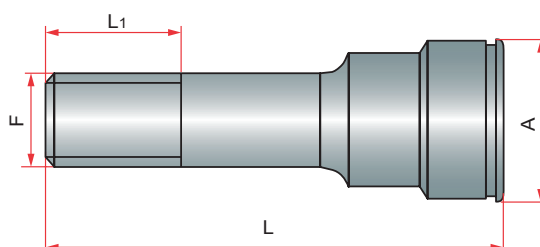
Straight quick coupling female
 Racor recto hembra
 Szybkozłącze proste żeńskie
 Acoplador rapido
 Prise droite filetage femelle



B	A	F	REF.
35	21	G 1/8	BR841-08.1100
39		G 1/4	BR841-08.1101

BR84L

Straight quick coupling male
 Racor recto macho
 Szybkozłącze proste męskie wydłużone
 Acoplador rapido
 Prise droite filetage mâle



L1	L	Ø A	F	REF.
26	50	21	G1/8	BR84-08.1150-050
60	100			BR84-08.1150-100
	150			BR84-08.1150-150
26,5	50		G1/4	BR84-08.1151-050
60	100			BR84-08.1151-100
	150			BR84-08.1151-150
	200	BR84-08.1151-200		

BR84-08

ID ring
 Anillo identificación
Pierścień do identyfikacji
 Anel para identificação
 Bague d'identification

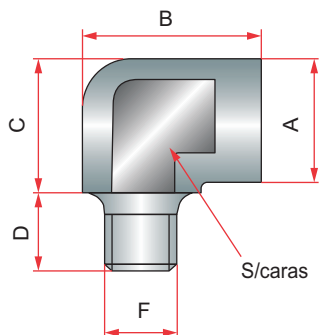


Colour	REF.
Blue	BR84-08-B
Red	BR84-08-R

BR84/90°



90° quick coupling
 Racor rápido 90°
 Szybkozłącze kątowe 90°
 Acoplador rapido 90°
 Prise 90° filetage mâle



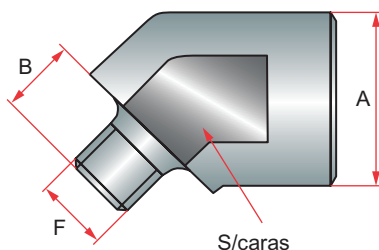
D	S/caras	C	B	A	F	REF.
10	19	24	33	22	G1/8	BR84-08.1150-90
12					G1/4	BR84-08.1151-90
13					G3/8	BR84-08.1152-90

BR84/135°

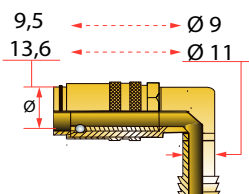
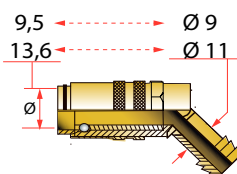
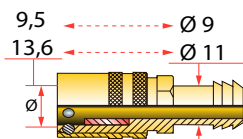
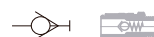
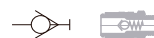
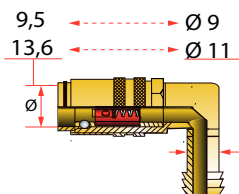
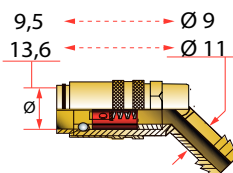
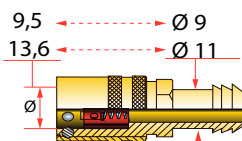
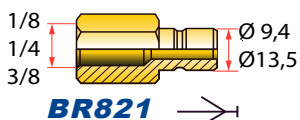
135° quick coupling
 Racor rápido 135°
 Szybkozłącze kątowe 135°
 Acoplador rapido 135°
 Prise 135° filetage mâle



8



S/caras	B	A	F	REF.
19	10	22	G1/8	BR84-08.1150-135
	12		G1/4	BR84-08.1151-135
	13		G3/8	BR84-08.1152-135

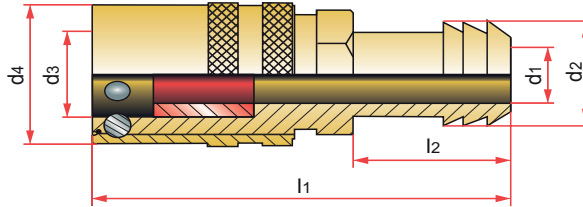


Compatible US

BR802



Quick-release coupling
 Enchufe rápido
 Szybkozłącze bez zaworu
 Acoplador rapido
 Coupleur rapide



Mat. : Brass / Latón / Mosiądz / Latão./ Laiton.

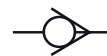
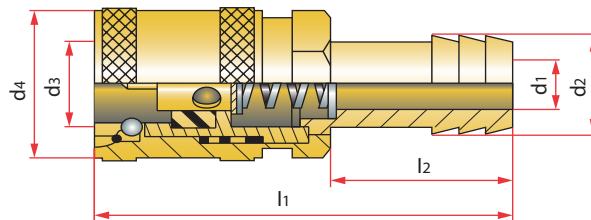
l_1	l_2	d_4	d_1	d_3	d_2	REF.
52	25	17	6	9,5	10,5	BR802/ 9
62		22,6	9	13,6	13,5	BR802/ 11

BR803

Quick-release coupling with valve
 Enchufe rápido con válvula
 Szybkozłącze z zaworem
 Acoplador rapido com valvula
 Coupleur rapide a obturateur



8

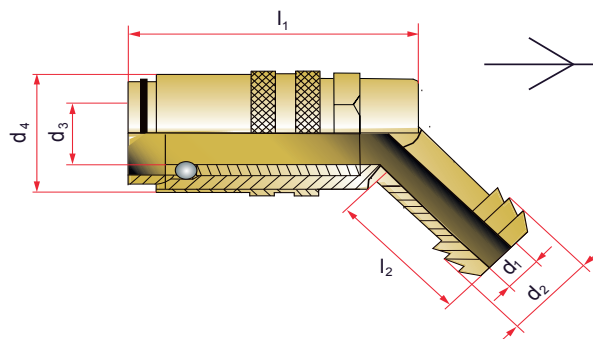


Mat. : Brass / Latón / Mosiądz / Latão./ Laiton.

l_1	l_2	d_4	d_1	d_3	d_2	REF.
57	25	17	6	9,5	10,5	BR803/ 9
68		22,6	9	13,6	13,5	BR803/ 11

BR802/45°

Quick release coupling.45°
 Acoplamiento rápido con paso libre.45°
 Końcówka szybkozłączca. 45°
 Acoplador rápido.45°
 Coupleur rapide 45°

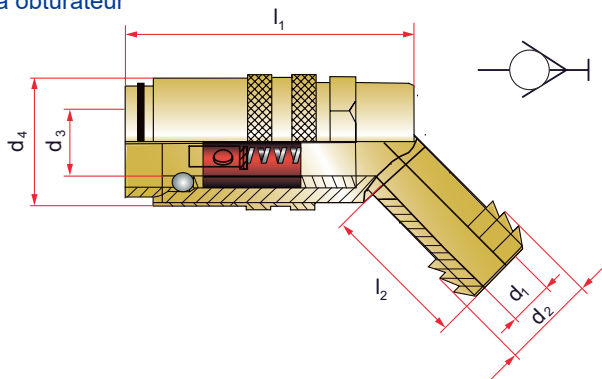


Mat. : Brass / Latón / Mosiądz / Latão./ Laiton.

l_1	l_2	d_4	d_1	d_3	d_2	REF.
38	28	17	6	9,5	10,5	BR802/9/45
52		22,6	9	13,6	13,5	BR802/11/45

BR803/45°

Quick release coupling with valve. 45°
 Acoplamiento rápido con válvula de cierre. Ángulo de 45°
 Końcówka szybkozłączca.45°
 Acoplador rápido com válvula.45°
 Coupleur 45° rapide a obturateur

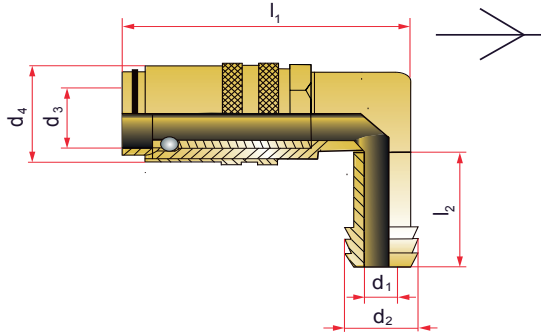


Mat. : Brass / Latón / Mosiądz / Latão.

l_1	l_2	d_4	d_1	d_3	d_2	REF.
38	28	17	6	9,5	10,5	BR803/09/45
52		22,6	9	13,6	13,5	BR803/11/45

BR802/90°

Quick release coupling.90°
 Acoplamiento rápido con paso libre.90°
 Końcówka szybkozłącza. 90°
 Acoplador rapido.90°
 Coupleur rapide 90°



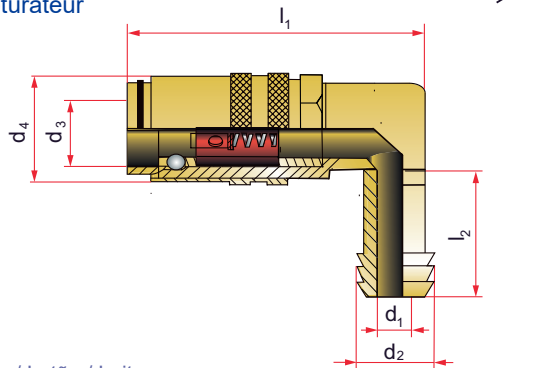
Mat. : Brass / Latón / Mosiądz / Latão / Laiton.

l_1	l_2	d_4	d_1	d_3	d_2	REF.
38	28	17	6	9,5	10,5	BR802/9/90
52		22,6	9	13,6	13,5	BR802/11/90

BR803/90°

Quick release coupling with valve. 90°
 Acoplamiento rápido con válvula de cierre. Ángulo de 90°
 Końcówka szybkozłącza.90°
 Acoplador rápido com válvula.90°
 Coupleur 90° rapide a obturateur

8



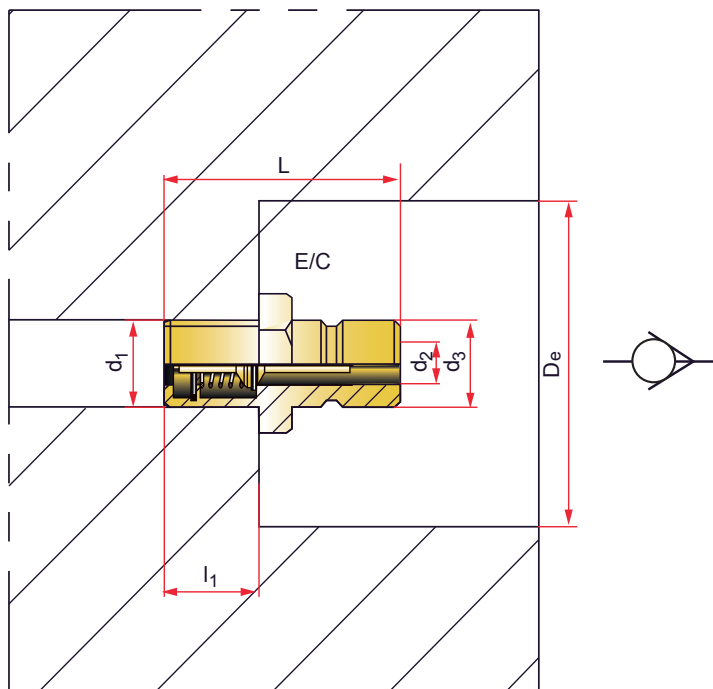
Mat. : Brass / Latón / Mosiądz / Latão / Laiton.

l_1	l_2	d_4	d_1	d_3	d_2	REF.
38	28	17	6	9,5	10,5	BR803/9/90
52		22,6	9	13,6	13,5	BR803/11/90

BR822



Quick-release coupling male
Racor de enchufe rápido macho
Końcówka szybkozłączna
Racord rapido
Racord mâle rapide

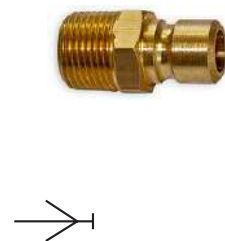
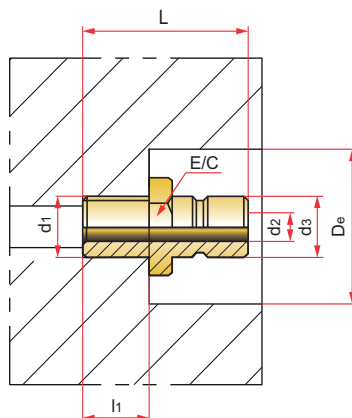


Mat. : Brass / Latón / Mosaźdz / Latão / Laiton.

E/C	L	l1	d2	d3	d1	De	REF.
16	34	10	9	13,5	G1/4"	25	BR822/9/G1/4
19					G3/8"	30	BR822/9/G3/8

BR82

Quick-release coupling male
 Racor de enchufe rápido macho
 Końcówka szybkozłączna
 Racord rapido
 About de raccordement mâle

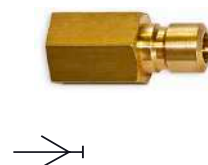
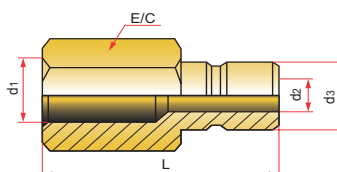


Mat. : Brass / Latón / Mosiądz / Latão / Laiton.

E/C	L	l1	d2	d3	d1	De	REF.
11	24	10	6	9,4	G1/8"	22	BR82/6/G1/8
14	29				G1/4"	26	BR82/6/G1/4
17	30				G3/8"	30	BR82/6/G3/8
14	34	9	9	13,5	G1/8"	25	BR82/9/G1/8
14					G1/4"		BR82/9/G1/4
17					G3/8"	30	BR82/9/G3/8

BR821

Quick-release coupling female
 Racor de enchufe rápido hembra
 Końcówka szybkozłączna
 Racord rapido
 About de raccordement femelle



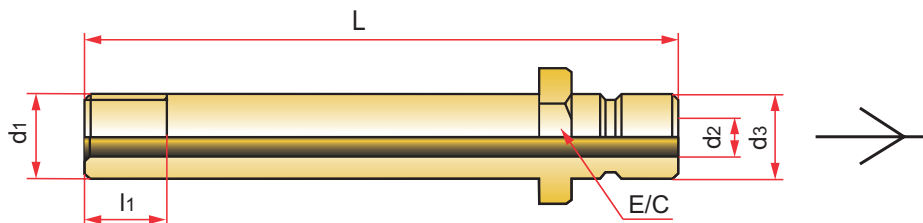
Mat. : Brass / Latón / Mosiądz / Latão / Laiton.

E/C	L	d□	d□	d□	REF.
13	28	9,4	6	G1/8"	BR821/6/G1/8
16	32			G1/4"	BR821/6/G1/4
19	34			G3/8"	BR821/6/G3/8
14	28	13,5	9	G1/8"	BR821/9/G1/8
16	37			G1/4"	BR821/9/G1/4
19	39			G3/8"	BR821/9/G3/8

BR823



Fitting with extension and thread
 Racor con prolongación y rosca
 Końcówka szybkozłącza
 Conector de água longo com rosca
 Raccord avec allongement et filetage



Mat. : Brass / Latón / Mosaźdz / Latão / Laiton.

E/C	L	l1	d2	d3	d1	REF.	E/C	L	l1	d2	d3	d1	REF.
14	50	16	6	9,4	G1/4"	BR823-06-050MM-G1/4	14	50	16	9	13,5	G1/4"	BR823-09-050MM-G1/4
11		11			G1/8"	BR823-06-050MM-G1/8	11		11			G1/8"	BR823-09-050MM-G1/8
17		16			G3/8"	BR823-06-050MM-G3/8	17		16			G3/8"	BR823-09-050MM-G3/8
14	75	16			G1/4"	BR823-06-075MM-G1/4	14	75	16			G1/4"	BR823-09-075MM-G1/4
11		11			G1/8"	BR823-06-075MM-G1/8	11		11			G1/8"	BR823-09-075MM-G1/8
17		16			G3/8"	BR823-06-075MM-G3/8	17		16			G3/8"	BR823-09-075MM-G3/8
14	100	16			G1/4"	BR823-06-100MM-G1/4	14	100	16			G1/4"	BR823-09-100MM-G1/4
11		11			G1/8"	BR823-06-100MM-G1/8	11		11			G1/8"	BR823-09-100MM-G1/8
17		16			G3/8"	BR823-06-100MM-G3/8	17		16			G3/8"	BR823-09-100MM-G3/8
14	125	16			G1/4"	BR823-06-125MM-G1/4	14	125	16			G1/4"	BR823-09-125MM-G1/4
11		11			G1/8"	BR823-06-125MM-G1/8	11		11			G1/8"	BR823-09-125MM-G1/8
17		16			G3/8"	BR823-06-125MM-G3/8	17		16			G3/8"	BR823-09-125MM-G3/8
14	150	16			G1/4"	BR823-06-150MM-G1/4	14	150	16			G1/4"	BR823-09-150MM-G1/4
11		11			G1/8"	BR823-06-150MM-G1/8	11		11			G1/8"	BR823-09-150MM-G1/8
17		16			G3/8"	BR823-06-150MM-G3/8	17		16			G3/8"	BR823-09-150MM-G3/8
14	200	16			G1/4"	BR823-06-200MM-G1/4	14	200	16			G1/4"	BR823-09-200MM-G1/4
11		11			G1/8"	BR823-06-200MM-G1/8	11		11			G1/8"	BR823-09-200MM-G1/8
17		16			G3/8"	BR823-06-200MM-G3/8	17		16			G3/8"	BR823-09-200MM-G3/8
14	250	16		G1/4"	BR823-06-250MM-G1/4	14	250	16		G1/4"	BR823-09-250MM-G1/4		
11		11		G1/8"	BR823-06-250MM-G1/8	11		11		G1/8"	BR823-09-250MM-G1/8		
17		16		G3/8"	BR823-06-250MM-G3/8	17		16		G3/8"	BR823-09-250MM-G3/8		

BR842



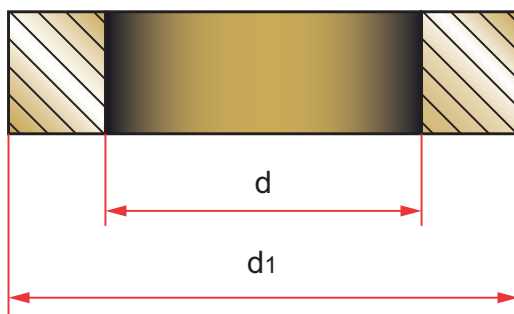
Silicon joint for quick-release coupling BR802/BR803

Junta para enchufe rápido BR802/BR803

Podkładka silikonowa

Anel para aclopador rapido BR802/BR803

Joint pour coupleur rapide BR802/BR803

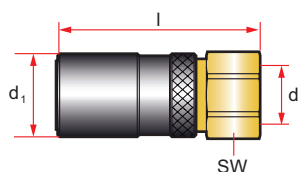
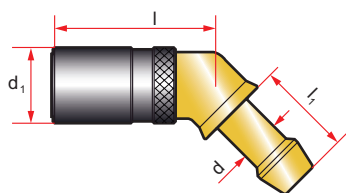
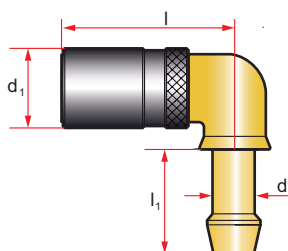
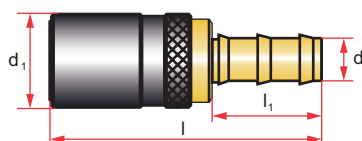
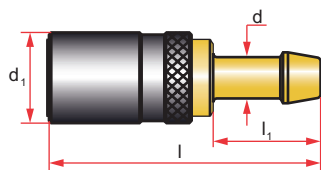


Mat. : Silicone / Silicona / Silikon / Silicone.

d	d1	REF.
11	15	BR842

BR601

Quick-release coupling
 Enchufe rápido
 Szybkozłącze bez zaworu
 Acoplador rapido
 Coupleur rapide



d	d1	l	l1	with valve / con valvula	without valve /sin valvula
				REF.	REF.
8	19	60	23	BR601.06 HGB 08	BR601.06 HG 08
12	25	69,5	28	BR601.09 HGB 12	BR601.09 HG 12
13	31	82	28	BR601.09 HGB 13	BR601.09 HG 13
16	31	82	28	BR601.12 HGB 16	BR601.12 HG 16
16	32	109	28	BR601.16 HGB 16	BR601.16 HG 16
19	38	114	33	BR601.16 HGB 19	BR601.16 HG 19

d	d1	l	l1	with valve / con valvula	without valve /sin valvula
				REF.	REF.
10	19	60	24	BR601.06 FGB 10	BR601.06 FG 10
10	25	69,5	24	BR601.09 FGB 10	BR601.09 FG 10
13	25	69,5	28	BR601.09 FGB 13	BR601.09 FG 13
13	31	92	38	BR601.12 FGB 13	BR601.12 FG 13
16	38	109	38	BR601.16 FGB 16	BR601.16 FG 16
19	38	109	38	BR601.16 FGB 19	BR601.16 FG 19

d	d1	l	l1	with valve / con valvula	without valve /sin valvula
				REF.	REF.
8	19	59	23	BR601.06 HGB 08-90°	BR601.06 HG 08-90°
10	25	60	28	BR601.09 HGB 10-90°	BR601.09 HG 10-90°
12	25	65	28	BR601.09 HGB 12-90°	BR601.09 HG 12-90°
16	31	82	28	BR601.12 HGB 16-90°	BR601.12 HG 16-90°
19	38	132	60	BR601.16 HGB 19-90°	BR601.16 HG 19-90°

d	d1	l	l1	with valve / con valvula	without valve /sin valvula
				REF.	REF.
8	19	59	23	BR601.06 HGB 8-45°	BR601.06 HG 8-45°

d	d1	l	SW	with valve / con valvula	without valve /sin valvula
				REF.	REF.
G 1/4"	19	46	17	BR601.06 DGB 13	BR601.06 DG 13
G 3/8"	25	53	22	BR601.09 DGB 17	BR601.09 DG 17
G 1/2"	31	67	27	BR601.12 DGB 21	BR601.12 DG 21
G 3/4"	38	90	35	BR601.16 DGB 26	BR601.16 DG 26

BSP Threads - Cylindrical = "G" Conical = "R" Roscas BSP - Cilíndrica = "G" Cónica = "R"

Mat: Brass
 Mat: Latón

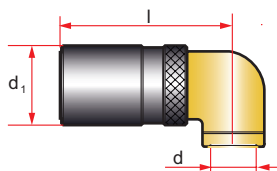
O-ring: Viton®
 Junta: Vitón®

Temperature range: -20°C +100°C
 Rango de temperatura: -20°C + 100°C

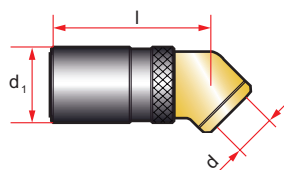
Working pressure: 16 bar
 Presión de trabajo : 16 bar

BR601

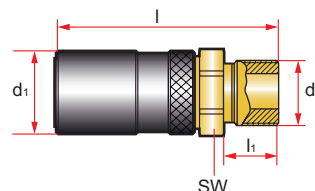
Quick-release coupling
 Enchufe rápido
 Szybkozłącze bez zaworu
 Acoplador rapido
 Coupleur rapide



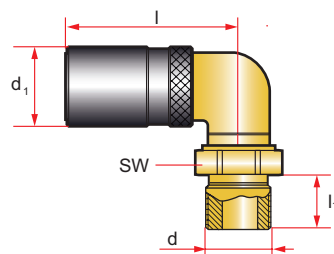
d	d1	l	with valve/con valvula	without valve/sin valvula
			REF.	REF.
G 1/4"	19	24	BR601.06 DGB 13-90°	BR601.06 DG 13-90°
G 3/8"	25	24	BR601.09 DGB 17-90°	BR601.09 DG 17-90°
G 1/2"	31	28	BR601.12 DGB 21-90°	BR601.12 DG 21-90°



d	d1	l1	with valve / con valvula	without valve /sin valvula
			REF.	REF.
G 1/4"	19	59	BR601.06 DGB 13-45°	BR601.06 DG 13-45°



d	d1	l	l ₁	SW	with valve / con valvula	without valve /sin valvula
					REF.	REF.
G 1/4"	19	55	10	17	BR601.06 EGB 13	BR601.06 EG 13
G 3/8"	25	61	11	22	BR601.09 EGB 17	BR601.09 EG 17
G 1/2"	31	72	14	27	BR601.12 EGB 21	BR601.12 EG 21
G 3/4"	38	115,5	14	32	BR601.16 EGB 26	BR601.16 EG 26



d	d1	l	l ₁	SW	with valve / con valvula	without valve /sin valvula
					REF.	REF.
G 1/4"	19	55	10	17	BR601.06 EGB 13-90°	BR601.06 EG 13-90°
G 3/8"	25	61	11	22	BR601.09 EGB 17-90°	BR601.09 EG 17-90°
G 1/2"	31	72	14	27	BR601.12 EGB 21-90°	BR601.12 EG 21-90°
G 3/4"	38	115,5	14	32	BR601.16 EGB 26-90°	BR601.16 EG 26-90°

BSP Threads - Cylindrical = "G" Conical = "R"

Roscas BSP - Cilíndrica = "G" Cónica = "R"

Mat: Brass
 Mat: Latón

O-ring: Viton®
 Junta: Vitón®

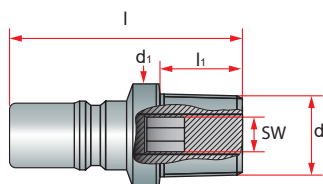
Temperature range: -20°C +100°C
 Rango de temperatura: -20°C + 100°C

Working pressure: 16 bar
 Presión de trabajo : 16 bar

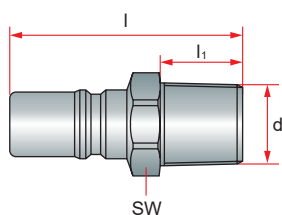
BR601



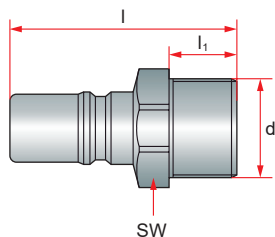
Quick-release coupling male
 Racord rapido
 Końcówka szybkozłączna
 Racord rapido
 Racord mâle rapide



d	d1	l	l ₁	SW	without valve /sin valvula	
					REF.	
R 1/8"	10	31	7,5	5	BR601.06	ER 10
R 1/4"	13	35	13	5	BR601.06	ER 13
R 1/4"	13	34	10	8	BR601.09	ER 13
R 3/8"	17	36	11	8	BR601.09	ER 17
R 3/8"	17	39	13	10	BR601.12	ER 17



d	l	l ₁	SW	without valve /sin valvula	
				REF.	
R 1/2"	41	13	24	BR601.12	ER 21
R 1/2"	63	16,5	22	BR601.16	ER 21
R 3/4"	63	16,5	27	BR601.16	ER 26



d	l	l ₁	SW	without valve /sin valvula	
				REF.	
G 1/2"	41	13	22	BR601.09	ER 21
G 3/4"	63	16	27	BR601.12	ER 26
G 1"	63	16	35	BR601.16	ER 33

BSP Threads - Cylindrical = "G" Conical = "R"

Roscas BSP - Cilindrica = "G" Cónica = "R"

Mat: Brass

Temperature range: -20°C +100° C

Working pressure: 16 bar

Mat: Latón

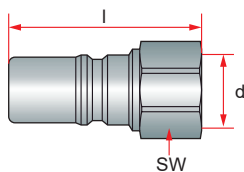
Rango de temperatura: -20°c + 100° C

Presión de trabajo : 16 bar

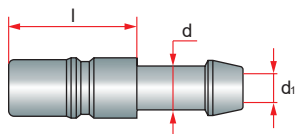
BR601



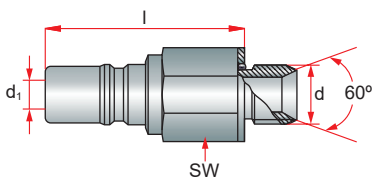
Quick-release coupling male
 Racord rapido
 Końcówka szybkozłącza
 Racord rapido
 Racord mâle rapide



d	l	SW	without valve /sin valvula
			REF.
G 1/4"	34	17	BR601.06 DR 13
G 3/8"	37	22	BR601.09 DR 17
G 1/2"	45	27	BR601.12 DR 21
G 3/4"	58	32	BR601.16 DR 26



d	d ₁	l	without valve /sin valvula
			REF.
8	8	24,5	BR601.06 HR 08
12	12	53	BR601.09 HR 12
16	16	30	BR601.12 HR 16
20	19	37	BR601.16 HR 19



d	d ₁	l	SW	without valve /sin valvula
				REF.
G 1/8	10	38	17	BR601.06 ORB 10-38
G 1/4	13	36	17	BR601.06 ORB 13-36
G 1/4	13	38	19	BR601.06 ORB 13-38
G 3/8	17	38	20	BR601.06 ORB 17-38
G 3/8	17	53,5	24	BR601.06 ORB 17-53,5
G 1/2	21	50	24	BR601.06 ORB 21-50
G 3/4	26	67	32	BR601.06 ORB 26-67

BSP Threads - Cylindrical = "G" Conical = "R"

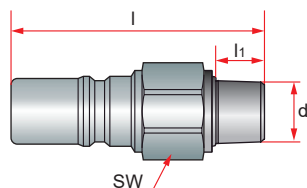
Roscas BSP - Cilindrica = "G" Cónica = "R"

Mat: Brass Temperature range: -20°C +100° C
 Mat: Latón Rango de temperatura: -20°c + 100° C

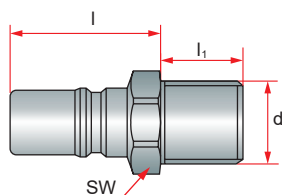
Working pressure: 16 bar
 Presión de trabajo : 16 bar

BR601

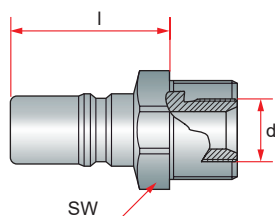
Quick-release coupling male
 Racord rapido
 Końcówka szybkozłączna
 Racord rapido
 Racord mâle rapide



d	l	l ₁	SW	with valve /con valvula
				REF.
R 1/8"	45	7	17	BR601.06 RRB 10
R 1/4"	45	9	17	BR601.06 RRB 13
R 1/4"	51	9	19	BR601.09 RRB 13
R 3/8"	48	10	20	BR601.09 RRB 17
R 3/8"	63,5	10	24	BR601.12 RRB 17
R 1/2"	62	12	24	BR601.12 RRB 21
R 3/4"	81	14	32	BR601.16 RRB 26



d	l	l ₁	SW	with valve /con valvula
				REF.
G 3/8"	26	10	19	BR601.06 ERB 17
G 1/2"	25	12	22	BR601.09 ERB 21
G 3/4"	30	16	27	BR601.12 ERB 26
G 1"	38	24	32	BR601.16 RRB 33



d	l	SW	with valve /con valvula
			REF.
G 1/4"	47	17	BR601.06 DRB 13
G 1/4"	48,5	19	BR601.09 DRB 13
G 3/8"	49	22	BR601.09 DRB 17
G 3/4"	81	32	BR601.16 DRB 26

BSP Threads - Cylindrical = "G" Conical = "R"

Roscas BSP - Cilindrica = "G" Cónica = "R"

Mat: Brass
 Mat: Latón

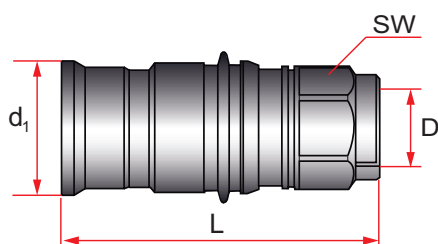
O-ring: Viton®
 Junta: Vitón®

Temperature range: -20°C +100°C
 Rango de temperatura: -20°C + 100°C

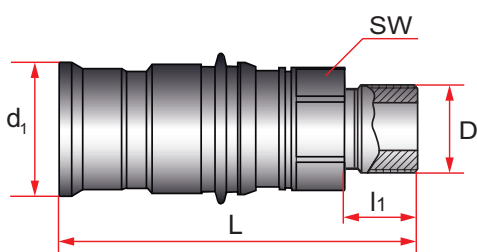
Working pressure: 16 bar
 Presión de trabajo : 16 bar

BR601

Quick-release coupling
 Enchufe rápido
 Szybkozłącze bez zaworu
 Acoplador rapido
 Coupleur rapide



D	d ₁	L	SW	whit valve/con valvula
				REF.
G 3/4"	53	119,5	42	BR601.20 DGB 26
G 1"	60	140	50	BR601.25 DGB 33
G 1"-1/4	60	140	50	BR601.25 DGB 42
G 1"-1/2	82	158	70	BR601.38 DGB 48
G 2"	82	158	70	BR601.38 DGB 60



D	d ₁	L	l ₁	SW	whit valve/con valvula
					REF.
G 1"	53	132	20	42	BR601.20 EGB 33
G 1"	60	144	20	50	BR601.25 EGB 33
G 1"-1/4	60	144	21	50	BR601.25 EGB 42
G 1"-1/2	82	167	24	70	BR601.38 EGB 48

BSP Threads - Cylindrical = "G" Conical = "R"

Roscas BSP - Cilindrica = "G" Cónica = "R"

Mat: Brass
 Mat: Latón

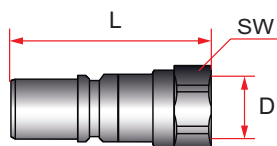
O-ring: Viton®
 Junta: Vitón®

Temperature range: -20°C +100°C
 Rango de temperatura: -20°C + 100°C

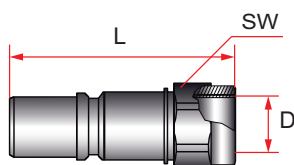
Working pressure: 16 bar
 Presión de trabajo : 16 bar

BR601

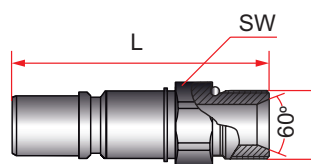
Quick-release coupling
 Racord rapido
 Końcówka szybkozłącza
 Racord rapido
 Racord rapide



D	L	SW	without valve /sin valvula
			REF.
G 1"	92	41	BR601.20 DR 33
G 1"	100	41	BR601.25 DR 33
G 1"-1/2	110	65	BR601.38 DR 48



D	L	SW	whit valve/con valvula
			REF.
G 3/4"	126,5	42	BR601.20 DRB 26
G 1"	126,5	42	BR601.20 DRB 33
G 1"	148,5	50	BR601.25 DRB 33
G 1"-1/4	158	50	BR601.25 DRB 42
G 1"-1/2	156	70	BR601.38 DRB 48
G 2"	156	70	BR601.38 DRB 60



D	L	SW	whit valve/con valvula
			REF.
G 1"	120	42	BR601.20 ERB 33
G 1"	127	50	BR601.25 ERB 33
G 1"-1/4	131,5	50	BR601.25 ERB 42
G 1"-1/2	156	70	BR601.38 ERB 48
G 2"	161	70	BR601.38 ERB 60

BSP Threads - Cylindrical = "G" Conical = "R"

Roscas BSP - Cilindrica = "G" Cónica = "R"

Mat: Brass
 Mat: Latón

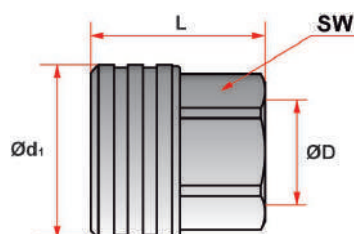
O-ring: Viton®
 Junta: Vitón®

Temperature range: -20°C +100°C
 Rango de temperatura: -20°C + 100°C

Working pressure: 16 bar
 Presión de trabajo : 16 bar

BR606 DG

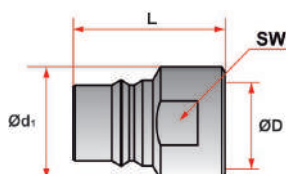
Quick-release coupling
 Enchufe rápido
 Szybkozłącze bez zaworu
 Acoplador rapido
 Coupleur rapide



D	d1	L	SW	without valve / sin valvula
				REF.
1"	57	57	46	BR606.25 DG 33
1"1/4	65	62	54	BR606.33 DG 42
2"	89	70	77	BR606.50 DG 60
2"1/2	109	84	90	BR606.63 DG 75

BR606 DR

Quick-release coupling
 Racord rapido
 Końcówka szybkozłącza
 Racord rapido
 Racord rapide



D	d1	L	SW	without valve / sin valvula
				REF.
1"	45	61	41	BR606.25 DR 33
1"1/4	55	66	50	BR606.33 DR 42
2"	75	78	71	BR606.50 DR 60
2"1/2	90	83	84	BR606.63 DR 75

BSP Threads - Cylindrical = "G" Conical = "R"

Roscas BSP - Cilindrica = "G" Cónica = "R"

Mat: Brass
 Mat: Latón

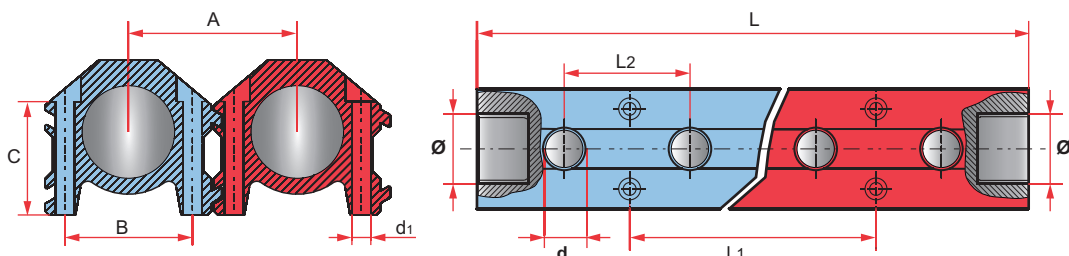
Temperature range: -20°C +100°C
 Rango de temperatura: -20°C + 100°C

Working pressure: 10 bar
 Presión de trabajo : 10 bar



BR116

Water manifolds quick coupling
 Distribuidores de refrigeración union rápida
 Alluminium Collectors
 Alluminium Collectors
 Bloc de distribution en aluminium



INLET THREAD Ø ENTRADA	d ₁	A	B	C	d	L	L ₁	L ₂	Nº EXITS / Nº DE SALIDAS	REF.
G3/4"	4,5	45	31	30	G1/4"	190	76	38	4	BR116-04-13-26
						266	152		6	BR116-06-13-26
						342	228		8	BR116-08-13-26
					G3/8"	229	102	51	4	BR116-04-17-26
						331	204		6	BR116-06-17-26
						433	306		8	BR116-08-17-26
G 1"	7,2	53	40,5	36,5	G1/4"	190	76	38	4	BR116-04-13-33
						266	152		6	BR116-06-13-33
						342	228		8	BR116-08-13-33
						418	304		10	BR116-10-13-33
						494	380		12	BR116-12-13-33
						646	532		16	BR116-16-13-33
					G3/8"	229	102	51	4	BR116-04-17-33
						331	204		6	BR116-06-17-33
						433	306		8	BR116-08-17-33
						535	408		10	BR116-10-17-33
						637	510		12	BR116-12-17-33
						841	714		16	BR116-16-17-33
					G1/2"	229	102	51	4	BR116-04-21-33
						331	204		6	BR116-06-21-33
						433	306		8	BR116-08-21-33
						535	408		10	BR116-10-21-33
						637	510		12	BR116-12-21-33
						841	714		16	BR116-16-21-33

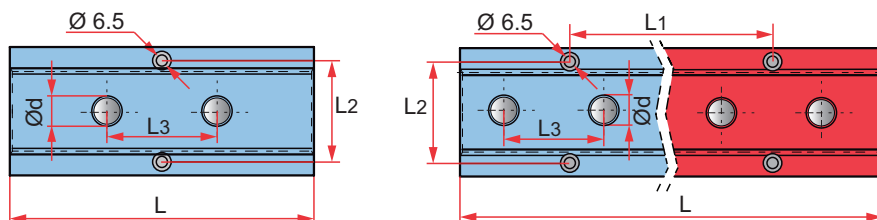
How to order: REF+Red/Blue Example: BR116-04-13-33-R
 Forma pedido: REF+Rojo/Azul Ejemplo: BR116-04-13-33-R

BSP Threads - Cylindrical = "G" Conical = "R"
 Roscas BSP - Cilíndrica = "G" Cónica = "R"

BR118

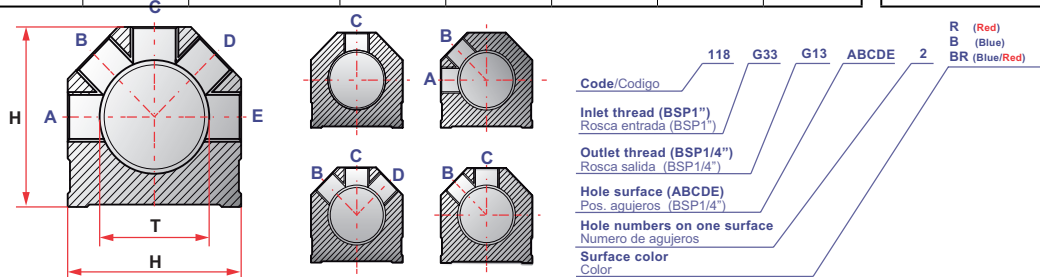


Alluminium Collectors
 Distribuidores de Aluminio
 Alluminium Collectors
 Alluminium Collectors
 Bloc de distribution en aluminium

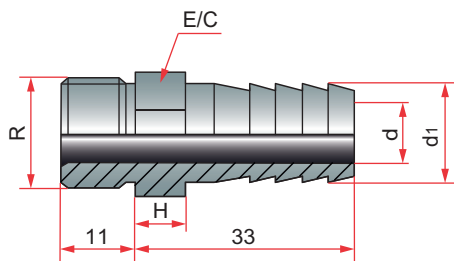


Ø T Inlet Thread / Rosca entrada	Ø d Outlet Thread / Rosca salida	Number of Holes on one Surfa- ce/ Num. Agujeros	L	L1	L2	L3	H	Thread size explanations Codigo de la roscas
G 3/4	G 1/8 G 1/4	2	74	0	35	31	44,5	BSP
		4	132	62				
		6	194	124				
		8	256	186				
G 1	G 1/4 G 3/8	2	103	0	38	40	51	1/4 = G13
		4	183	80				3/8 = G17
		6	263	160				
		8	343	240				
G 1-1/4	G 1/4 G 3/8 G 1/2	2	152	0	57	51	65	1/2 = G21
		4	254	101,6				3/4 = G26
		6	355	203,2				
		8	457	304,8				
G 1-1/2	G 3/8 G 1/2	2	152	0	57	51	76	1" = G33
		4	254	101,6				1-1/4 = G42
		6	355	203,2				
		8	457	304,8				
G 2	G 3/8 G 1/2 G 3/4	2	203	0	72,5	63,5	89	1-1/2 = G48
		4	305	127				2" = G60
		6	432	254				
		8	559	381				

8



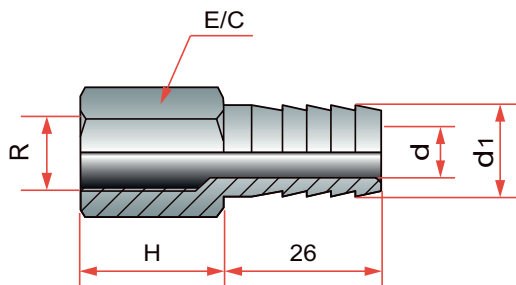
Cooling coupling male
 Boquilla de refrigeración macho
 Końcówka szybkozłącza męska
 Acoplador refrigeração
 About fileté mâle



E/C	H	d	d1	R	REF.
14	7	6	13	G 1/8"	BR87/ 1/8
		7		G 1/4"	BR87/ 1/4
17				G 3/8"	BR87/ 3/8

BR875

Cooling coupling female
 Boquilla de refrigeración hembra
 Końcówka szybkozłącza żeńska
 Acoplador refrigeração
 About fileté femelle



E/C	H	d	d1	R	REF.
14	18	7	13	G 1/8"	BR875/ 1/8
16				G 1/4"	BR875/ 1/4
19	20			G 3/8"	BR875/ 3/8

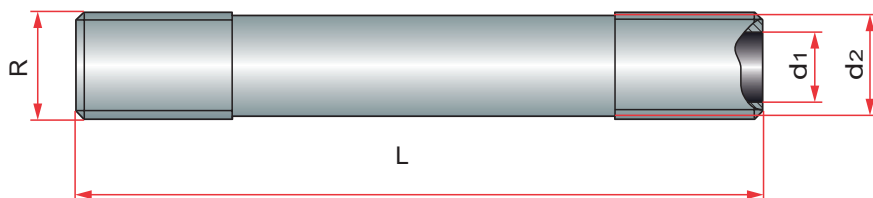
Threaded extension pipes

Tubo roscado

Tulejka przedłużająca z gwintem

Tubo roscado

Allongues



Mat. : Galvanized steel / Acero galvanizado / Stal ocynkowana / Aço galvanizado./ Acier galvanisé.

d2	d1	R	L	REF.
10	7	G1/8"	50	BR88/ 1/8" x 50
			75	BR88/ 1/8" x 75
			100	BR88/ 1/8" x 100
			150	BR88/ 1/8" x 150
			200	BR88/ 1/8" x 200
			250	BR88/ 1/8" x 250
			300	BR88/ 1/8" x 300
13	9	G1/4"	50	BR88/ 1/4" x 50
			75	BR88/ 1/4" x 75
			100	BR88/ 1/4" x 100
			150	BR88/ 1/4" x 150
			200	BR88/ 1/4" x 200
			250	BR88/ 1/4" x 250
			300	BR88/ 1/4" x 300

BSP Threads - Cylindrical = "G" Conical = "R"

Roscas BSP - Cilíndrica = "G" Cónica = "R"

BR89



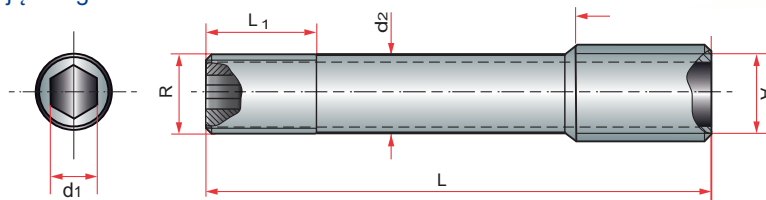
Threaded extension pipes

Tubo roscado

Tulejka przedłużająca z gwintem

Tubo roscado

Allongues



Mat. : Galvanized steel / Acero galvanizado / Stal ocynkowana / Aço galvanizado./ Acier galvanisé.

d ₂	L ₁	L ₂	d ₁	R/A	L	REF.
10	10	12	5	G1/8"	50	BR89/ 1/8" x 50
					75	BR89/ 1/8" x 75
					100	BR89/ 1/8" x 100
					125	BR89/ 1/8" x 125
14	11		8	G1/4"	50	BR89/ 1/4" x 50
					75	BR89/ 1/4" x 75
					100	BR89/ 1/4" x 100
					125	BR89/ 1/4" x 125
					150	BR89/ 1/4" x 150

BR94

E2074. Z94

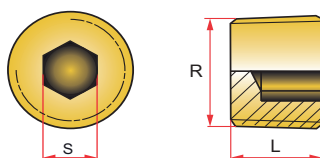
Taper threaded plug

Tapón con rosca cónica

Korek stożkowy

Tampão conico

Bouchon filete conique

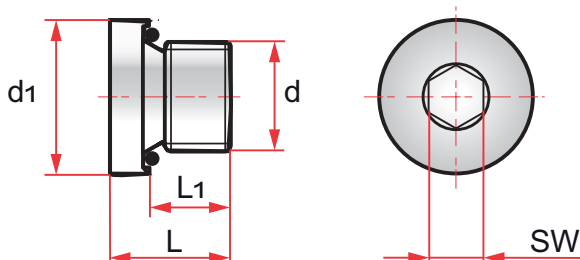


Mat. : Brass / Latón / Mosaźdz / Latão./ Laiton.

S	L	R	REF.
5	8	R1/8"	BR94 - 1/8"
6	10	R1/4"	BR94 - 1/4"
8		R3/8"	BR94 - 3/8"
10		R1/2"	BR94 - 1/2"
12	12	R3/4"	BR94 - 3/4"
5	8	M10x1	BR94-M10 x 1
6		M12x1,5	BR94-M12x1,5

BSP Threads : Cylindrical = "G" / Conical = "R" Roscas BSP: Cilíndrica = "G" / Cónica = "R"

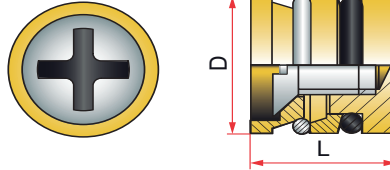
Cooling circuit plugs
 Tapones para circuito de refrigeración
 Zaślepka rozprężna
 Tampões para refrigeração
 Bouchon pour circuit refroidissement



Mat. : Brass / NBR Ring

d	d ₁	L	L ₁	SW	REF.
M10x1,00	14	10	7	5	BR948- 10
M12x1,50	17	11	8	6	BR948- 12
M14x1,50	19	12	9	8	BR948- 14
M16x1,50	21		9,5	10	BR948- 16
M22x1,50	27	13	11,5	14	BR948- 22
G1/8	14	10	7	5	BR948-1/8"
G1/4	18	11	8	7	BR948-1/4"
G3/8	22	12	9	8	BR948-3/8"
G1/2	24	13	9,5	10	BR948-1/2"
G3/4	32	15	11,5	12	BR948-3/4"
G1	39			14	BR948- 1"

Cooling circuit plugs
 Taponos para circuito de refrigeración
 Zaślepka rozprężna
 Tampões para refrigeração
 Bouchon pour circuit refroidissement

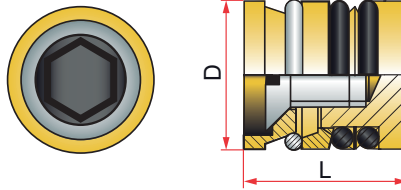


Mat. : Brass + alloy steel. 1- VITON RING

D	L	REF.
6	10	TCR/ 6
8		TCR/ 8
10	11	TCR/ 10
12	12	TCR/ 12

TCR2

Cooling circuit plugs
 Taponos para circuito de refrigeración
 Zaślepka rozprężna
 Tampões para refrigeração
 Bouchon pour circuit refroidissement

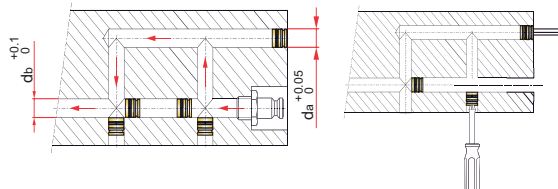


Mat. : Brass + alloy steel. 1 - VITON RING, 1-NBR RING

D	L	REF.
6	11	TCR2/ 6
8	12	TCR2/ 8
10	12	TCR2/ 10
12	13	TCR2/ 12
14	16	TCR2/ 14
16	17	TCR2/ 16

da
 -Holes tolerances for tapping
 -Tolerancias del agujero para el cierre

db
 -Holes tolerances for deviating
 -Tolerancias del agujero para el circuito

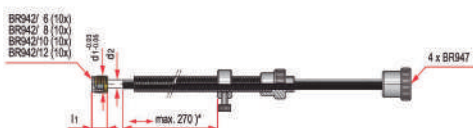
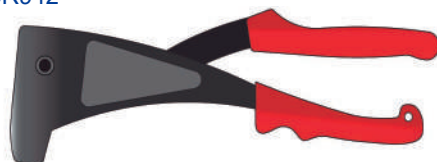


BR945

E 2077, Z 945/1



Pliers set with BR942 sealing plugs
 Juego de pinzas para tapones BR942
 Zestaw kluczy do zaślepek BR942
 Equipamento para montagem do tampão BR942
 Set de pinçe pour bouchon BR942



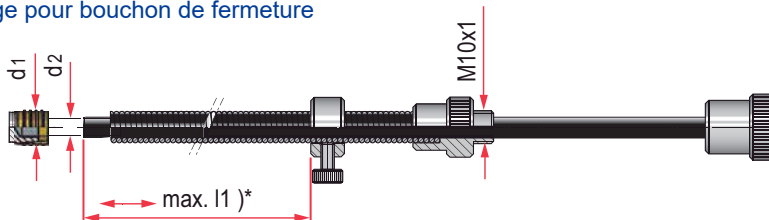
*Tope ajustable.

l1	d2	d1	REF.
8	M3	6	BR945
	M4	8	
10	M6	10	
		12	

BR947

E 20772, Z 947/1

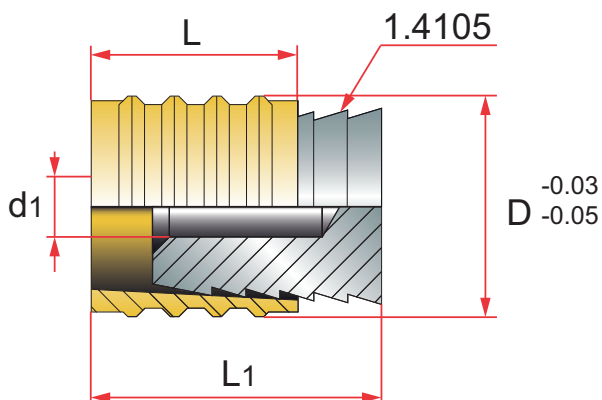
Mounting rod for sealing plug BR942
 Barra para el montaje del tapón BR942
 Przyrząd montażowy do korków zaślepiających
 Haste para montagem do tampão BR942
 Tige de montage pour bouchon de fermeture



*Tope ajustable.

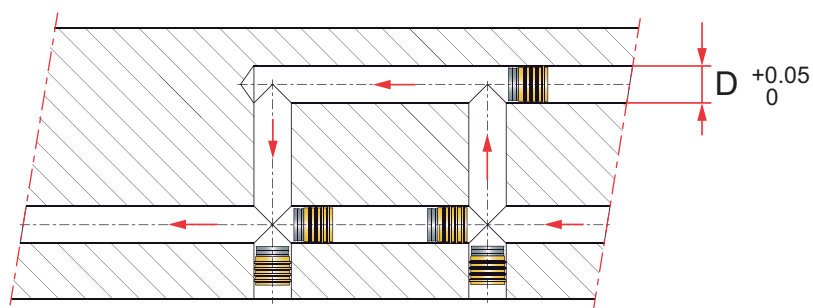
d2	d1	6	REF.
M3	6	270	BR947/ 6X270
		440	BR947/ 6X440
M4	8	270	BR947/ 8X270
		440	BR947/ 8X440
M6	10	270	BR947/ 10X270
		440	BR947/ 10X440
	12	270	BR947/ 12X270
		440	BR947/ 12X440

Sealing plug
 Obturador de circuito
 Zaślepka rozprężna
 Circuito do obturador
 Circuit d'obturation

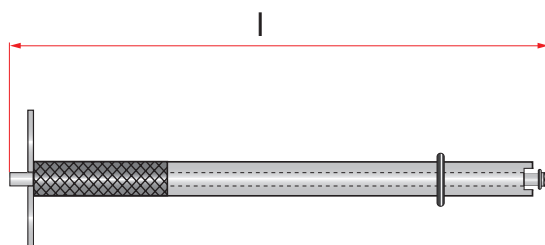
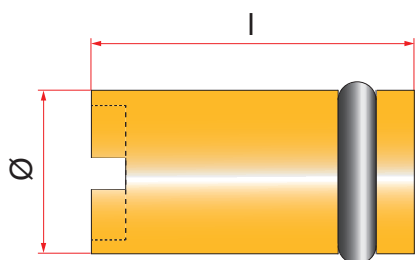


Mat. : Brass + steel 1.4105.

d_1	L_1	D	L	REF.
M3	11,5	6	8	BR942/ 06
M4		8		BR942/ 08
M6	14	10	10	BR942/ 10
M6		12		BR942/ 12



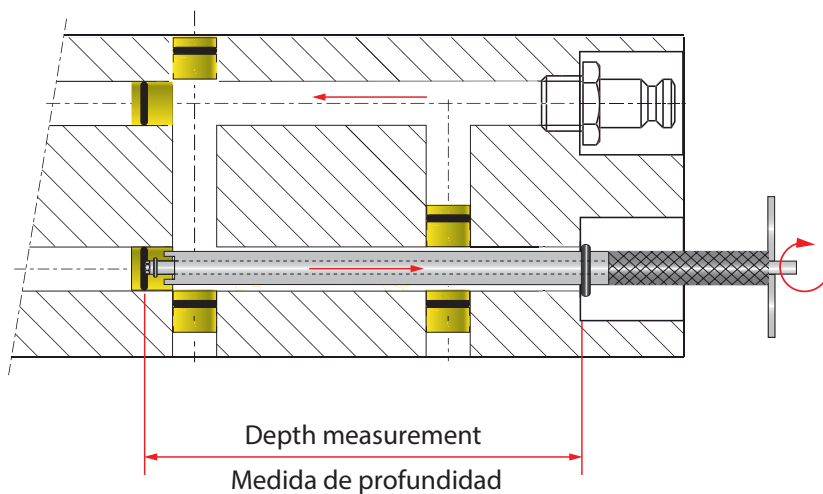
Taper plug brass + viton
 Tapón de latón + vitón
 Zašlepka + viton
 Tampão latão + viton
 Bouchon laiton + viton



Mat. : Brass. O-ring: viton.

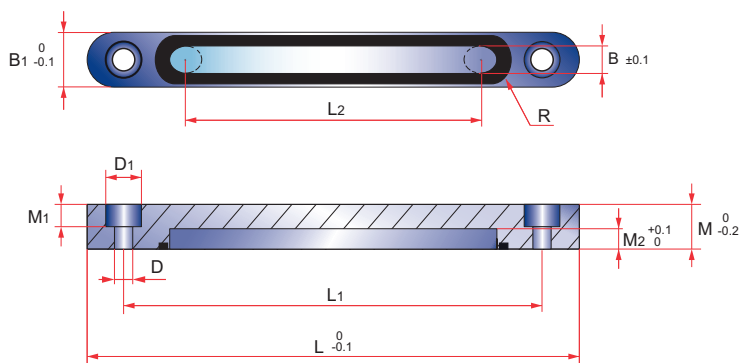
Ø	l	REF.
6	15	BRVV/ 6
		BRVV/ 8
8	15	BRVV/ 10
10		BRVV/ 12
12		

Ø	l	REF.
6	150	BRVV/ 106
	300	BRVV/ 306
8	150	BRVV/ 108
	300	BRVV/ 308
10	150	BRVV/ 110
	300	BRVV/ 310
12	150	BRVV/ 112
	300	BRVV/ 312



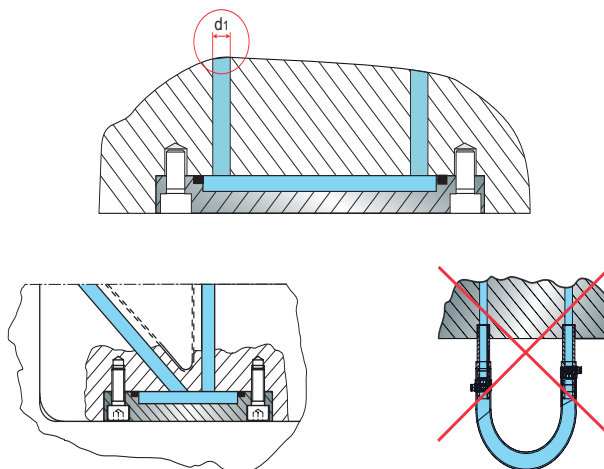
BR7740

Deflection element
 Puente de refrigeración
 Kanałouszczelka
 Ponte de refrigeração
 Element de deviation

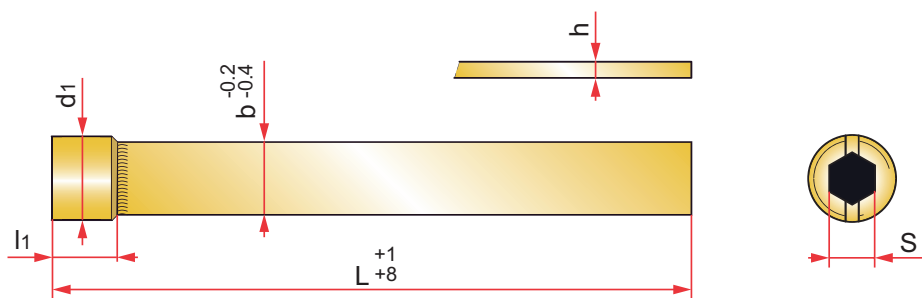


Mat. : Aluminium.

d1	D1	D	M2	M1	M	L1	B1	L	L2	B	REF.
≤6	13	8,5	6,5	8	18	89	22	111	53	8	BR7740 - 8 x 53
						134		156	98		BR7740 - 8 x 98
≤8						91	24	115	53	10	BR7740 - 10 x 53
						136		160	98		BR7740 - 10 x 98
≤10						95	28	123	53	14	BR7740 - 14 x 53
						140		168	98		BR7740 - 14 x 98

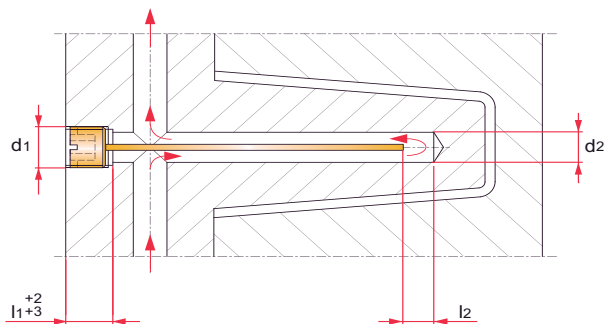


Threaded straight plug baffles
 Refrigerador de lámina
 Przegroda
 Refrigerador de lamina
 Bloc de refroidissement a lame



Mat. : Brass / Latón / Mosaźdz / Latão./ Laiton.

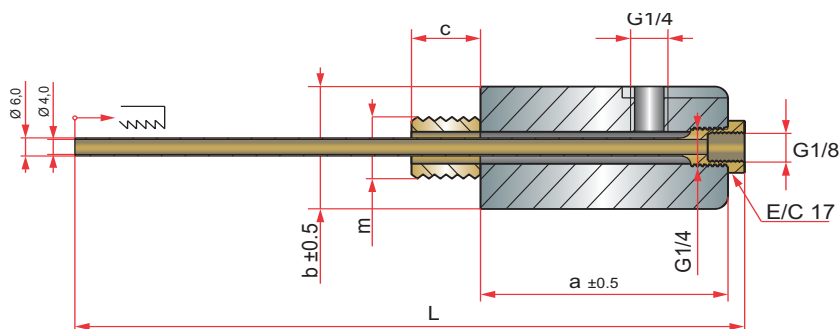
I2	S	d2	l1	b	h	d1	L	REF.
8	5	8	8	8	2	G1/8	100	BR965/ 1/8-100
						G1/8	200	BR965/ 1/8-200
11	6	11	10	11		G1/4	125	BR965/ 1/4-125
						G1/4	150	BR965/ 1/4-150
						G1/4	250	BR965/ 1/4-250
15	8	14,7		14,7		G3/8	150	BR965/ 3/8-150
					G3/8	300	BR965/ 3/8-300	



BR96

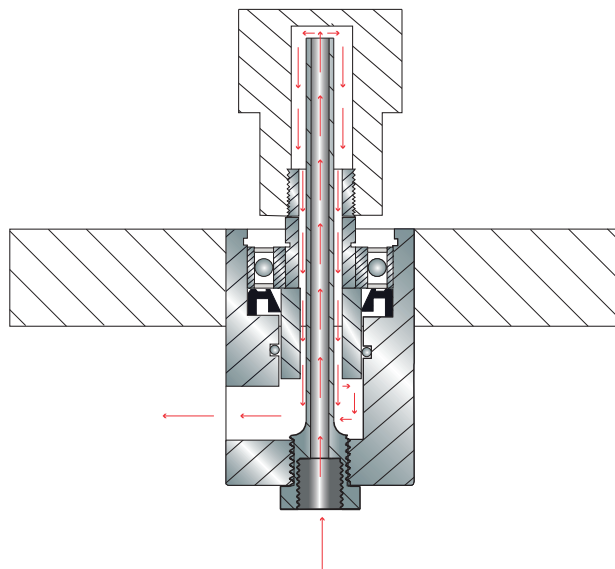


Rotating cooling plug
 Fuente de refrigeración rotativa
 Obrotowy system chłodzenia
 Fonte de refrigeração rotativa
 Systeme de refroidissement rotative



Temp. C: 0-90° C. R. P. M. : 0-500.

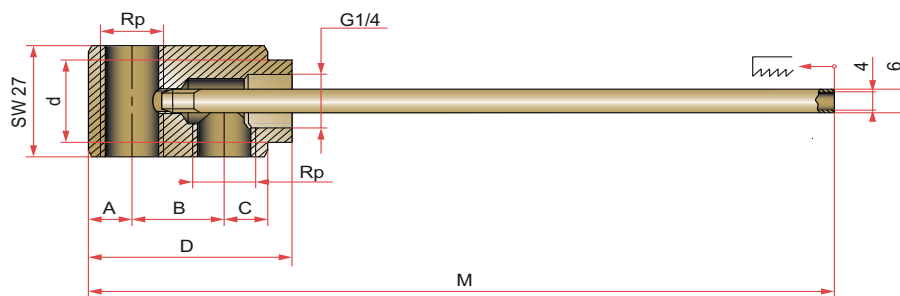
L	c	b	a	m	REF.
200	16	40	50	G1/4	BR96/ 1/4
				G3/8	BR96/ 3/8



BR485



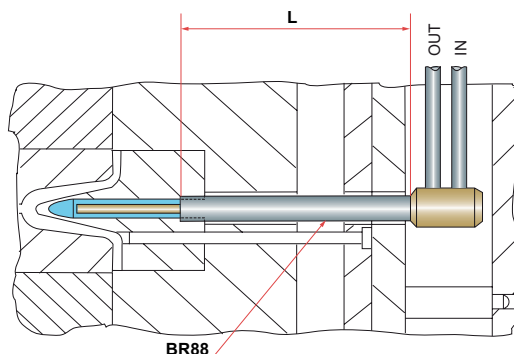
Cooling plug
Fuente de refrigeración
System chłodzenia
Fonte de refrigeração
Systeme de refroidissement



Mat. : Brass.

Rp	M	A	B	C	D	d	L*	REF.
G1/4	356	9	19	9	42	20	50	BR485-1/4
							100	
							150	
							175	
							200	
							250	
G1/8	356	9	19	9	42	20	50	BR485-1/8
							100	
							150	
							175	
							200	
							250	

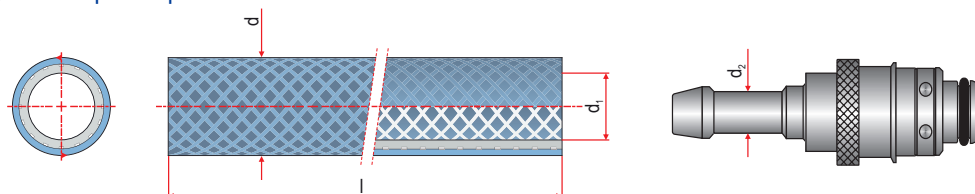
8



L	REF.
50	BR88/ 1/4"x 50
75	BR88/ 1/4"x 75
100	BR88/ 1/4"x100
150	BR88/ 1/4"x150
200	BR88/ 1/4"x200
250	BR88/ 1/4"x250
300	BR88/ 1/4"x300

BR1814

Hosepipe
Manguera
Wąż do systemu chłodzącego
Mangueira
Tuyau PVC pour liquide de refroidissement

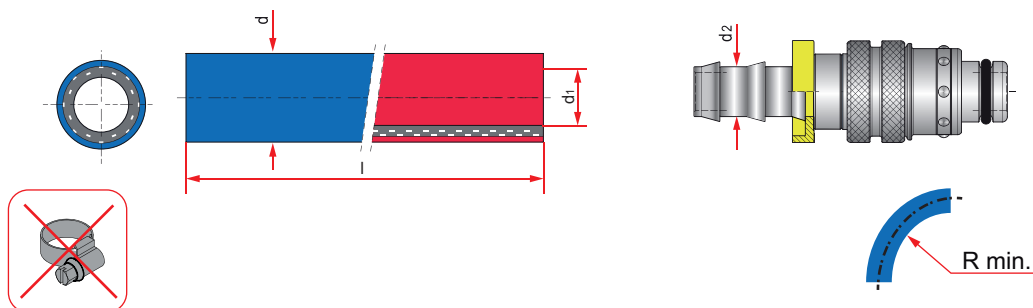


Mat. : PVC. Maximum pressure: 12 bar. Maximum temperature: 60° C.

d	d1	d2	l	Colour	REF.
16	10	10	50	Blue	BR1814/10/50/B
				Red	BR1814/10/50/R
19	12	12,5		Blue	BR1814/12/50/B
				Red	BR1814/12/50/R

BR1815

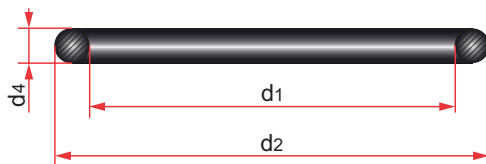
Quick - t coolant hose
Manguera de refrigeración, conexión rápida
W do systemu chłodzącego do z cz Szybkoblokuj cych
Mangueira de refrigeração com sistema PL
Tuyau PVC pour liquide de refroidissement



Mat: Synthetic rubber/caucho sintético Water/Agua Oil/Aceite Air/Aire- P. max. = 28 bar T. max. = 90°C

R min.	d	d ₁	d ₂	l	Colour	REF.
80	16	9,5	10	...mts.	Blue	BR1815/10/B
					Red	BR1815/10/R
90	20	12,7	13		Blue	BR1815/13/B
					Red	BR1815/13/R

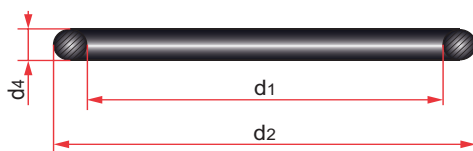
O-ring seal
Junta tórica
O-ring
Vedante
Anneau torique



Mat. : NBR

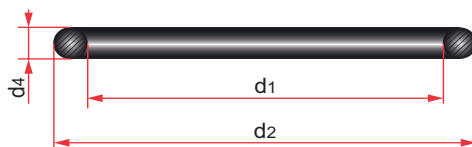
d2	d1	d4	REF.
5,00	3,00	1,00	BR2130/03,00x1,00
6,50		1,75	BR2130/03,00x1,75
7,20	3,40	1,90	BR2130/03,40x1,90
7,10	3,50	1,80	BR2130/03,50x1,80
6,00	4,00	1,00	BR2130/04,00x1,00
8,00		2,00	BR2130/04,00x2,00
9,00		2,50	BR2130/04,00x2,50
10,00		3,00	BR2130/04,00x3,00
8,00	4,20	1,90	BR2130/04,20x1,90
	5,00	1,50	BR2130/05,00x1,50
9,00	5,00	2,00	BR2130/05,00x2,00
10,00		2,50	BR2130/05,00x2,50
8,00		6,00	1,00
9,00	6,00	1,50	BR2130/06,00x1,50
10,00		2,00	BR2130/06,00x2,00
11,00		2,50	BR2130/06,00x2,50
13,00		3,50	BR2130/06,00x3,50
10,00	6,50	1,75	BR2130/06,50x1,75
10,31	6,75	1,78	BR2130/06,75x1,78
10,00	7,00	1,50	BR2130/07,00x1,50
		2,00	BR2130/07,00x2,00
		2,50	BR2130/07,00x2,50
		3,00	BR2130/07,00x3,00
11,00	7,20	1,90	BR2130/07,20x1,90
12,50	7,50	2,50	BR2130/07,50x2,50
14,50		3,50	BR2130/07,50x3,50
14,58	7,52	3,53	BR2130/07,52x3,53
11,21	7,65	1,78	BR2130/07,65x1,78
10,78	7,74	1,50	BR2130/07,74x1,52
11,40	7,80	1,80	BR2130/07,80x1,80
12,64	7,92	2,36	BR2130/07,92x2,36
11,00	8,00	1,50	BR2130/08,00x1,50
		2,00	BR2130/08,00x2,00

d2	d1	d4	REF.	
13,00	8,00	2,50	BR2130/08,00x2,50	
14,00		3,00	BR2130/08,00x3,00	
11,00	9,00	1,00	BR2130/09,00x1,00	
12,00		1,50	BR2130/09,00x1,50	
13,00		2,00	BR2130/09,00x2,00	
13,50		2,25	BR2130/09,00x2,25	
14,00		2,50	BR2130/09,00x2,50	
13,00		10,00	1,50	BR2130/10,00x1,50
14,00	10,00	2,00	BR2130/10,00x2,00	
15,00		2,50	BR2130/10,00x2,50	
15,40		2,70	BR2130/10,00x2,70	
16,00		3,00	BR2130/10,00x3,00	
16,40		3,20	BR2130/10,00x3,20	
18,00		4,00	BR2130/10,00x4,00	
14,38		10,82	1,78	BR2130/10,82x1,78
15,00		11,00	2,00	BR2130/11,00x2,00
16,00	2,50		BR2130/11,00x2,50	
17,00	3,00		BR2130/11,00x3,00	
18,00	3,50		BR2130/11,00x3,50	
14,67	11,11	1,78	BR2130/11,11x1,78	
15,00	11,20	1,90	BR2130/11,20x1,90	
14,00		12,00	1,00	BR2130/12,00x1,00
15,00	12,00	1,50	BR2130/12,00x1,50	
15,60		1,80	BR2130/12,00x1,80	
16,00		2,00	BR2130/12,00x2,00	
17,00		2,50	BR2130/12,00x2,50	
18,00		3,00	BR2130/12,00x3,00	
20,00		4,00	BR2130/12,00x4,00	
17,50		12,10	2,70	BR2130/12,10x2,70
17,61		12,37	2,62	BR2130/12,37x2,62
16,00		12,40	1,80	BR2130/12,40x1,80
17,50		12,50	2,50	BR2130/12,50x2,50
17,00	13,00	2,00	BR2130/13,00x2,00	



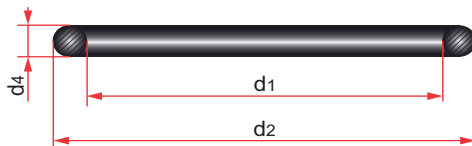
d2	d1	d4	REF.
18,00	13,00	2,50	BR2130/13,00x2,50
19,00		3,00	BR2130/13,00x3,00
20,00		3,50	BR2130/13,00x3,50
21,00		4,00	BR2130/13,00x4,00
18,34	13,10	2,62	BR2130/13,10x2,62
18,70	13,50	2,60	BR2130/13,50x2,60
17,00	14,00	1,50	BR2130/14,00x1,50
18,00		2,00	BR2130/14,00x2,00
19,00		2,50	BR2130/14,00x2,50
20,00		3,00	BR2130/14,00x3,00
22,00		4,00	BR2130/14,00x4,00
18,00	15	1,50	BR2130/15,00x1,50
19,00		2,00	BR2130/15,00x2,00
20,00		2,50	BR2130/15,00x2,50
21,00		3,00	BR2130/15,00x3,00
22,00		3,50	BR2130/15,00x3,50
18,80	15,20	1,80	BR2130/15,20x1,80
20,10	15,30	2,40	BR2130/15,30x2,40
19,16	15,60	1,78	BR2130/15,60x1,78
21,12	15,88	2,62	BR2130/15,88x2,62
19,00	16,00	1,50	BR2130/16,00x1,50
20,00		2,00	BR2130/16,00x2,00
20,50		2,25	BR2130/16,00x2,25
21,00		2,50	BR2130/16,00x2,50
22,00		3,00	BR2130/16,00x3,00
24,00		4,00	BR2130/16,00x4,00
25,00		4,50	BR2130/16,00x4,50
19,30	16,10	1,60	BR2130/16,10x1,60
23,10	16,30	3,40	BR2130/16,30x3,40
22,30	16,90	2,70	BR2130/16,90x2,70
21,00	17,00	2,00	BR2130/17,00x2,00
22,00		2,50	BR2130/17,00x2,50
23,00		3,00	BR2130/17,00x3,00

d2	d1	d4	REF.
25,00	17,00	4,00	BR2130/17,00x4,00
20,73	17,17	1,78	BR2130/17,17x1,78
22,10	17,30	2,40	BR2130/17,30x2,40
24,50		3,60	BR2130/17,30x3,60
22,50	17,50	2,50	BR2130/17,50x2,50
25,50		4,00	BR2130/17,50x4,00
23,10	17,86	2,62	BR2130/17,86x2,62
20,00	18,00	1,00	BR2130/18,00x1,00
21,00		1,50	BR2130/18,00x1,50
22,00		2,00	BR2130/18,00x2,00
23,00		2,50	BR2130/18,00x2,50
24,00		3,00	BR2130/18,00x3,00
25,00		3,50	BR2130/18,00x3,50
26,00		4,00	BR2130/18,00x4,00
25,50	18,30	3,60	BR2130/18,30x3,60
25,80	18,40	3,70	BR2130/18,40x3,70
25,70	18,64	3,53	BR2130/18,64x3,53
23,96	18,72	2,62	BR2130/18,72x2,62
22,60	19,00	1,80	BR2130/19,00x1,80
23,00		2,00	BR2130/19,00x2,00
24,00		2,50	BR2130/19,00x2,50
25,00		3,00	BR2130/19,00x3,00
27,00		4,00	BR2130/19,00x4,00
23,50	19,50	2,00	BR2130/19,50x2,00
26,60	19,60	3,50	BR2130/19,60x3,50
27,00	19,80	3,60	BR2130/19,80x3,60
22,00	20,00	1,00	BR2130/20,00x1,00
23,00		1,50	BR2130/20,00x1,50
24,00		2,00	BR2130/20,00x2,00
25,00		2,50	BR2130/20,00x2,50
26,00		3,00	BR2130/20,00x3,00
26,50		3,25	BR2130/20,00x3,25
27,00		3,50	BR2130/20,00x3,50



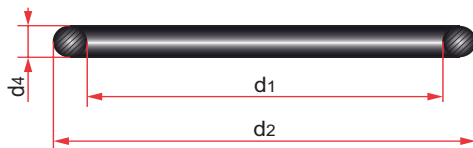
d2	d1	d4	REF.	
25,50	20,50	2,50	BR2130/20,50x2,50	
27,50		3,50	BR2130/20,50x3,50	
25,00	21,00	2,00	BR2130/21,00x2,00	
27,00		3,00	BR2130/21,00x3,00	
28,00		3,50	BR2130/21,00x3,50	
29,00		4,00	BR2130/21,00x4,00	
26,50	21,50	2,50	BR2130/21,50x2,50	
25,20	22,00	1,60	BR2130/22,00x1,60	
26,00		2,00	BR2130/22,00x2,00	
27,00		2,50	BR2130/22,00x2,50	
28,00		3,00	BR2130/22,00x3,00	
29,00		3,50	BR2130/22,00x3,50	
27,46		22,22	2,62	BR2130/22,22x2,62
26,50		22,50	2,00	BR2130/22,50x2,00
27,00	23,00		BR2130/23,00x2,00	
28,00		2,50	BR2130/23,00x2,50	
29,00		3,00	BR2130/23,00x3,00	
30,20		3,60	BR2130/23,00x3,60	
31,00		4,00	BR2130/23,00x4,00	
28,00		24,00	2,00	BR2130/24,00x2,00
29,00			2,50	BR2130/24,00x2,50
30,00	3,00		BR2130/24,00x3,00	
31,00	3,50		BR2130/24,00x3,50	
32,00	4,00		BR2130/24,00x4,00	
31,80	24,60		3,60	BR2130/24,60x3,60
32,05	24,99		3,50	BR2130/24,99x3,53
29,00	25,00	2,00	BR2130/25,00x2,00	
30,00		2,50	BR2130/25,00x2,50	
31,00		3,00	BR2130/25,00x3,00	
32,00		3,50	BR2130/25,00x3,50	
32,20		3,60	BR2130/25,00x3,60	
28,68		25,12	1,78	BR2130/25,12x1,78
30,10		25,30	2,40	BR2130/25,30x2,40

d2	d1	d4	REF.	
28,50	25,50	1,50	BR2130/25,50x1,50	
30,00	26,00	2,00	BR2130/26,00x2,00	
31,00		2,50	BR2130/26,00x2,50	
32,00		3,00	BR2130/26,00x3,00	
30,20	26,70	1,75	BR2130/26,70x1,75	
31,00	27,00	2,00	BR2130/27,00x2,00	
32,00		2,50	BR2130/27,00x2,50	
33,00		3,00	BR2130/27,00x3,00	
30,50	27,30	1,60	BR2130/27,30x1,60	
33,00	27,50	2,75	BR2130/27,50x2,75	
34,50		3,50	BR2130/27,50x3,50	
32,00		28,00	2,00	BR2130/28,00x2,00
33,00	2,50		BR2130/28,00x2,50	
34,00	3,00		BR2130/28,00x3,00	
35,00	3,50		BR2130/28,00x3,50	
36,00	4,00		BR2130/28,00x4,00	
32,50	28,50		2,00	BR2130/28,50x2,00
33,74			2,62	BR2130/28,50x2,62
34,00	29,00	2,50	BR2130/29,00x2,50	
33,00		2,00	BR2130/29,00x2,00	
35,20	29,20	3,00	BR2130/29,20x3,00	
36,50	29,30	3,60	BR2130/29,30x3,60	
36,80	29,74	3,53	BR2130/29,74x3,53	
35,06	29,82	2,62	BR2130/29,82x2,62	
35,00	30,00	2,50	BR2130/30,00x2,50	
36,00		3,00	BR2130/30,00x3,00	
38,00		4,00	BR2130/30,00x4,00	
		30,80	3,60	BR2130/30,80x3,60
35,00	31,00	2,00	BR2130/31,00x2,00	
36,00		2,50	BR2130/31,00x2,50	
37,00		3,00	BR2130/31,00x3,00	
38,00		3,50	BR2130/31,00x3,50	
34,88		31,34	1,77	BR2130/31,34x1,77



d2	d1	d4	REF.
38,40	31,34	3,53	BR2130/31,34x3,53
34,98	31,42	1,78	BR2130/31,42x1,78
38,50	31,50	3,50	BR2130/31,50x3,50
36,00	32,00	2,00	BR2130/32,00x2,00
39,00		3,50	BR2130/32,00x3,50
37,00	33,00	2,00	BR2130/33,00x2,00
38,00		2,50	BR2130/33,00x2,50
41,00		4,00	BR2130/33,00x4,00
39,00	34,00	2,50	BR2130/34,00x2,50
40,00		3,00	BR2130/34,00x3,00
39,00	35,00	2,00	BR2130/35,00x2,00
41,00		3,00	BR2130/35,00x3,00
41,00	36,00	2,50	BR2130/36,00x2,50
42,00		3,00	BR2130/36,00x3,00
41,50	36,20	2,65	BR2130/36,20x2,65
40,00	37,00	1,50	BR2130/37,00x1,50
41,00		2,00	BR2130/37,00x2,00
42,00		2,50	BR2130/37,00x2,50
43,00		3,00	BR2130/37,00x3,00
44,75	37,69	3,53	BR2130/37,69x3,53
42,00	38,00	2,00	BR2130/38,00x2,00
44,00		3,00	BR2130/38,00x3,00
45,00		3,50	BR2130/38,00x3,50
44,00	39,00	2,50	BR2130/39,00x2,50
45,00		3,00	BR2130/39,00x3,00
46,00		3,50	BR2130/39,00x3,50
44,58	39,34	2,62	BR2130/39,34x2,62
45,00	39,50	2,75	BR2130/39,50x2,75
44,00	40,00	2,00	BR2130/40,00x2,00
47,00		3,50	BR2130/40,00x3,50
47,00	41,00	3,00	BR2130/41,00x3,00
51,00		5,00	BR2130/41,00x5,00
49,00	44,00	2,50	BR2130/44,00x2,50

d2	d1	d4	REF.
51,00	44,00	3,50	BR2130/44,00x3,50
50,00		3,00	BR2130/44,00x3,00
	45,00	2,50	BR2130/45,00x2,50
51,00		3,00	BR2130/45,00x3,00
52,00		3,50	BR2130/45,00x3,50
50,00	46,00	2,00	BR2130/46,00x2,00
51,00		2,50	BR2130/46,00x2,50
52,00		3,00	BR2130/46,00x3,00
52,50	46,50		BR2130/46,50x3,00
57,65	46,99	5,33	BR2130/46,99x5,33
54,50	47,50	3,50	BR2130/47,50x3,50
55,50		4,00	BR2130/47,50x4,00
60,00	48,00	6,00	BR2130/48,00x6,00
54,00	49,00	2,50	BR2130/49,00x2,50
56,00		3,50	BR2130/49,00x3,50
	50,00	3,00	BR2130/50,00x3,00
57,00		3,50	BR2130/50,00x3,50
	52,00	2,50	BR2130/52,00x2,50
59,00	53,00	3,00	BR2130/53,00x3,00
64,00	53,34	5,33	BR2130/53,34x5,33
58,00	55,00	1,50	BR2130/55,00x1,50
59,00		2,00	BR2130/55,00x2,00
61,00		3,00	BR2130/55,00x3,00
	55,80	2,60	BR2130/55,80x2,60
59,20	56,20	1,50	BR2130/56,20x1,50
61,20	56,20	2,50	BR2130/56,20x2,50
64,00	57,00	3,50	BR2130/57,00x3,50
62,00	58,00	2,00	BR2130/58,00x2,00
64,00		3,00	BR2130/58,00x3,00
65,50	58,50	3,50	BR2130/58,50x3,50
65,00	59,00	3,00	BR2130/59,00x3,00
66,00	60,00		BR2130/60,00x3,00
67,00	60,00	3,50	BR2130/60,00x3,50



d2	d1	d4	REF.
68,00	60,00	4,00	BR2130/60,00x4,00
	61,00	3,50	BR2130/61,00x3,50
66,00	62,00	2,00	BR2130/62,00x2,00
68,00		3,00	BR2130/62,00x3,00
71,00	65,00	3,00	BR2130/65,00x3,00
73,00	66,00		3,50
76,70	66,04	5,33	BR2130/66,04x5,33
75,00	68,00	3,50	BR2130/68,00x3,50
80,00	70,00	5,00	BR2130/70,00x5,00
75,00		2,50	BR2130/70,00x2,50

d2	d1	d4	REF.
77,00	71,00	3,00	BR2130/71,00x3,00
79,00	73,00		BR2130/73,00x3,00
81,00	75,00	3,50	BR2130/75,00x3,00
82,00			BR2130/75,00x3,50
84,00	77,00	2,50	BR2130/77,00x3,50
83,00	78,00		BR2130/78,00x2,50
85,00		3,50	BR2130/78,00x3,50
86,00	80,00	3,00	BR2130/80,00x3,00
89,00	85,00	2,00	BR2130/85,00x2,00
93,00	87,00	3,00	BR2130/87,00x3,00

Optimal solution

Ø

space-saving

Ø = d1

more safety

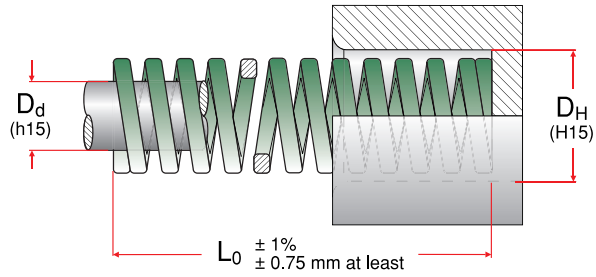
Ø < d1

INSTALLATION

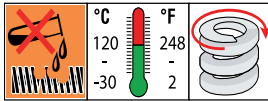
d4	B	H1	H2
1.5	1.9	1.20	1.3
1.6	2.2	1.25	1.4
1.8	2.6	1.40	1.5
2.0	2.6	1.60	1.7
2.4	3.1	1.90	2.1
2.5	3.2	2.00	2.2
2.6	3.6	2.10	2.2
3.0	3.9	2.40	2.6
4.0	5.2	3.20	3.5

(F) can be max. 3% smaller than d2 so that the O-ring seal is securely fixed in the plate.
 (F) Puede ser hasta un max. de 3% mas pequeño que d2 para la fijación de la junta.

Light load spring
 Muelles de carga ligera
 Sprężyna do lekkich obciążeń
 Mola carga ligera
 Ressort charge legere

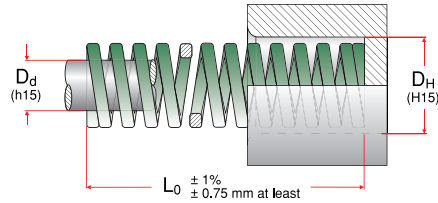


ISO 10243

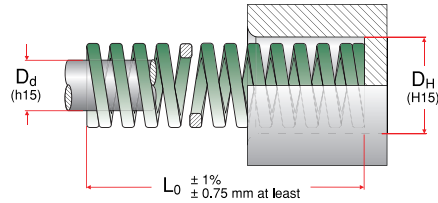


D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant ±10%	A		B		C		D		E approx. Do not use
				25%L ₀ +3.000.000	N	30%L ₀ -1.500.000	N	35%L ₀ 300-500.000	N	40%L ₀ 100-200.000	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
10	5	25	10	6,3	63	7,5	75	8,8	88	10	100	13,5
		32	8,5	8	68	9,6	82	11,2	95	12,8	109	17,5
		38	6,8	9,5	65	11,4	78	13,3	90	15,2	103	20,8
		44	6	11	66	13,2	79	15,4	92	17,6	106	23,9
		51	5	12,8	64	15,3	77	17,9	89	20,4	102	28,9
		64	4,3	16	69	19,2	83	22,4	96	25,6	110	36,1
		76	3,2	19	61	22,8	73	26,6	85	30,4	97	43,2
		305	1,1	76,3	84	91,5	101	107	117	122	134	178
12,5	6,3	25	17,9	6,3	113	7,5	134	8,8	157	10	179	13,2
		32	16,4	8	131	9,6	157	11,2	184	12,8	210	18
		38	13,6	9,5	129	11,4	155	13,3	181	15,2	207	21
		44	12,1	11	133	13,2	160	15,4	186	17,6	213	24
		51	11,4	12,8	146	15,3	174	17,9	203	20,4	233	28,7
		64	9,3	16	149	19,2	179	22,4	208	25,6	238	35,8
		76	7,1	19	135	22,8	162	26,6	189	30,4	216	42,7
		89	5,4	22,3	120	26,7	144	31,2	168	35,6	192	50,4
		102	4,1	25,5	105	30,6	125	35,7	146	40,8	167	58,4
		305	1,4	76,3	107	91,5	128	107	149	122	171	172
16	8	25	23,4	6,3	147	7,5	176	8,8	205	10	234	12,6

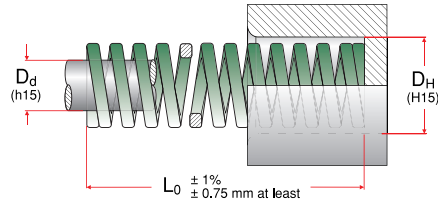
How to order: BRV-D_H x L₀
 Forma de pedido: BRV-D_H x L₀



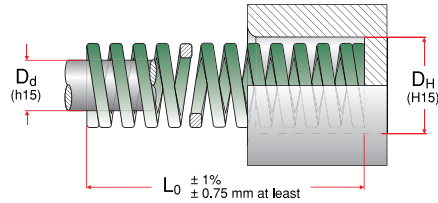
D_H Hole Diameter	D_d Rod Diameter	L₀ Free Length	R Spring Constant ±10%	A 25%L ₀ +3.000.000		B 30%L ₀ -1.500.000		C 35%L ₀ 300-500.000		D 40%L ₀ 100-200.000		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
16	8	32	22,9	8	183	9,6	220	11,2	256	12,8	293	16,4
		38	19,3	9,5	183	11,4	220	13,3	257	15,2	293	19,7
		44	17,1	11	188	13,2	226	15,4	263	17,6	301	22,5
		51	15,7	12,8	201	15,3	240	17,9	280	20,4	320	26,3
		64	10,7	16	171	19,2	205	22,4	240	25,6	274	33,3
		76	10	19	190	22,8	228	26,6	266	30,4	304	40,2
		89	8,6	22,3	192	26,7	230	31,2	268	35,6	306	47,6
		102	7,8	25,5	199	30,6	239	35,7	278	40,8	318	55,4
		115	6,6	28,8	190	34,5	228	40,3	266	46	304	60,8
		305	2,5	76,3	191	91,5	229	107	267	122	305	165
20	10	25	55,8	6,3	352	7,5	419	8,8	488	10	558	12,1
		32	45	8	360	9,6	432	11,2	504	12,8	576	15,3
		38	33,3	9,5	316	11,4	380	13,3	443	15,2	506	18,9
		44	30	11	330	13,2	396	15,4	462	17,6	528	21,5
		51	24,5	12,8	314	15,3	375	17,9	437	20,4	500	25
		64	20	16	320	19,2	384	22,4	448	25,6	512	31,1
		76	16	19	304	22,8	365	26,6	426	30,4	486	37,3
		89	14	22,3	312	26,7	374	31,2	436	35,6	498	44,5
		102	12	25,5	306	30,6	367	35,7	428	40,8	490	51,1
		115	10,9	28,8	314	34,5	376	40,3	439	46	501	58,2
		127	9,5	31,8	302	38,1	362	44,5	422	50,8	483	64,9
		139	8,4	35	294	42	353	48,7	409	56	470	71,5
		152	7,5	38	285	45,6	342	53,2	399	60,8	456	78,8



D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A $25\%L_0$ $+3.000.000$		B $30\%L_0$ $-1.500.000$		C $35\%L_0$ $300-500.000$		D $40\%L_0$ $100-200.000$		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
20	10	305	4	76,3	305	91,5	366	107	427	122	488	157
25	12,5	25	100	6,3	630	7,5	750	8,8	875	10	1000	11,9
		32	80,3	8	642	9,6	771	11,2	899	12,8	1028	16
		38	62	9,5	589	11,4	707	13,3	825	15,2	942	18,3
		44	52,9	11	582	13,2	698	15,4	815	17,6	931	21,4
		51	44	12,8	563	15,3	673	17,9	785	20,4	898	24,9
		64	35,2	16	563	19,2	676	22,4	788	25,6	901	31,4
		76	28	19	532	22,8	638	26,6	745	30,4	851	37,5
		89	24	22,3	535	26,7	641	31,2	748	35,6	854	43,5
		102	21,1	25,5	538	30,6	646	35,7	753	40,8	861	51,1
		115	18,7	28,8	539	34,5	645	40,3	753	46	860	58,1
		127	16,7	31,8	531	38,1	636	44,5	742	50,8	848	64,1
		139	15,3	35	536	42	643	48,7	744	56	857	70,4
		152	14	38	532	45,6	638	53,2	745	60,8	851	77,1
		178	12,5	44,5	556	53,4	668	62,3	779	71,2	890	93,1
203	10,4	50,8	528	60,9	633	71,1	739	81,2	844	103		
305	7	76,3	534	91,5	641	107	747	122	854	156		
32	16	38	94	9,5	893	11,4	1072	13,3	1250	15,2	1429	18,3
		44	79,5	11	875	13,2	1049	15,4	1224	17,6	1399	21,5
		51	67	12,8	858	15,3	1025	17,9	1196	20,4	1367	25,5
		64	53	16	848	19,2	1018	22,4	1187	25,6	1357	31,9
		76	44	19	836	22,8	1003	26,6	1170	30,4	1338	38,6
		89	37,2	22,3	830	26,7	993	31,2	1159	35,6	1324	46,5

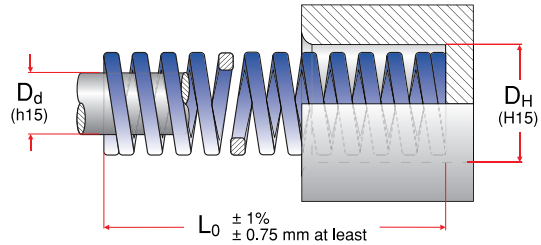


D_H Hole Diameter	D_d Rod Diameter	L₀ Free Length	R Spring Constant ±10%	A 25%L ₀ +3.000.000		B 30%L ₀ -1.500.000		C 35%L ₀ 300-500.000		D 40%L ₀ 100-200.000		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
32	16	102	32	25,5	816	30,6	979	35,7	1142	40,8	1306	53,2
		115	29	28,8	835	34,5	1001	40,3	1167	46	1334	60
		127	25	31,8	795	38,1	953	44,5	1111	50,8	1270	66,7
		139	23	35	805	42	966	48,7	1119	56	1288	71,8
		152	21,5	38	817	45,6	980	53,2	1144	60,8	1307	78,5
		178	18,2	44,5	810	53,4	972	62,3	1134	71,2	1296	94,4
		203	15,8	50,8	803	60,9	962	71,1	1123	81,2	1283	107
		254	12,5	63,5	794	76,2	953	88,9	1111	102	1270	136
		305	10,3	76,3	786	91,5	942	107	1100	122	1257	163
40	20	51	92	12,8	1178	15,3	1408	17,9	1642	20,4	1877	25,5
		64	73	16	1168	19,2	1402	22,4	1635	25,6	1869	31,4
		76	63	19	1197	22,8	1436	26,6	1676	30,4	1915	37,8
		89	51	22,3	1137	26,7	1362	31,2	1589	35,6	1816	44,3
		102	43	25,5	1097	30,6	1316	35,7	1535	40,8	1754	50,7
		115	39,6	28,8	1140	34,5	1366	40,3	1594	46	1822	58,1
		127	37	31,8	1177	38,1	1410	44,5	1645	50,8	1880	64,6
		139	32	35	1120	42	1344	48,7	1557	56	1792	70,1
		152	28	38	1064	45,6	1277	53,2	1490	60,8	1702	76,6
		178	25,2	44,5	1121	53,4	1346	62,3	1570	71,2	1794	90,4
		203	22,7	50,8	1153	60,9	1382	71,1	1613	81,2	1843	102
		254	17	63,5	1080	76,2	1295	88,9	1511	102	1727	129
		305	14,8	76,3	1129	91,5	1354	107	1580	122	1806	156
50	25	64	156	16	2496	19,2	2995	22,4	3494	25,6	3994	31

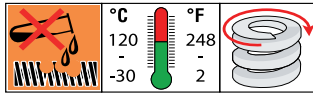


D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A 25% L_0 +3.000.000		B 30% L_0 -1.500.000		C 35% L_0 300-500.000		D 40% L_0 100-200.000		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
50	25	76	125	19	2375	22,8	2850	26,6	3325	30,4	3800	37,2
		89	109	22,3	2431	26,7	2910	31,2	3395	35,6	3880	43,6
		102	94	25,5	2397	30,6	2876	35,7	3356	40,8	3835	50,3
		115	81	28,8	2333	34,5	2795	40,3	3260	46	3726	58,1
		127	71	31,8	2258	38,1	2705	44,5	3156	50,8	3607	63,7
		139	66,5	35	2328	42	2793	48,7	3235	56	3724	69,5
		152	60	38	2280	45,6	2736	53,2	3192	60,8	3648	76,5
		178	52	44,5	2314	53,4	2777	62,3	3240	71,2	3702	91,9
		203	44	50,8	2235	60,9	2680	71,1	3126	81,2	3573	105
		254	35	63,5	2223	76,2	2667	88,9	3112	102	3556	131
		305	28,5	76,3	2175	91,5	2608	107	3042	122	3477	155
63	38	76	189	19	3591	22,8	4309	26,6	5027	30,4	5746	36,5
		89	158	22,3	3523	26,7	4219	31,2	4922	35,6	5625	43,4
		102	131	25,5	3341	30,6	4009	35,7	4677	40,8	5345	49,7
		115	116	28,8	3341	34,5	4002	40,3	4669	46	5336	55,6
		127	103	31,8	3275	38,1	3924	44,5	4578	50,8	5232	62,7
		152	84,3	38	3203	45,6	3844	53,2	4485	60,8	5125	77,1
		178	71,5	44,5	3182	53,4	3818	62,3	4454	71,2	5091	92,2
		203	61,7	50,8	3134	60,9	3758	71,1	4384	81,2	5010	103
		254	47	63,5	2985	76,2	3581	88,9	4178	102	4775	130
		305	38,2	76,3	2915	91,5	3495	107	4078	122	4660	157

Medium load spring
 Muelles de carga media
 Sprężyna do średnich obciążeń
 Mola carga media
 Ressort charge moyenne



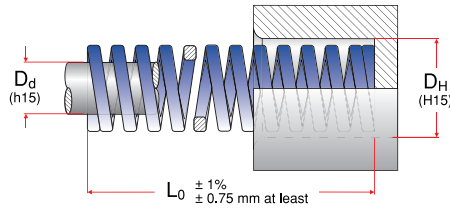
ISO 10243



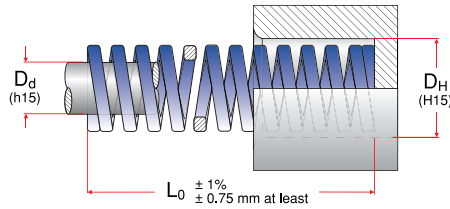
D_H Hole Diameter	D_d Rod Diameter	L₀ Free Length	R Spring Constant ±10%	A 25%L ₀ +3.000.000		B 30%L ₀ -1.500.000		C 33.75%L ₀ 300-500.000		D 37.5%L ₀ 100-200.000		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
10	5	25	16	6,3	101	7,5	120	8,4	135	9,4	150	10,2
		32	13	8	104	9,6	125	10,8	140	12	156	14,2
		38	11,9	9,5	113	11,4	136	12,8	153	14,3	170	16,8
		44	10,3	11	113	13,2	136	14,9	153	16,5	170	19,4
		51	8,9	12,8	114	15,3	136	17,2	153	19,1	170	23,4
		64	7,5	16	120	19,2	144	21,6	162	24	180	28,2
		76	5,3	19	101	22,8	121	25,7	136	28,5	151	34,2
		305	1,6	76,3	122	91,5	146	103	165	114	183	134
12,5	6,3	25	30	6,3	189	7,5	225	8,4	253	9,4	282	11,9
		32	24,8	8	198	9,6	238	10,8	268	12	298	16,2
		38	21,4	9,5	203	11,4	244	12,8	274	14,3	306	18,7
		44	18,5	11	204	13,2	244	14,9	275	16,5	305	21,3
		51	15,5	12,8	198	15,3	237	17,2	267	19,1	296	25,6
		64	12,1	16	194	19,2	232	21,6	261	24	290	32,4
		76	10,2	19	194	22,8	233	25,7	262	28,5	291	39
		89	8,4	22,3	187	26,7	224	30	252	33,4	281	45,9
		102	6,3	25,5	161	30,6	193	34,4	217	38,3	241	52,3
		305	2,1	76,3	160	91,5	192	103	216	114	240	153
16	8	25	49,4	6,3	311	7,5	371	8,4	417	9,4	464	10,5
		32	37,1	8	297	9,6	356	10,8	401	12	445	13,2

How to order: BRS-D_H x L₀
 Forma de pedido: BRS-D_H x L₀

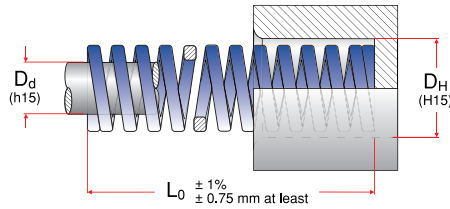
9



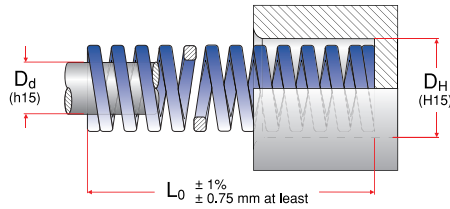
D_H Hole Diameter	D_d Rod Diameter	L₀ Free Length	R Spring Constant ±10%	A 25%L ₀ +3.000.000		B 30%L ₀ -1.500.000		C 33.75%L ₀ 300-500.000		D 37.5%L ₀ 100-200.000		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
16	8	38	33,9	9,5	322	11,4	386	12,8	435	14,3	485	17,2
		44	30	11	330	13,2	396	14,9	446	16,5	495	19,4
		51	26,4	12,8	338	15,3	404	17,2	454	19,1	504	24,2
		64	20,5	16	328	19,2	394	21,6	443	24	492	29,2
		76	17,8	19	338	22,8	406	25,7	457	28,5	507	36,3
		89	15,2	22,3	339	26,7	406	30	457	33,4	508	41,7
		102	13,5	25,5	344	30,6	413	34,4	465	38,3	517	48,9
		115	11,8	28,8	340	34,5	407	38,8	458	43,1	509	53,1
		305	4,8	76,3	366	91,5	439	103	494	114	549	142
20	10	25	98	6,3	617	7,5	735	8,4	827	9,4	921	10,5
		32	72,6	8	581	9,6	697	10,8	784	12	871	13,9
		38	56	9,5	532	11,4	638	12,8	717	14,3	801	16,6
		44	47,5	11	523	13,2	627	14,9	705	16,5	784	18,8
		51	41,7	12,8	534	15,3	638	17,2	717	19,1	796	23,1
		64	32,3	16	517	19,2	620	21,6	698	24	775	27,5
		76	25,1	19	477	22,8	572	25,7	644	28,5	715	33,8
		89	22	22,3	491	26,7	587	30	661	33,4	735	39,7
		102	19,8	25,5	505	30,6	606	34,4	682	38,3	758	47,3
		115	18,1	28,8	521	34,5	624	38,8	703	43,1	780	52,5
		127	16,6	31,8	528	38,1	632	42,9	712	47,6	790	56,9
		139	15,1	35	529	42	634	46,9	708	52,5	793	62,1
		152	13,2	38	500	45,6	600	51,3	677	57	750	67,6
		305	6,1	76,3	465	91,5	558	103	628	114	698	143
25	12,5	25	147	6,3	926	7,5	1103	8,4	1240	9,4	1382	10,2



D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A		B		C		D		E approx. Do not use
				$25\%L_0$ +3.000.000	N	$30\%L_0$ -1.500.000	N	$33.75\%L_0$ 300-500.000	N	$37.5\%L_0$ 100-200.000	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
25	12,5	32	118	8	944	9,6	1133	10,8	1274	12	1416	13,7
		38	93	9,5	884	11,4	1060	12,8	1193	14,3	1330	15,7
		44	80,8	11	889	13,2	1067	14,9	1200	16,5	1333	18,2
		51	68,6	12,8	878	15,3	1050	17,2	1181	19,1	1310	21,7
		64	53	16	848	19,2	1018	21,6	1145	24	1272	26
		76	43,2	19	821	22,8	985	25,7	1108	28,5	1231	32,3
		89	38,2	22,3	852	26,7	1020	30	1147	33,4	1276	38
		102	33	25,5	842	30,6	1010	34,4	1136	38,3	1264	43
		115	28	28,8	806	34,5	966	38,8	1087	43,1	1207	48,6
		127	25,9	31,8	824	38,1	987	42,9	1110	47,6	1233	53,7
		139	23,2	35	812	42	974	46,9	1088	52,5	1218	59,4
		152	20,8	38	790	45,6	948	51,3	1067	57	1186	63,8
		178	17,8	44,5	792	53,4	951	60,1	1069	66,8	1189	76,6
		203	15,8	50,8	803	60,9	962	68,5	1082	76,1	1202	88,4
305	10,2	76,3	778	91,5	933	103	1050	114	1167	135		
32	16	38	185	9,5	1758	11,4	2109	12,8	2373	14,3	2646	16,3
		44	158	11	1738	13,2	2086	14,9	2346	16,5	2607	18,9
		51	134	12,8	1715	15,3	2050	17,2	2306	19,1	2559	23,1
		64	99	16	1584	19,2	1901	21,6	2138	24	2376	28,5
		76	80,5	19	1530	22,8	1835	25,7	2065	28,5	2294	34,2
		89	69,1	22,3	1541	26,7	1845	30	2076	33,4	2308	40,4
		102	58,8	25,5	1499	30,6	1799	34,4	2024	38,3	2252	48
		115	51,5	28,8	1483	34,5	1777	38,8	1999	43,1	2220	54,3
		127	44,8	31,8	1425	38,1	1707	42,9	1920	47,6	2132	59,2

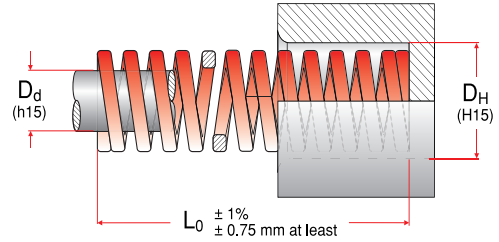


D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A 25% L_0 +3.000.000		B 30% L_0 -1.500.000		C 33.75% L_0 300-500.000		D 37.5% L_0 100-200.000		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
32	16	139	42,3	35	1481	42	1777	46,9	1984	52,5	2221	65,3
		152	37,8	38	1436	45,6	1724	51,3	1939	57	2155	73
		178	32,5	44,5	1446	53,4	1736	60,1	1952	66,8	2171	84,5
		203	28,9	50,8	1468	60,9	1760	68,5	1980	76,1	2199	96,9
		254	21,4	63,5	1359	76,2	1631	85,7	1835	95,3	2039	121
		305	18,3	76,3	1396	91,5	1674	103	1884	114	2094	147
40	20	51	182	12,8	2330	15,3	2785	17,2	3130	19,1	3476	21,4
		64	140	16	2240	19,2	2688	21,6	3024	24	3360	26,8
		76	108	19	2052	22,8	2462	25,7	2770	28,5	3078	32,7
		89	90,7	22,3	2023	26,7	2422	30	2724	33,4	3029	39
		102	81	25,5	2066	30,6	2479	34,4	2788	38,3	3102	44,1
		115	71,8	28,8	2068	34,5	2477	38,8	2787	43,1	3095	50,6
		127	62,7	31,8	1994	38,1	2389	42,9	2687	47,6	2985	55,9
		139	57,5	35	2013	42	2415	46,9	2697	52,5	3019	61,8
		152	51,6	38	1961	45,6	2353	51,3	2647	57	2941	67,5
		178	44,1	44,5	1962	53,4	2355	60,1	2649	66,8	2946	77,2
		203	36,7	50,8	1864	60,9	2235	68,5	2514	76,1	2793	91,8
		254	30,1	63,5	1911	76,2	2294	85,7	2580	95,3	2869	113
		305	24,6	76,3	1877	91,5	2251	103	2532	114	2814	138
50	25	64	209	16	3344	19,2	4013	21,6	4514	24	5016	28,2
		76	168	19	3192	22,8	3830	25,7	4309	28,5	4788	34,9
		89	140	22,3	3122	26,7	3738	30	4205	33,4	4676	39,2
		102	119	25,5	3035	30,6	3641	34,4	4097	38,3	4558	47,3

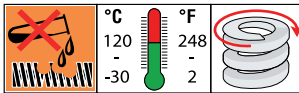


D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A $25\%L_0$ $+3.000.000$		B $30\%L_0$ $-1.500.000$		C $33.75\%L_0$ $300-500.000$		D $37.5\%L_0$ $100-200.000$		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
50	25	115	106	28,8	3053	34,5	3657	38,8	4114	43,1	4569	52,6
		127	97	31,8	3085	38,1	3696	42,9	4158	47,6	4617	59,8
		139	87	35	3045	42	3654	46,9	4081	52,5	4568	65,1
		152	80	38	3040	45,6	3648	51,3	4104	57	4560	70,8
		178	69,5	44,5	3093	53,4	3711	60,1	4175	66,8	4643	84,2
		203	59,8	50,8	3038	60,9	3642	68,5	4097	76,1	4551	96,5
		229	50,9	57,3	2917	68,7	3497	77,3	3934	85,9	4372	108
		254	43,9	63,5	2788	76,2	3345	85,7	3763	95,3	4184	122
		305	38,6	76,3	2945	91,5	3532	103	3973	114	4416	147
63	38	76	312	19	5928	22,8	7114	25,7	8003	28,5	8892	30,7
		89	260	22,3	5798	26,7	6942	30	7810	33,4	8684	36,5
		102	221	25,5	5636	30,6	6763	34,4	7608	38,3	8464	43,6
		115	187	28,8	5386	34,5	6452	38,8	7258	43,1	8060	48,9
		127	168	31,8	5342	38,1	6401	42,9	7201	47,6	7997	54,2
		152	136	38	5168	45,6	6202	51,3	6907	57	7752	65,7
		178	114	44,5	5073	53,4	6088	60,1	6849	66,8	7615	76,5
		203	100	50,8	5080	60,9	6090	68,5	6851	76,1	7610	88
		229	89,2	57,3	5111	68,7	6128	77,3	6894	85,9	7662	104
		254	78,4	63,5	4978	76,2	5974	85,7	6721	95,3	7472	112
		305	64,7	76,3	4937	91,5	5920	103	6660	114	7402	134

Heavy load spring
 Muelles de carga fuerte
 Sprężyna do wysokich obciążeń
 Mola carga forte
 Ressort charge forte

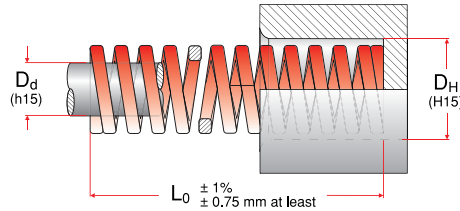


ISO 10243

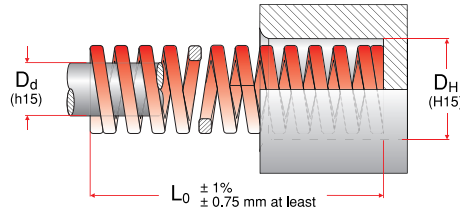


D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant ±10%	A		B		C		D		E approx. Do not use
				20%L ₀ +3.000.000	N	25%L ₀ ~1.500.000	N	27.5%L ₀ 300-500.000	N	30%L ₀ 100-200.000	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
10	5	25	22,1	5	111	6,3	139	6,9	152	7,5	166	9,2
		32	17,5	6,4	112	8	140	8,8	154	9,6	168	12,1
		38	17,1	7,6	130	9,5	162	10,5	179	11,4	195	13,2
		44	15	8,8	132	11	165	12,1	182	13,2	198	15,1
		51	12,8	10,2	131	12,8	164	14	180	15,3	196	19,5
		64	10,7	12,8	137	16	171	17,6	188	19,2	205	21,8
		76	7,5	15,2	114	19	143	20,9	157	22,8	171	27,9
		305	2,1	61	128	76,3	160	83,9	176	91,5	192	127
12,5	6,3	25	42,1	5	211	6,3	265	6,9	289	7,5	316	9,8
		32	33,2	6,4	212	8	266	8,8	292	9,6	319	13,6
		38	29,3	7,6	223	9,5	278	10,5	306	11,4	334	14,6
		44	24,6	8,8	216	11	271	12,1	298	13,2	325	18,1
		51	19,6	10,2	200	12,8	251	14	275	15,3	300	22,3
		64	15	12,8	192	16	240	17,6	264	19,2	288	27,3
		76	13,2	15,2	201	19	251	20,9	276	22,8	301	33,1
		89	11,4	17,8	203	22,3	254	24,5	279	26,7	304	38,9
		102	8,4	20,4	171	25,5	214	28,1	236	30,6	257	43,8
16	8	305	2,8	61	171	76,3	214	83,9	235	91,5	256	140
		25	75,7	5	379	6,3	477	6,9	520	7,5	568	8,4
		32	52,8	6,4	338	8	422	8,8	465	9,6	507	10,5

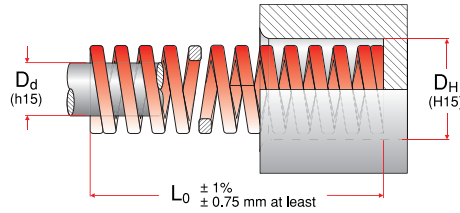
How to order: BRR-D_H x L₀
 Forma de pedido: BRR-D_H x L₀



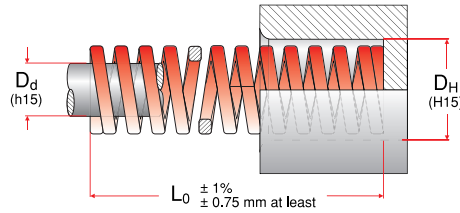
D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A $20\%L_0$ $+3.000.000$		B $25\%L_0$ $\sim 1.500.000$		C $27.5\%L_0$ $300-500.000$		D $30\%L_0$ $100-200.000$		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	
16	8	38	48,5	7,6	369	9,5	461	10,5	507	11,4	553	13,6
		44	42,8	8,8	377	11	471	12,1	518	13,2	565	15,9
		51	37,1	10,2	378	12,8	475	14	520	15,3	568	18,9
		64	30,3	12,8	388	16	485	17,6	533	19,2	582	24,9
		76	25,7	15,2	391	19	488	20,9	537	22,8	586	29,2
		89	21,7	17,8	386	22,3	484	24,5	531	26,7	579	34,5
		102	19,3	20,4	394	25,5	492	28,1	541	30,6	591	39,1
		115	15,7	23	361	28,8	452	31,6	497	34,5	542	44
20	10	25	216	5	1080	6,3	1361	6,9	1485	7,5	1620	8,3
		32	168	6,4	1075	8	1344	8,8	1478	9,6	1613	10,9
		38	129	7,6	980	9,5	1226	10,5	1348	11,4	1471	12,5
		44	112	8,8	986	11	1232	12,1	1355	13,2	1478	15
		51	94	10,2	959	12,8	1203	14	1318	15,3	1438	17,6
		64	72,1	12,8	923	16	1154	17,6	1269	19,2	1384	22,6
		76	59,7	15,2	907	19	1134	20,9	1248	22,8	1361	27,5
		89	50,5	17,8	899	22,3	1126	24,5	1236	26,7	1348	31,7
		102	44,2	20,4	902	25,5	1127	28,1	1240	30,6	1353	37,5
		115	38,4	23	883	28,8	1106	31,6	1214	34,5	1325	42,6
		127	34,1	25,4	866	31,8	1084	34,9	1191	38,1	1299	45,5
		139	31	28	868	35	1085	38,2	1185	42	1302	50,1
		152	28,2	30,4	857	38	1072	41,8	1179	45,6	1286	55,8
305	15	61	915	76,3	1145	83,9	1258	91,5	1373	114		
25	12,5	25	375	5	1875	6,3	2363	6,9	2578	7,5	2813	8,5



D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A		B		C		D		E
				$20\%L_0$ +3.000.000	N	$25\%L_0$ ~1.500.000	N	$27.5\%L_0$ 300-500.000	N	$30\%L_0$ 100-200.000	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
25	12,5	32	297	6,4	1901	8	2376	8,8	2614	9,6	2851	11
		38	219	7,6	1664	9,5	2081	10,5	2289	11,4	2497	12,6
		44	187	8,8	1646	11	2057	12,1	2263	13,2	2468	14,8
		51	156	10,2	1591	12,8	1997	14	2188	15,3	2387	17,9
		64	123	12,8	1574	16	1968	17,6	2165	19,2	2362	23,1
		76	99	15,2	1505	19	1881	20,9	2069	22,8	2257	26,3
		89	84	17,8	1495	22,3	1873	24,5	2056	26,7	2243	30,5
		102	73	20,4	1489	25,5	1862	28,1	2048	30,6	2234	37,3
		115	65	23	1495	28,8	1872	31,6	2056	34,5	2243	41,9
		127	57,7	25,4	1466	31,8	1835	34,9	2015	38,1	2198	46,2
		139	52,7	28	1476	35	1845	38,2	2014	42	2213	49,3
		152	47,8	30,4	1453	38	1816	41,8	1998	45,6	2180	55,7
		178	41	25,6	1460	44,5	1825	49	2007	53,4	2189	65,1
		203	35,8	40,6	1453	50,8	1819	55,8	1999	60,9	2180	74,5
305	22,9	61	1397	76,3	1747	83,9	1921	91,5	2095	110		
32	16	38	388	7,6	2949	9,5	3686	10,5	4055	11,4	4423	12,5
		44	324	8,8	2851	11	3564	12,1	3920	13,2	4277	14,9
		51	272	10,2	2774	12,8	3482	14	3815	15,3	4162	17,8
		64	212	12,8	2714	16	3392	17,6	3731	19,2	4070	22,4
		76	172	15,2	2614	19	3268	20,9	3595	22,8	3922	26,1
		89	141	17,8	2510	22,3	3144	24,5	3451	26,7	3765	30,8
		102	122	20,4	2489	25,5	3111	28,1	3422	30,6	3733	36,8
		115	107	23	2461	28,8	3082	31,6	3384	34,5	3692	41,4
		127	93	25,4	2362	31,8	2957	34,9	3248	38,1	3543	44,4

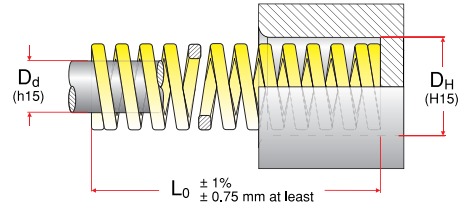


D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A		B		C		D		E
				20% L_0 +3.000.000	N	25% L_0 ~1.500.000	N	27.5% L_0 300-500.000	N	30% L_0 100-200.000	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
32	16	139	86	28	2408	35	3010	38,2	3287	42	3612	48,5
		152	78	30,4	2371	38	2954	41,8	3260	45,6	3557	54,8
		178	67,2	25,6	2392	44,5	2990	49	3289	53,4	3588	63,6
		203	59,1	40,6	2399	50,8	3002	55,8	3299	60,9	3599	72,5
		254	46,4	50,8	2357	63,5	2946	69,9	3241	76,2	3536	92,8
		305	38	61	2318	76,3	2899	83,9	3187	91,5	3477	112
40	20	51	350	10,2	3570	12,8	4480	14	4909	15,3	5355	17
		64	269	12,8	3443	16	4304	17,6	4734	19,2	5165	21,9
		76	219	15,2	3329	19	4161	20,9	4577	22,8	4993	26,7
		89	190	17,8	3382	22,3	4237	24,5	4650	26,7	5073	31,3
		102	163	20,4	3325	25,5	4157	28,1	4572	30,6	4988	37,1
		115	142	23	3266	28,8	4090	31,6	4491	34,5	4899	41
		127	128	25,4	3251	31,8	4070	34,9	4470	38,1	4877	46,5
		139	115	28	3220	35	4025	38,2	4396	42	4830	53,1
		152	105	30,4	3192	38	3990	41,8	4389	45,6	4788	56,1
		178	89	35,6	3168	44,5	3961	49	4357	53,4	4753	67,4
		203	77	40,6	3126	50,8	3912	55,8	4299	60,9	4689	76,2
		254	61	50,8	3099	63,5	3874	69,9	4261	76,2	4648	96,2
		305	51	61	3111	76,3	3891	83,9	4278	91,5	4667	115
50	25	64	413	12,8	5286	16	4304	17,6	7269	19,2	7930	22,4
		76	339	15,2	5153	19	6441	20,9	7085	22,8	7729	26,5
		89	288	17,8	5126	22,3	6422	24,5	7049	26,7	7690	31,5
		102	245	20,4	4998	25,5	6248	28,1	6872	30,6	7497	37,6

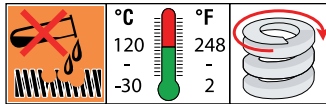


D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A $20\%L_0$ $+3.000.000$		B $25\%L_0$ $\sim 1.500.000$		C $27.5\%L_0$ $300-500.000$		D $30\%L_0$ $100-200.000$		E approx. Do not use
				mm	N/mm	mm	N	mm	N	mm	N	mm
50	25	115	215	23	4945	28,8	6192	31,6	6799	34,5	7418	42,7
		127	192	25,4	4877	31,8	6106	34,9	6706	38,1	7315	47,5
		139	168	28	4704	35	5880	38,2	6422	42	7056	51,8
		152	154	30,4	4682	38	5852	41,8	6437	45,6	7022	57,8
		178	134	35,6	4770	44,5	5963	49	6559	53,4	7156	68,5
		203	117	40,6	4750	50,8	5944	55,8	6352	60,9	7125	77,6
		254	89	50,8	4521	63,5	5662	69,9	6217	76,2	6782	97,9
		305	73	61	4453	76,3	5570	83,9	6123	91,5	6680	121
63	38	76	618	15,2	9394	19	11742	20,9	12916	22,8	14090	24,7
		89	515	17,8	9167	22,3	11485	24,5	12605	26,7	13751	30
		102	438	20,4	8935	25,5	11169	28,1	12286	30,6	13403	35,1
		115	370	23	8510	28,8	10656	31,6	11701	34,5	12765	37,5
		127	333	25,4	8458	31,8	10589	34,9	11630	38,1	12687	45,9
		152	269	30,4	8178	38	10222	41,8	11244	45,6	12266	56,5
		178	226	35,6	8046	44,5	10057	49	11063	53,4	12068	66,8
		203	198	40,6	8039	50,8	10058	55,8	11053	60,9	12058	78,8
		254	155	50,8	7874	63,5	9843	69,9	10827	76,2	11811	102
		305	128	61	7808	76,3	9766	83,9	10736	91,5	11712	122

Extra-heavy load spring
 Muelles de carga extrafuerte
 Sprężyna do bardzo wysokich obciążeń
 Mola carga extra-forte
 Ressort charge extra-forte

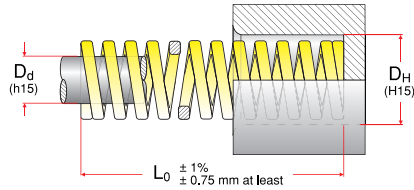


ISO 10243

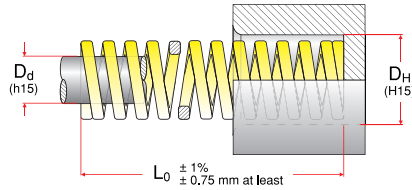


D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant ±10%	A		B		C		D		E approx. Do not use
				17%L ₀ +3.000.000	N	20%L ₀ ~1.500.000	N	22.5%L ₀ 300-500.000	N	25%L ₀ 100-200.000	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
10	5	25	36,8	4,3	158	5	184	5,6	207	6,3	232	7,7
		32	27,9	5,4	151	6,4	179	7,2	201	8	223	10,6
		38	23,7	6,5	154	7,6	180	8,6	203	9,5	225	12,6
		44	19,2	7,5	144	8,8	169	9,9	190	11	211	13,8
		51	16,5	8,7	144	10,2	168	11,5	189	12,8	211	16,2
		64	13,2	10,9	144	12,8	169	14,4	190	16	211	20,4
		76	10,9	12,9	141	15,2	166	17,1	186	19	207	25,2
		305	2,6	51,9	135	61	159	68,6	178	76,3	198	111
12,5	6,3	25	58,5	4,3	252	5	293	5,6	329	6,3	369	8,1
		32	43,9	5,4	237	6,4	281	7,2	316	8	351	9,9
		38	36	6,5	234	7,6	274	8,6	308	9,5	342	12,9
		44	30,3	7,5	227	8,8	267	9,9	300	11	333	14,1
		51	26,2	8,7	228	10,2	267	11,5	301	12,8	335	17,4
		64	21,2	10,9	231	12,8	271	14,4	305	16	339	21
		76	17,1	12,9	221	15,2	260	17,1	292	19	325	26,4
		89	14,5	15,1	219	17,8	258	20	290	22,3	323	31,5
		102	12,7	17,3	220	20,4	259	23	291	25,5	324	36
		305	4,3	51,9	223	61	262	68,6	295	76,3	328	111
16	8	25	118	4,3	507	5	590	5,6	664	6,3	743	8,5
		32	89	5,4	481	6,4	570	7,2	641	8	712	11

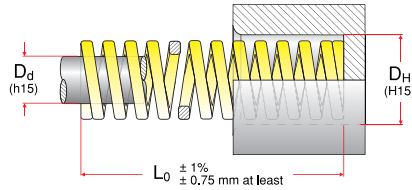
How to order: BRA-D_H x L₀
 Forma de pedio: BRA-D_H x L₀



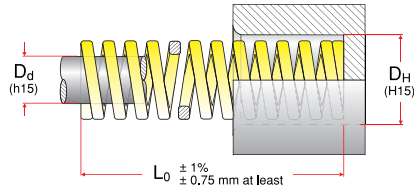
D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A $17\%L_0$ $+3.000.000$		B $20\%L_0$ $\sim 1.500.000$		C $22.5\%L_0$ $300-500.000$		D $25\%L_0$ $100-200.000$		E approx. Do not use
				mm	N/mm	mm	N	mm	N	mm	N	mm
16	8	38	72,1	6,5	469	7,6	548	8,6	616	9,5	685	13,2
		44	60,9	7,5	457	8,8	536	9,9	603	11	670	14,7
		51	52,3	8,7	455	10,2	533	11,5	600	12,8	669	17,7
		64	41,2	10,9	449	12,8	527	14,4	593	16	659	21,9
		76	34,1	12,9	440	15,2	518	17,1	583	19	648	27,8
		89	29,5	15,1	445	17,8	525	20	591	22,3	658	31,2
		102	25,6	17,3	443	20,4	522	23	588	25,5	653	37,9
		115	22,4	19,6	439	23	515	25,9	580	28,8	645	44,5
		305	8,4	51,9	436	61	512	68,6	576	76,3	641	113
20	10	25	293	4,3	1260	5	1465	5,6	1648	6,3	1846	6,9
		32	224	5,4	1210	6,4	1434	7,2	1613	8	1792	9,4
		38	177	6,5	1151	7,6	1345	8,6	1513	9,5	1682	12
		44	149	7,5	1118	8,8	1311	9,9	1475	11	1639	13,5
		51	128	8,7	1114	10,2	1306	11,5	1469	12,8	1638	16,2
		64	99	10,9	1079	12,8	1267	14,4	1426	16	1584	21,2
		76	81,7	12,9	1054	15,2	1242	17,1	1397	19	1552	24,7
		89	69,5	15,1	1049	17,8	1237	20	1392	22,3	1550	28,8
		102	60,6	17,3	1048	20,4	1236	23	1391	25,5	1545	34,8
		115	53	19,6	1039	23	1219	25,9	1371	28,8	1526	39
		127	47,5	21,6	1026	25,4	1207	28,6	1357	31,8	1511	43
		139	43	23,8	1023	28	1204	31,3	1345	35	1505	45,3
		152	39	25,8	1006	30,4	1186	34,2	1334	38	1482	50,4
305	21,2	51,9	1100	61	1293	68,6	1455	76,3	1618	103		
25	12,5	25	459	4,3	1974	5	2295	5,6	2582	6,3	2892	7,3



D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A		B		C		D		E approx. Do not use
				$17\%L_0$ $+3.000.000$	$20\%L_0$ $\sim 1.500.000$	$22.5\%L_0$ $300-500.000$	$25\%L_0$ $100-200.000$	mm	N	mm	N	
25	12,5	32	374	5,4	2020	6,4	2394	7,2	2693	8	2992	10,7
		38	300	6,5	1950	7,6	2280	8,6	2580	9,5	2850	12
		44	244	7,5	1830	8,8	2147	9,9	2416	11	2684	14,4
		51	208	8,7	1810	10,2	2122	11,5	2392	12,8	2662	17,4
		64	161	10,9	1755	12,8	2061	14,4	2318	16	2576	21,4
		76	131	12,9	1690	15,2	1991	17,1	2240	19	2489	26,9
		89	111	15,1	1676	17,8	1976	20	2220	22,3	2475	30,9
		102	96,3	17,3	1666	20,4	1965	23	2210	25,5	2456	36,7
		115	85,7	19,6	1680	23	1971	25,9	2217	28,8	2468	40,3
		127	76,3	21,6	1648	25,4	1938	28,6	2180	31,8	2426	45,1
		139	66	23,8	1571	28	1848	31,3	2066	35	2310	47,6
		152	63,5	25,8	1638	30,4	1930	34,2	2172	38	2413	53,5
		178	53,9	30,3	1633	35,6	1919	40,1	2159	44,5	2399	63,9
		203	47	34,5	1622	40,6	1908	45,7	2147	50,8	2388	70,2
305	30,9	51,9	1604	61	1885	68,6	2121	76,3	2358	110		
32	16	38	480	6,5	3120	7,6	3648	8,6	4128	9,5	4560	11,4
		44	390	7,5	2925	8,8	3432	9,9	3861	11	4290	13,7
		51	320	8,7	2784	10,2	3264	11,5	3680	12,8	4096	15,6
		64	269	10,9	2934	12,8	3446	14,4	3876	16	4307	20
		76	219	12,9	2825	15,2	3329	17,1	3745	19	4161	24,4
		89	180	15,1	2723	17,8	3209	20	3611	22,3	4021	29,7
		102	155	17,3	2682	20,4	3162	23	3557	25,5	3953	35,1
		115	140	19,6	2744	23	3220	25,9	3623	28,8	4032	39
127	124	21,6	2678	25,4	3150	28,6	3543	31,8	3943	42,8		

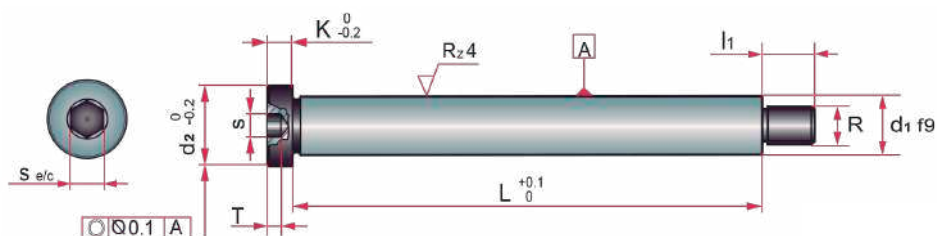


D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A		B		C		D		E approx. Do not use
				17% L_0 +3.000.000	N	20% L_0 ~1.500.000	N	22.5% L_0 300-500.000	N	25% L_0 100-200.000	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
32	16	139	112	23,8	2673	28	3144	31,3	3512	35	3931	48,6
		152	102	25,8	2632	30,4	3101	34,2	3488	38	3876	52,4
		178	88,2	30,3	2672	35,6	3140	40,1	3532	44,5	3925	60,9
		203	76	34,5	2622	40,6	3086	45,7	3471	50,8	3861	69,2
		254	60,8	43,2	2627	50,8	3089	57,2	3475	63,5	3861	88,1
		305	49	51,9	2543	61	2989	68,6	3363	76,3	3739	104
40	20	51	628	8,7	5464	10,2	6406	11,5	7206	12,8	8038	15
		64	487	10,9	5308	12,8	6234	14,4	7013	16	7792	19,5
		76	379	12,9	4889	15,2	5761	17,1	6481	19	7201	23,3
		89	321	15,1	4847	17,8	5714	20	6428	22,3	7158	26,7
		102	281	17,3	4861	20,4	5732	23	6449	25,5	7166	33,8
		115	245	19,6	4802	23	5635	25,9	6339	28,8	7056	36,2
		127	221	21,6	4774	25,4	5613	28,6	6315	31,8	7028	40,7
		139	190	23,8	4641	28	5460	31,3	6103	35	6825	44,5
		152	168	25,8	4334	30,4	5107	34,2	5746	38	6384	49,6
		178	150	30,3	4545	35,6	5340	40,1	6015	44,5	6675	59,9
		203	132	34,5	4554	40,6	5359	45,7	6029	50,8	6706	67,1
		254	107	43,2	4622	50,8	5436	57,2	6115	63,5	6795	86,3
		305	87,8	51,9	4557	61	5356	68,6	6025	76,3	6699	104
50	25	64	709	10,9	7728	12,8	9075	14,4	10210	16	11344	19,3
		76	572	12,9	7379	15,2	8694	17,1	9781	19	10868	24,2
		89	475	15,1	7173	17,8	8455	20	9512	22,3	10593	28
		102	405	17,3	7007	20,4	8262	23	9295	25,5	10328	33,5
		115	352	19,6	6899	23	8096	25,9	9108	28,8	10138	38,6



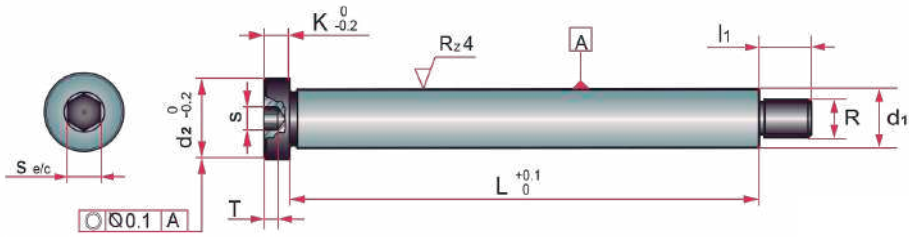
D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	R Spring Constant $\pm 10\%$	A $17\%L_0$ $+3.000.000$		B $20\%L_0$ $\sim 1.500.000$		C $22.5\%L_0$ $300-500.000$		D $25\%L_0$ $100-200.000$		E approx. Do not use
				mm	N	mm	N	mm	N	mm	N	mm
50	25	127	316	21,6	6826	25,4	8026	28,6	9030	31,8	10049	41,4
		139	289	23,8	6878	28	8092	31,3	9046	35	10115	47,3
		152	168	25,8	6166	30,4	7266	34,2	8174	38	9082	50,2
		178	215	30,3	6515	35,6	7654	40,1	8611	44,5	9568	61,1
		203	187	34,5	6452	40,6	7592	45,7	8541	50,8	9500	67,7
		254	153	43,2	6610	50,8	7772	57,2	8744	63,5	9716	87
		305	127	51,9	6591	61	7747	68,6	8715	76,3	9690	104
63	38	76	952	12,9	12280	15,2	14470	n/a	n/a	n/a	n/a	15,5
		89	819	15,1	12360	17,8	14580	n/a	n/a	n/a	n/a	20
		102	700	17,3	12110	20,4	14280	23	16065	25,5	17850	30,7
		115	620	19,6	12152	23	14260	25,9	16043	28,8	17860	34,9
		127	565	21,6	12204	25,4	14351	28,6	16145	31,8	17967	38
		152	458	25,8	11816	30,4	13923	34,2	15664	38	17404	47,2
		178	384	30,3	11635	35,6	13670	40,1	15379	44,5	17088	55,8
		203	337	34,5	11627	40,6	13682	45,7	15392	50,8	17120	64,8
		254	263	43,2	11362	50,8	13360	57,2	15030	63,5	16701	86,7
		305	218	51,9	11314	61	13298	68,6	14960	76,3	16633	106

Shoulder bolt
 Tornillo limitador
 Śruba pasowana
 Limitador de curso
 Vis epaulee a 6 pans creux

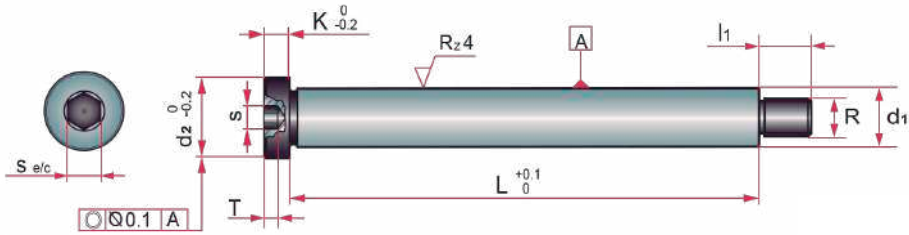


Mat. : Alloy steel. Hardness: HRC 38-42 - ISO 7379.

s	K	l1	d2	T	d1	R	L	REF.
3	4,5	9,5	10	3	6	M5	10	TPM/05x010
							12	TPM/05x012
							16	TPM/05x016
							20	TPM/05x020
							25	TPM/05x025
							30	TPM/05x030
							35	TPM/05x035
							40	TPM/05x040
							45	TPM/05x045
							50	TPM/05x050
							60	TPM/05x060
4	5,5	11	13	4	8	M6	12	TPM/06x012
							16	TPM/06x016
							20	TPM/06x020
							25	TPM/06x025
							30	TPM/06x030
							35	TPM/06x035
							40	TPM/06x040
							45	TPM/06x045
							50	TPM/06x050
							60	TPM/06x060
							70	TPM/06x070
							80	TPM/06x080
							90	TPM/06x090
100	TPM/06x100							

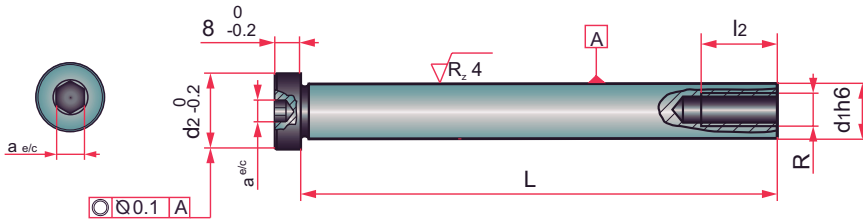


s	K	l1	d2	T	d1	R	L	REF.
5	7	13	16	5	10	M8	16	TPM/08x016
							20	TPM/08x020
							25	TPM/08x025
							30	TPM/08x030
							35	TPM/08x035
							40	TPM/08x040
							45	TPM/08x045
							50	TPM/08x050
							60	TPM/08x060
							70	TPM/08x070
							80	TPM/08x080
							90	TPM/08x090
							100	TPM/08x100
6	9	16	18	6	12	M10	16	TPM/10x016
							20	TPM/10x020
							25	TPM/10x025
							30	TPM/10x030
							35	TPM/10x035
							40	TPM/10x040
							45	TPM/10x045
							50	TPM/10x050
							60	TPM/10x060
							70	TPM/10x070
							80	TPM/10x080
							90	TPM/10x090
							100	TPM/10x100
110	TPM/10x110							
120	TPM/10x120							
							140	TPM/10x140



s	K	l1	d2	T	d1	R	L	REF.
8	11	18	24	8	16	M12	30	TPM/12x030
							35	TPM/12x035
							40	TPM/12x040
							45	TPM/12x045
							50	TPM/12x050
							60	TPM/12x060
							70	TPM/12x070
							80	TPM/12x080
							90	TPM/12x090
							100	TPM/12x100
							110	TPM/12x110
							120	TPM/12x120
							140	TPM/12x140
160	TPM/12x160							
10	14	22	30	10	20	M16	40	TPM/16x040
							50	TPM/16x050
							60	TPM/16x060
							70	TPM/16x070
							80	TPM/16x080
							90	TPM/16x090
							100	TPM/16x100
							120	TPM/16x120
							140	TPM/16x140
12	16	27	36	12	24	M20	80	TPM/20x080
							100	TPM/20x100
							120	TPM/20x120
							140	TPM/20x140
							160	TPM/20x160
							200	TPM/20x200

Tie bar with stop
 Tope guía
 Zderzak
 Guia limitador
 Colonne butee lisse

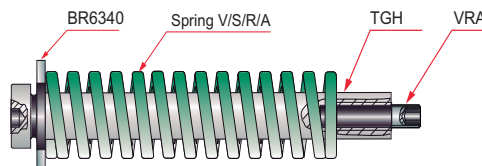


Mat. 1.7264 - Case-hardened: 50-52 HRC.-0.8-1.2 m.m. depth

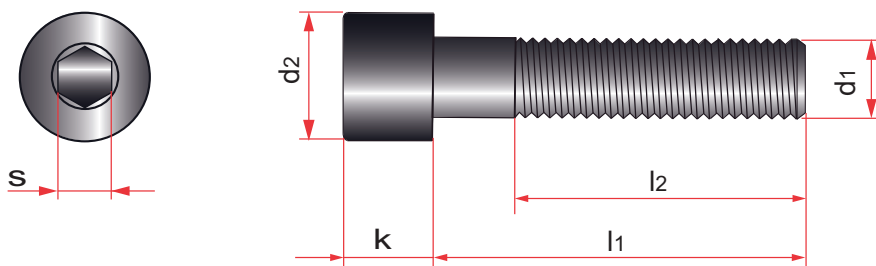
d1	d2	l2	a	R	L	REF.
14	20	18	8	M08	40	TGH/14x040-M08
					50	TGH/14x050-M08
					60	TGH/14x060-M08
					80	TGH/14x080-M08
					100	TGH/14x100-M08
					125	TGH/14x125-M08
					150	TGH/14x150-M08
					175	TGH/14x175-M08
					200	TGH/14x200-M08
				M10	40	TGH/14x040-M10
					50	TGH/14x050-M10
					60	TGH/14x060-M10
					80	TGH/14x080-M10
					100	TGH/14x100-M10
					125	TGH/14x125-M10
					150	TGH/14x150-M10
					175	TGH/14x175-M10
					200	TGH/14x200-M10

d1	d2	l2	a	R	L	REF.
20	26	25	10	M12	60	TGH/20x060-M12
					80	TGH/20x080-M12
					100	TGH/20x100-M12
					125	TGH/20x125-M12
					150	TGH/20x150-M12
					175	TGH/20x175-M12
					200	TGH/20x200-M12
					225	TGH/20x225-M12
					250	TGH/20x250-M12
				M14	60	TGH/20x060-M14
					80	TGH/20x080-M14
					100	TGH/20x100-M14
					125	TGH/20x125-M14
					150	TGH/20x150-M14
					250	TGH/20x250-M14

10



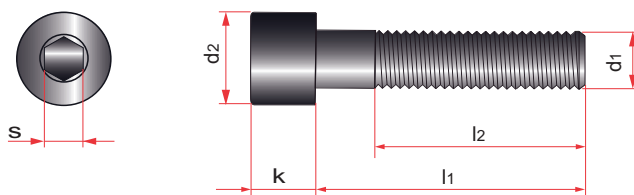
Socket head cap screw
 Tornillo allen
 Śruba z łbem walcowym
 Parafuso cabeça cilíndrica
 Vis tete cylindrique a 6 pans creux



Mat. : Alloy steel. Hardness: HRC 38-42 - DIN 912/ISO 4762

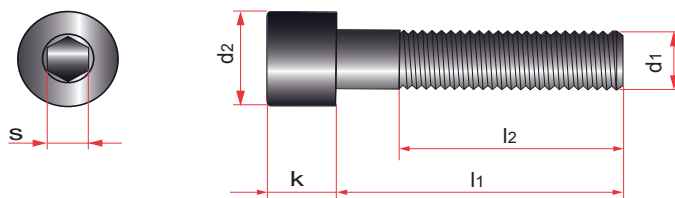
s	l2	k	d2	d1	l1	REF.
2,5	4,5	3	5,5	M3	6	TA.12.9/03x006
					8	TA.12.9/03x008
					10	TA.12.9/03x010
					12	TA.12.9/03x012
					14	TA.12.9/03x014
					16	TA.12.9/03x016
					18	TA.12.9/03x018
					20	TA.12.9/03x020
					25	TA.12.9/03x025
					30	TA.12.9/03x030
35	TA.12.9/03x035					
40	TA.12.9/03x040					
3	6	4	7	M4	8	TA.12.9/04x008
					10	TA.12.9/04x010
					12	TA.12.9/04x012
					14	TA.12.9/04x014
					16	TA.12.9/04x016
					18	TA.12.9/04x018
					20	TA.12.9/04x020
					25	TA.12.9/04x025
					30	TA.12.9/04x030
					35	TA.12.9/04x035
40	TA.12.9/04x040					
45	TA.12.9/04x045					

s	l2	k	d2	d1	l1	REF.
3	20	4	7	M4	50	TA.12.9/04x050
					60	TA.12.9/04x060
					65	TA.12.9/04x065
					70	TA.12.9/04x070
					70	TA.12.9/04x070
4	4	5	8,5	M5	6	TA.12.9/05x006
					8	TA.12.9/05x008
					10	TA.12.9/05x010
					12	TA.12.9/05x012
					14	TA.12.9/05x014
					16	TA.12.9/05x016
					18	TA.12.9/05x018
					20	TA.12.9/05x020
					23	TA.12.9/05x022
					25	TA.12.9/05x025
					30	TA.12.9/05x030
					35	TA.12.9/05x035
					40	TA.12.9/05x040
					45	TA.12.9/05x045
					50	TA.12.9/05x050
55	TA.12.9/05x055					
60	TA.12.9/05x060					
65	TA.12.9/05x065					
70	TA.12.9/05x070					
80	TA.12.9/05x080					



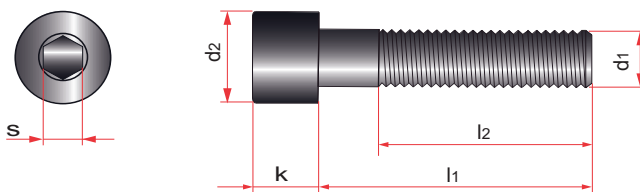
s	l2	k	d2	d1	l1	REF.
4	22	5	8,5	M5	90	TA.12.9/05x090
					100	TA.12.9/05x100
5	5	6	10	M6	8	TA.12.9/06x008
					10	TA.12.9/06x010
					12	TA.12.9/06x012
					14	TA.12.9/06x014
					16	TA.12.9/06x016
					18	TA.12.9/06x018
					20	TA.12.9/06x020
					22	TA.12.9/06x022
					25	TA.12.9/06x025
					30	TA.12.9/06x030
					35	TA.12.9/06x035
					40	TA.12.9/06x040
					45	TA.12.9/06x045
					50	TA.12.9/06x050
55	TA.12.9/06x055					
60	TA.12.9/06x060					
65	TA.12.9/06x065					
70	TA.12.9/06x070					
75	TA.12.9/06x075					
80	TA.12.9/06x080					
90	TA.12.9/06x090					
100	TA.12.9/06x100					
110	TA.12.9/06x110					
120	TA.12.9/06x120					
6	6	8	13	M8	10	TA.12.9/08x010
					12	TA.12.9/08x012
					14	TA.12.9/08x014
					16	TA.12.9/08x016
					18	TA.12.9/08x018
					20	TA.12.9/08x020

s	l2	k	d2	d1	l1	REF.
6	18	8	13	M8	22	TA.12.9/08x022
					25	TA.12.9/08x025
					26	TA.12.9/08x030
					31	TA.12.9/08x035
					28	TA.12.9/08x040
					45	TA.12.9/08x045
					50	TA.12.9/08x050
					55	TA.12.9/08x055
					60	TA.12.9/08x060
					65	TA.12.9/08x065
					70	TA.12.9/08x070
					75	TA.12.9/08x075
80	TA.12.9/08x080					
90	TA.12.9/08x090					
100	TA.12.9/08x100					
110	TA.12.9/08x110					
120	TA.12.9/08x120					
130	TA.12.9/08x130					
140	TA.12.9/08x140					
150	TA.12.9/08x150					
160	TA.12.9/08x160					
170	TA.12.9/08x170					
180	TA.12.9/08x180					
190	TA.12.9/08x190					
200	TA.12.9/08x200					
8	6	10	16	M10	10	TA.12.9/10x010
					12	TA.12.9/10x012
					14	TA.12.9/10x015
					16	TA.12.9/10x016
					18	TA.12.9/10x018
					20	TA.12.9/10x020
					22	TA.12.9/10x022



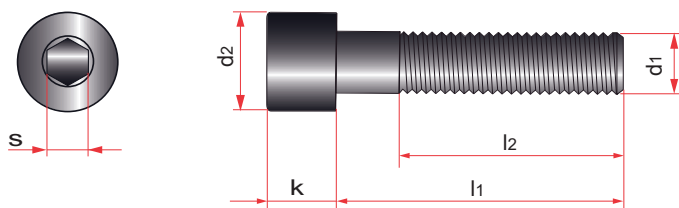
s	l2	k	d2	d1	l1	REF.	
8	21	10	16	M10	25	TA.12.9/10x025	
					30	TA.12.9/10x030	
					35	TA.12.9/10x035	
					40	TA.12.9/10x040	
					32	45	TA.12.9/10x045
						50	TA.12.9/10x050
					55	TA.12.9/10x055	
					60	TA.12.9/10x060	
					65	TA.12.9/10x065	
					70	TA.12.9/10x070	
					75	TA.12.9/10x075	
					80	TA.12.9/10x080	
					90	TA.12.9/10x090	
					100	TA.12.9/10x100	
					110	TA.12.9/10x110	
					120	TA.12.9/10x120	
					130	TA.12.9/10x130	
10	11	12	18	M12	16	TA.12.9/12x016	
					20	TA.12.9/12x020	
					25	TA.12.9/12x025	
					30	TA.12.9/12x030	
					35	TA.12.9/12x035	
					15		
					20		
					25		
30							

s	l2	k	d2	d1	l1	REF.	
10	35	12	18	M12	40	TA.12.9/12x040	
					45	TA.12.9/12x045	
					45	50	TA.12.9/12x050
						55	TA.12.9/12x055
					36	60	TA.12.9/12x060
						65	TA.12.9/12x065
						70	TA.12.9/12x070
						75	TA.12.9/12x075
						80	TA.12.9/12x080
						90	TA.12.9/12x090
						100	TA.12.9/12x100
						110	TA.12.9/12x110
						120	TA.12.9/12x120
						130	TA.12.9/12x130
12	19	14	21	M14	25	TA.12.9/14x025	
					30	TA.12.9/14x030	
					35	TA.12.9/14x035	
					24		
					29		



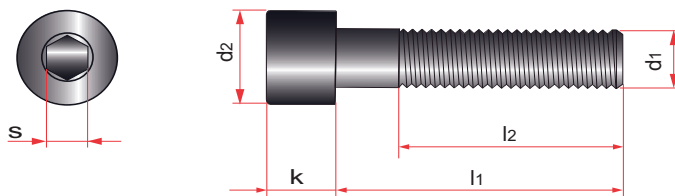
s	l2	k	d2	d1	l1	REF.
12	34	14	21	M14	40	TA.12.9/14x040
					45	TA.12.9/14x045
					50	TA.12.9/14x050
					55	TA.12.9/14x055
					60	TA.12.9/14x060
					65	TA.12.9/14x065
					70	TA.12.9/14x070
					75	TA.12.9/14x075
					80	TA.12.9/14x080
					90	TA.12.9/14x090
					100	TA.12.9/14x100
					110	TA.12.9/14x110
					120	TA.12.9/14x120
					130	TA.12.9/14x130
					140	TA.12.9/14x140
					150	TA.12.9/14x150
					160	TA.12.9/14x160
					170	TA.12.9/14x170
180	TA.12.9/14x180					
190	TA.12.9/14x190					
200	TA.12.9/14x200					
220	TA.12.9/14x220					
240	TA.12.9/14x240					
260	TA.12.9/14x260					
280	TA.12.9/14x280					
300	TA.12.9/14x300					
14	19	16	24	M16	25	TA.12.9/16x025
					30	TA.12.9/16x030
					35	TA.12.9/16x035
					40	TA.12.9/16x040
					45	TA.12.9/16x045
					44	TA.12.9/16x050
					50	TA.12.9/16x050

s	l2	k	d2	d1	l1	REF.
14	49	16	24	M16	55	TA.12.9/16x055
					60	TA.12.9/16x060
					65	TA.12.9/16x065
					70	TA.12.9/16x070
					75	TA.12.9/16x075
					80	TA.12.9/16x080
					90	TA.12.9/16x090
					100	TA.12.9/16x100
					110	TA.12.9/16x110
					120	TA.12.9/16x120
					130	TA.12.9/16x130
					140	TA.12.9/16x140
					150	TA.12.9/16x150
					160	TA.12.9/16x160
					170	TA.12.9/16x170
					180	TA.12.9/16x180
					190	TA.12.9/16x190
					200	TA.12.9/16x200
					220	TA.12.9/16x220
					240	TA.12.9/16x240
260	TA.12.9/16x260					
280	TA.12.9/16x280					
300	TA.12.9/16x300					
320	TA.12.9/16x320					
340	TA.12.9/16x340					
360	TA.12.9/16x360					
400	TA.12.9/16x400					
14	24	18	27	M18	30	TA.12.9/18x030
					33	TA.12.9/18x040
					38	TA.12.9/18x045
					43	TA.12.9/18x050
					48	TA.12.9/18x055
					55	TA.12.9/18x055



s	l2	k	d2	d1	l1	REF.				
14	53	18	27	M18	60	TA.12.9/18x060				
	58				65	TA.12.9/18x065				
	63				70	TA.12.9/18x070				
	68				75	TA.12.9/18x075				
	52				80	TA.12.9/18x080				
					90	TA.12.9/18x090				
					100	TA.12.9/18x100				
					110	TA.12.9/18x110				
					120	TA.12.9/18x120				
					130	TA.12.9/18x130				
	17				23	20	30	M20	30	TA.12.9/20x030
									35	TA.12.9/20x035
									40	TA.12.9/20x040
									45	TA.12.9/20x045
50		TA.12.9/20x050								
55		TA.12.9/20x055								
60		TA.12.9/20x060								
65		TA.12.9/20x065								
70		TA.12.9/20x070								
75		TA.12.9/20x075								
52	80	TA.12.9/20x080								
	90	TA.12.9/20x090								
	100	TA.12.9/20x100								
	110	TA.12.9/20x110								
	120	TA.12.9/20x120								

s	l2	k	d2	d1	l1	REF.
17	52	20	30	M20	130	TA.12.9/20x130
					140	TA.12.9/20x140
					150	TA.12.9/20x150
					160	TA.12.9/20x160
					170	TA.12.9/20x170
					180	TA.12.9/20x180
					190	TA.12.9/20x190
					200	TA.12.9/20x200
					220	TA.12.9/20x220
					240	TA.12.9/20x240
					260	TA.12.9/20x260
					280	TA.12.9/20x280
					300	TA.12.9/20x300
					320	TA.12.9/20x320
					340	TA.12.9/20x340
					360	TA.12.9/20x360
380	TA.12.9/20x380					
400	TA.12.9/20x400					
23	22	33	M22	30	TA.12.9/22x030	
				35	TA.12.9/22x035	
				40	TA.12.9/22x040	
				45	TA.12.9/22x045	
				50	TA.12.9/22x050	
				55	TA.12.9/22x055	
				60	TA.12.9/22x060	
				65	TA.12.9/22x065	
				70	TA.12.9/22x070	
				75	TA.12.9/22x075	
				80	TA.12.9/22x080	
60	90	TA.12.9/22x090				
	100	TA.12.9/22x100				
	110	TA.12.9/22x110				



s	l2	k	d2	d1	l1	REF.
17	60	22	33	M22	120	TA.12.9/22x120
					130	TA.12.9/22x130
					140	TA.12.9/22x140
					150	TA.12.9/22x150
19	31	24	36	M24	40	TA.12.9/24x040
	36				45	TA.12.9/24x045
	41				50	TA.12.9/24x050
	46				55	TA.12.9/24x055
	51				60	TA.12.9/24x060
	56				65	TA.12.9/24x065
	61				70	TA.12.9/24x070
	71				75	TA.12.9/24x075
	60				80	TA.12.9/24x080
					90	TA.12.9/24x090
					100	TA.12.9/24x100
					110	TA.12.9/24x110
					120	TA.12.9/24x120
					130	TA.12.9/24x130

s	l2	k	d2	d1	l1	REF.
19	60	24	36	M24	140	TA.12.9/24x140
					150	TA.12.9/24x150
					160	TA.12.9/24x160
					170	TA.12.9/24x170
					180	TA.12.9/24x180
					190	TA.12.9/24x190
					200	TA.12.9/24x200
					220	TA.12.9/24x220
					240	TA.12.9/24x240
					260	TA.12.9/24x260
					280	TA.12.9/24x280
					300	TA.12.9/24x300
					320	TA.12.9/24x320
					340	TA.12.9/24x340
					360	TA.12.9/24x360
					380	TA.12.9/24x380
					400	TA.12.9/24x400

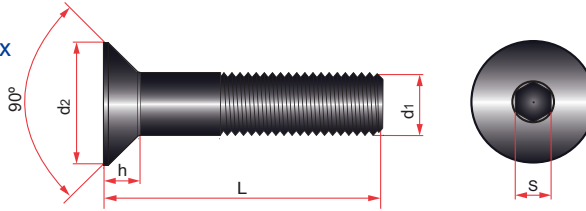
Socket countersunk head cap screw

Tornillo allen de cabeza cónica

Śruba z łbem stożkowym

Parafuso cabeça cônica

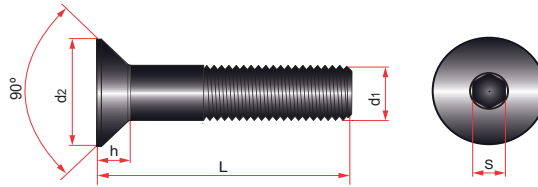
Vis tete fraise a 6 pans creux



DIN 7991. 110-120 Kg/mm².

S	h	d2	d1	L	REF.				
1,25	1,2	4	M2	16	TAE/02x016				
				2	1,7	6	M3	8	TAE/03x008
								10	TAE/03x010
								12	TAE/03x012
								16	TAE/03x016
								18	TAE/03x018
								20	TAE/03x020
				2,5	2,3	8	M4	8	TAE/04x008
								10	TAE/04x010
								12	TAE/04x012
16	TAE/04x016								
18	TAE/04x018								
20	TAE/04x020								
25	TAE/04x025								
30	TAE/04x030								
35	TAE/04x035								
40	TAE/04x040								
3	2,8	10	M5	8	TAE/05x008				
				10	TAE/05x010				
				12	TAE/05x012				
				16	TAE/05x016				
				18	TAE/05x018				
				20	TAE/05x020				
				25	TAE/05x025				
				30	TAE/05x030				
				35	TAE/05x035				
				40	TAE/05x040				

S	h	d2	d1	L	REF.
3	2,8	10	M5	45	TAE/05x045
				50	TAE/05x050
				55	TAE/05x055
				60	TAE/05x060
				70	TAE/05x070
				4	3,3
12	TAE/06x012				
16	TAE/06x016				
18	TAE/06x018				
20	TAE/06x020				
25	TAE/06x025				
30	TAE/06x030				
35	TAE/06x035				
40	TAE/06x040				
45	TAE/06x045				
50	TAE/06x050				
55	TAE/06x055				
60	TAE/06x060				
70	TAE/06x070				
5	4,4	16	M8	10	TAE/08x010
				16	TAE/08x016
				18	TAE/08x018
				20	TAE/08x020
				25	TAE/08x025
				30	TAE/08x030
				35	TAE/08x035
				40	TAE/08x040
				45	TAE/08x045
				50	TAE/08x050



S	h	d2	d1	L	REF.
5	4,4	16	M8	55	TAE/08x055
				60	TAE/08x060
				70	TAE/08x070
				80	TAE/08x080
				90	TAE/08x090
				100	TAE/08x100
6	5,5	20	M10	16	TAE/10x016
				18	TAE/10x018
				20	TAE/10x020
				25	TAE/10x025
				30	TAE/10x030
				35	TAE/10x035
				40	TAE/10x040
				45	TAE/10x045
				50	TAE/10x050
				55	TAE/10x055
				60	TAE/10x060
				70	TAE/10x070
				80	TAE/10x080
				90	TAE/10x090
100	TAE/10x100				
8	6,5	24	M12	20	TAE/12x020
				25	TAE/12x025
				30	TAE/12x30
				35	TAE/12x035
				40	TAE/12x040
				45	TAE/12x045
				50	TAE/12x050
				55	TAE/12x055
				60	TAE/12x060
				70	TAE/12x070
80	TAE/12x080				

S	h	d2	d1	L	REF.
8	6,5	24	M12	90	TAE/12x090
				100	TAE/12x100
10	7	27	M14	25	TAE/14x025
				30	TAE/14x030
				35	TAE/14x035
				40	TAE/14x040
				45	TAE/14x045
				50	TAE/14x050
				55	TAE/14x055
				60	TAE/14x060
	7,5	30	M16	25	TAE/16x025
				30	TAE/16x030
				35	TAE/16x035
				40	TAE/16x040
				45	TAE/16x045
				50	TAE/16x050
12	8,5	36	M20	55	TAE/16x055
				60	TAE/16x060
				60	TAE/16x060
				70	TAE/16x070
				70	TAE/16x070
				80	TAE/16x080
				80	TAE/16x080
				90	TAE/16x090
				100	TAE/16x100
				12	8,5
45	TAE/20x045				
50	TAE/20x050				
55	TAE/20x055				
55	TAE/20x055				
60	TAE/20x060				
70	TAE/20x070				
80	TAE/20x080				

10

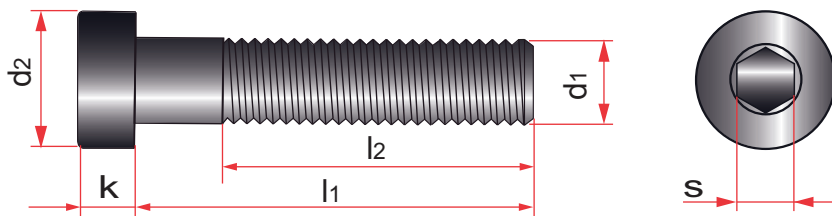
Cylinder head screw, flat head

Tornillo allen cabeza baja

Śruba z łbem walcowym , z niskim łbem

Parafuso cabeça cilíndrica rebaixada

Vis tete cylindrique basse, a 6 pans creux



DIN 7984. 800 N/mm².

s	l2	k	d2	d1	l1	REF.
3	-	2,8	7	M4	8	UFK-10.9-M-04X008
					10	UFK-10.9-M-04X010
					12	UFK-10.9-M-04X012
					16	UFK-10.9-M-04X016
					20	UFK-10.9-M-04X020
					25	UFK-10.9-M-04X025
4	-	3,5	8,5	M5	8	UFK-10.9-M-05X008
					10	UFK-10.9-M-05X010
					12	UFK-10.9-M-05X012
					16	UFK-10.9-M-05X016
					20	UFK-10.9-M-05X020
					25	UFK-10.9-M-05X025
5	-	4	10	M6	8	UFK-10.9-M-06X008
					10	UFK-10.9-M-06X010
					12	UFK-10.9-M-06X012
					16	UFK-10.9-M-06X016
					20	UFK-10.9-M-06X020
					25	UFK-10.9-M-06X025

s	l2	k	d2	d1	l1	REF.
6	-	5	13	M8	12	UFK-10.9-M-08X012
					16	UFK-10.9-M-08X016
					20	UFK-10.9-M-08X020
					25	UFK-10.9-M-08X025
					30	UFK-10.9-M-08X030
					35	UFK-10.9-M-08X035
					40	UFK-10.9-M-08X040
					45	UFK-10.9-M-08X045
					50	UFK-10.9-M-08X050
					60	UFK-10.9-M-08X060
8	-	6,5	16	M10	16	UFK-10.9-M-10X016
					20	UFK-10.9-M-10X020
					25	UFK-10.9-M-10X025
					30	UFK-10.9-M-10X030
					35	UFK-10.9-M-10X035
					40	UFK-10.9-M-10X040
					45	UFK-10.9-M-10X045
					50	UFK-10.9-M-10X050
					70	UFK-10.9-M-10X070

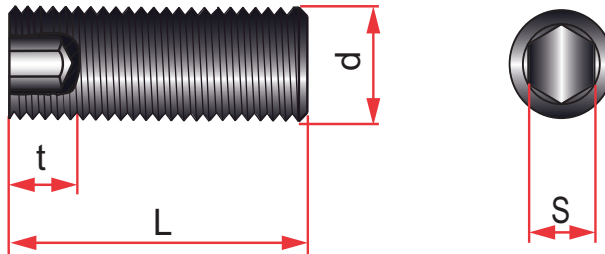
Hexagon socket set screw with flat point

Espárrago allen

Wkręt dociskowy

Perno roscado

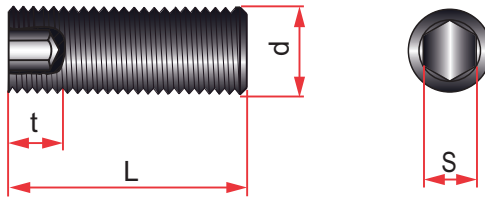
Vis sans tete a 6 pans creux bout plat



DIN 913-45H. 120 Kg/mm².

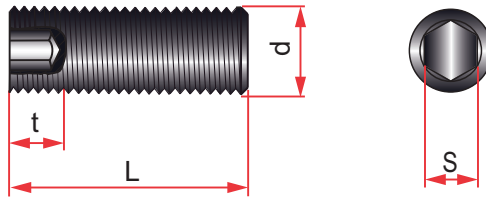
t	S	d	L	REF.
2,5	1,5	M3	3	VRA/03x003
			4	VRA/03x004
			5	VRA/03x005
			6	VRA/03x006
			8	VRA/03x008
			10	VRA/03x010
			12	VRA/03x012
			16	VRA/03x016
			20	VRA/03x020
			25	VRA/03x025
			30	VRA/03x030
3	2	M4	3	VRA/04x003
			4	VRA/04x004
			5	VRA/04x005
			6	VRA/04x006
			8	VRA/04x008
			10	VRA/04x010
			12	VRA/04x012
			16	VRA/04x016
			20	VRA/04x020
			25	VRA/04x025
			30	VRA/04x030
35	VRA/04x035			
40	VRA/04x040			
3,5	2,5	M5	4	VRA/05x004

t	S	d	L	REF.
3,5	2,5	M5	5	VRA/05x005
			6	VRA/05x006
			8	VRA/05x008
			10	VRA/05x010
			12	VRA/05x012
			16	VRA/05x016
			20	VRA/05x020
			25	VRA/05x025
			30	VRA/05x030
			35	VRA/05x035
			40	VRA/05x040
45	VRA/05x045			
4	3	M6	5	VRA/06x005
			6	VRA/06x006
			8	VRA/06x008
			10	VRA/06x010
			12	VRA/06x012
			16	VRA/06x016
			20	VRA/06x020
			25	VRA/06x025
			30	VRA/06x030
			35	VRA/06x035
			40	VRA/06x040
45	VRA/06x045			
50	VRA/06x050			



t	S	d	L	REF.
4	3	M6	55	VRA/06x055
			60	VRA/06x060
5	4	M8	6	VRA/08x006
			8	VRA/08x008
			10	VRA/08x010
			12	VRA/08x012
			16	VRA/08x016
			20	VRA/08x020
			25	VRA/08x025
			30	VRA/08x030
			35	VRA/08x035
			40	VRA/08x040
			45	VRA/08x045
			50	VRA/08x050
			55	VRA/08x055
			60	VRA/08x060
6	5	M10	8	VRA/10x008
			10	VRA/10x010
			12	VRA/10x012
			16	VRA/10x016
			20	VRA/10x020
			25	VRA/10x025
			30	VRA/10x030
			35	VRA/10x035
			40	VRA/10x040
			45	VRA/10x045
			50	VRA/10x050
			55	VRA/10x055

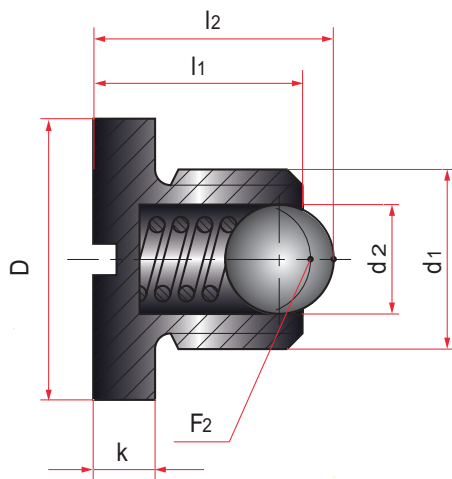
t	S	d	L	REF.
6	5	M10	60	VRA/10x060
			70	VRA/10x070
			80	VRA/10x080
			90	VRA/10x090
			100	VRA/10x100
8	6	M12	10	VRA/12x010
			12	VRA/12x012
			16	VRA/12x016
			20	VRA/12x020
			25	VRA/12x025
			30	VRA/12x030
			35	VRA/12x035
			40	VRA/12x040
			45	VRA/12x045
			50	VRA/12x050
		55	VRA/12x055	
		60	VRA/12x060	
		70	VRA/12x070	
		80	VRA/12x080	
		90	VRA/12x090	
		100	VRA/12x100	
		M14	12	VRA/14x012
			16	VRA/14x016
			20	VRA/14x020
			25	VRA/14x025
			30	VRA/14x030
			35	VRA/14x035
		40	VRA/14x040	
		45	VRA/14x045	
		50	VRA/14x050	
		55	VRA/14x055	
		60	VRA/14x060	



t	S	d	L	REF.
8	6	M14	70	VRA/14x070
			80	VRA/14x080
			90	VRA/14x090
			100	VRA/14x100
10	8	M16	12	VRA/16x012
			16	VRA/16x016
			20	VRA/16x020
			25	VRA/16x025
			30	VRA/16x030
			35	VRA/16x035
			40	VRA/16x040
			45	VRA/16x045
			50	VRA/16x050
			55	VRA/16x055
			60	VRA/16x060
			70	VRA/16x070
			80	VRA/16x080
90	VRA/16x090			
100	VRA/16x100			
12	10	M18	20	VRA/18x020
			25	VRA/18x025
			30	VRA/18x030
			35	VRA/18x035

t	S	d	L	REF.
12	10	M18	40	VRA/18x040
			45	VRA/18x045
			50	VRA/18x050
			55	VRA/18x055
			60	VRA/18x060
			70	VRA/18x070
			80	VRA/18x080
			90	VRA/18x090
			100	VRA/18x100
			M20	20
		25		VRA/20x025
		30		VRA/20x030
		35		VRA/20x035
		40		VRA/20x040
		45		VRA/20x045
			50	VRA/20x050
55	VRA/20x055			
60	VRA/20x060			
70	VRA/20x070			
80	VRA/20x080			
	90	VRA/20x090		
	100	VRA/20x100		

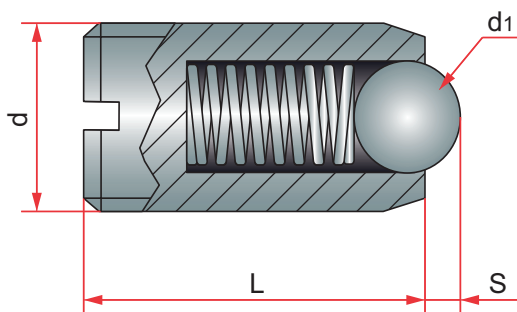
Spring stop
 Posicionador de bola
 Zatrask kulkowy
 Perno roscado com esfera
 Vis a bille a tête fendue



Mat. : 1.0718. Maximum temperature at work: 250° C.

d2	D	K	F2	l1	l2	d1	REF.
2,5	6	2,5	11,6	9	9,8	M4	BR36/ M04
3	8	3,5	13,3	12	12,9	M5	BR36/ M05
3,5	10	5	15,1	14	15	M6	BR36/ M06
5	13		29,5	16	17,5	M8	BR36/ M08
6	16	6	43	20	22	M10	BR36/ M10
8	18	7	59,8	22	24,5	M12	BR36/ M12

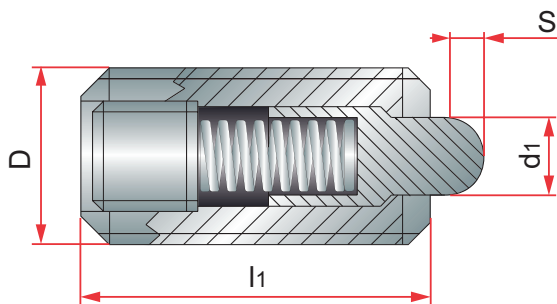
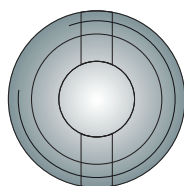
Spring stop
 Posicionador de bola
 Zatrask kulkowy
 Perno roscado com esfera
 Vis a bille a tête fendue



Mat. : Alloy steel. Hardness: HRC 38-42

S	d1	L	d	REF.
0,8	2,5	9	M4	POS/M04
0,9	3	12	M5	POS/M05
1	3,5	14	M6	POS/M06
2	5	16	M8	POS/M08
	6	19	M10	POS/M10
3	8	22	M12	POS/M12
3,5	10	24	M16	POS/M16

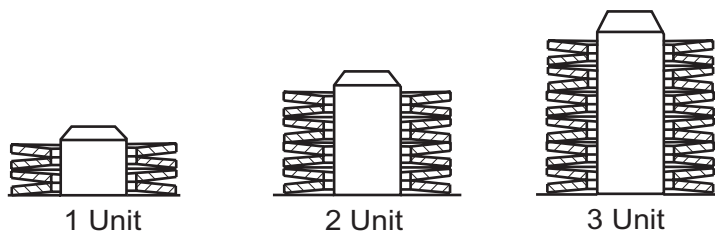
Spring stop
 Posicionador de bola
 Zatrząsk trzpieniowy
 Perno roscado com esfera
 Vis a bille a tête fendue



Mat. : Alloy steel. Hardness: HRC 38-42

Strength (Kg. f.)		S	d1	l1	D	REF.
Initial	Final					
0,2	0,3	0,8	1	12	M3	BR372/03
0,5	1,2	1,2	1,5	15	M4	BR372/04
0,7	1,6	1,8	2,4	18	M5	BR372/05
		2	2,7	20	M6	BR372/06
0,9	2,9	2,4	3,5	22	M8	BR372/08
			4		M10	BR372/10
1,5	4,5	3,2	6	28	M12	BR372/12
4,6	8,2	4	7,5	32	M16	BR372/16
7,1	11,4	5,6	10	40	M20	BR372/20
8,2	14,7	8	12	52	M24	BR372/24

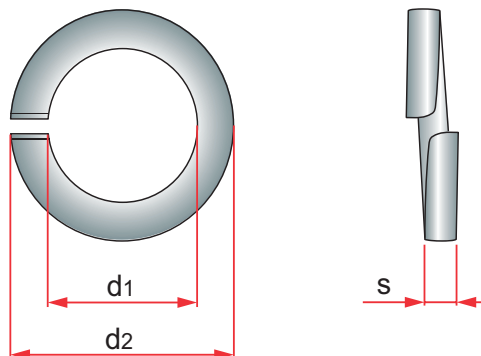
Disc spring mup
 Muelle mup
 Sprężyna talerzowa
 Mola de disco mup
 Rondelle ressort mup



Mat. 51CrV4 - DIN EN 16983 - T.max. 150°C

s	h	De	Di	REF.
0,60	0,45	16,00	8,20	MUP/ 16,00
0,80	0,55	20,00	10,20	MUP/ 20,00
0,90	0,70	25,00	12,20	MUP/ 25,00
1,00	0,80	28,00	14,20	MUP/ 28,00
1,25	0,90	31,50	16,30	MUP/ 31,50
	1,00	35,50	18,30	MUP/ 35,50
1,50	1,15	40,00	20,40	MUP/ 40,00

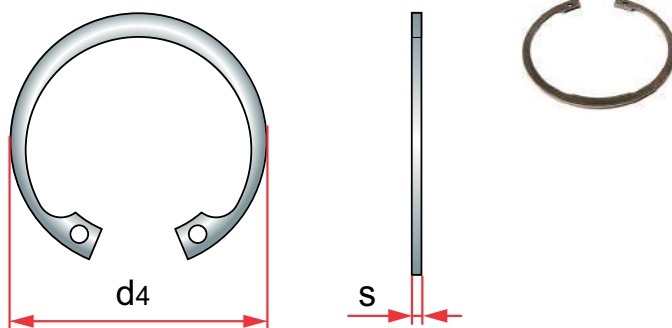
Spring washer
Arandela de seguridad
Podkładka sprężysta
Anilha pressão fixação
Rondelle de sécurité



DIN 7980

s1	d2	d1	REF.
1	5,6	3,1	BR1585/03,10
1,2	7	4,1	BR1585/04,10
1,6	8,8	5,1	BR1585/05,10
1,6	9,9	6,1	BR1585/06,10
2	12,7	8,1	BR1585/08,10
2,5	16	10,2	BR1585/10,20
2,5	18	12,2	BR1585/12,20
3,5	24,4	16,2	BR1585/16,20
4,5	30,6	20,2	BR1585/20,20
5	35,9	24,5	BR1585/24,50

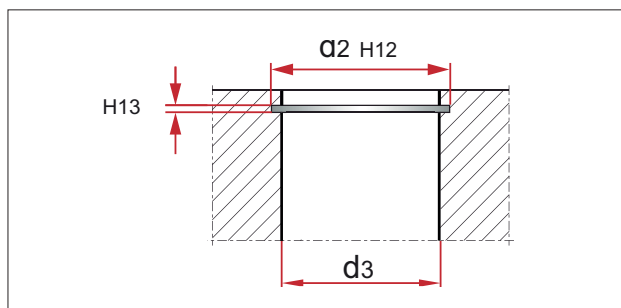
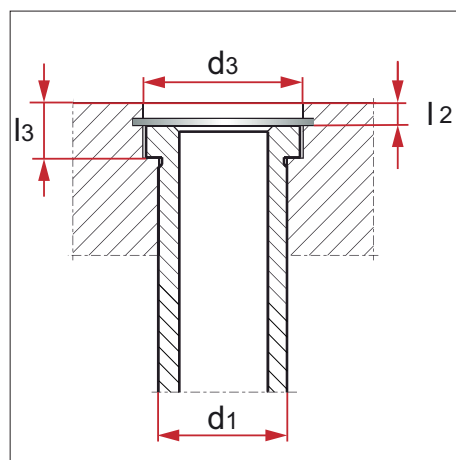
Seeger circlip ring
 Anillo Seeger interior
 Pierścień Seegera wewnętrzny
 Freio para interiores
 Circlips intérieur



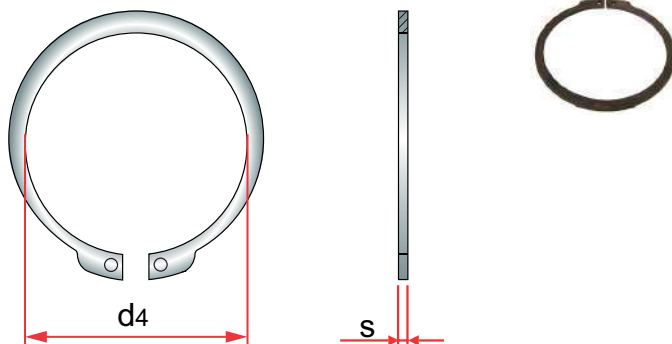
DIN 472

l1	s	d2	d4	d3	REF.
1,1	1	10,4	10,8	10	BR1570/10
		12,5	13	12	BR1570/12
		14,6	15,1	14	BR1570/14
		16,8	17,3	16	BR1570/16
		17,8	18,3	17	BR1570/17
		19	19,5	18	BR1570/18
		21	21,5	20	BR1570/20
		23	23,5	22	BR1570/22
1,3	1,2	25,2	25,9	24	BR1570/24
		27,2	27,9	26	BR1570/26
		31,4	32,1	30	BR1570/30
		33,7	34,4	32	BR1570/32
1,6	1,5	38	38,8	36	BR1570/36
1,85	1,75	42,5	43,5	40	BR1570/40
		44,5	45,5	42	BR1570/42
		50,5	51,5	48	BR1570/48
2,15	2	58	59,2	55	BR1570/55
		63	64,2	60	BR1570/60
2,65	2,5	75	76,5	72	BR1570/72
3,15	3	88,5	90,5	85	BR1570/85

d3	d1	l2	l3
24	18	3	9,3
26	20	3	9,3
32	26	4	10,3
36	30	5	11,3
48	42	6	12,3
60	54	7	17,3
72	66	8	18,3

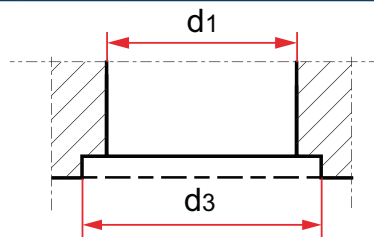
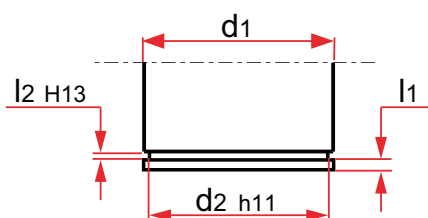


Circlip for axles
Anillo Seeger exterior
Pierścień Seegera zewnętrzny
Freio para exteriores
Circlips pour arbre

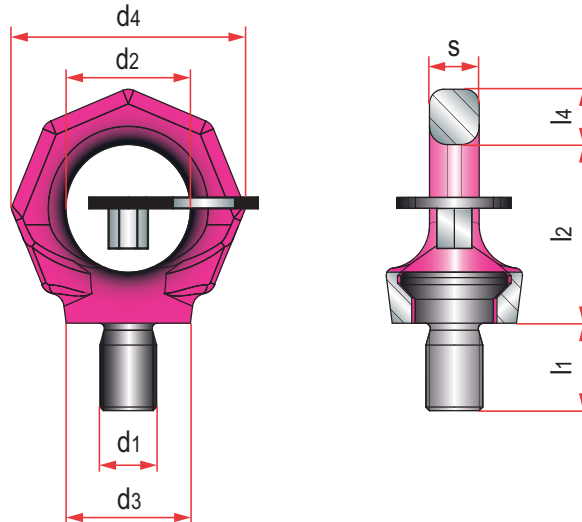


DIN 471

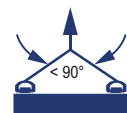
l1 min.	l2	s	d2	d3	d4	d1	REF.	
0,6	1,1	1	8,6	16	8,4	9	BR1575/09	
			9,6	17,6	9,3	10	BR1575/10	
0,8	1,3	1,2	11,5	19,6	11	12	BR1575/12	
0,9			13,4	22	12,9	14	BR1575/14	
1,1			14,3	22,6	13,8	15	BR1575/15	
1,2			15,2	23,8	14,7	16	BR1575/16	
1,5			17	26,8	16,5	18	BR1575/18	
1,7	1,3	1,2	19	29	18,5	20	BR1575/20	
			21	30,8	20,5	22	BR1575/22	
			22,9	33,2	22,2	24	BR1575/24	
			23,9	34,2	23,2	25	BR1575/25	
24,9	35,5	24,2	26	BR1575/26				
2,1	1,6	1,5	28,6	40,5	27,9	30	BR1575/30	
2,6			30,3	43	29,6	32	BR1575/32	
3,8	1,85	1,75	36	50,2	35,2	38	BR1575/38	
			37,5	52,6	36,5	40	BR1575/40	
			39,5	55,7	38,5	42	BR1575/42	
			45,5	62,6	44,5	48	BR1575/48	
4,5	2,15	2	47	64,5	45,8	50	BR1575/50	
			49	66	47,8	52	BR1575/52	
			52	70,2	50,8	55	BR1575/55	
			55	73,6	53,8	58	BR1575/58	
	2,65	2,5	2,5	62	81,4	60,8	65	BR1575/65
				67	87	65,5	70	BR1575/70



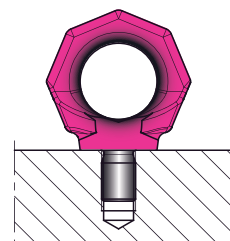
Revolvable eye bolt
 Cncamo giratorio
 Zawiesie rubowe obrotowe
 Olhal rotativo
 Anneau de levage pivotant



l1	l2	l4	d2	d3	d4	s4	d1	REF.
15	34	11	25	25	47	9	M10	BR1272/10
18	42	13	30	30	56	10	M12	BR1272/12
24	49	15	35	35	65	14	M16	BR1272/16
30	57	17	40	40	75	16	M20	BR1272/20
36	69	21	48	48	90	19	M24	BR1272/24
45	86	26	60	60	112	24	M30	BR1272/30
54	103	32	72	75	135	29	M36	BR1272/36



d1	Max. kg	Max. kg	Max. kg	Max. kg
M10	1000	400	800	560
M12	2000	750	1500	1000
M16	4000	1500	3000	2100
M20	6000	2300	4600	3200
M24	8000	3200	6400	4500
M30	12000	4500	9000	6300
M36	16000	7000	14000	9800

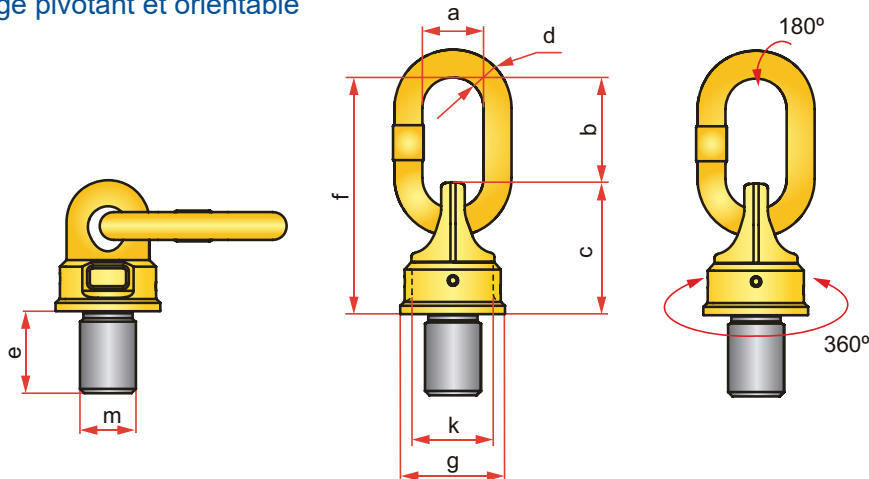


BR1274

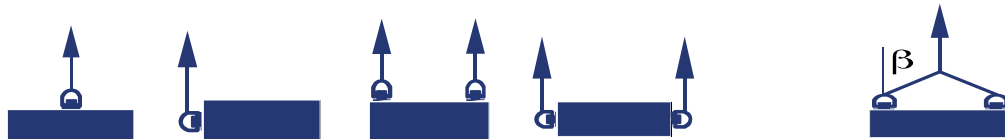
E 1274, Z 721



Revolvable and tirtable eye bolt
 Cánkamo giratorio y orientable
 Zawiesie śrubowe obrotowe, wahlwi
 Olhal articulado
 Anneau de levage pivotant et orientable

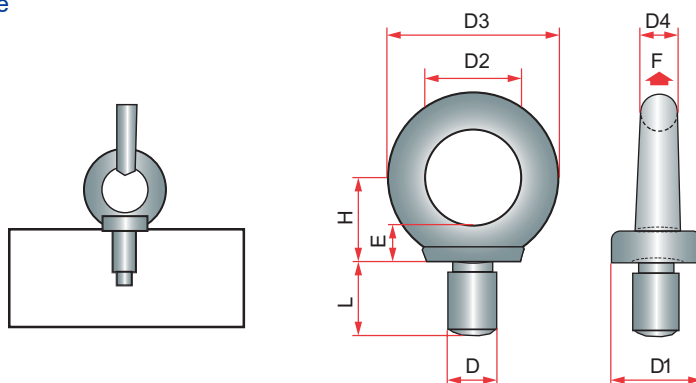


	a	b	c	d	e	f	g	k	REF.
M10	29	32	40	8	15	75	35	30	BR1274/10
M12	35	50	45	10	18	95	40	36	BR1274/12
M16	38		54	13	24	104	46	41	BR1274/16
M20		54	68		30	122	62	55	BR1274/20
M24	40	66	88	19	36	154	78	70	BR1274/24
M30	50	86	120	22	46	206	90	80	BR1274/30
M36					55				BR1274/36
M42	65	110	122	25	64	235	98	84	BR1274/42



d1	Max. kg	Max. kg	Max. kg	Max. kg	Max.Kg (<45°)	Max.Kg (45-60°)
M10	900	450	1800	900	600	400
M12	1200	600	2400	1200	800	600
M16	2600	1300	5200	2600	1800	1300
M20	4000	2000	8000	4000	2800	2000
M24	7000	3500	14000	7000	4900	3500
M30	10000	5000	20000	10000	7000	5000
M36	15000	8000	30000	16000	11200	8000
M42	17000	12000	34000	24000	16800	12000

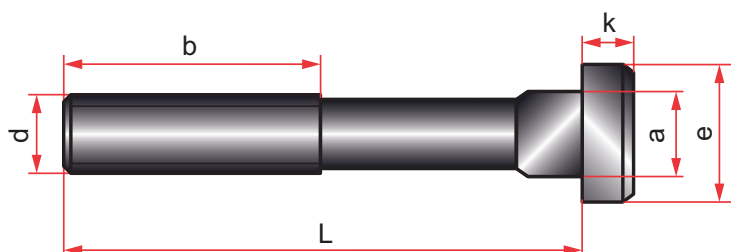
Lifting bolt
 Cánkamos
 Šruba z uchem
 Olhal de elevação
 Anneu de levege



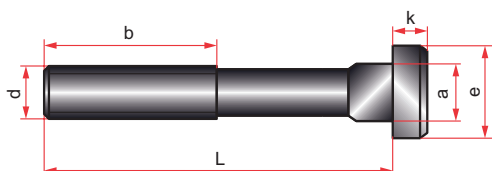
DIN 580

F (Kp)	E	H	L	D4	D3	D2	D1	D	REF.
85	8,50	18	15	8	36	20	20	8	CAN/ 08
150	10	22	18	10	45	25	25	10	CAN/ 10
220	11	28	22	12	54	30	30	12	CAN/ 12
								14	CAN/ 14
380	13	30	28	14	63	35	35	16	CAN/ 16
570	16	35	30	16	72	40	40	20	CAN/ 20
1050	18	45	38	20	90	50	50	24	CAN/ 24
1700	22	55	45	24	108	60	65	30	CAN/ 30
2500	26	65	56	28	126	70	75	36	CAN/ 36
3400	30	75	65	32	144	80	85	42	CAN/ 42

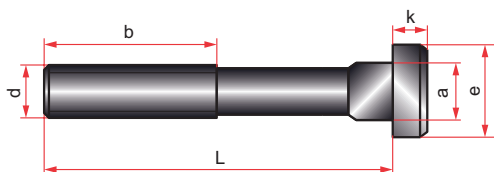
T slot bolts forged
 Tensor forjado
 Śruba do rowków teowych
 Parafuso em T
 Boulons forgés en T



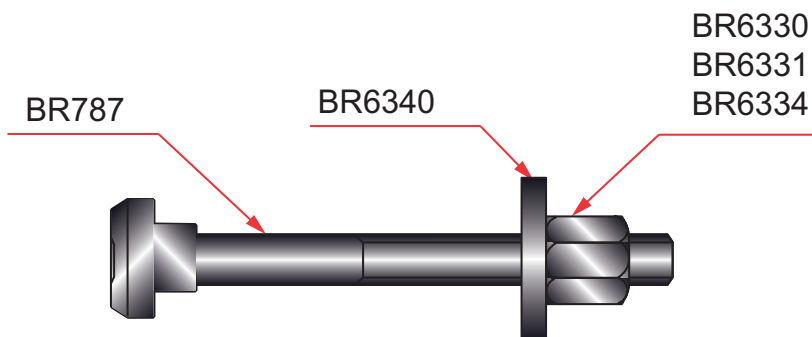
d	L	b	a	k	e	REF.
M10	40	30	9,7	6	15	BR787/10M10x 40
	63	45				BR787/10M10x 63
	100	60				BR787/10M10x100
M12	50	35	11,5	7	18	BR787/12M12x 50
	63	40				BR787/12M12x 63
	80	55				BR787/12M12x 80
	100	63				BR787/12M12x100
	125	75				BR787/12M12x125
	160	100				BR787/12M12x160
	200	120				BR787/12M12x200
M12	50	35	13,5	8	22	BR787/14M12x 50
	63	40				BR787/14M12x 63
	80	55				BR787/14M12x 80
	100	63				BR787/14M12x100
	125	75				BR787/14M12x125
	160	100				BR787/14M12x160
	200	120				BR787/14M12x200
M14	63	45	15,5	9	25	BR787/16M14x 63
	80	55				BR787/16M14x 80
	100	63				BR787/16M14x100
	160	100				BR787/16M14x160
	200	120				BR787/16M14x200
	250	160				BR787/16M14x250
M16	63	45				BR787/16M16x 63



d	L	b	a	k	e	REF.	
M16	80	55	15,5	9	25	BR787/16M16x 80	
	100	63				BR787/16M16x100	
	125	75				BR787/16M16x125	
	160	100				BR787/16M16x160	
	200	125				BR787/16M16x200	
	250	160				BR787/16M16x250	
	63	45	17,5	10	28	BR787/18M16x 63	
	80	55				BR787/18M16x 80	
	100	63				BR787/18M16x100	
	125	75				BR787/18M16x125	
	160	100				BR787/18M16x160	
	200	125				BR787/18M16x200	
	250	160	BR787/18M16x250				
	M20	80	55	19,5	12	32	BR787/20M20x 80
		100	63				BR787/20M20x100
		125	85				BR787/20M20x125
160		110	BR787/20M20x160				
200		125	BR787/20M20x200				
250		160	BR787/20M20x250				
315		180	BR787/20M20x315				
80		55	21,5				14
100		63		BR787/22M20x100			
125		85		BR787/22M20x125			
160		100		BR787/22M20x160			
200		125		BR787/22M20x200			
250		160		BR787/22M20x250			
315		180	BR787/22M20x315				
M24	100	70	23,5	16	40	BR787/24M24x100	
	125	85				BR787/24M24x125	



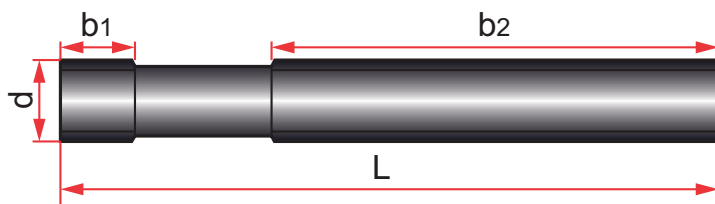
d	L	b	a	k	e	REF.
M24	160	110	23,5	16	40	BR787/24M24x160
	200	125				BR787/24M24x200
	250	160				BR787/24M24x250
	315	180				BR787/24M24x315
	400	250				BR787/24M24x400
M28	100	70	27,5	18	44	BR787/28M24x100
	125	85				BR787/28M24x125
	160	110				BR787/28M24x160
	200	125				BR787/28M24x200
	250	160				BR787/28M24x250
	315	180				BR787/28M24x315
	400	250				BR787/28M24x400



BR6379



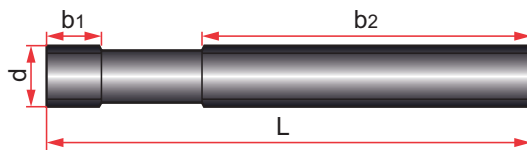
Bolt
Tensor
Śruba dwustronna
Extensor roscado
Goujons



d	L	b1	b2	REF.
M6	40	9	20	BR6379/ 6 x 40
	60		37	BR6379/ 6 x 60
	70		50	BR6379/ 6 x 70
	80		60	BR6379/ 6 x 80
M8	40	11	20	BR6379/ 8 x 40
	63		40	BR6379/ 8 x 63
	85		55	BR6379/ 8 x 85
	100		63	BR6379/ 8 x 100
	125		75	BR6379/ 8 x 125
	160		100	BR6379/ 8 x 160
M10	50	13	25	BR6379/ 10 x 50
	63		32	BR6379/ 10 x 63
	80		50	BR6379/ 10 x 80
	100		63	BR6379/ 10 x 100
	125		75	BR6379/ 10 x 125
	140		80	BR6379/ 10 x 140
	160		100	BR6379/ 10 x 160
	200		125	BR6379/ 10 x 200
M12	50	15	25	BR6379/ 12 x 50
	63		32	BR6379/ 12 x 63
	80		50	BR6379/ 12 x 80
	100		63	BR6379/ 12 x 100
	125		75	BR6379/ 12 x 125
	160		100	BR6379/ 12 x 160

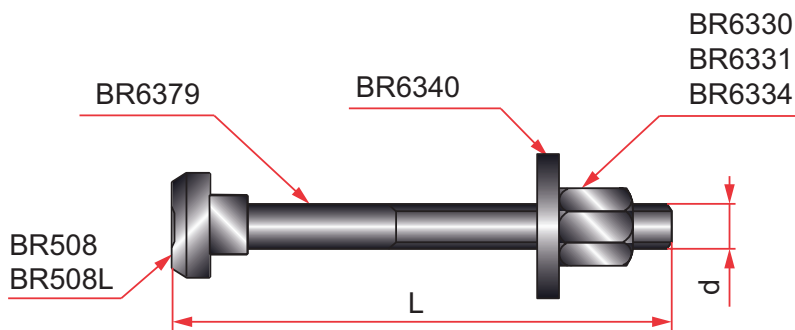
d	L	b1	b2	REF.
M12	200	15	125	BR6379/ 12 x 200
M14	63	17	32	BR6379/ 14 x 63
	80		50	BR6379/ 14 x 80
	100		63	BR6379/ 14 x 100
	125		75	BR6379/ 14 x 125
	160		100	BR6379/ 14 x 160
	200		125	BR6379/ 14 x 200
M16	250	19	160	BR6379/ 14 x 250
	63		32	BR6379/ 16 x 63
	80		50	BR6379/ 16 x 80
	100		63	BR6379/ 16 x 100
	125		75	BR6379/ 16 x 125
	160		100	BR6379/ 16 x 160
M18	200	23	125	BR6379/ 16 x 200
	250		160	BR6379/ 16 x 250
	315		180	BR6379/ 16 x 315
	80		50	BR6379/ 18 x 80
	100		63	BR6379/ 18 x 100
	125		75	BR6379/ 18 x 125
	160		100	BR6379/ 18 x 160
M20	200	27	125	BR6379/ 18 x 200
	250		160	BR6379/ 18 x 250
	315		180	BR6379/ 18 x 315
	80		32	BR6379/ 20 x 80

10



d	L	b1	b2	REF.
M20	100	27	63	BR6379/ 20 x 100
	125		75	BR6379/ 20 x 125
	160		100	BR6379/ 20 x 160
	200		125	BR6379/ 20 x 200
	250		160	BR6379/ 20 x 250
	315		180	BR6379/ 20 x 315
M22	100	31	45	BR6379/ 22 x 100
	125		75	BR6379/ 22 x 125
	160		100	BR6379/ 22 x 160
	200		125	BR6379/ 22 x 200
	250		160	BR6379/ 22 x 250

d	L	b1	b2	REF.
M22	315	31	180	BR6379/ 22 x 315
	400		250	BR6379/ 22 x 400
M24	100	35	45	BR6379/ 24 x 100
	125		75	BR6379/ 24 x 125
	160		100	BR6379/ 24 x 160
	200		125	BR6379/ 24 x 200
	250		160	BR6379/ 24 x 250
	315		180	BR6379/ 24 x 315
	350		210	BR6379/ 24 x 350
	400		250	BR6379/ 24 x 400



Stud-rolled thread
 Varilla roscada
 Pręt gwintowany
 Varão roscado
 Tige filetage

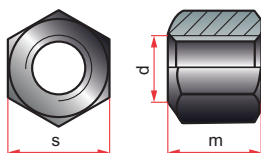


d	L	Quality	REF.	d	L	Quality	REF.	
M03	1000	5.6	BR975/5.6-M03	M20	1000	8.8	BR975/8.8-M20	
M04			BR975/5.6-M04	M22			BR975/8.8-M22	
M05			BR975/5.6-M05	M24			BR975/8.8-M24	
M06			BR975/5.6-M06	M27			BR975/8.8-M27	
M08			BR975/5.6-M08	M30			BR975/8.8-M30	
M10			BR975/5.6-M10	M33			BR975/8.8-M33	
M12			BR975/5.6-M12	M36			BR975/8.8-M36	
M14			BR975/5.6-M14	M42			BR975/8.8-M42	
M16			BR975/5.6-M16	A2			BR975/A2-M03	
M18			BR975/5.6-M18				M04	BR975/A2-M04
M20			BR975/5.6-M20				M05	BR975/A2-M05
M22			BR975/5.6-M22				M06	BR975/A2-M06
M24			BR975/5.6-M24				M08	BR975/A2-M08
M27			BR975/5.6-M27				M10	BR975/A2-M10
M30			BR975/5.6-M30				M12	BR975/A2-M12
M33			BR975/5.6-M33				M14	BR975/A2-M14
M36		BR975/5.6-M36	M16		BR975/A2-M16			
M06		8.8	BR975/8.8-M06		M18	BR975/A2-M18		
M08			BR975/8.8-M08		M20	BR975/A2-M20		
M10			BR975/8.8-M10		M22	BR975/A2-M22		
M12	BR975/8.8-M12		M24		BR975/A2-M24			
M14	BR975/8.8-M14		M27		BR975/A2-M27			
M16	BR975/8.8-M16		M30	BR975/A2-M30				
M18	BR975/8.8-M18							

BR6330



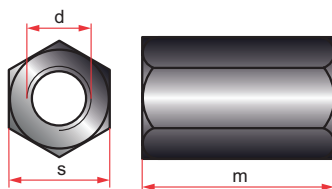
High nuts
Tuerca alta
Nakrętka
Porca alta
Ecrou hexagonal



	m	s	REF.
M6	8	9	BR6330B/M-06
M8	12	13	BR6330B/M-08
M10	15	17	BR6330B/M-10
M12	18	19	BR6330B/M-12
M14	21	22	BR6330B/M-14
M16	24	24	BR6330B/M-16
M18	27	27	BR6330B/M-18
M20	30	30	BR6330B/M-20
M22	33	32	BR6330B/M-22
M24	36	36	BR6330B/M-24

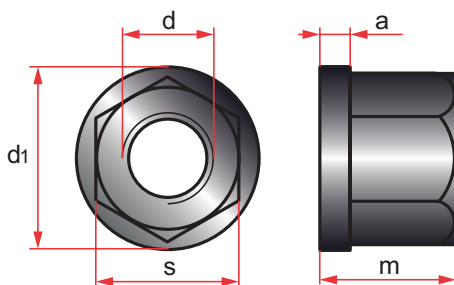
BR6334

Extension nuts
Tuerca de prolongación
Nakrętka wysoka
Porca de prolongamento para extensores
Ecrou allongé



d	m	s	REF.
M6	18	10	BR6334/ M-6
M8	24	13	BR6334/ M-8
M10	30	17	BR6334/M-10
M12	36	19	BR6334/M-12
M14	42	22	BR6334/M-14
M16	48	24	BR6334/M-16
M18	54	27	BR6334/M-18
M20	60	30	BR6334/M-20
M22	66	32	BR6334/M-22
M24	72	36	BR6334/M-24

Flanged nuts
Tuerca con collarín
Nakrętka kołnierzowa
Porca com gola
Ecroû hexagonal à embase

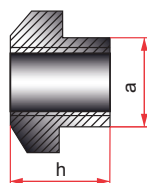


d	s	m	d1	a	REF.
M6	10	9	14	3	BR6331/M-06
M8	13	12	18	3,5	BR6331/M-08
M10	17	15	22	4	BR6331/M-10
M12	19	18	25		BR6331/M-12
M14	22	21	28	4,5	BR6331/M-14
M16	24	24	31	5	BR6331/M-16
M18	27	27	34		BR6331/M-18
M20	30	30	37	6	BR6331/M-20
M22	32	33	40		BR6331/M-22
M24	36	36	45		BR6331/M-24

BR508



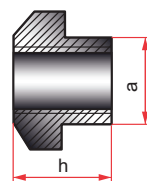
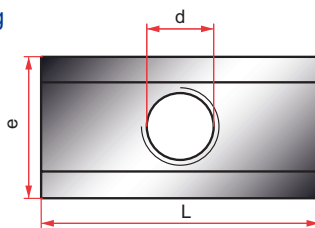
T slot nuts
 Tuerca en T
 Nakrętka teowa
 Porca em T
 Tasseaux pour rainures en T



d	e	h	a	REF.
M5	10	8	5,7	BR508/M-05
M6	13	10	7,7	BR508/M-06
M8	15	12	9,7	BR508/M-08
M10	18	14	11,7	BR508/M-10
M12	22	16	13,7	BR508/M-12
M14	25	18	15,7	BR508/M-14
M16	28	20	17,7	BR508/M-16
M18	32	24	19,7	BR508/M-18
M20	35	28	21,7	BR508/M-20
M22	40	32	23,7	BR508/M-22
M24	44	36	27,7	BR508/M-24

BR508L

T slot nuts long
 Tuercas en T largas
 Nakrętka teowa wydłużona
 Porca longa em T
 Tasseaux pour rainures en T long

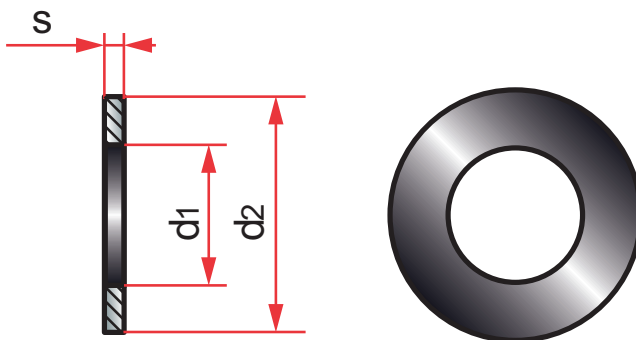


d	a	e	L	h	REF.
M8	9,7	15	30	12	BR508L/M-08
M10	11,7	18	36	14	BR508L/M-10
M12	13,7	22	44	16	BR508L/M-12
M14	15,7	25	50	18	BR508L/M-14
M16	17,7	28	56	20	BR508L/M-16
M18	19,7	32	64	24	BR508L/M-18
M20	21,7	35	70	28	BR508L/M-20
M22	23,7	40	80	32	BR508L/M-22
M24	27,7	44	88	36	BR508L/M-24

BR6340



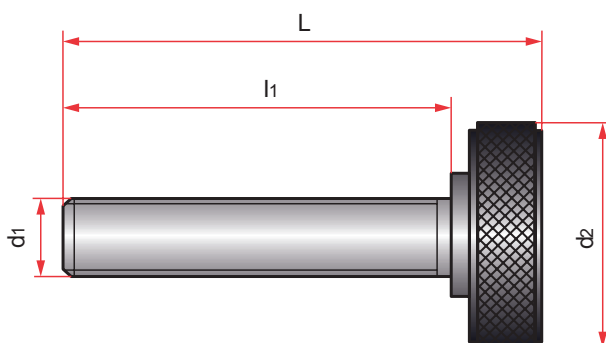
Washers
Arandelas
Podkładka
Anilhas
Rondelle plate



d1	d2	s	REF.
6,4	17	3	BR6340/M06
8,5	23	4	BR6340/M08
10,5	28	5	BR6340/M10
13	35		BR6340/M12
15	40	6	BR6340/M14
17	45		BR6340/M16
19	50		BR6340/M18
21		BR6340/M20	
23	60	8	BR6340/M22
25		BR6340/M24	

BR63141

Adjuster screw
 Tornillo de regulación
 Podpora śrubowa
 Parafuso de regulação em altura
 Vis de réglage

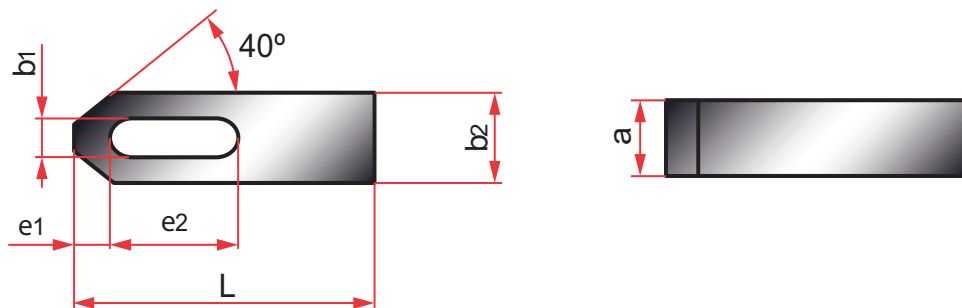


d1	d2	l1	L	REF.
M10	30	40	50	63141/M10
M12	35			63141/M12
M16	40	57	70	63141/M16
M20	50	65	80	63141/M20
M24	60	72	90	63141/M24

BR6314



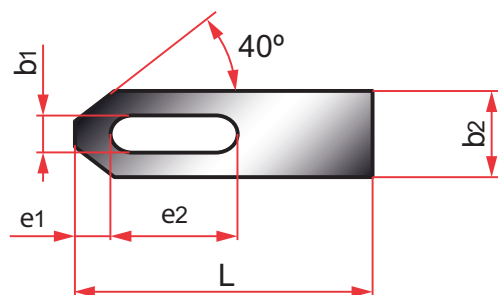
Plain clamps
Brida plana
Łapa dociskowa prosta
Barra de aperto plana
Bride droite



b_1	L	a	b_2	b_3	e_1	e_2	REF.
7	50	10	20	...	10	20	BR6314/07X050
9	60	12	25	10	13	22	BR6314/09X060
11	80	15	30	12	15	30	BR6314/11X080
14	80	20	40	14	21		BR6314/14X080
	100					40	BR6314/14X100
	125					50	BR6314/14X125
18	100	25	50	18	26	40	BR6314/18X100
	125					45	BR6314/18X125
	160					65	BR6314/18X160
22	160	30	60	22	30	60	BR6314/22X160
	200					80	BR6314/22X200
	250					100	BR6314/22X250
26	160	35	70	26	35	60	BR6314/26X160
	200					80	BR6314/26X200
	250	100	BR6314/26X250				

BR6314Z

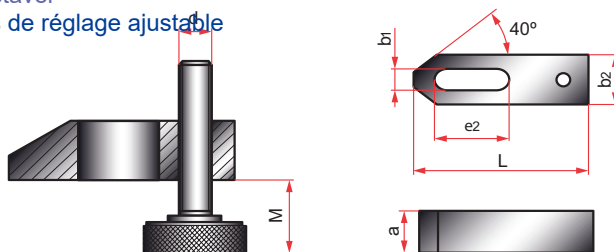
Step clamps
 Brida dentada
 Łapa dociskowa ząbkowana
 Barra de aperto dentada
 Bride crénelée



b1	L	a	b2	b3	e1	e2	REF.
7	50	10	20	8	10	20	BR6314Z/07X050
9	60	12	25	10	13	22	BR6314Z/09X060
11	80	20	30	12	15	30	BR6314Z/11X080
14	100		40	14	21	40	BR6314Z/14X100
18	125	25	50	18	26	45	BR6314Z/18X125
22	160	30	60	22	30	60	BR6314Z/22X160
26	200		70	26	35	80	BR6314Z/26X200

BR6314T

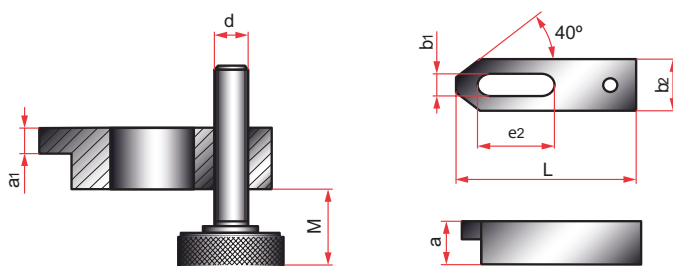
Ajustable clamps
 Brida ajustable
 Łapa dociskowa regulowana
 Barra de aperto ajustável
 Bride droite avec vis de réglage ajustable



b1	L	a	d	b2	M (min.)	M (max.)	e2	REF.
11	80	15	M10	30	8	27	30	BR6314T/11X080
14	100	20	M12	40	10	33	40	BR6314T/14X100
18	125	25	M16	50	13	41	45	BR6314T/18X125
							65	BR6314T/18X160
22	200	30	M20	60	16	55	60	BR6314T/22X160
26			M24	70	20	60	80	BR6314T/26X200

BR6314AT

Ajustable clamps
 Brida ajustable
 Łapa dociskowa regulowana
 Barra de aperto ajustável
 Bride droite avec vis de réglage ajustable

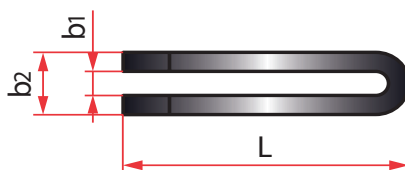
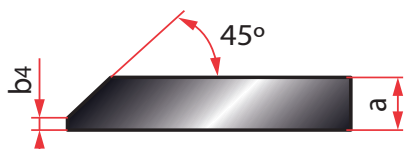


a1	b1	L	a	d	b2	M (min.)	M (max.)	e2	REF.
12	11	80	15	M10	30	8	27	30	BR6314AT/11X080
14	14	100	20	M12	40	10	33	40	BR6314AT/14X100
16	18	125	25	M16	50	13	41	45	BR6314AT/18X125
20	22	160	30	M20	60	16	55	60	BR6314AT/22X160

BR6315B



U clamps
 Brida horquilla
 Łapa dociskowa regulowana
 Barra de aperto ajustável
 Bride a fourche simple



b1	L	a	b2	b4	REF.	
7	60	12	12	3	BR6315B/07x060	
9	80	15	25	4	BR6315B/09x080	
11	100	20	31	15	BR6315B/11x100	
14	125	25	38	6	BR6315B/14x125	
	160				BR6315B/14x160	
	200				BR6315B/14x200	
18	160	30	48	8	BR6315B/18x160	
	200				40	BR6315B/18x200
	250					BR6315B/18x250
22	200	40	52	10	BR6315B/22x200	
	250		62		BR6315B/22x250	
	315		BR6315B/22x315			
26	200	40	66	10	BR6315B/26x200	
	250				BR6315B/26x250	
	315				BR6315B/26x315	

BR6315C

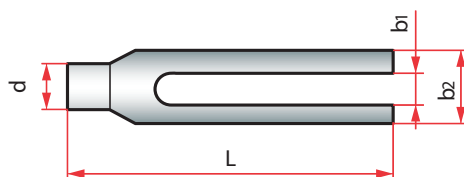
U finger clamps

Brida con espiga redonda

Łapa dociskowa widlasta z czopem

Barra de aperto em U com respiga redonda

Bride à fourche avec tourillon



b1	L	a	b2	d	REF.
14	160	25	40	20	BR6315C/14x160
	200				BR6315C/14x200
18	200	30	50	24	BR6315C/18x200
	250				BR6315C/18x250
22	250	40	60	30	BR6315C/22x250

BR6315GN

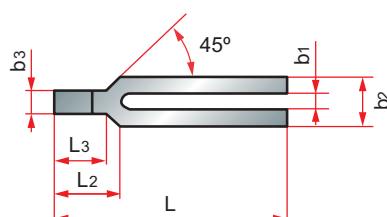
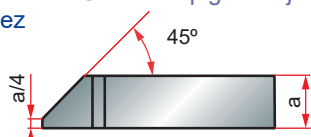
Nose clamps

Brida con nariz

Łapa dociskowa widlasta z noskiem

Barra de aperto em U com respiga facejada

Bride avec nez

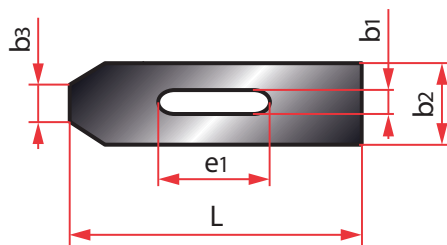
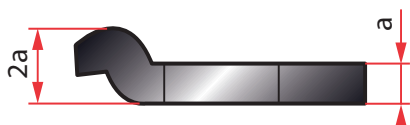


b1	L	a	b2	b3	L2	L3	REF.
9	100	15	30	16	32	18	BR6315GN/09X100
11	125	20		20	38	24	BR6315GN/11X125
14	160	25	40	24	47	30	BR6315GN/14X160
	200						BR6315GN/14X200
18	160	30	50	28	57	36	BR6315GN/18X160
	200						BR6315GN/18X200
	250						BR6315GN/18X250
22	200	40	60	35	68	45	BR6315GN/22X200
	250						BR6315GN/22X250
	315						BR6315GN/22X315
26	250	40	70	43	83	56	BR6315GN/26X250
	315						BR6315GN/26X315

BR6316



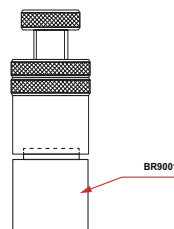
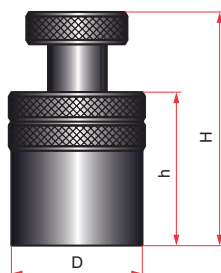
Neek clamps
 Brida acodada
 Łapa dociskowa odsadzona
 Barra de aperto de dois corpos
 Bride contre-coudée



b1	L	b3	b2	a	e1	REF.
9	80	12	25	12	25	BR6316/09x080
11	100	15	30	15	32	BR6316/11x100
14	125	20	40	20	40	BR6316/14x125
18		25	50	25	50	BR6316/18x125
	160					BR6316/18x160
22	200	30	60	30	70	BR6316/22x160
26	250	35	70	35	80	BR6316/26x200

BR6400

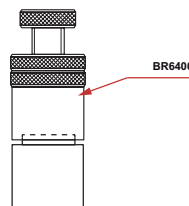
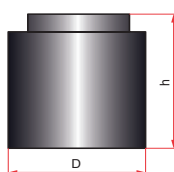
Adjustable vertical jacks
 Calzos de roscas (rosca métrica)
 Podpora śrubowa
 Calços ajustáveis
 Verin de calage et d'alignement



h	H	D	M	REF.
22	30	16	10	BR6400-16
30	45	28	16	BR6400-28
45	65	40	20	BR6400-40
65	95	45	24	BR6400-45
90	140	60	30	BR6400-60
125	190	80	45	BR6400-80

BR9001

Suplements
 Casquillo
 Tuleja
 Casquilho
 Bague support

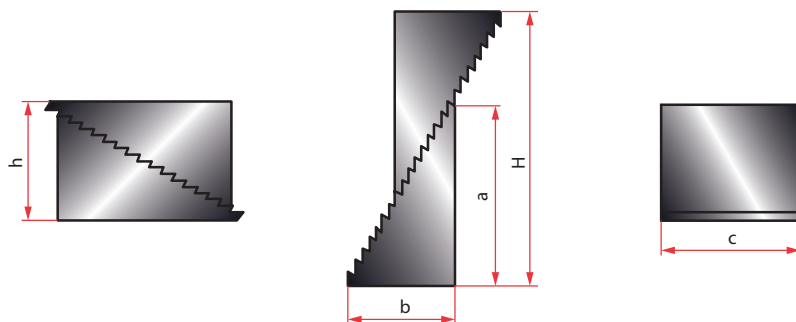


h	D	REF.
15	28	BR9001-1
30		BR9001-2
60		BR9001-3
20	40	BR9002-1
40		BR9002-2
80		BR9002-3
30	45	BR9003-1
60		BR9003-2
100		BR9003-3
50	60	BR9004-1
100		BR9004-2
65	80	BR9005-1
130		BR9005-2

BR6500



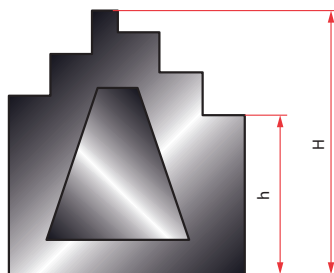
Step blocks
Calzos de escalera
Podpora ząbkowana
Calços dentados
Cales réglables crénelées



h	H	a	b	c	REF.
22	51	33	20	30	1x BR6500/033
39	107	66	36		1x BR6500/066
71	208	130	69		1x BR6500/130

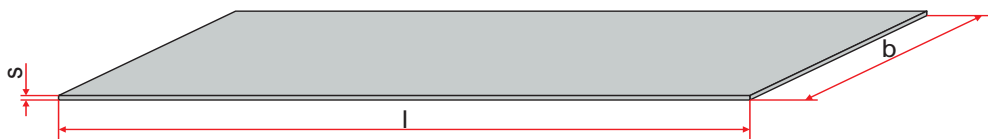
BR6318

Step blocks
Calzos de escalera
Podpora stopniowa
Calços dentados
Szybkozłącze z zaworem



h	H	REF.
57,5	95	1x BR6318/095
102,5	140	1x BR6318/140
140	177,5	1x BR6318/177,5

Calibrated steel sheet
 Lámina calibrada
 Stal kalibrowana precyzyjna
 Chapa de aço calibrado
 Plaque clinquant acier

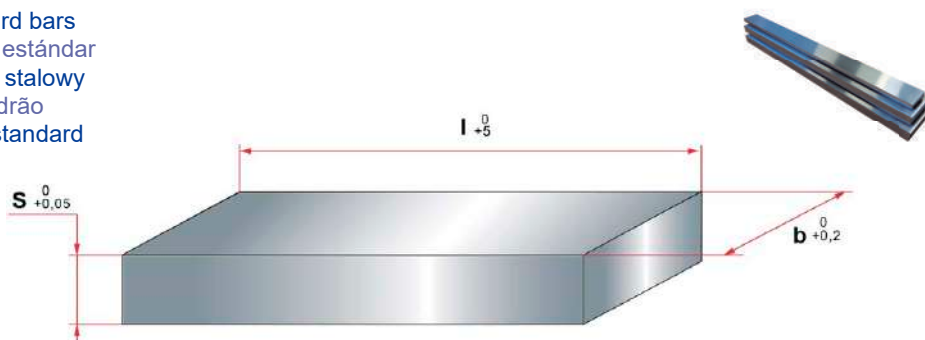


Mat. : 1.4310 ≈ 48 HRC.

s	b	l	REF.
0,01	25	300	BR1161/300/25/0'01
0,02			BR1161/300/25/0'02
0,03			BR1161/300/25/0'03
0,04			BR1161/300/25/0'04
0,05			BR1161/300/25/0'05
0,06			BR1161/300/25/0'06
0,07			BR1161/300/25/0'07
0,08			BR1161/300/25/0'08
0,09			BR1161/300/25/0'09
0,1			BR1161/300/25/0'10
0,15			BR1161/300/25/0'15
0,2			BR1161/300/25/0'20
0,25			BR1161/300/25/0'25
0,3			BR1161/300/25/0'30
0,4			BR1161/300/25/0'40
0,5			BR1161/300/25/0'50
0,6			BR1161/300/25/0'60
0,7			BR1161/300/25/0'70
0,8			BR1161/300/25/0'80
0,9			BR1161/300/25/0'90
1	BR1161/300/25/1'00		

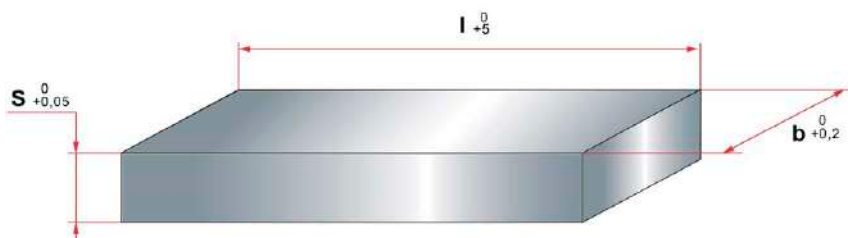
s	b	l	REF.
0,01	50	300	BR1161/300/50/0'01
0,02			BR1161/300/50/0'02
0,03			BR1161/300/50/0'03
0,04			BR1161/300/50/0'04
0,05			BR1161/300/50/0'05
0,06			BR1161/300/50/0'06
0,07			BR1161/300/50/0'07
0,08			BR1161/300/50/0'08
0,09			BR1161/300/50/0'09
0,1			BR1161/300/50/0'10
0,15			BR1161/300/50/0'15
0,2			BR1161/300/50/0'20
0,25			BR1161/300/50/0'25
0,3			BR1161/300/50/0'30
0,4			BR1161/300/50/0'40
0,5			BR1161/300/50/0'50
0,6			BR1161/300/50/0'60
0,7			BR1161/300/50/0'70
0,8			BR1161/300/50/0'80
0,9			BR1161/300/50/0'90
1	BR1161/300/50/1'00		

Standard bars
Barras estándar
Arkusz stalowy
Bar padrão
Barre standard



DIN 59350. Mat. : 1.2510 max. 229 Hb. Mat. : 1.2379 max. 255 Hb.

MAT.	s	b	l	REF.	MAT.	s	b	l	REF.	
2510	2379	3,2	20	500	BR1162/03,2x020/MAT	6,2	60	500	BR1162/06,2x060/MAT	
					BR1162/03,2x030/MAT				BR1162/06,2x080/MAT	
					BR1162/03,2x040/MAT				BR1162/06,2x100/MAT	
					BR1162/03,2x050/MAT				8,2	BR1162/08,2x020/MAT
					BR1162/03,2x060/MAT					BR1162/08,2x030/MAT
					BR1162/03,2x080/MAT					BR1162/08,2x040/MAT
					BR1162/03,2x100/MAT					BR1162/08,2x050/MAT
					4,2				20	BR1162/04,2x020/MAT
	BR1162/04,2x030/MAT	80	BR1162/08,2x080/MAT							
	BR1162/04,2x040/MAT	100	BR1162/08,2x100/MAT							
	BR1162/04,2x050/MAT	10,4	BR1162/10,4x020/MAT							
	BR1162/04,2x060/MAT		BR1162/10,4x030/MAT							
	BR1162/04,2x080/MAT		BR1162/10,4x040/MAT							
	BR1162/04,2x100/MAT		BR1162/10,4x050/MAT							
	5,2	20	BR1162/05,2x020/MAT	60		BR1162/10,4x060/MAT				
		30	BR1162/05,2x030/MAT	80		BR1162/10,4x080/MAT				
		40	BR1162/05,2x040/MAT	100		BR1162/10,4x100/MAT				
		50	BR1162/05,2x050/MAT	120		BR1162/10,4x120/MAT				
		60	BR1162/05,2x060/MAT	150		BR1162/10,4x150/MAT				
		80	BR1162/05,2x080/MAT	12,4		BR1162/12,4x020/MAT				
		100	BR1162/05,2x100/MAT			BR1162/12,4x030/MAT				
		6,2	20			BR1162/06,2x020/MAT	BR1162/12,4x040/MAT			
	30		BR1162/06,2x030/MAT			BR1162/12,4x050/MAT				
	40		BR1162/06,2x040/MAT	BR1162/12,4x060/MAT						
50	BR1162/06,2x050/MAT		BR1162/12,4x080/MAT							



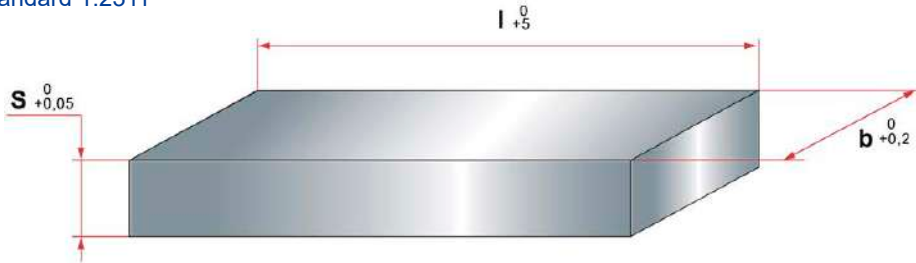
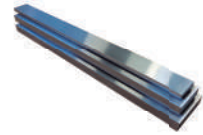
DIN 59350. Mat. : 1.2510 max. 229 Hb. Mat. : 1.2379 max. 255 Hb.

MAT.	s	b	l	REF.	MAT.	s	b	l	REF.		
2510	2379	12,4	100	500	BR1162/12,4x100/MAT	2510	2379	25,4	80	500	BR1162/25,4x080/MAT
					BR1162/12,4x120/MAT						BR1162/25,4x100/MAT
					BR1162/12,4x150/MAT						BR1162/25,4x120/MAT
	16,4	20	BR1162/16,4x020/MAT	30,4	30	BR1162/30,4x030/MAT					
			BR1162/16,4x030/MAT			BR1162/30,4x040/MAT					
			BR1162/16,4x040/MAT			BR1162/30,4x050/MAT					
		30	BR1162/16,4x050/MAT	40,4	40	BR1162/40,4x040/MAT					
			BR1162/16,4x060/MAT			BR1162/40,4x050/MAT					
			BR1162/16,4x080/MAT			BR1162/40,4x060/MAT					
			BR1162/16,4x100/MAT			BR1162/40,4x080/MAT					
			BR1162/16,4x120/MAT			BR1162/40,4x100/MAT					
			BR1162/16,4x150/MAT			BR1162/40,4x120/MAT					
		20,4	20	BR1162/20,4x020/MAT	50,4	50	BR1162/50,4x050/MAT				
				BR1162/20,4x030/MAT			BR1162/50,4x060/MAT				
				BR1162/20,4x040/MAT			BR1162/50,4x080/MAT				
	30		BR1162/20,4x050/MAT	60	60	BR1162/60x060/MAT					
			BR1162/20,4x060/MAT			BR1162/60x080/MAT					
			BR1162/20,4x080/MAT			BR1162/60x100/MAT					
			BR1162/20,4x100/MAT			BR1162/60x120/MAT					
			BR1162/20,4x120/MAT			BR1162/60x150/MAT					
			BR1162/20,4x150/MAT			BR1162/60x150/MAT					
	25,4		20	BR1162/25,4x020/MAT	80	80	BR1162/80x080/MAT				
				BR1162/25,4x030/MAT			BR1162/80x100/MAT				
				BR1162/25,4x040/MAT			BR1162/80x120/MAT				
		30	BR1162/25,4x050/MAT	100	100	BR1162/100x120/MAT					
			BR1162/25,4x060/MAT			BR1162/100x150/MAT					
			BR1162/25,4x080/MAT			BR1162/100x150/MAT					

BR1164



Standard bars 1.2311
 Barras estándar 1.2311
 Arkusz stalowy 1.2311
 Bar padrão 1.2311
 Barre standard 1.2311

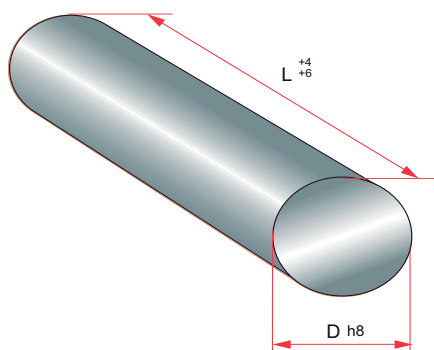


Mat : 1.2311 max.330Hb.

s	b	l	REF.	s	b	l	REF.
16,4	20,4	1000	BR1164/16,4x020,4 /1,2311	25,4	100,4	1000	BR1164/25,4x100,4/1,2311
	30,4		BR1164/16,4x030,4 /1,2311		120,4		BR1164/25,4x120,4/1,2311
	40,4		BR1164/16,4x040,4 /1,2311		150,4		BR1164/25,4x150,4/1,2311
	50,4		BR1164/16,4x050,4 /1,2311	30,4	30,4		BR1164/30,4x030,4 /1,2311
	60,4		BR1164/16,4x060,4 /1,2311		40,4		BR1164/30,4x040,4 /1,2311
	80,4		BR1164/16,4x080,4 /1,2311		50,4		BR1164/30,4x050,4 /1,2311
	100,4		BR1164/16,4x100,4/1,2311		60,4		BR1164/30,4x060,4 /1,2311
	120,4		BR1164/16,4x120,4/1,2311		80,4		BR1164/30,4x080,4 /1,2311
	150,4		BR1164/16,4x150,4/1,2311		100,4		BR1164/30,4x100,4/1,2311
	20,4		20,4		1000		BR1164/20,4x020,4 /1,2311
30,4		BR1164/20,4x030,4 /1,2311	150,4			BR1164/30,4x150,4/1,2311	
40,4		BR1164/20,4x040,4 /1,2311	40,4			40,4	BR1164/40,4x040,4 /1,2311
50,4		BR1164/20,4x050,4 /1,2311				50,4	BR1164/40,4x050,4 /1,2311
60,4		BR1164/20,4x060,4 /1,2311		60,4		BR1164/40,4x060,4 /1,2311	
80,4		BR1164/20,4x080,4 /1,2311		80,4		BR1164/40,4x080,4 /1,2311	
100,4		BR1164/20,4x100,4/1,2311		100,4		BR1164/40,4x100,4/1,2311	
120,4		BR1164/20,4x120,4/1,2311		120,4		BR1164/40,4x120,4/1,2311	
150,4		BR1164/20,4x150,4/1,2311		150,4		BR1164/40,4x150,4/1,2311	
25,4		20,4		1000		BR1164/25,4x020,4 /1,2311	50,4
	30,4	BR1164/25,4x030,4 /1,2311			60,4	BR1164/50,4x060,4 /1,2311	
	40,4	BR1164/25,4x040,4 /1,2311			80,4	BR1164/50,4x080,4 /1,2311	
	50,4	BR1164/25,4x050,4 /1,2311	100,4		BR1164/50,4x100,4/1,2311		
	60,4	BR1164/25,4x060,4 /1,2311	120,4		BR1164/50,4x120,4/1,2311		
	80,4	BR1164/25,4x080,4 /1,2311	150,4		BR1164/50,4x150,4/1,2311		

BR1163

Silver steel
Acero plata
Stal srebrna
Aço de prata
Acier argent



Mat: 1.2210

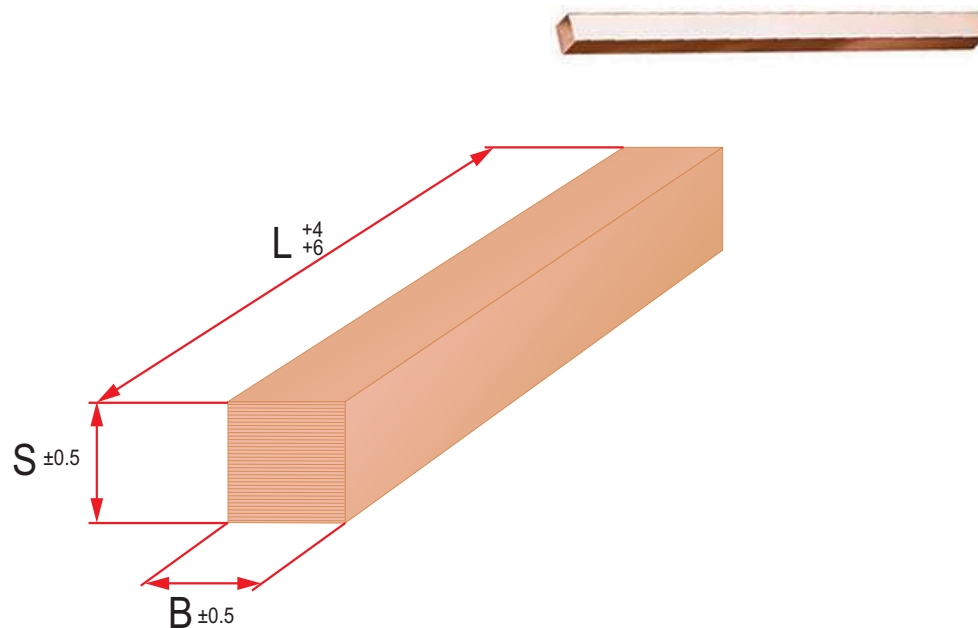
D	L	REF.
2,00	1000	BR1163/02,00
2,50		BR1163/02,50
3,00		BR1163/03,00
3,50		BR1163/03,50
4,00		BR1163/04,00
4,50		BR1163/04,50
5,00		BR1163/05,00
5,50		BR1163/05,50
6,00		BR1163/06,00
6,50		BR1163/06,50
7,00		BR1163/07,00
7,50		BR1163/07,50
8,00		BR1163/08,00
8,50		BR1163/08,50
9,00		BR1163/09,00
9,50		BR1163/09,50
10,00		BR1163/10,00
10,50		BR1163/10,50
11,00		BR1163/11,00
11,50		BR1163/11,50
12,00	BR1163/12,00	
12,50	BR1163/12,50	
13,00	BR1163/13,00	
13,50	BR1163/13,50	

D	L	REF.
14,00	1000	BR1163/14,00
14,50		BR1163/14,50
15,00		BR1163/15,00
15,50		BR1163/15,50
16,00		BR1163/16,00
16,50		BR1163/16,50
17,00		BR1163/17,00
17,50		BR1163/17,50
18,00		BR1163/18,00
18,50		BR1163/18,50
19,00		BR1163/19,00
19,50		BR1163/19,50
20,00		BR1163/20,00
21,00		BR1163/21,00
22,00		BR1163/22,00
23,00		BR1163/23,00
24,00		BR1163/24,00
25,00		BR1163/25,00
26,00		BR1163/26,00
27,00		BR1163/27,00
28,00	BR1163/28,00	
29,00	BR1163/29,00	
30,00	BR1163/30,00	
35,00	BR1163/35,00	

BR2111



Copper
Cobre
Miedź
Cobre
Cuivre



Minimum electrical conductivity of 57 M/Ohms x mm², in an annealed condition. No requirement for weldability.
Conductividad eléctrica mínima de 57 M/Ohms x mm², en estado recocido. Ningún requisito de soldabilidad.

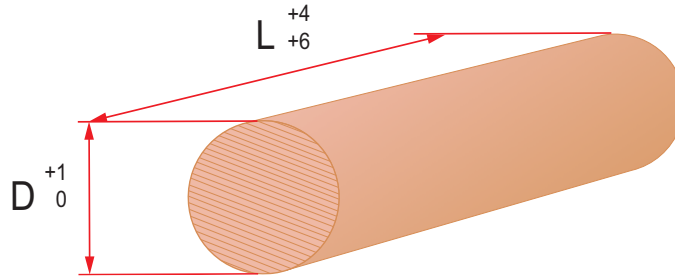
Mat. : Cu 99,9 Min. DIN E-Cu 57 2,0060. ISO CU-ETP.

		L				
B	S	100	300	500	1000	REF.
10	10	*	*	*	*	BR2111/010x010x...
20	20	*	*	*	*	BR2111/020x020x...
30	30	*	*	*	*	BR2111/030x030x...
40	40	*	*	*	*	BR2111/040x040x...
50	50	*	*	*	*	BR2111/050x050x...
60	60	*	*	*	*	BR2111/060x060x...
70	70	*	*	*	*	BR2111/070x070x...
80	80	*	*	*	*	BR2111/080x080x...
100	100	*	*	*		BR2111/100x100x...
120	120	*	*	*		BR2111/120x120x...

BR2112



Copper
Cobre
Miedź
Cobre
Cuivre



Minimum electrical conductivity of 57 M/Ohms x mm², in an annealed condition. No requirement for weldability.
Conductividad eléctrica mínima de 57 M/Ohms x mm², en estado recocido. Ningún requisito de soldabilidad.

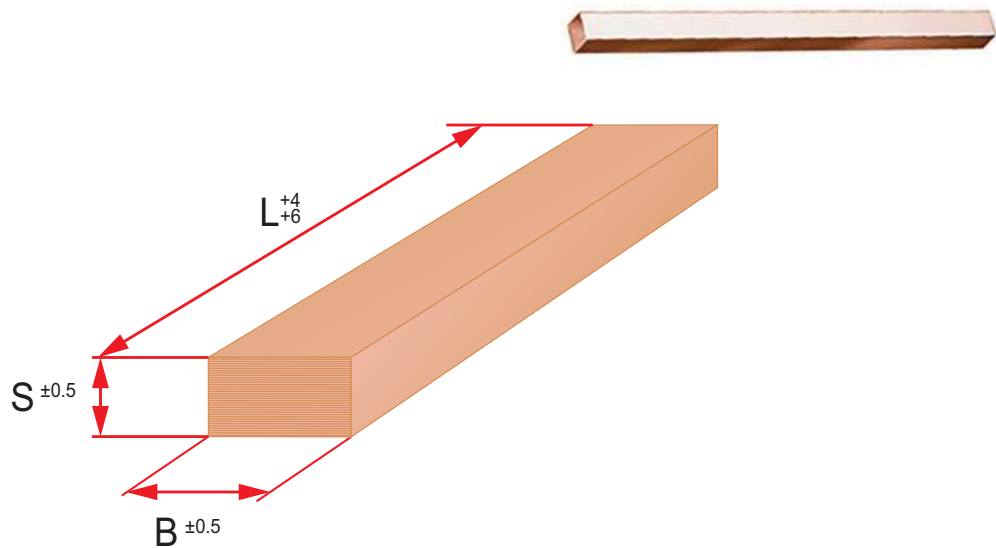
Mat. : Cu 99,9 Min. DIN E-Cu 57 2,0060. ISO CU-ETP.

D	L				REF.
	100	300	500	1000	
4			*	*	BR2112/04 x ...
5			*	*	BR2112/05 x ...
6			*	*	BR2112/06 x ...
8			*	*	BR2112/08 x ...
10			*	*	BR2112/010 x ...
12			*	*	BR2112/012 x ...
14			*	*	BR2112/014 x ...
16			*	*	BR2112/016 x ...
18			*	*	BR2112/018 x ...
20	*	*	*	*	BR2112/020 x ...
25	*	*	*	*	BR2112/025 x ...
30	*	*	*	*	BR2112/030 x ...
35	*	*	*	*	BR2112/035 x ...
40	*	*	*	*	BR2112/040 x ...
45	*	*	*	*	BR2112/045 x ...
50	*	*	*	*	BR2112/050 x ...
60	*	*	*	*	BR2112/060 x ...
70	*	*	*	*	BR2112/070 x ...
80	*	*	*	*	BR2112/080 x ...
90	*	*	*	*	BR2112/090 x ...
100	*	*	*	*	BR2112/100 x ...
110	*	*	*	*	BR2112/110 x ...
120	*	*	*	*	BR2112/120 x ...
130	*	*	*	*	BR2112/130 x ...
150	*	*	*	*	BR2112/150 x ...
200	*	*	*	*	BR2112/200 x ...
250	*	*	*	*	BR2112/250 x ...

BR2113



Copper
Cobre
Miedź
Cobre
Cuivre

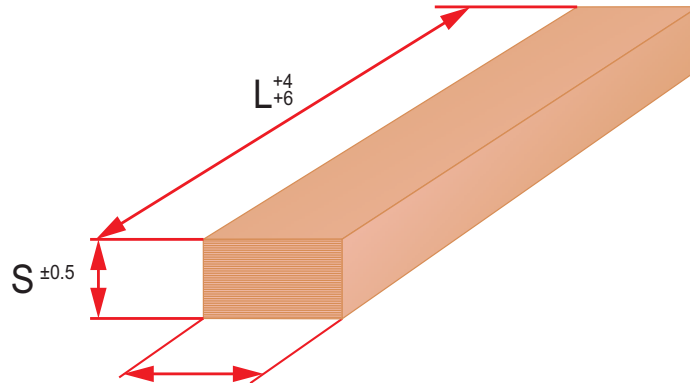


Minimum electrical conductivity of 57 M/Ohms x mm², in an annealed condition. No requirement for weldability.
Conductividad eléctrica mínima de 57 M/Ohms x mm², en estado recocido. Ningún requisito de soldabilidad.

Mat. : Cu 99,9 Min. DIN E-Cu 57 2,0060. ISO CU-ETP.

S	B	L				REF.
		100	300	500	1000	
0,5	100	*	*	*	*	BR2113/00,5x100x...
1	200	*	*	*	*	BR2113/01,0x100x...
		*	*	*	*	BR2113/01,0x200x...
1,5	100	*	*	*	*	BR2113/01,5x100x...
2	200	*	*	*	*	BR2113/02,0x100x...
		*	*	*	*	BR2113/02,0x200x...
2,5	100	*	*	*	*	BR2113/02,5x100x...
3	20	*	*	*	*	BR2113/03,0x020x...
	50	*	*	*	*	BR2113/03,0x050x...
	100	*	*	*	*	BR2113/03,0x100x...
	200	*	*	*	*	BR2113/03,0x200x...
4	80	*	*	*	*	BR2113/04,0x080x...
	100	*	*	*	*	BR2113/04,0x100x...
	200	*	*	*	*	BR2113/04,0x200x...
5	15	*	*	*	*	BR2113/05,0x015x...
	20	*	*	*	*	BR2113/05,0x020x...
	25	*	*	*	*	BR2113/05,0x025x...
	30	*	*	*	*	BR2113/05,0x030x...
	40	*	*	*	*	BR2113/05,0x040x...
	50	*	*	*	*	BR2113/05,0x050x...
	60	*	*	*	*	BR2113/05,0x060x...
	70	*	*	*	*	BR2113/05,0x070x...
	80	*	*	*	*	BR2113/05,0x080x...

S	B	L				REF.
		100	300	500	1000	
5	100	*	*	*	*	BR2113/05,0x100x...
	200	*	*	*	*	BR2113/05,0x200x...
6	30	*	*	*	*	BR2113/06,0x030x...
	40	*	*	*	*	BR2113/06,0x040x...
	60	*	*	*	*	BR2113/06,0x060x...
	100	*	*	*	*	BR2113/06,0x100x...
	200	*	*	*	*	BR2113/06,0x200x...
8	25	*	*	*	*	BR2113/08,0x025x...
	30	*	*	*	*	BR2113/08,0x030x...
	40	*	*	*	*	BR2113/08,0x040x...
	50	*	*	*	*	BR2113/08,0x050x...
	60	*	*	*	*	BR2113/08,0x060x...
	100	*	*	*	*	BR2113/08,0x100x...
	200	*	*	*	*	BR2113/08,0x200x...
10	20	*	*	*	*	BR2113/10,0x020x...
	25	*	*	*	*	BR2113/10,0x025x...
	30	*	*	*	*	BR2113/10,0x030x...
	40	*	*	*	*	BR2113/10,0x040x...
	50	*	*	*	*	BR2113/10,0x050x...
	60	*	*	*	*	BR2113/10,0x060x...
	70	*	*	*	*	BR2113/10,0x070x...
	80	*	*	*	*	BR2113/10,0x080x...
	100	*	*	*	*	BR2113/10,0x100x...
	200	*	*	*	*	BR2113/10,0x200x...



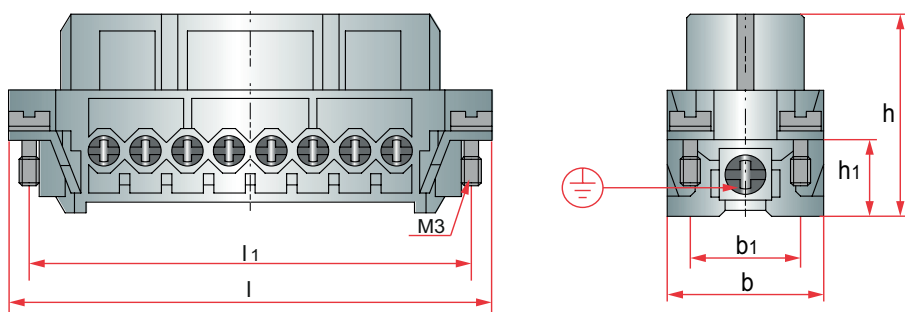
S	B	L				REF.
		100	300	500	1000	
15	20	*	*	*	*	BR2113/15,0x020x...
	30	*	*	*	*	BR2113/15,0x030x...
	40	*	*	*	*	BR2113/15,0x040x...
	50	*	*	*	*	BR2113/15,0x050x...
	60	*	*	*	*	BR2113/15,0x060x...
	80	*	*	*	*	BR2113/15,0x080x...
	100	*	*	*	*	BR2113/15,0x100x...
	150	*	*	*	*	BR2113/15,0x150x...
	200	*	*	*	*	BR2113/15,0x200x...
20	40	*	*	*	*	BR2113/20,0x040x...
	50	*	*	*	*	BR2113/20,0x050x...
	60	*	*	*	*	BR2113/20,0x060x...
	80	*	*	*	*	BR2113/20,0x080x...
	100	*	*	*	*	BR2113/20,0x100x...
	150	*	*	*	*	BR2113/20,0x150x...
	200	*	*	*	*	BR2113/20,0x200x...
25	50	*	*	*	*	BR2113/25,0x050x...

S	B	L				REF.
		100	300	500	1000	
25	100	*	*	*	*	BR2113/25,0x100x...
	150	*	*	*	*	BR2113/25,0x150x...
	200	*	*	*	*	BR2113/25,0x200x...
30	60	*	*	*	*	BR2113/30,0x060x...
	100	*	*	*	*	BR2113/30,0x100x...
	150	*	*	*	*	BR2113/30,0x150x...
	200	*	*	*	*	BR2113/30,0x200x...
40	100	*	*	*	*	BR2113/40,0x100x...
	150	*	*	*	*	BR2113/40,0x150x...
	200	*	*	*	*	BR2113/40,0x200x...
50	100	*	*	*	*	BR2113/50,0x100x...
	150	*	*	*	*	BR2113/50,0x150x...
	200	*	*	*	*	BR2113/50,0x200x...
60	100	*	*	*	*	BR2113/60,0x100x...
	200	*	*	*	*	BR2113/60,0x200x...
70	100	*	*	*	*	BR2113/70,0x100x...
	200	*	*	*	*	BR2113/70,0x200x...

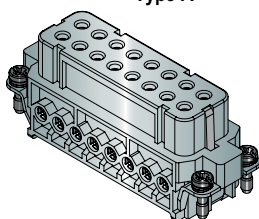
BR2711



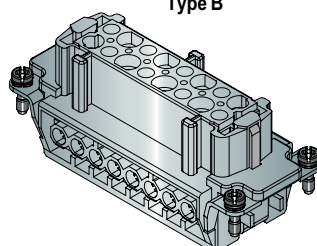
Female insert whit threaded connection
Conector hembra



Type A



Type B



Mat. Polycarbonate. Maximum temperature at work: 125° C.

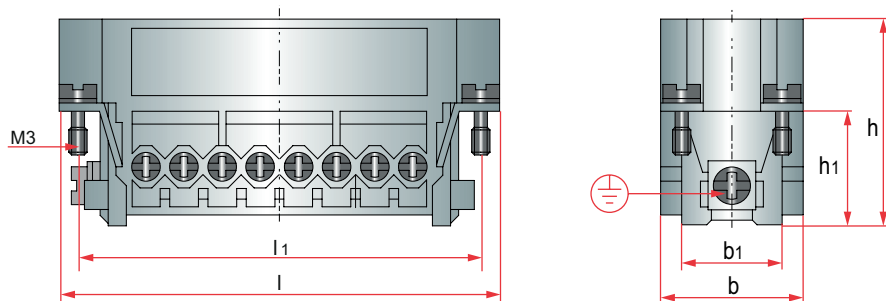
l	b	h	l1	b1	h1	polos	tipo	DESCRIPCION
21	21	26	-	-	-	3	A	BR2711/03A
			-	-	-	4		BR2711/04A
56	23	30	49,5	16	11,5	10		BR2711/10A
72,4			66			16	BR2711/16A	
64	34	35	57	27	18	10	B	BR2711/10B
84,5			77,5			16		BR2711/16B
111			104			24		BR2711/24B

Poles	Type	Rated voltage	Rated current
3 - 4	A	230V	10A
10 - 16		250V	16A
10 - 24	B	500V	

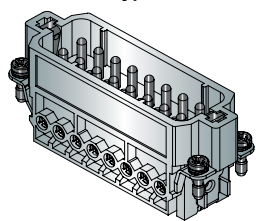
BR2712



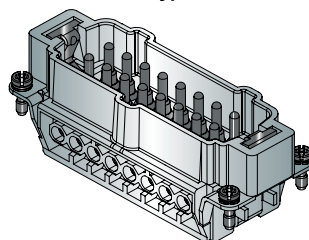
Male insert whit threaded connection
Conector macho



Type A



Type B



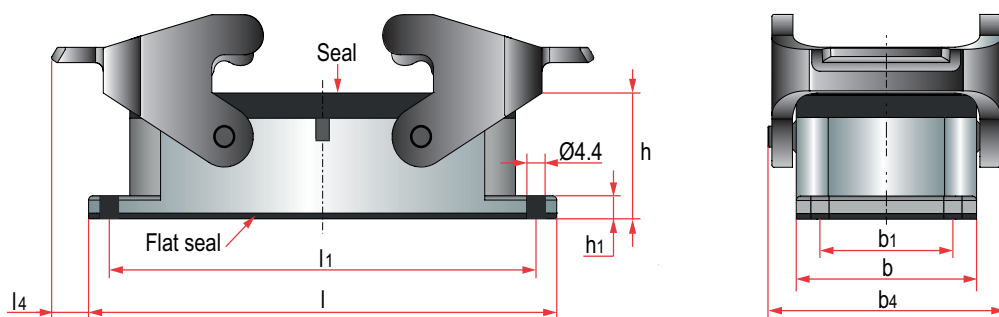
Mat. Polycarbonate. Maximum temperature at work: 125° C.

l	b	h	l1	b1	h1	polos	tipo	DESCRIPCION
21	21	27	-	-	-	3	A	BR2712/03A
		28	-	-	-	4		BR2712/04A
56	23	33	49,5	16	18,4	10		BR2712/10A
72,4						16	BR2712/16A	
64	34	33	49,5	16	18,4	10	B	BR2712/10B
84,5						16		BR2712/16B
111						24		BR2712/24B

Poles	Type	Rated voltage	Rated current
3 - 4	A	230V	10A
10 - 16	B	250V	16A
10 - 24		500V	

BR2721

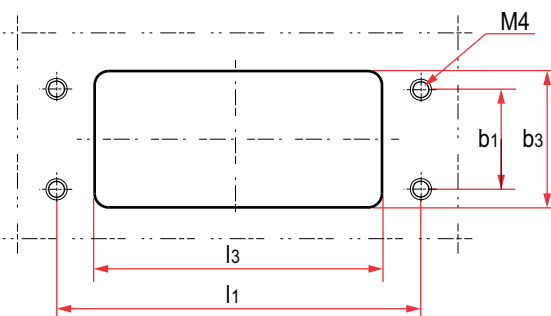
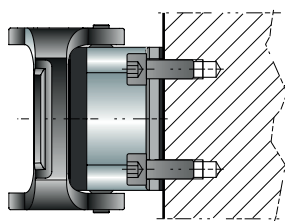
Connector housing with double locking lacht
Caja de enchufe con doble sujeción



Mat. Powder coated die-cast aluminium. Maximum temperature at work: 125° C.

I	b	h	I1	b1	h1	I3	b3	I4	b4	polos	tipo	DESCRIPCION
93	43	29	83	32	5	60	35	13	57	10	B	BR2721/10B
116			103			82				16		BR2721/16B
140			130			108				24		BR2721/24B

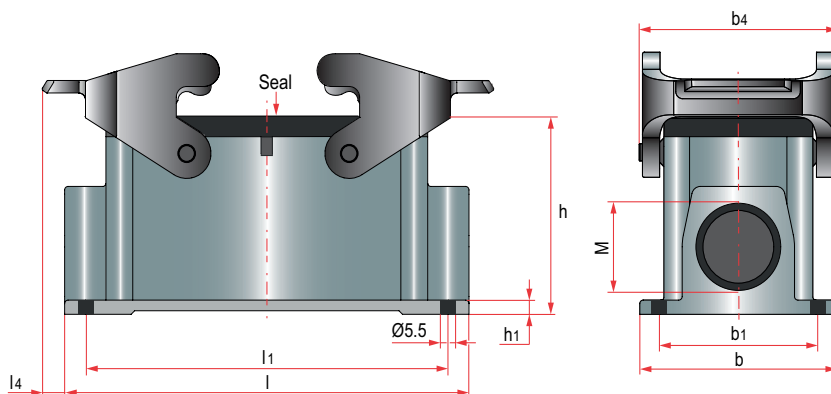
Connector BR2711, 2712-Type B



BR2722



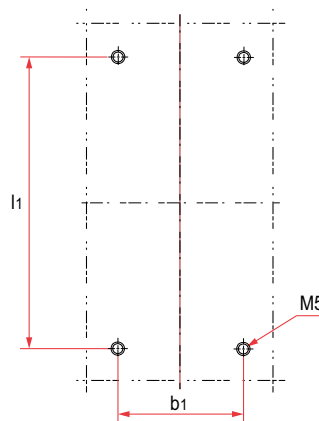
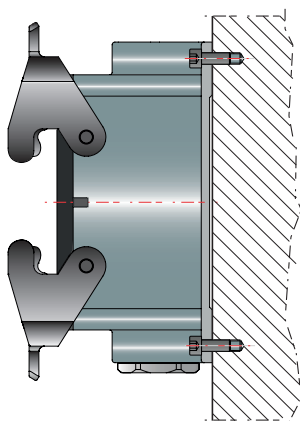
Socket housing with double locking latch
Caja de enchufe con doble conexión



Mat. Powder coated die-cast aluminium. Maximum temperature at work: 125° C.

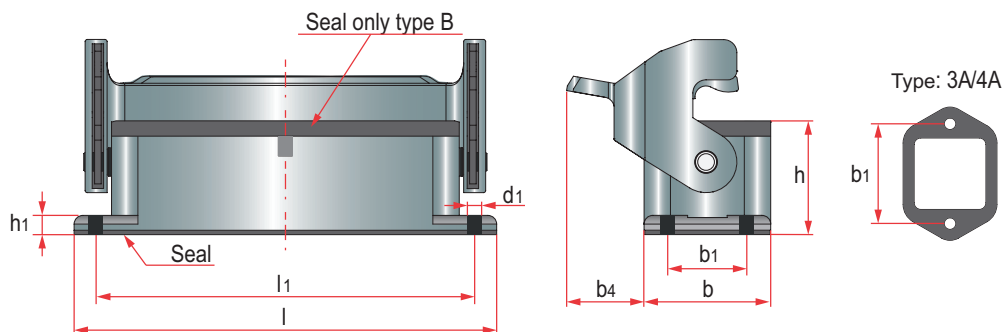
l	b	l1	b1	h1	l4	b4	M	h	polos	tipo	DESCRIPCION
94	52	82	40	4	12	56	1x M20x1.5	54	10	B	BR2722/10B
117	57	105	45				1x M25x1.5	56	16		BR2722/16B
144		132							24		BR2722/24B

Connector BR2711, 2712-Type B



BR2723

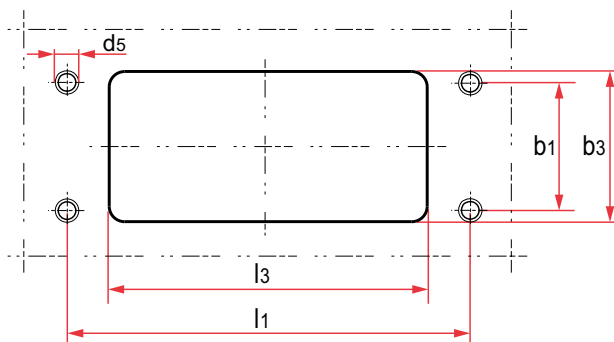
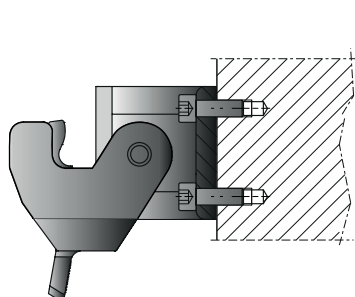
Connector housing with single locking latch
Caja de enchufe con sujeción simple



Mat. Powder coated die-cast aluminium. Maximum temperature at work: 125° C.

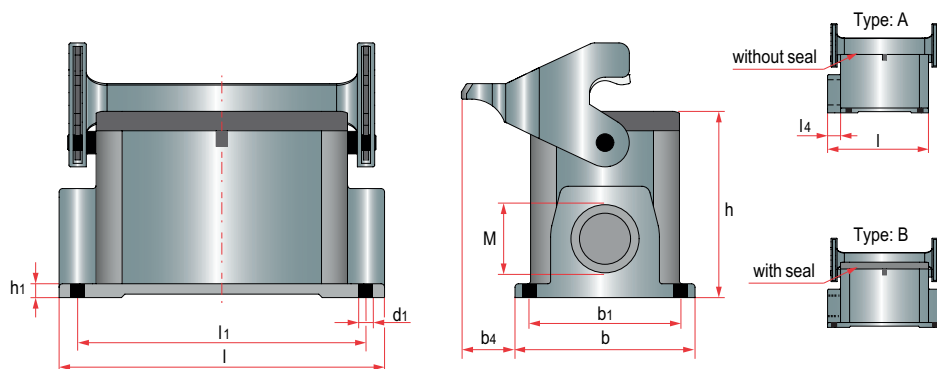
l	b	h	l1	b1	h1	d1	l3	b3	b4	d5	polos	tipo	DESCRIPCION
28	40	23	-	30	3	3,2	22	22	17	M3	3	A	BR2723/03A
			-								4		BR2723/04A
81	29	26	70	17,5	4,5	3,4	57	24	22		10		BR2723/10A
			86								73		16
96	43	29	83	32	5	4,4	60	35	23	M4	10	B	BR2723/10B
113			103								82		16
140			130				108				24		BR2723/24B

Connector BR2711, 2712-Type A+A, B+B



BR2724

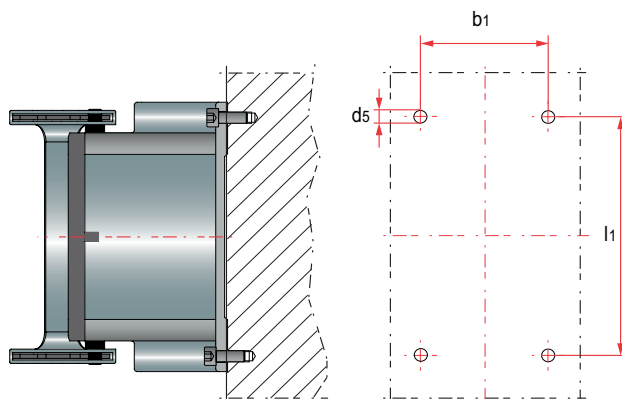
Connector housing with single locking latch
Caja de enchufe con sujeción simple



Mat. Powder coated die-cast aluminium. Maximum temperature at work: 125° C.

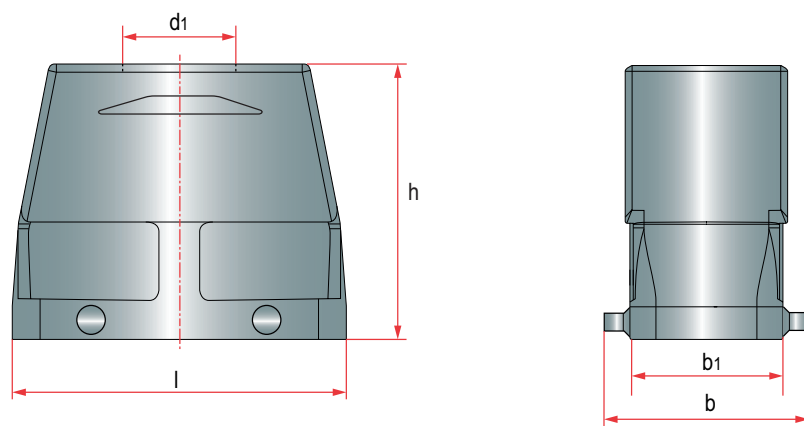
l	b	l1	b1	h1	d1	l4	b4	d5	M	h	polos	tipo	DESC.
74,5	50	48	40	4	4,5	11	12	M4	1xM25x1,5	52	10	A	BR2724/10A
95		64	15			54				16	BR2724/16A		
94	57	82	45	5,5	-	16	M5	10		B	BR2724/10B		
117		105	-	56	16	BR2724/16B							
144		132	-	24	BR2724/24B								

Connector BR2711, 2712-Type A+A, B+B



BR2731

Sleeve housing for double locking lacht
 Capota de enchufe con sujeción doble



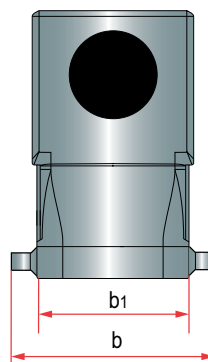
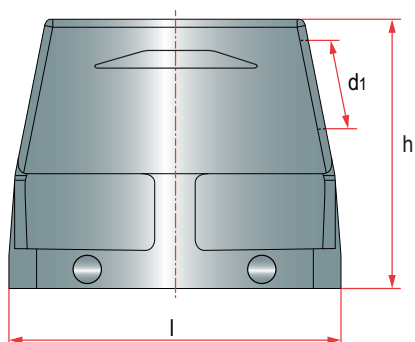
Mat. Die-cast aluminium. Maximum temperature at work: 125° C.

b	l	h	b1	d1	poles	type	DESC.
57	73	72	43	M25x1,5	10	B	BR2731/10B
	93,5	76		PG21	16		BR2731/16B
	120			PG29	24		BR2731/24B

Connector BR2711, 2712-Type B

BR2732

Sleeve housing for double locking lacht
Capota de enchufe con sujeción doble



Mat. Powder coated die-cast aluminium. Maximum temperature at work: 125° C.

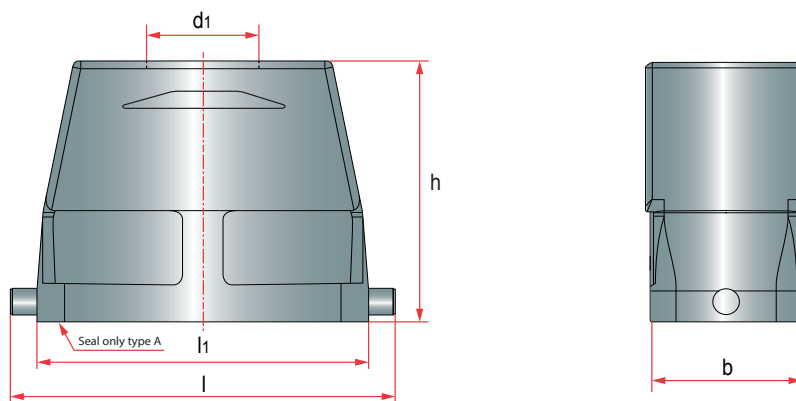
b	l	h	b1	d1	poles	type	DESC.
57	73	72	43	M25x1,5	10	B	BR2732/10B
	93,5	76		PG21	16		BR2732/16B
	120			PG29	24		BR2732/24B

Connector BR2711, 2712-Type B

BR2733



Sleeve housing for single locking lacht
Capota de enchufe con sujeción simple



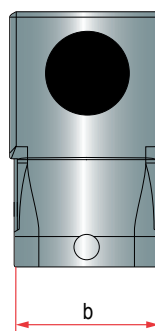
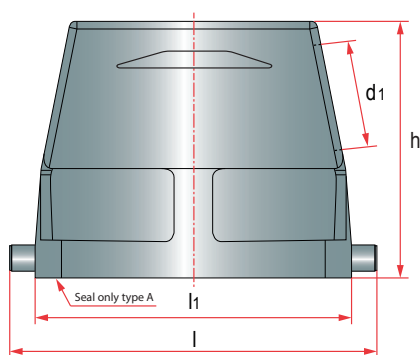
Mat. Die-cast aluminium. Maximum temperature at work: 125° C.

b	l	h	l1	d1	polos	tipo	DESCRIPCION
27	35	60	27	PG11	3	A	BR2733/03A
			27	PG11	4	A	BR2733/04A
29,5	72	67	63	M25X1,5	10	A	BR2733/10A
	88,5	70	79,5	PG21	16	A	BR2733/16A
43	90,5	72	73	M25X1,5	10	B	BR2733/10B
	111,5	76	93,5	PG21	16	B	BR2733/16B
	138	76	120	PG29	24	B	BR2733/24B

Connector BR2711, 2712-Type A+A, B+B

BR2734

Sleeve housing for single locking lacht
 Capota de enchufe con sujeción simple



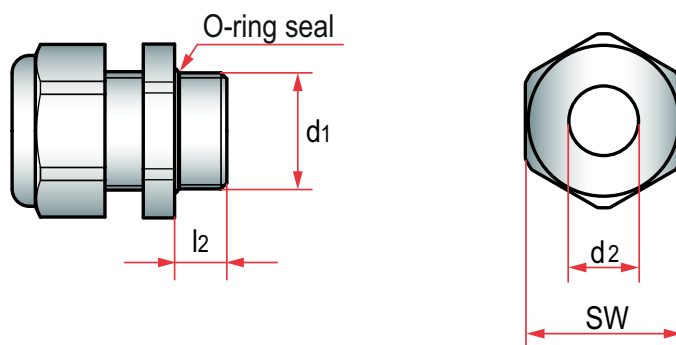
Mat. Die-cast aluminium. Maximum temperature at work: 125° C.

b	l	h	l1	d1	polos	tipo	DESC.
29,5	72	67,2	63	M25X1,5	10	A	BR2734/10A
	88,5	70	79,5		16		BR2734/16A
43	90,5	72	73	PG21	10	B	BR2734/10B
	111,5	76	93,5		16		BR2734/16B
	138		120		PG29		24

Connector BR2711, 2712-Type A+A, B+B

BR2751

Cable gland
Pasa-cables



Mat. PA. Maximum temperature at work: 100° C. Protection class IP68

SW	Nm	l2	d1	d2	DESCRIPCION
22	4	8	PG11	5- 9	BR2751/11
27	4,5	10	PG16	8- 14	BR2751/16
32	5	11	PG21	13-18	BR2751/21
42	6,5	11	PG29	18-25	BR2751/29
24	4,5	9	M20x1,5	6-12	BR2751/20
32	5	11	M25x1,5	13-18	BR2751/25
42	6,5	11	M32x1,5	18-25	BR2751/32

BR2241

Oily blue paste
 Pasta azul
 Pasta do tuszowania
 Pasta azul
 Pot bleu Prusia



Oily blue paste gives a clear perfect mark on any metal. The paste shows an easily visible bright mark on all metal parts when scribed through. It transfers easily from one surface to another and is perfect for making mating surfaces to show imperfections.

- Can be wiped off metal parts.
- Soluble in water.
- Shake before using.
- Protect from cold.

Pasta fluida azul indicada para verificar el ajuste de moldes, matrices, válvulas y construcción de maquinaria en general. No daña las superficies. Marca de forma visible y con un alto contraste las irregularidades de las superficies con una fina capa micrométrica.

- No se seca.
- Se limpia fácilmente.
- Soluble en agua.
- Agitar antes de usar.
- Proteger del frío.

Niebieska pasta zalecana do sprawdzania szczelności form, matryc, zaworów oraz konstrukcji maszyn. Nie uszkadza powierzchni. Znakuje w widoczny i kontrastowy sposób wszelkie nieprawidłowości na badanych powierzchniach.

- Nie wysycha.
- Łatwa w czyszczeniu.
- Rozpuszczalna w wodzie.
- Wstrząsnąć przed użyciem.
- Chłonić przed zimnem.

A pasta fluida azul é indicada para verificar o ajuste de moldes, matrizes, válvulas e toda a mecânica em geral. Não danifica as superfícies. Marca de forma visível e com alto contraste todas as irregularidades das superfícies.

- Não seca.
- Fácil de limpar.
- Solúvel em água.
- Agitar antes de usar.
- Proteger do frio.

ORDER: BR2241





BRLube

Lubricants for moulds
Lubricantes para moldes
Smary do form
Lubrificantes para moldes
Spray Lubrifiant



Ptfe lubricant Lubricante teflón
Smar teflonowy Lubrificante de teflon



ORDER: BRLube-T

High PTFE (teflon) content. Synthetic base and superionized PQL-Flon microparticles, smaller than 0,02 micron. BRLube-T has been developed to be used in places with high lubrication needs. It creates a thin teflon film which prevents any adherence. It also allows for a smoother run instead of a stick-slip run. It has a very low friction coefficient too, because of that film, which has a depth of 100-400 Angström.

Fórmula concentrada de PTFE (Polietrafluoretileno), el producto con el menor coeficiente de fricción de descubierto. En base sintética y micropartículas superionizadas de PQL-FLON, inferiores a 0,02-2 micras. La formación de una fina película adherente evita los temidos arranques en seco. Reduce los problemas del avance a saltos (stick-slip). El bajo coeficiente de fricción se explica por la formación de una película fina y orientada a un grosor de 100 a 400 Angström

Wysoka zawartość PTFE (Teflon). Syntetyczna baza, superjonizowanemikrocząsteczki PQL-FLON, mniejsze niż 0,02 mikrony. BRLube-T jest przewidziany do stosowania w miejscach wymagających odpornego smarowania. Tworzy cienki film teflonowy, zapobiegający przywieraniu. Umożliwia płynny ruch, bez efektu stick-slip. Posiada również bardzo niski współczynnik tarcia, uzyskany dzięki filmowi olejowemu o grubości 100-400 Angstrémów.

Formula concentrada de PFTE (Polietrafluoretileno). Numa camada sintética e com micropartículas superionizadas de PQL-FLON, inferior a 0,02 microns. Brlube-T está especialmente desenvolvido para aplicar em qualquer ponto que exija um alto nível de lubrificação. A formação de uma fina película aderente evita os temidos arranques em seco. Reduz os problemas dos avanços em saltos (stick-slip).

Protector spray for moulds
Spray do ochrony formy

Spray protector para moldes
Molde spray protetor



ORDER: BRLube-P

Liquid anti-corrosive water repellent particularly suitable for the protection of molds and machined parts during storage. Protects against corrosion 'fingerprints' in all kinds of pieces, polished or rectified. It provides an ultra-thin film, which protects against moisture displacing water from the surface treated. Applied on dry surfaces, prevents these are attacked by humidity. Create a soft waxy film that does not attract dust and dirt. It can be easily removed.

Líquido anti-corrosivo desplazante del agua especialmente indicado para la protección de moldes y piezas mecanizadas durante su almacenaje. Protege contra la corrosión de 'huellas dactilares' en todo tipo de piezas, pulidas o rectificadas. Proporciona una película ultrafina, que protege contra la humedad desplazando el agua de la superficie tratada. Aplicado sobre superficies secas, evita que estas sean atacadas por la humedad ambiental. Crea una película blanda de tipo ceroso que no atrae el polvo ni la suciedad. Puede eliminarse fácilmente.

Antykorozyjny środek w sprayu do wypierania cieczy. Tłusty, o kolorze brązowym. W szczególny sposób nadaje się do ochrony form wtryskowych oraz części obrabianych, w trakcie ich magazynowania. Zapobiega korozji wszystkich powierzchni, zarówno polerowanych, jak i szlifowanych. Zapewnia ultracienką powłokę, która chroni przed wilgocią. Środek zaaplikowany na suchych powierzchniach osłania je przed wilgotnością atmosferyczną. Tworzy miękką, woskową powłokę, która nie przyjmuje kurzu, ani zanieczyszczeń. Środek łatwy w usunięciu.

Líquido anticorrosivo, repelente de agua em aerosol. Apresentação gordurosa concentrada. Especialmente indicado para a protecção de molde e peças maquinadas. Protege contra a corrosão em todo o tipo de peças, polidas ou rectificadas. Proporciona uma película ultra-fina que protege contra a humidade, repelindo a aguada superfície tratada. Aplicando sobre superfícies secas, evita que as mesmas sejam atacadas pela humidade ambiental. Cria uma película fina do tipo ceroso que não atrai poeiras ou sujidades. Elimina-se facilmente.

Lubricants for moulds
Lubricantes para moldes
Smary do form
Lubrificantes para moldes
Spray Lubrifiant



Demolding spray silicone base
Smar rozdzielający silikonowy

Silicona desmoldeante
Demoldeante con silicona



Spray specially indicated as antiadhesive in the plastic and rubber material forming. Lubricant and antistatic agent. Sliding agent for plastic, protective for rubber, water proofing agent.

Spray especialmente indicado como desmoldeante para la impresión de plástico y goma. Óptimo lubricante, deslizando y antiestático. Deslizante para plástico, protector para goma, hidrorrepelente.

Szczególnie zalecany jako środek rozdzielający do wyprasek z tworzyw sztucznych i gumy. Środek smarny i antystatyczny. Środek smarny dla tworzyw, ochronny i wodoodporny dla gumy.

Spray especialmente indicado com desmoldante para a impressão de plásticos e borrachas. Ótimo lubrificante, deslizando e anti-estático. Deslizante para o plástico, protetor para a borracha e hidro-repelente.

ORDER: BRLube-S

Demolding spray silicone lubricant
Smar rozdzielający bez silikonu

Desmolceante sin silicona
Desmoldeante sem silicona



Excellent silicone-free remover suitable for plastic moulding. It permits painting, printing, chromium plating and gluing of printed pieces. It doesn't indent the surfaces that are sprayed with it. It lasts for many printings.

Óptimo antiadhesivo sin silicona para la impresión de materias plásticas. Permite el barnizado, la impresión, el cromado y pegado de piezas impresas. No raja las superficies sobre las que se pulverice. Perdura durante muchas impresiones.

Doskonały bezsilikonowy środek rozdzielający do wyprasek z tworzyw sztucznych. Umożliwia malowanie, drukowanie, chromowanie i klejenie wyprasek. Nie plami powierzchni po zaaplikowaniu. Wystarcza na wiele cykli.

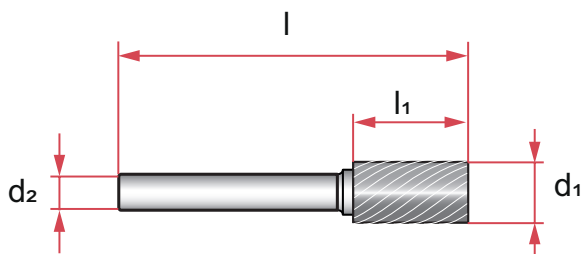
Ótimo anti-adesivo sem silicone para a impressão de materiais plásticos. Permite envernizar, imprimir, cromar e colar as peças impressas. Não provoca trincas nas superfícies que foram pulverizadas. Resiste durante muitas impressões.

ORDER: BRLube-D






BR37515

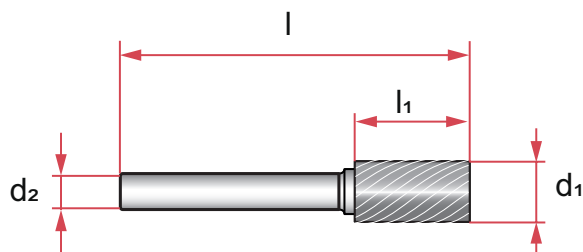


Solid carbide rotary burrs
 Fresas rotativas metal duro
 VHM frez rotacyjny dokladny
 Fresas rotativas de metal duro
 Fraise rotative en carbure monobloc



Mat. Solid carbide grade K30

TYPE	d1	l1	d2	l	REF.	
	1,5	8	3	40	BR37515-4015	
	2	10			BR37515-4020	
	2,5	12			BR37515-4025	
	3	13			BR37515-4033	
	4	10			45	BR37515-4043
	5	12			47	BR37515-4053
	6	13			48	BR37515-4063
	1,5	8		40	BR37515-4115	
	2	10		BR37515-4120		
	2,5	12		BR37515-4125		
	3	13		BR37515-4133		
	4	10		45	BR37515-4143	
	5	12		47	BR37515-4153	
	6	13		48	BR37515-4163	
	3	14	40	BR37515-4233		
	4		49	BR37515-4243		
	5	16	51	BR37515-4253		
	6	20	55	BR37515-4263		
	3	13	40	BR37515-4333		
	4	10	45	BR37515-4343		
	5	12	47	BR37515-4353		
	6	13	48	BR37515-4363		
	3	13	40	BR37515-4433		
	4	10	45	BR37515-4443		
	5	12	47	BR37515-4453		
	6	13	48	BR37515-4463		

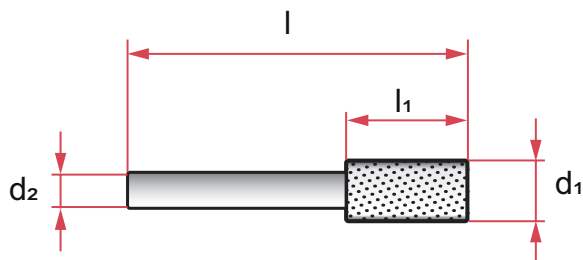


TYPE	d1	l1	d2	l	REF.	
	3	11	3	40	BR37515-4533	
	4	10		45	BR37515-4543	
	5	12		47	BR37515-4553	
	6	13		48	BR37515-4563	
	3	-		40	BR37515-4633	
	4	-		38	BR37515-4643	
	5	-		39	BR37515-4653	
	6	-		40	BR37515-4663	
	3	7		40	BR37515-4733	
	4	-		42	BR37515-4743	
	5	8		43	BR37515-4753	
	6	10		45	BR37515-4763	
	1,5	1,35		40		BR37515-4815
	2	1,8				BR37515-4820
	2,5	2,2				BR37515-4825
	3	2,7				BR37515-4833
	4	3,6	38,5		BR37515-4843	
	5	4,5	39,5		BR37515-4853	
	6	5,4	40,4		BR37515-4863	
	3	7	40	BR37515-4933		
	4	-	42	BR37515-4943		
	5	-		BR37515-4953		
	6	-		BR37515-4963		

BR17680



Diamond burrs
Fresas de diamante
Frezy diamentowe
Fresas de diamante
Meules diamant

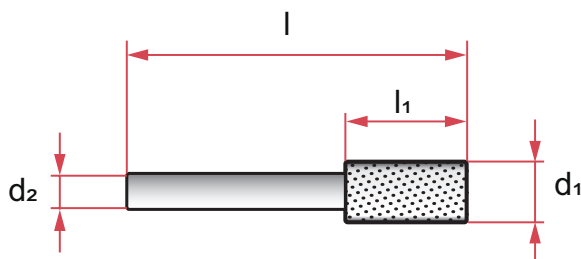


FORMA		d1	l1	d2	l	REF.
A		1	6	3	45	BR17680-A-1,0x6
		1,5				BR17680-A-1,5x6
		2	7			BR17680-A-2,0x7
		2,5				BR17680-A-2,5x7
		3				BR17680-A-3,0x7
		3,5				BR17680-A-3,5x7
		4	10			BR17680-A-4,0x10
		5				BR17680-A-5,0x10
B		1,5	-			BR17680-B-1,5
		2				BR17680-B-2,0
		3				BR17680-B-3,0
		4				BR17680-B-4,0
		5				BR17680-B-5,0
		6				BR17680-B-6,0
C		1	6	3	45	BR17680-C-1,0x6
		1,5				BR17680-C-1,5x6
		2	7			BR17680-C-2,0x7
		2,5				BR17680-C-2,5x7
		3				BR17680-C-3,0x7
		3,5				BR17680-C-3,5x7
		4	10			BR17680-C-4,0x10
		5				BR17680-C-5,0x10
6		BR17680-C-6,0x10				

BR17680



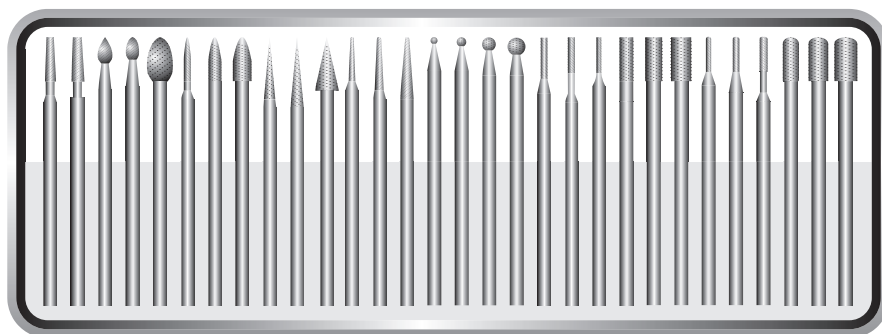
Diamond burrs
Fresas de diamante
Frezy diamentowe
Fresas de diamante
Meules diamant



FORMA		d1	l1	d2	l	REF.
F		2	7	3	45	BR17680-F-2,0x7
		3				BR17680-F-3,0x7
		4	10			BR17680-F-4,0x10
		5				BR17680-F-5,0x10
		6				BR17680-F-6,0x10
J		3	14	BR17680-J-3,0x14		
		6	13	BR17680-J-6,0x13		
P		2	12	BR17680-P-2,0x12		
		3	15	BR17680-P-3,0x15		
		6	13	BR17680-P-6,0x13		
Q		3	5	BR17680-Q-3,0x5		
		6	10	BR17680-Q-6,0x10		
R		1,5	12	BR17680-R-1,5x12		
		2		BR17680-R-2,0x12		
		3	14	BR17680-R-3,0x14		
S		3	6	BR17680-S-3,0x6		
T		2	7	BR17680-T-2,0x7		
		3		BR17680-T-3,0x7		
V		3		BR17680-V-3,0x7		

BR17681-30

Diamond burr set 30 pcs.
Juego de fresas de diamante de 30 pzas.
Zestaw frezów diamentowych
Jogo de fresas diamantadas 30 pças.
Jeu meules diamant-30 pcs

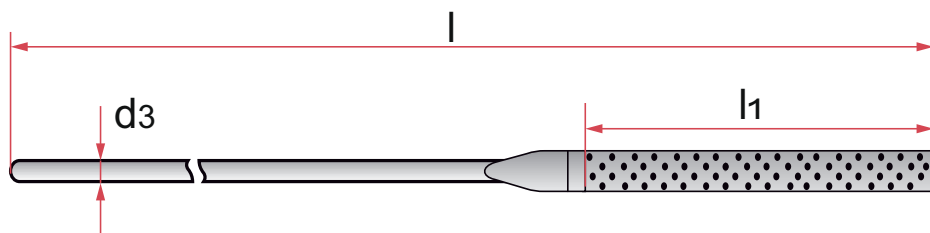


SET	REF.
30 Units.	BR17681-30

BR17610



Diamond files
 Lima de diamante
 Pilniki diamentowe
 Limas de diamante
 Limes diamant

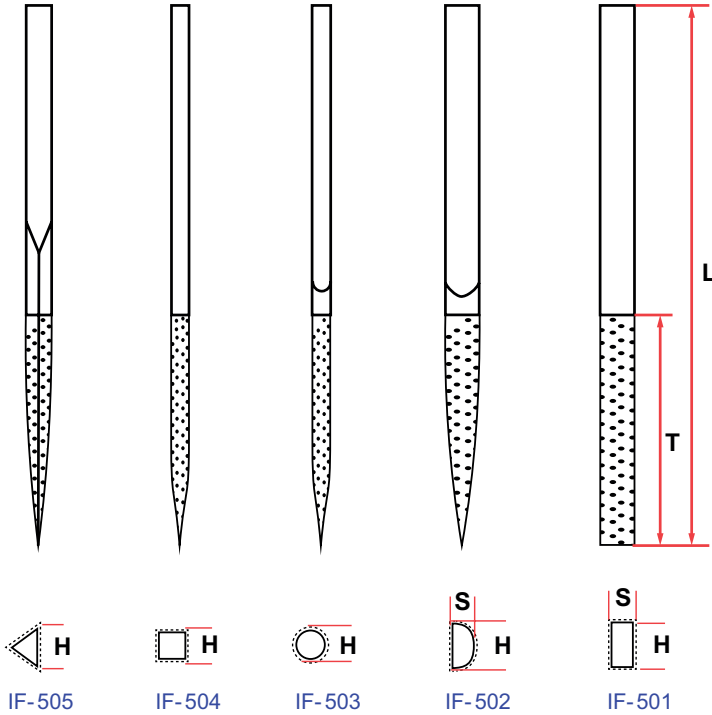


Type PF	Form	d3	l1	l	# GR	REF.
01		3	50	140	120	BR17610-01-120
02						BR17610-02-120
03						BR17610-03-120
04						BR17610-04-120
05						BR17610-05-120
06						BR17610-06-120
07						BR17610-07-120
08						BR17610-08-120
09						BR17610-09-120
10						BR17610-10-120

BR17620



Diamond files
 Lima de diamante
 Pilniki diamentowe
 Limas de diamante
 Limes diamant

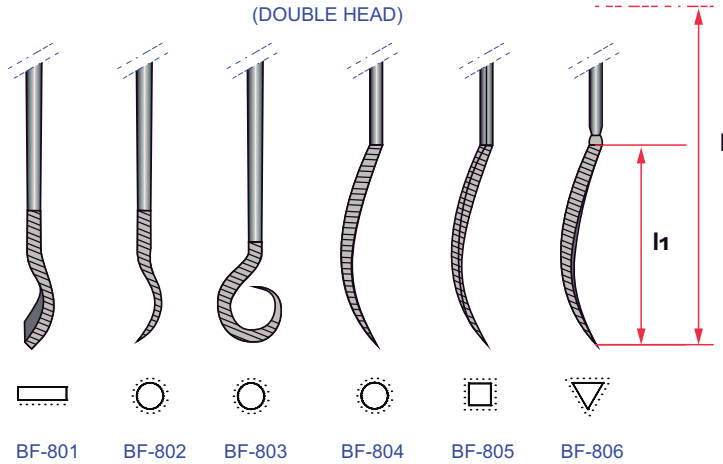


Type IF	Form	S	H	T	L	# Gr	REF.
01		3,5	11	80	215	100	BR17620-01-100
02		4,4	10,5				BR17620-02-100
03		—	5				BR17620-03-100
04			6,3				BR17620-04-100
05			7,7				BR17620-05-100

BR17630



Shaped diamond files
 Codillo de diamante
 Pilniki diamentowe ryflowe
 Limas agulha de diamante
 Rifloirs diamant.

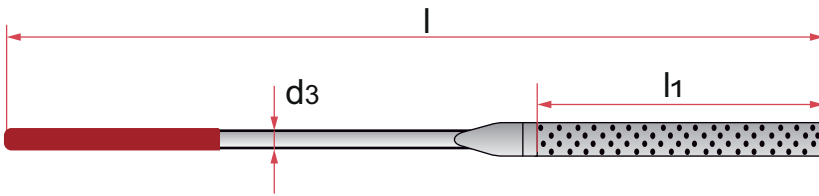


Type BF	Form	l1	l	# Gr	REF.
01		20 mm	155	200	BR17630-01-200
02					BR17630-02-200
03					BR17630-03-200
04					BR17630-04-200
05					BR17630-05-200
06					BR17630-06-200

BR17640 Set-10



Diamond files
 Lima de diamante
 Pilniki diamentowe
 Limas de diamante
 Limes diamant

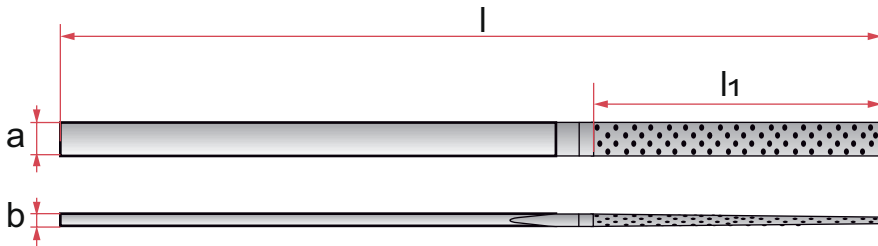


Type PTF	Form	d3	l1	l	# GR	REF.
100		3	30	130	200	BR17640-SET-10
					400	
					600	
					200	
					400	
					600	
					200	
			400			
	600					
			50	140		

BR17641 Set-12



Diamond files
 Lima de diamante
 Piłniki diamentowe
 Limas de diamante
 Limes diamant

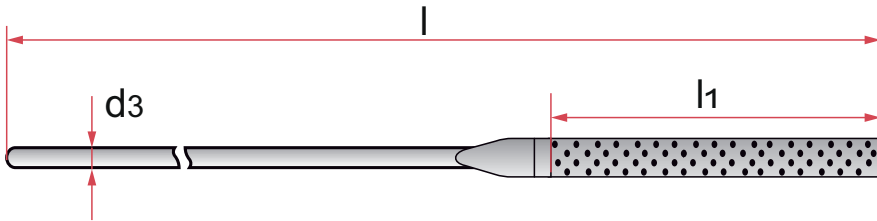


Type CF	Form	a	b	l1	l	# GR	REF.
400		2	2	40	180	150	BR17641-SET-12
						200	
						400	
		4	50	150			
				200			
				400			
		6		150			
				200			
		8		150			
				200			
				400			

BR17642 Set-10



Diamond files
 Lima de diamante
 Pilniki diamentowe
 Limas de diamante
 Limes diamant

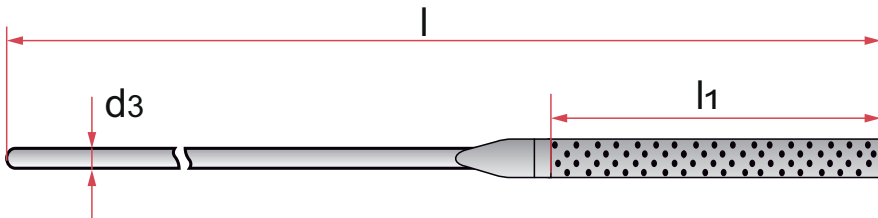


Type PF10L	Form	d3	l1	l	# GR	REF.
01		3	70	140	120	BR17642-SET-10
02						
03						
04						
05						
06						
07						
08						
09						
10						

BR17643 Set-5



Diamond files
 Lima de diamante
 Pilniki diamentowe
 Limas de diamante
 Limes diamant

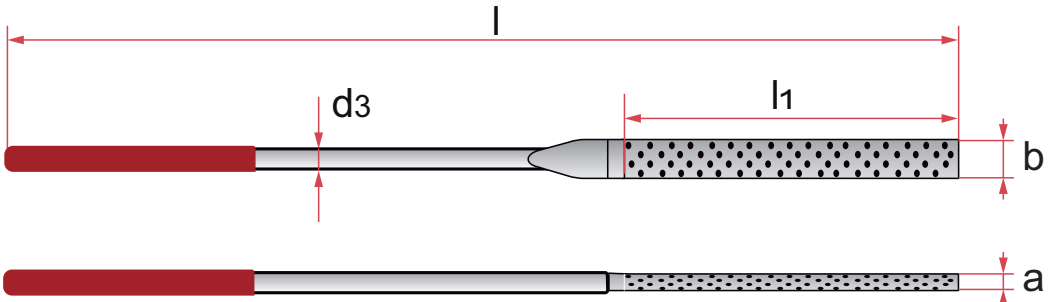


Type PF10L	Form	d3	l1	l	# GR	REF.
01		3	70	140	120	BR17643-SET-5
02						
03						
04						
05						

BR17650



Diamond files
 Lima de diamante
 Pilniki diamentowe
 Limas de diamante
 Limes diamant

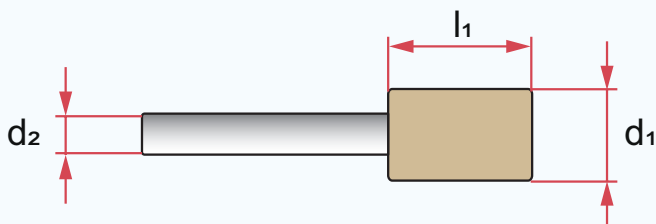


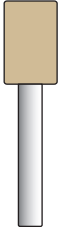

Type PFL	Form	a	b	d3	l1	l	# GR	REF.
01		0,5	5,5	3	50	180	200	BR17650-01-0,5x5,5
01		0,8						BR17650-01-0,8x5,5
01		1,5						BR17650-01-1,5x5,5
01								BR17650-101-1,5x5,5
02		2,0	5	3	50	180	200	BR17650-02-2,0x5,0
03								-
03		3,0	5	3	50	180	200	BR17650 - 03 - 3,0
04		2,5	5	3	50	180	200	BR17650 - 04 - 2,5
04		3,5	5	3	50	180	200	BR17650 - 04 - 3,5
06		1,0	1,5	3	50	180	200	BR17650-06-1,0x1,5

BR17110



Felt bobs
 Muela de fieltro
 Wrzeciona filcowe
 Filtros de pulir
 Feutre sur tige

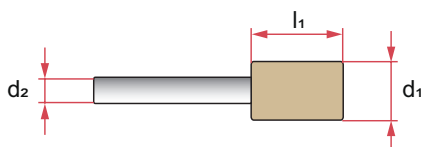


FORMA	d1	l1	d2	REF.	
A 	4	8	3	BR17110-A-4,0x8-3	
	5	9		BR17110-A-5,0x9-3	
	6	10		BR17110-A-6,0x10-3	
	8			BR17110-A-8,0x10-3	
	10	12		BR17110-A-10x12-3	
	12	15		BR17110-A-12x15-3	
	13	19		BR17110-A-13x19-3	
	19	25		BR17110-A-19x25-3	
	10	15	6	BR17110-A-10x15-6	
	12	20		BR17110-A-12x20-6	
	16			BR17110-A-16x20-6	
	20	25		BR17110-A-20x25-6	
	25	30		BR17110-A-25x30-6	
	30	40		BR17110-A-30x40-6	
	B 	6	-	3	BR17110-B-6,0-3
		8			BR17110-B-8,0-3
10		BR17110-B-10-3			
12		BR17110-B-12-3			
15		BR17110-B-15-3			
10		6		BR17110-B-10-6	
12			BR17110-B-12-6		
20			BR17110-B-20-6		

BR17110



Felt bobs
Muela de fieltro
Wrzeciona filcowe
Filtros de pulir
Feutre sur tige



FORMA	d1	l1	d2	REF.	
	4	8	3	BR17110-C-4,0x8-3	
	6	10	3	BR17110-C-6,0x10-3	
	8			BR17110-C-8,0x10-3	
	10	13	6	BR17110-C-10x13-3	
	12	14		BR17110-C-12x14-3	
		18		BR17110-C-12x18-3	
		18		BR17110-C-12x18-3	
	15	20	6	BR17110-C-15x20-6	
	20	25		BR17110-C-20x25-6	
25	30	BR17110-C-25x30-6			
	6	10	3	BR17110-F-6,0x10-3	
	8			BR17110-F-8,0x10-3	
	10			12	BR17110-F-10x12-3
				20	BR17110-F-10x20-3
	12	25	6	BR17110-F-12x25-3	
	19	38		BR17110-F-19x38-3	
	10	15		BR17110-F-10x15-6	
		20		BR17110-F-12x20-6	
	15	25		BR17110-F-15x25-6	
		20		BR17110-F-20x25-6	
	25	30		BR17110-F-25x30-6	
		50		BR17110-F-25x50-6	
	30	40		BR17110-F-30x40-6	
		10		12	3
12		18	BR17110-J-12x18-3		
		25	BR17110-J-12x25-3		
10		15	6	BR17110-J-10x15-6	
		16		BR17110-J-16x20-6	
20		BR17110-J-20x25-6			
25		30		BR17110-J-25x30-6	
		50		BR17110-J-25x50-6	
30		40		BR17110-J-30x40-6	

Diamond compound

Diamond compound 5 gr.
 Pasta de diamante 5 gr.
 Pasta diamentowa 5 gr.
 Pasta de diamante 5 gr.
 Pate de diamant 5 gr.



	μ	Concentration	REF.
PDR-280	0,25	28000	N°1/4
PDR-140	1	14000	N° 01
PDR-080	3	8000	N° 03
PDR-050	4,5	5000	N°4.5
PDR-030	6	3000	N° 06
PDR-018	9	1800	N° 09
PDR-012	14	1200	N° 14
PDR-006	25	600	N° 25
PDR-003	15	300	N° 45

BR83019

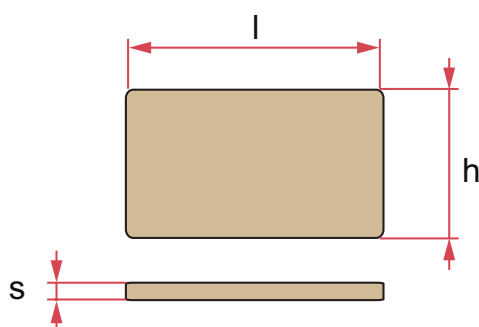
Flat Felts Pack

Paq. de fieltros planos

Filce płaskie

Pacote de feltros planos

Pack de feutre plat



l	h	s	Qty.	REF.
50	25	2,5	10	BR83019

BR OS Fluid

Lubricating fluid 450ml.

Diluyente pasta diamante 450ml.

Rozcieńczalnik do pasty diamentowej 450ml.

Diluyente em pasta de diamante 450ml.

Diluant pour pâte diamant 450ml.

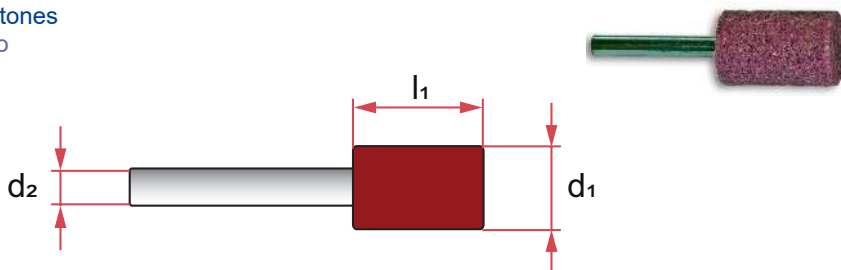
- Assists diamond paste products to cut and polish more effectively by absorbing frictional heat and diluting the lapping residue.
- Lubricant performance remains stable even when under high pressure.
- Manufactured from high purity chemicals.
- Recommended when polishing tooling, moulds and similar components.
- Ayuda a las pastas de diamante a cortar y pulir de manera mas efectiva, al absorber el calor de la fricción y diluir los residuos del pulido.
- El rendimiento del fluido permanece estable incluso cuando se encuentra bajo alta presión.
- Fabricado con productos quimicos de alta pureza.
- Recomendado para pulir moldes, utillajes y componentes similares.



BR17310



Mounted polishing stones
 Muela sobre vástago
 Trzpień polerskie
 Mós montada
 Meules sur tige



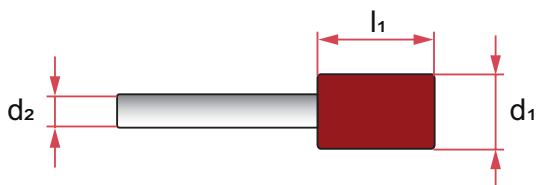
FORM	d2	d1	l1	REF.		
A	3	2	5	BR17310-A-2,0x5-3		
			6	BR17310-A-3,0x6-3		
		4	2	BR17310-A-4,0x2-3		
				8	BR17310-A-4,0x8-3	
		5	10	BR17310-A-5,0x10-3		
		6	13	BR17310-A-6,0x13-3		
		8	2	BR17310-A-8,0x2-3		
				10	BR17310-A-8,0x10-3	
				16	BR17310-A-8,0x16-3	
		10	2	BR17310-A-10x2-3		
				13	BR17310-A-10x13-3	
		13	3	BR17310-A-13x3-3		
	13			BR17310-A-13x13-3		
	16	4	BR17310-A-16x4-3			
	20	6	BR17310-A-20x6-3			
	6	5	10	BR17310-A-5,0x10-6		
				6	13	BR17310-A-6,0x13-6
				10	20	BR17310-A-10x20-6
					25	BR17310-A-10x25-6
		13	3	BR17310-A-13x3-6		
				6	BR17310-A-13x6-6	
				13	BR17310-A-13x13-6	
				25	BR17310-A-13x25-6	
		16	4	BR17310-A-16x4-6		
10				BR17310-A-16x10-6		
20				BR17310-A-16x20-6		
32				BR17310-A-16x32-6		

FORM	d2	d1	l1	REF.		
A	6	16	40	BR17310-A-16x40-6		
			50	BR17310-A-16x50-6		
		20	6	BR17310-A-20x6-6		
				10	BR17310-A-20x10-6	
				13	BR17310-A-20x13-6	
				20	BR17310-A-20x20-6	
				25	BR17310-A-20x25-6	
				32	BR17310-A-20x32-6	
				40	BR17310-A-20x40-6	
				50	BR17310-A-20x50-6	
		25	6	BR17310-A-25x6-6		
				13	BR17310-A-25x13-6	
				16	BR17310-A-25x16-6	
				25	BR17310-A-25x25-6	
				32	BR17310-A-25x32-6	
				40	BR17310-A-25x40-6	
	32			8	BR17310-A-32x8-6	
					16	BR17310-A-32x16-6
		20	BR17310-A-32x20-6			
		32	BR17310-A-32x32-6			
		40	BR17310-A-32x40-6			
		40	6		BR17310-A-40x6-6	
					10	BR17310-A-40x10-6
					15	BR17310-A-40x15-6
	20			BR17310-A-40x20-6		
	40			BR17310-A-40x40-6		
	50			8	BR17310-A-50x8-6	
					13	BR17310-A-50x13-6
					25	BR17310-A-50x25-6

BR17310



Mounted polishing stones
Muela sobre vástago
Trzpienie polerskie
Mós montada
Meules sur tige



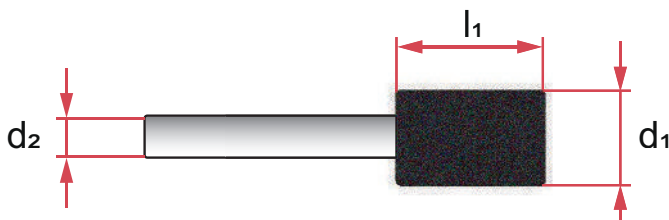
FORM	d2	d1	l1	REF.
B	3	3	-	BR17310-B-3,0-3
		5		BR17310-B-5,0-3
		8		BR17310-B-8,0-3
		10		BR17310-B-10-3
		13		BR17310-B-13-3
	6	3		BR17310-B-3,0-6
		5		BR17310-B-5,0-6
		8		BR17310-B-8,0-6
		10		BR17310-B-10-6
		13		BR17310-B-13-6
		16		BR17310-B-16-6
		20		BR17310-B-20-6
		25		BR17310-B-25-6
		32		BR17310-B-32-6
		C	3	3
5	10			BR17310-C-5,0x10-3
6	3		6	BR17310-C-3,0x6-6
	5		10	BR17310-C-5,0x10-6
	8		16	BR17310-C-8,0x16-6
	13		20	BR17310-C-13x20-6
	20		25	BR17310-C-20x25-6
F	3	3	6	BR17310-F-3,0x6-3
		5	10	BR17310-F-5,0x10-3
		9	16	BR17310-F-9,0x16-3
	6	9	16	BR17310-F-9,0x16-6
		13	20	BR17310-F-13x20-6
		20	32	BR17310-F-20x32-6
		50		BR17310-F-20x50-6
25	40	BR17310-F-25x40-6		

FORM	d2	d1	l1	REF.
J	3	10	10	BR17310-J-10x10-3
		6	25	BR17310-J-10x25-6
	6	13	13	BR17310-J-13x13-6
		16	16	BR17310-J-16x16-6
		45		BR17310-J-16x45-6
		20	20	BR17310-J-20x20-6
		32		BR17310-J-20x32-6
		40		BR17310-J-20x40-6
		25	25	BR17310-J-25x25-6
		45		BR17310-J-25x45-6
T	13	20		BR17310-T-13x20-6
		32		BR17310-T-13x32-6
	20	25		BR17310-T-20x25-6
	25	32		BR17310-T-25x32-6
	32	40		BR17310-T-32x40-6
V	20	16		BR17310-V-20x16-6
		25		BR17310-V-25x20-6
	32	25		BR17310-V-32x25-6
		40	32	

BR17520



Abrasive shapes
Dediles abrasivos
Frezy trzpieniowe
Formas abrasivas
Capuchon abrasifs



FORM	GR.	RPM max.	d2	d1	l1	REF.
A	150	95000	3	5	10	BR17520-A-5,0x10-150-(05-A)
		65000		7	12	BR17520-A-7,0x12-150-(07-A)
		45000	6	10	15	BR17520-A-10x15-150-(10-A)
		35000		13	17	BR17520-A-13x17-150-(13-A)
		30000		16	26	BR17520-A-16x26-150-(16-A)
	280	95000	3	5	10	BR17520-A-5,0x10-280-(05-A)
		65000		7	12	BR17520-A-7,0x12-280-(07-A)
		45000	6	10	15	BR17520-A-10x15-280-(10-A)
		35000		13	17	BR17520-A-13x17-280-(13-A)
		30000		16	26	BR17520-A-16x26-280-(16-A)
C	150	95000	3	5	11	BR17520-C-5,0x11-150-(05-C)
		65000		7	13	BR17520-C-7,0x13-150-(07-C)
		45000	6	10	15	BR17520-C-10x15-150-(10-C)
		35000		13	17	BR17520-C-13x17-150-(13-C)
		30000		16	26	BR17520-C-16x26-150-(16-C)
	280	95000	3	5	11	BR17520-C-5,0x11-280-(05-C)
		65000		7	13	BR17520-C-7,0x13-280-(07-C)
		45000	6	10	15	BR17520-C-10x15-280-(10-C)
		35000		13	17	BR17520-C-13x17-280-(13-C)
		30000		16	26	BR17520-C-16x26-280-(16-C)
G	150	95000	3	5	11	BR17520-G-5,0x11-150-(05-G)
		65000		7	13	BR17520-G-7,0x13-150-(07-G)
		45000	6	10	15	BR17520-G-10x15-150-(10-G)
		35000		13	17	BR17520-G-13x17-150-(13-G)
		30000		16	26	BR17520-G-16x26-150-(16-G)
	280	95000	3	5	11	BR17520-G-5,0x11-280-(05-G)
		65000		7	13	BR17520-G-7,0x13-280-(07-G)
		45000	6	10	15	BR17520-G-10x15-280-(10-G)
		35000		13	17	BR17520-G-13x17-280-(13-G)
		30000		16	26	BR17520-G-16x26-280-(16-G)

BR17520

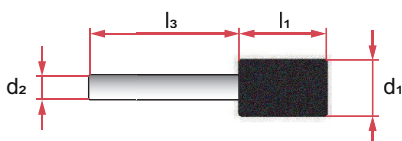
Abrasive shapes
 Dediles abrasivos
 Frezy trzpieniowe
 Formas abrasivas
 Capuchon abrasifs



FORM	GR.	RPM max.	d2	d1	l1	REF.
L	150	95000	3	5	11	BR17520-L-5,0x11-150-(05-L)
		40000		11	25	BR17520-L-11x25-150-(11-L)
		30000		16	32	BR17520-L-16x32-150-(16-L)
		20000	6	21	40	BR17520-L-21x40-150-(21-L)
	280	95000	3	5	11	BR17520-L-5,0x11-280-(05-L)
		40000		11	25	BR17520-L-11x25-280-(11-L)
		30000		16	32	BR17520-L-16x32-280-(16-L)
		20000	6	21	40	BR17520-L-21x40-280-(21-L)

BR17521

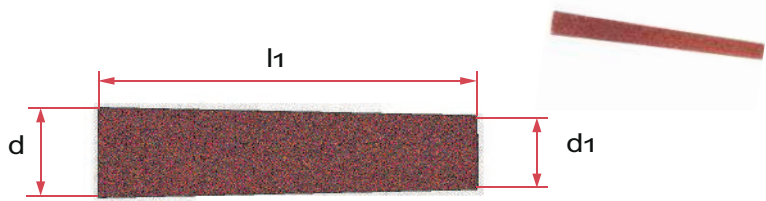
Support abrasive shape
 Portadedil
 Frezy trzpieniowe
 Suporte capuze abrasivo
 Support capuchon abrasif



	FORMA	d2	l3	d1	l1	REF.
A		3	25	5	10	BR17521-A-5,0x10-3
				7	12	BR17521-A-7,0x12-3
		6		10	15	BR17521-A-10x15-3
				13	17	BR17521-A-13x17-6
C		3		5	11	BR17521-C-5,0x11-3
				7	13	BR17521-C-7,0x13-3
		6		10	15	BR17521-C-10x15-3
				13	17	BR17521-C-13x17-6
G		3	5	11	BR17521-G-5,0x11-3	
			7	13	BR17521-G-7,0x13-3	
		6	10	15	BR17521-G-10x15-3	
			13	17	BR17521-G-13x17-6	
L		3	5	11	BR17521-L-5,0x11-3	
			11	25	BR17521-L-11x25-3	
		6	16	32	BR17521-L-16x32-3	
			21	40	BR17521-L-21x40-6	

BR17522

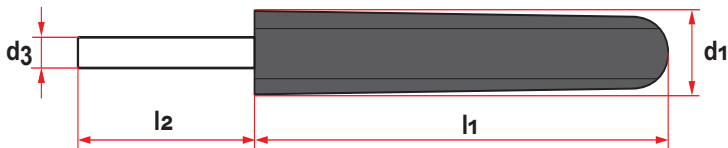
Abrasive shapes
 Dediles abrasivos
 Frezy trzpieniowe
 Formas abrasivas
 Capuchon abrasifs



GR	l1	d1	d	REF.
80	85	4,5	8	BR17522-D- 8x85-080
80	85	9,5	13	BR17522-D-13x85-080
80	85	14,5	18	BR17522-D-18x85-080
80	85	19,5	23	BR17522-D-23x85-080
150	85	4,5	8	BR17522-D- 8x85-150
150	85	9,5	13	BR17522-D-13x85-150
150	85	14,5	18	BR17522-D-18x85-150
150	85	19,5	23	BR17522-D-23x85-150

BR17523

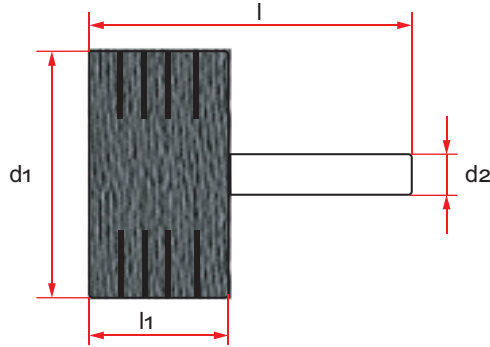
Support abrasive shape
 Portadedil
 Frezy trzpieniowe
 Suporte capuze abrasivo
 Support capuchon abrasif



d3	l2	l1	d1	REF.
6	40	85	8	BR17523-D- 8- 6
6	40	85	13	BR17523-D-13- 6
6	40	85	18	BR17523-D-18- 6
6	40	85	23	BR17523-D-23- 6

BR17510

Mounted flap wheels
 Abanicos de tela abrasiva
 Filce ścierne lamelkowe
 Leques de lixa
 Meules a lamelles sur tige



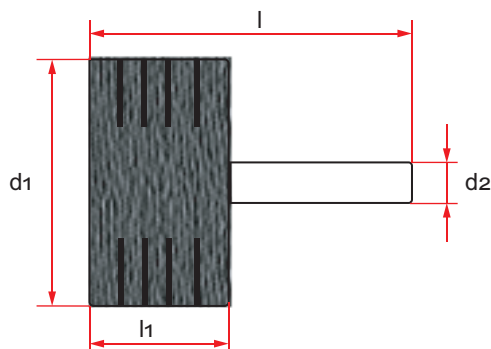
RPM Rec.	RPM Max.	d2	l	d1	l1	GR	REF.
16000	18000	3	55	15	15	60	BR17510-15-15-3-60
16000	18000	3	55	15	15	80	BR17510-15-15-3-80
16000	18000	3	45	30	5	60	BR17510-30-5-3-60
16000	18000	3	45	30	5	80	BR17510-30-5-3-80
16000	18000	3	45	30	5	120	BR17510-30-5-3-120
16000	18000	3	45	30	5	150	BR17510-30-5-3-150
16000	18000	3	45	30	5	180	BR17510-30-5-3-180
16000	18000	3	45	30	5	240	BR17510-30-5-3-240
16000	18000	3	45	30	5	320	BR17510-30-5-3-320
16000	18000	6	45	30	5	60	BR17510-30-5-6-60
16000	18000	6	45	30	5	120	BR17510-30-5-6-120
16000	18000	6	45	30	5	320	BR17510-30-5-6-320
16000	18000	3	50	30	10	60	BR17510-30-10-3-60
16000	18000	3	50	30	10	80	BR17510-30-10-3-80
16000	18000	3	50	30	10	120	BR17510-30-10-3-120
16000	18000	3	50	30	10	150	BR17510-30-10-3-150
16000	18000	3	50	30	10	180	BR17510-30-10-3-180
16000	18000	3	50	30	10	240	BR17510-30-10-3-240
16000	18000	3	50	30	10	320	BR17510-30-10-3-320

RPM Rec.	RPM Max.	d2	l	d1	l1	GR	REF.
16000	18000	6	50	30	10	60	BR17510-30-10-6-60
16000	18000	6	50	30	10	80	BR17510-30-10-6-80
16000	18000	6	50	30	10	120	BR17510-30-10-6-120
16000	18000	6	50	30	10	150	BR17510-30-10-6-150
16000	18000	6	50	30	10	180	BR17510-30-10-6-180
16000	18000	6	50	30	10	240	BR17510-30-10-6-240
16000	18000	6	50	30	10	320	BR17510-30-10-6-320
16000	18000	6	55	30	15	80	BR17510-30-15-6-80
16000	18000	6	55	30	15	120	BR17510-30-15-6-120
16000	18000	6	70	30	30	40	BR17510-30-30-6-40
16000	18000	6	45	40	5	60	BR17510-40-5-6-60
16000	18000	6	45	40	5	80	BR17510-40-5-6-80
16000	18000	6	45	40	5	120	BR17510-40-5-6-120
16000	18000	6	55	40	15	60	BR17510-40-15-6-60
16000	18000	6	55	40	15	120	BR17510-40-15-6-120
16000	18000	6	55	40	15	320	BR17510-40-15-6-320
12000	18000	6	60	40	20	60	BR17510-40-20-6-60
12000	18000	6	60	40	20	80	BR17510-40-20-6-80
12000	18000	6	60	40	20	120	BR17510-40-20-6-120

BR17510



Mounted flap wheels
 Abanicos de tela abrasiva
 Filce ścierne lamelkowe
 Leques de lixa
 Meules a lamelles sur tige

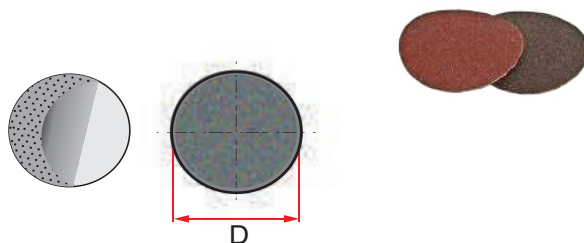


RPM Rec.	RPM Max.	d2	l	d1	l1	GR	REF.
12000	18000	6	60	40	20	150	BR17510- 40-20-6-150
12000	18000	6	60	40	20	180	BR17510- 40-20-6-180
12000	18000	6	60	40	20	240	BR17510- 40-20-6-240
12000	18000	6	60	40	20	320	BR17510- 40-20-6-320
12000	18000	6	70	40	30	120	BR17510- 40-30-6-120
9000	12000	6	50	50	10	240	BR17510- 50-10-6-240
9000	12000	6	55	50	15	60	BR17510- 50- 15-6- 60
9000	12000	6	55	50	15	80	BR17510- 50- 15-6- 80
9000	12000	6	55	50	15	120	BR17510- 50-15-6-120
9000	12000	6	55	50	15	150	BR17510- 50-15-6-150
9000	12000	6	55	50	15	180	BR17510- 50-15-6-180
9000	12000	6	55	50	15	240	BR17510- 50-15-6-240
9000	12000	6	55	50	15	320	BR17510- 50-15-6-320
9000	12000	6	60	50	20	60	BR17510- 50- 20-6- 60
8000	12000	6	45	60	5	80	BR17510- 60- 5-6- 80
8000	12000	6	45	60	5	120	BR17510- 60- 5-6- 120
8000	12000	6	50	60	10	80	BR17510- 60- 10-6- 80
8000	12000	6	50	60	10	120	BR17510- 60-10-6-120
8000	12000	6	50	60	10	320	BR17510- 60-10-6-320

RPM Rec.	RPM Max.	d2	l	d1	l1	GR	REF.
8000	12000	6	60	60	20	60	BR17510- 60- 20-6- 60
8000	12000	6	60	60	20	80	BR17510- 60- 20-6- 80
8000	12000	6	60	60	20	120	BR17510- 60-20-6-120
8000	12000	6	60	60	20	150	BR17510- 60-20-6-150
8000	12000	6	60	60	20	180	BR17510- 60-20-6-180
8000	12000	6	60	60	20	240	BR17510- 60-20-6-240
8000	12000	6	60	60	20	320	BR17510- 60-20-6-320
8000	12000	6	70	60	30	40	BR17510- 60- 30-6- 40
8000	12000	6	70	60	30	60	BR17510- 60- 30-6- 60
8000	12000	6	70	60	30	80	BR17510- 60- 30-6- 80
8000	12000	6	70	60	30	120	BR17510- 60-30-6-120
8000	12000	6	70	60	30	150	BR17510- 60-30-6-150
8000	12000	6	70	60	30	240	BR17510- 60-30-6-240
8000	12000	6	70	60	30	320	BR17510- 60-30-6-320
8000	12000	6	80	60	40	80	BR17510- 60- 40-6- 80
8000	12000	6	80	60	40	120	BR17510- 60-40-6-120
8000	12000	6	70	80	30	240	BR17510- 80-30-6-240
8000	12000	6	90	80	50	120	BR17510- 80-50-6-120
8000	12000	6	90	80	50	80	BR17510- 80- 50-6- 80

BR17512

Auto-adhesive abrasive discs
 Discos de lija autoadhesivos
 Samoprzylepne krążki ściernie
 Discos de lixa autocolantes
 Disques de meulage autocollants

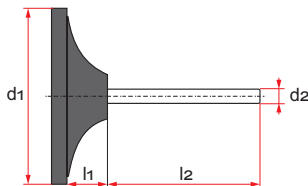


D	GR.	DESC.
18	60	BR17512-18- 60
18	80	BR17512-18- 80
18	120	BR17512-18-120
18	150	BR17512-18-150
18	180	BR17512-18-180
18	240	BR17512-18-240
30	60	BR17512-30- 60
30	80	BR17512-30- 80
30	120	BR17512-30-120
30	150	BR17512-30-150
30	180	BR17512-30-180

D	GR.	DESC.
30	240	BR17512-30-240
45	60	BR17512-45- 60
45	80	BR17512-45- 80
45	120	BR17512-45-120
45	150	BR17512-45-150
45	180	BR17512-45-180
45	240	BR17512-45-240
60	60	BR17512-60- 60
60	80	BR17512-60- 80
60	120	BR17512-60-120

BR17513

Support for auto-adhesive disc
 Soportes para discos de lija autoadhesivos
 Nośniki samoprzylepnych krążków ściernych
 Supporte para discos de lixa autocolantes
 Supports pour disc autocollantes



RPM max.	d2	l	d2	l2	l1	d1	Ref
20.000	3	30	3	30	11	18	BR17513-18
12.500	3	30	3	30	12	30	BR17513-30
12.500	6	40	6	40	12	30	BR17513-30
10.000	6	40	6	40	11	45	BR17513-45
8.000	6	40	6	40	13	60	BR17513-60

BR17511



Abrasive paper sheets
Hojas de esmeril
Papier ścierny
Folhas de lixa
Feuilles pour polissage

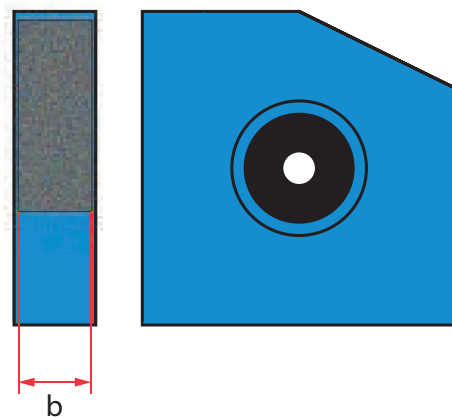


b	l	GR.	REF.
230	280	40	BR17511- 40
230	280	50	BR17511- 50
230	280	60	BR17511- 60
230	280	80	BR17511- 80
230	280	100	BR17511- 100
230	280	120	BR17511- 120
230	280	150	BR17511- 150
230	280	180	BR17511- 180
230	280	220	BR17511- 220
230	280	120	BR17511- 120
230	280	150	BR17511- 150
230	280	220	BR17511- 220
230	280	240	BR17511- 240
230	280	280	BR17511- 280
230	280	320	BR17511- 320
230	280	360	BR17511- 360
230	280	400	BR17511- 400
230	280	500	BR17511- 500
230	280	600	BR17511- 600
230	280	800	BR17511- 800
230	280	1000	BR17511-1000
230	280	1200	BR17511-1200

BR17590



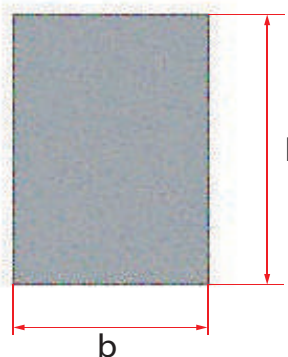
Abrasive cloth rolls
 Rollo de esmeril
 Taśma ścierna
 Rolos de lixa
 Rouleaux toile metalite



l	b	GR	REF.
25m	38	60	BR17590- 38-60
		80	BR17590- 38-80
		100	BR17590-38-100
		120	BR17590-38-120
		150	BR17590-38-150
		180	BR17590-38-180
		220	BR17590-38-220
		240	BR17590-38-240
		280	BR17590-38-280
		320	BR17590-38-320
		400	BR17590-38-400
		600	BR17590-38-600
	50	60	BR17590- 50-60
		80	BR17590- 50-80
		100	BR17590-50-100
		120	BR17590-50-120
		150	BR17590-50-150
		180	BR17590-50-180
		220	BR17590-50-220
		240	BR17590-50-240
		280	BR17590-50-280
		320	BR17590-50-320
		400	BR17590-50-400
		600	BR17590-50-600

BR17514

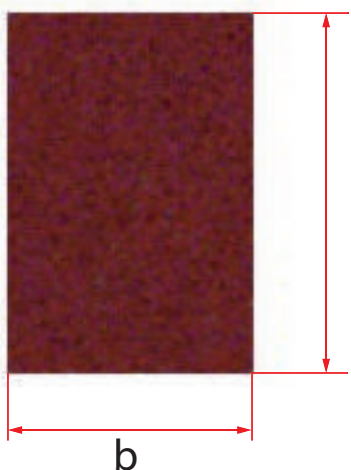
Sandpaper sponge
 Esponja de lija
 Gąbka ścierna
 Esponja de lixa
 Éponge de ponçage



b	l	GR		REF
115	140	100-180	MEDIO	BR17514/100
115	140	320-400	FINO	BR17514/320
115	140	500-600	SUPERFINO	BR17514/500

BR17910

Sheets 7447
 Lamina 7447
 Arkusz ręczny 7447
 Lamina 7447
 Feuille 7447

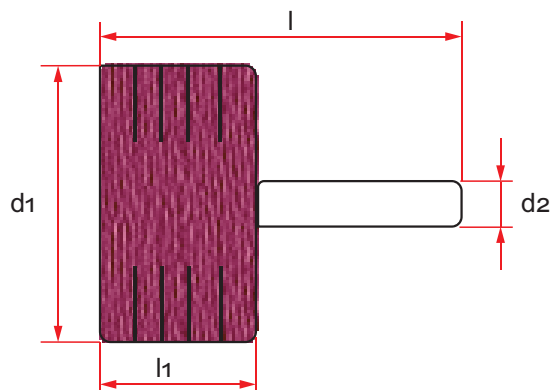


b	l	GR		ref
150	230	320	Muy fino	BR17910/ VF

BR17930



Synthetic fiber wheel
 Abanicos fibra sintetica
 Tarcza polerska
 Roda de fibra sintética
 Roueen fibre synthétique



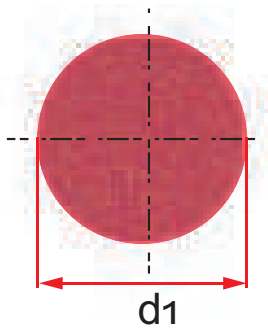
Oxido de aluminio/Aluminium oxide

RPM max.	d2	l	d1	l1	GR	REF.
12200	6	70	50	30	Rough	BR17930-050x30-Rough
					Medium	BR17930-050x30-Medium
					Fine	BR17930-050x30-Fine
10200		90	60	50	Rough	BR17930-060x30-Rough
					Medium	BR17930-060x30-Medium
					Fine	BR17930-060x30-Fine
			Rough	BR17930-060x50-Rough		
			Medium	BR17930-060x50-Medium		
			Fine	BR17930-060x50-Fine		
7600	80	50	Rough	BR17930-080x50-Rough		
			Medium	BR17930-080x50-Medium		
			Fine	BR17930-080x50-Fine		
6000	100	50	Rough	BR17930-100x50-Rough		
			Medium	BR17930-100x50-Medium		
			Fine	BR17930-100x50-Fine		

BR17931



Synthetic fiber disc
Disco de fibra sintética
Tarcza polerska
Disco de fibra sintética
Disque en fibres synthétiques



Oxido de aluminio/Aluminium oxide+nylon

d1	GR	REF.
150	Superfine/Super fino	BR17931-320

BR17920

Synthetic fiber roll
Rollo de fibra sintética
POL
Rolo de fibra sintética
Rouleau fibres synthétiques



Oxido de aluminio/Aluminium oxide

Long/Largo	Width/Ancho	GR	REF.
10m	115	Fine/Fino	BR17920- F
10m	115	Superfine/Super fino	BR17920-VF

BR17710



Manual polishing stones Gesswein® DF
 Piedras para pulido manual Gesswein® DF
 Kamienie do polerowania ręcznego Gesswein® DF
 Pedra abrasiva Gesswein® DF
 Pierres a polir Gesswein® DF



l	s	b	GR	REF.
150	3	6	150	BR17710- 3x 6-2101
			220	BR17710- 3x 6-2201
			320	BR17710- 3x 6-2301
			400	BR17710- 3x 6-2401
			600	BR17710- 3x 6-2601
			900	BR17710- 3x 6-2901
		13	150	BR17710- 3x13-2103
			220	BR17710- 3x13-2203
			320	BR17710- 3x13-2303
			400	BR17710- 3x13-2403
			600	BR17710- 3x13-2603
			900	BR17710- 3x13-2903
	6	6	150	BR17710- 6x 6-2102
			220	BR17710- 6x 6-2202
			320	BR17710- 6x 6-2302
			400	BR17710- 6x 6-2402
			600	BR17710- 6x 6-2602
			900	BR17710- 6x 6-2902
		13	150	BR17710- 6x13-2104
			220	BR17710- 6x13-2204
			320	BR17710- 6x13-2304
			400	BR17710- 6x13-2404
			600	BR17710- 6x132604

l	s	b	GR	REF.		
150	6	13	900	BR17710- 6x13-2904		
			150	BR17710- 6x19-2109		
			220	BR17710- 6x19-2209		
			320	BR17710- 6x19-2309		
			400	BR17710- 6x19-2409		
			600	BR17710- 6x19-2609		
		900	150	BR17710- 6x19-2909		
			320	BR17710- 6x25-2312		
			400	BR17710- 6x25-2412		
			600	BR17710- 6x25-2612		
			9,5	9,5	150	BR17710-9,5x9,5-2108
					220	BR17710-9,5x9,5-2208
	320	BR17710-9,5x9,5-2308				
	400	BR17710-9,5x9,5-2408				
	600	BR17710-9,5x9,5-2608				
	900	BR17710-9,5x9,5-2908				
	13	13	150	BR17710-13x13-2105		
			220	BR17710-13x13-2205		
			320	BR17710-13x13-2305		
			400	BR17710-13x13-2405		
			600	BR17710-13x13-2605		
			900	BR17710-13x13-2905		

DF

By far our most popular finishing stones, Diemaker Stones combine the characteristics of fast cutting and moderate breakdown. For general purpose stoning on hard and soft grades of mold steel and for prefinishing of aluminium, beryllium copper and kirksite. The precise grit size of medium-hard aluminum oxide is distributed throughout each stone. Can be used in a profiler or ultrasonic polisher.

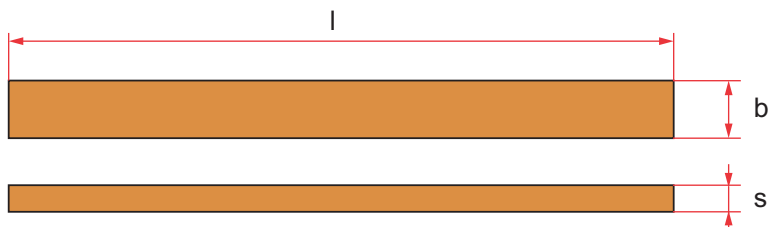
DF

Color caqui. Estructura semi-dura.
 Aplicación: la más popular de las piedras de pulir. Corte rápido. De media duración. Utilizada durante todo el proceso de pulido. No se sobrecarga y es apropiado para el pulido de precisión de aceros duros.

BR17740



Manual polishing stones Gesswein® EDM
 Piedras para pulido manual Gesswein® EDM
 Kamienie do polerowania ręcznego Gesswein® EDM
 Pedra abrasiva Gesswein® EDM
 Pierres a polir Gesswein® EDM



l	s	b	GR	REF.
150	3	6	120	BR17740-3,0x6,0-6121
			180	BR17740-3,0x6,0-6181
			320	BR17740-3,0x6,0-6301
		13	120	BR17740-3,0x13-6123
			180	BR17740-3,0x13-6183
			320	BR17740-3,0x13-6303
	4	4	120	BR17740-4,0x4,0- 61
			180	BR17740-4,0x4,0- 62
			320	BR17740-4,0x4,0- 63
	6	6	120	BR17740-6,0x6,0-6122
			180	BR17740-6,0x6,0-6182
			320	BR17740-6,0x6,0-6302
		13	120	BR17740-6,0x13-6124
			180	BR17740-6,0x13-6184
			320	BR17740-6,0x13-6304
	9,5	9,5	120	BR17740-9,5x9,5-6128
			180	BR17740-9,5x9,5-6188
			320	BR17740-9,5x9,5-6308
	25	25	180	BR17740- 25x 25-6186
			320	BR17740- 25x 25-6306

EDM

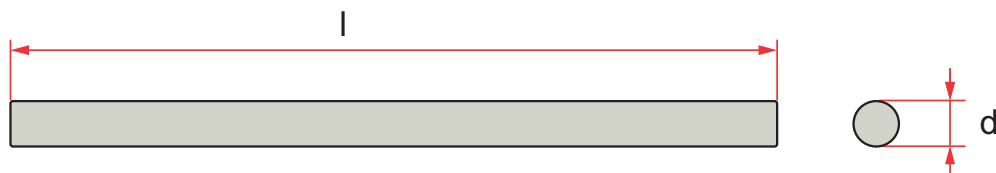
Our EDM stones remove the tough, hard scale left by the Electrical Discharge Machining process much faster than any of our other finishing stones. They contain an extra-sharp premium-grade aluminum oxide for fast cutting action. A special clay bond enables the EDM stones to hold their shape well for working small details and sharp corners. EDM stones break down slowly, cut fast and resist loading. They yield excellent results by hand but work even better in a profiler or ultrasonic polisher.

EDM

Color teja. Estructura dura.
 Aplicación: abrasivo muy duro y de aristas muy agudas. El aglomerante, extremadamente duro, impide que el abrasivo se desmorone con rapidez. Conserva muy bien la forma y corta rápido. Especializada para el pulido de superficies o perfiles de electroerosión o de materiales muy duros.

BR17711

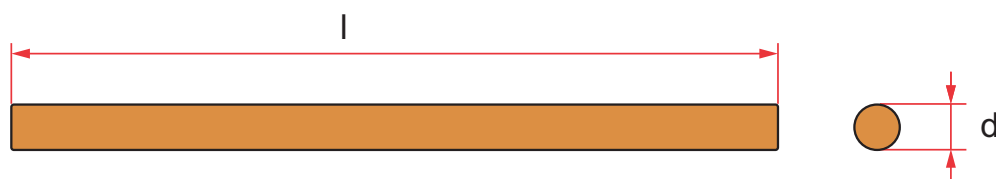
Manual polishing stones Gesswein® DF
 Piedras para pulido manual Gesswein® DF
 Kamienie do polerowania ręcznego Gesswein® DF
 Pedra abrasiva Gesswein® DF
 Pierres a polir Gesswein® DF



l	d	GR	REF.
150	6	150	BR17711-6-3102
		220	BR17711-6-3202
		320	BR17711-6-3302
		400	BR17711-6-3402
		600	BR17711-6-3602
		800	BR17711-6-3902

BR17741

Manual polishing stones Gesswein® EDM
 Piedras para pulido manual Gesswein® EDM
 Kamienie do polerowania ręcznego Gesswein® EDM
 Pedra abrasiva Gesswein® EDM
 Pierres a polir Gesswein® EDM



l	d	GR	REF.
150	6	120	BR17741-6-E122
		180	BR17741-6-E182
		320	BR17741-6-E302

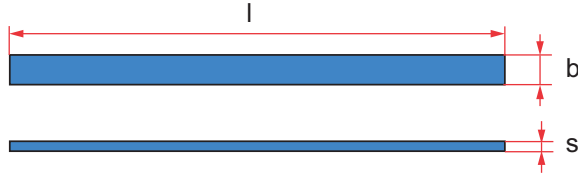
Finishing fiber rods

Barritas cerámicas para pulido

Pilniki ceramiczne do polerowania

Barras de polimento de cerâmica

Pierres ceramiques pour finition.



Colour/Color	s	b	l	GR	REF.	Colour/Color	s	b	l	GR	REF.
brown/marrón	0'5	6	100	220	BR17810-0'5x6- 220	red/rojo	1	6	100	1200	BR17810-1'0x6 -1200
brick red/teja				300	BR17810-0'5x6- 300	brown/marrón		10		220	BR17810-1'0x10- 220
orange/naranja				400	BR17810-0'5x6- 400	dark red/teja				300	BR17810-1'0x10- 300
black/negro				600	BR17810-0'5x6- 600	orange/naranja				400	BR17810-1'0x10- 400
blue/azul				800	BR17810-0'5x6- 800	black/negro				600	BR17810-1'0x10- 600
white/blanco				1000	BR17810-0'5x6-1000	blue/azul				800	BR17810-1'0x10- 800
red/rojo				1200	BR17810-0'5x6-1200	white/blanco				1000	BR17810-1'0x10-1000
brown/marrón	0'8			220	BR17810-0'8x6- 220	red/rojo				1200	BR17810-1'0x10-1200
brick red/teja				300	BR17810-0'8x6- 300	brown/marrón	1'5	6		220	BR17810-1'5x 6 - 220
orange/naranja				400	BR17810-0'8x6- 400	brick red/teja				300	BR17810-1'5x 6 - 300
black/negro				600	BR17810-0'8x6- 600	orange/naranja				400	BR17810-1'5x 6 - 400
blue/azul				800	BR17810-0'8x6- 800	black/negro				600	BR17810-1'5x 6 - 600
white/blanco				1000	BR17810-0'8x6-1000	blue/azul				800	BR17810-1'5x 6 - 800
red/rojo				1200	BR17810-0'8x6-1200	white/blanco				1000	BR17810-1'5x 6-1000
brown/marrón	1	4		220	BR17810-1'0x4- 220	red/rojo				1200	BR17810-1'5x 6-1200
brick red/teja				400	BR17810-1'0x4- 400	brown/marrón	2'0			220	BR17810-2'0x 6 - 220
orange/naranja				600	BR17810-1'0x4- 600	brick red/teja				300	BR17810-2'0x 6 - 300
brown/marrón		6		220	BR17810-1'0x6- 220	orange/naranja				400	BR17810-2'0x 6 - 400
brick red/teja				300	BR17810-1'0x6- 300	black/negro				600	BR17810-2'0x 6 - 600
orange/naranja				400	BR17810-1'0x6- 400	blue/azul				800	BR17810-2'0x 6 - 800
black/negro				600	BR17810-1'0x6- 600	white/blanco				1000	BR17810-2'0x 6-1000
blue/azul				800	BR17810-1'0x6- 800	red/rojo				1200	BR17810-2'0x 6-1200
white/blanco				1000	BR17810-1'0x6-1000						

The Meister Finish ®

- Through the utilization of aerospace materials (alumina fiber filaments), breakage, cracking and chipping have been eliminated. High polishing efficiency can be ensured.
- No clogging. Uniformly fine finishes can be achieved.
- Thanks to the braided structure of the rod type, high polishing efficiency is possible even with the side of the tool and there is no splitting of the tip.
- Suitable for fine deburring.
- Higher polishing efficiency can be achieved by using The Meister Finish® with tools (electric, air ultrasonic).
- Coarse grit type made of thick alumina fiber filaments is ideal for-re moving EDM scales.

Meister Finish ®

- Fabricadas de largas fibras cerámicas aglomeradas en resina termoendurecida.
- Poseen una resistencia superior a las piedras abrasivas normales; no se embotan, inclusive sometidas a las condiciones más rigurosas.
- Una piedra muy dura a la que se puede dar forma hasta lograr una punta sumamente fina.
- Tienen una capacidad de pulido incomparable en todo tipo de metales en las zonas de detalle, ranuras estrechas y nervios.
- Pueden ser suministradas con perfil plano y redondo y es posible su empleo en máquinas de pulido ultrasónico, alternativas mecánicas, rotativas de alta velocidad o manuales.

Finishing fiber rods

Barritas cerámicas para pulido

Pilniki ceramiczne do polerowania

Barras de polimento de cerâmica

Pierres ceramiques pour finition.



Colour/Color	d	l	GR	REF
brown/marrón	3	50	220	BR17830-3x50- 220
brick red/teja			300	BR17830-3x50- 300
orange/naranja			400	BR17830-3x50- 400
black/negro			600	BR17830-3x50- 600
blue/azul			800	BR17830-3x50- 800
white/blanco			1000	BR17830-3x50-1000
red/rojo			1200	BR17830-3x50-1200

The Meister Finish®

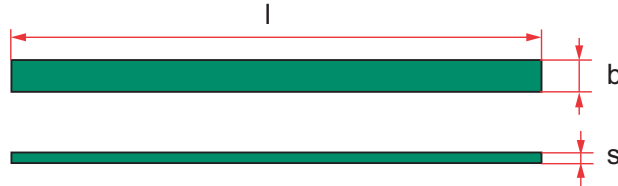
- Through the utilization of aerospace materials (alumina fiber filaments), breakage, cracking and chipping have been eliminated. High polishing efficiency can be ensured.
- No clogging. Uniformly fine finishes can be achieved.
- Thanks to the braided structure of the rod type, high polishing efficiency is possible even with the side of the tool and there is no splitting of the tip.
- Suitable for fine deburring.
- Higher polishing efficiency can be achieved by using The Meister Finish® with tools (electric, air ultrasonic).
- Coarse grit type made of thick alumina fiber filaments is ideal for re-moving EDM scales.

Meister Finish®

- Fabricadas de largas fibras cerámicas aglomeradas en resina termoendurecida.
- Poseen una resistencia superior a las piedras abrasivas normales; no se embotan, inclusive sometidas a las condiciones más rigurosas.
- Una piedra muy dura a la que se puede dar forma hasta lograr una punta sumamente fina.
- Tienen una capacidad de pulido incomparable en todo tipo de metales en las zonas de detalle, ranuras estrechas y nervios.
- Pueden ser suministradas con perfil plano y redondo y es posible su empleo en máquinas de pulido ultrasónico, alternativas mecánicas, rotativas de alta velocidad o manuales.



Finishing fiber rods
 Barritas cerámicas para pulido
 Pilniki ceramiczne do polerowania
 Barras de polimento de cerâmica
 Pierres ceramiques pour finiture.



Colour/Color	s	b	l	GR	REF.
green/verde	1	4	100	400	BR17820-1x 4 -400
grey/gris				800	BR17820-1x 4 -800
black/negro		6		200	BR17820-1x 6 -200
green/verde				400	BR17820-1x 6 -400
grey/gris		10		800	BR17820-1x 6 -800
black/negro				200	BR17820-1x10-200
green/verde				400	BR17820-1x10-400
grey/gris				800	BR17820-1x10-800

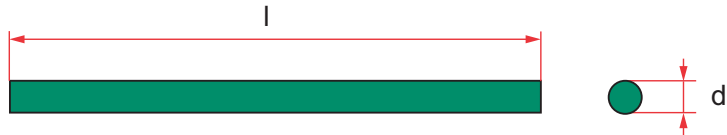
The XEBEC Diamond®

- Efficiently and cleanly polishes materials harder than HRC57 such as cemented carbide and hardened steel (SKD, DC, STAVAX, HPM, ASP, etc.).
- Both the stick and the rod types can be used to polish by the tip or the side.
- Can be formed into desired shape, such as thinner tip diamond pastes and diamond powders.
- Far more efficient than electroplated diamond file, hand lappers, diamond pastes and diamond powders.
 - While an electroplated diamond file has diamonds only on its surface, the XEBEC Diamond® has diamond embedded in layers, enabling it to used to the end without losing its sharpness.
 - Also lasts longer than an electroplated diamond file.
- Can polish efficiently wet or dry.
- Can be used even more efficiently when attached to tools (electric, air or ultrasonic).
- Rod type can be attached to rotary tools (max. 30000 R. P. M.).

XEBEC Diamond®

- Pule eficiente y limpiamente materiales más duros de 57 HRC, tales como metal duro y acero templado (SKD, CC, STAVAX, HPM, ASP, etcétera).
- Tanto el stick como las barritas redondas se pueden usar para pulir lateralmente o en punta.
- Se pueden conformar en la forma deseada.
- Apropiado para eliminar la escala de EDM, puliendo nervios y trabajando bordes y rincones.
 - Mucho más eficiente que los limatones de diamante por electrodeposición, lapeadores manuales, pasta de diamante y polvos de diamante.
 - Mientras un limatón de diamante tiene diamante solo en su superficie, el XEBEC Diamond® está compuesto de varias capas de diamante, permitiendo así su uso hasta el desgaste final sin perder su forma y dureza, por lo que su vida útil es más larga que un limatón de diamante.
- Puede ser usado en seco o en mojado.
- Puede pulir más eficazmente usándolo con máquinas (eléctricas, neumáticas o ultrasónicas).
- La barra redonda puede ser utilizada con máquinas rotativas (máximo 30000 R. P. M.).

Finishing fiber rods
 Barritas cerámicas para pulido
 Pilniki ceramiczne do polerowania
 Barras de polimento de cerâmica
 Pierres ceramiques pour finiture.



Colour/Color	d	l	GR	REF.
green/verde	3	50	400	BR17840-3x50 - 400
		100		BR17840-3x100-400

The XEBEC Diamond®

- Efficiently and cleanly polishes materials harder than HRC57 such as cemented carbide and hardened steel (SKD, DC, STAVAX, HPM, ASP, etc.).
- Both the stick and the rod types can be used to polish by the tip or the side.
- Can be formed into desired shape, such as thinner tip diamond pastes and diamond powders.
- Far more efficient than electroplated diamond file, hand lappers, diamond pastes and diamond powders.
 - While an electroplated diamond file has diamonds only on its surface, the XEBEC Diamond® has diamond embedded in layers, enabling it to be used to the end without losing its sharpness.
 - Also lasts longer than an electroplated diamond file.
- Can polish efficiently wet or dry.
- Can be used even more efficiently when attached to tools (electric, air or ultrasonic).
- Rod type can be attached to rotary tools (max. 30000 R. P. M.).

XEBEC Diamond®

- Pule eficiente y limpiamente materiales más duros de 57 HRC, tales como metal duro y acero templado (SKD, CC, STAVAX, HPM, ASP, etcétera).
- Tanto el stick como las barritas redondas se pueden usar para pulir lateralmente o en punta.
- Se pueden conformar en la forma deseada.
- Apropriado para eliminar la escala de EDM, puliendo nervios y trabajando bordes y rincones.
 - Mucho más eficiente que los limatones de diamante por electrodepositado, lapeadores manuales, pasta de diamante y polvos de diamante.
 - Mientras un limatón de diamante tiene diamante solo en su superficie, el XEBEC Diamond® está compuesto de varias capas de diamante, permitiendo así su uso hasta el desgaste final sin perder su forma y dureza, por lo que su vida útil es más larga que un limatón de diamante.
- Puede ser usado en seco o en mojado.
- Puede pulir más eficazmente usándolo con máquinas (eléctricas, neumáticas o ultrasonidos).

Electronic polishing machines



Electronic polishing machines
Maquinaria eléctrica de pulido
Elektroniczne automaty polerskie
Maquinas electricas de pulir
Machines electriques a polissage



Electronic polishing machines



Electronic polishing machines
Maquinaria eléctrica de pulido
Elektroniczne automaty polerskie
Maquinas electricas de pulir
Machines electriques a polissage



TYPE	UC503C
INPUT	AC230V 50/60Hz 30V A
OUTPUT	DC3-30V 0.3A x 2

UC503C

- Automatic feedback circuit that ensures constant revolutions under a variety of working conditions.
- The following safety features are provided.
- A fuse to safeguard against an AC short circuit or an abnormal electric current in the primary circuit.
- A thermal fuse is located in the transformer to protect against overheating.
- A thermal sensor that temporarily switches off the current in the event of overheating.
- An electronic circuit breaker that will temporarily stop the current in the event of an excessive load being applied to the handpiece.
- Dust proof system for all controls.
- Variable foot controller *Vc10 and on/off foot switch FS18 are optional.
- Quick stop circuit enables the handpiece to stop as soon as the operator removes his/her foot from the foot control or turns off the power switch.

• Circuito de retroalimentación automática asegura revoluciones constantes bajo toda la variedad de condiciones de trabajo.

• Incluye las siguientes características de seguridad:

- (1) Fusible para salvaguardar contra cortocircuitos AC o corrientes anormales en el circuito primario.
 - (2) Fusible térmico en el transformador para proteger de sobrecalentamientos.
 - (3) Sensor térmico que apaga la corriente en el posible evento de un sobrecalentamiento.
 - (4) Sensor en el circuito eléctrico que apagará temporalmente la máquina en el caso de aparición de presión excesiva.
- Sistema a prueba de polvo en todos los controles.
 - Posibilidad de incorporar sistema de control de pie variable (VC10) o sistema de pie On/Off (FS18).
 - El sistema de paro rápido permite un paro inmediato de la herramienta tan pronto el operador retire su pie del pedal.

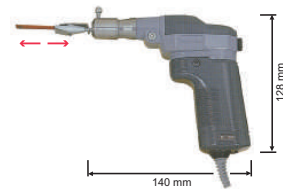
RE35

- Reciprocating stroke.
- Tool holder accepts tool shaks from 2 mm to 6,35 mm.
- The locking mechanism allows for fixed or free floating operation.
- Motor unit incorporates a self cooling fan.

- Porta herramientas válido par ejes desde 2 mm hasta 6,35 mm.
- El mecanismo de bloqueo permite trabajar en modo fijo o flotante.
- La unidad de motor incorpora ventilador.

RE35
stroke type

Reciprocating Stroke	0 - 6 mm
Frequency	420-4.200 strokes/mi n



UA14A

- The head and the motor are not interchangeable in UA series but the rotating centering accuracy increases to the maximum.
- Well designed pencil to use easily with a good balance which ensures comfortable working.
- Motor unit incorporates a self cooling fan.

- Cabezal motor Monoblock; con lo que la precisión se incrementa al máximo.
- Diseño ergonómico.
- La unidad de motor incluye ventilador.

UA14A

Speed	4.500 - 45.000 RPM
Max torque	420 g * cm (41N * cm)
Mounted collet	∅ 2.34 mm (KP-036B)
Enclosed colle	∅ 3.0mm (KP-032B)



Electronic polishing machines



Electronic polishing machines
 Maquinaria eléctrica de pulido
 Elektroniczne automaty polerskie
 Maquinas electricas de pulir
 Machines electriques a polissage

Cabezales UM

- Various heads are interchangeable with Motor "UM" series for wider applications.
- Stable rotation from low to high speed enables to apply to all sorts of working.
- You are not tired with working because noise and vibration are controlled as low as possible.
- Two typical models are provided for your choice according to speed and torque.

- Sistema de cabezales intercambiables con motor de la serie "UM".
- Rotación estable desde velocidades bajas a altas, permite ser un sistema idóneo para todo tipo de trabajos.
- Sonido y vibración controlados al máximo permiten facilidad en el manejo.
- Dos modelos de motor disponibles para su elección de acuerdo a la velocidad y par de fuerza requeridos.

UM21

- The most suitable for general polishing because of powerful motor.
- Más adecuado para pulido general dado su potente motor.



Speed: 1.500 - 15.000 R. P. M.
 Max. Torque: 900 g x m (8,8 N x m)

UM23

- The most suitable for grinding because of speed type motor.
- Más adecuado para rectificado dada su velocidad de motor.



Speed: 3.000 - 30.000 R. P. M.
 Max. Torque: 650 g x m (6,5 N x m)

UT01

- Standard type head for the major applications.
- Cabezal estándar para las principales aplicaciones.



UT02

- The top part is tapering slender to be gripped.
- Extremo fino.



UT03

- Suitable not only for heavy duty but for all sorts of working.
- Apropiado no solo para trabajos pesados, sino de todo tipo.



UT11

- Head with end tapered as narrow as possible. Most suitable for working in slot and groove.
- Extremo fino, ideal para trabajar en ranuras.



UT07

- Heavy duty angle head with 120 deg.
- Cabeza angular para trabajo pesado a 120°.



TYPE	COLLET (mm)	
	MOUNTED	INCLUDED
UT01,UT02	Ø 2.34 (Item No. KP-038B)	Ø 3.0 (Item No. KP-032B)
UT03	Ø 6.0 (Item No. KP-080)	Ø 3.0 (Item No. KP-062)
UT11	Ø 3.0 (Item No. KP-032B)	Ø 2.34 (Item No. KP-036B)

TYPE	COLLET (mm)	
	MOUNTED	INCLUDED
UT07	Ø3 (Item No. KP-022)	Ø2.34 (Item No. KP-021)

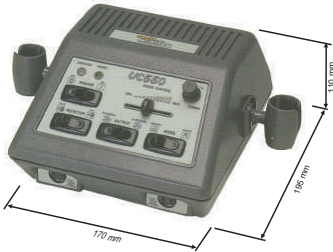
Ultrasonic handpiece and hybrid controller



Ultrasonic handpiece and hybrid controller
 Limadora ultrasonido y controlador híbrido
 Głowica ultradźwiękowa i sterownik hybrydowy
 Maquina de ultrasom para polimento
 Poignee a ultrasons et controleur hybride

UC550C

- Allows simultaneous use of ultrasonic handpiece and grinding motors.
 - Automatic feed system is incorporated to adjust the frequency depending on the tool being used.
 - Four stages safety circuit are built in to preclude the probability of over-heating or over-loading in both controller and handpiece.
 - Motor rotation can be reversed at a touch.
 - Quick stop circuit system enables the handpiece to stop as soon as the operator removes his/her foot from the pedal or turns off the power switch.
- Permite el uso no simultáneo de ultrasonidos amoladora eléctrica.
 - Incorpora sistema de alimentación automático para ajustar la frecuencia a la herramienta utilizada.
 - Circuito de seguridad de cuatro etapas para prevenir la posibilidad de sobrecalentamiento o sobretensión en el controlador y la herramienta.
 - El giro del motor se puede cambiar de sentido desde un botón.
 - El sistema de paro rápido permite a la herramienta parar tan pronto como el operador retire su pie del pedal o apague el controlador.



UC550C	
INPUT	AC 230 V 50/60 Hz 30 VA
OUTPUT	Controller: AC 6-60V 22.3 KHz 0.3 A Handpiece: DC 3 - 30 V 0.3 A

US55

- A compact sized and light weighted handpiece ergonomically designed to enhance the operational efficiency, not causing fatigue even after working long time.
 - Applications include the finishing of plastic moulds, diecasts, presstools, ceramic, non ferrous and precious metals. Ideal for deburring, polishing and removing EDM scales.
 - The tip tool vibrates back and forth within an amplitude of maximum 45 micron, to lap groves a, ribs and hard to reach by hand spots.
 - An unique tracing sensor for ultrasonics is incorporated to catch up at instance the resonant point with all sorts of the tools.
 - Available with hybrid controller UC550C only.
- Diseño ergonómico, compacto y ligero, pensado para aumentar la eficiencia operacional y evitar la fatiga incluso después de trabajo prolongado.
 - Las aplicaciones incluyen el acabado de moldes de plástico, fundición, punzones, cerámica, metales no férricos, metales preciosos. Ideal para desbaste, pulidos o eliminación del grano de electroerosión.
 - La punta de la herramienta vibra atrás y adelante con una amplitud máxima de 45 micras.
 - Incorpora un exclusivo sensor para ultrasonidos para percibir instantáneamente el punto de resonancia con cualquier tipo de herramienta.
 - Disponible solamente con el control UC550C.



US55	
TRANSDUCER	Langevin Type
AMPLITUDE	45 μ

Spare elements for electronic machines



Spare elements for electronic machines

Accesorios para máquinas electrónicas

Akcesoria do mikronapędów

Accesorios para maquinas electronicas

Pieces detachées pour machines électroniques



VC10

Variable foot controller
Controlador variable de pie
Pedal z regulacją obrotów
Controlador dez pé variável



FS18

ON/OFF foot switch
Interruptor ON/OFF de pie
Pedal ON/OFF
Botão ON/OFF de pé



KE50-113

Extension curl cord (1,5 meters)
Cable de conexión (1,5 metros)
Kabel spiralny (1,5 metra)
Cabo de conexão (1,5 metros)

Not available for US55



KE50-114/115

Extension straight cord
Cable de conexión
Kabel przedłużający
Cabo de conexão

*KE50-114: 3 metros
**KE50-115: 5 metros



KP90-101

Handpiece stand
Soporte de motor
Podstawka
Suporte de motor



PA31-748

Handpiece holder (0°, -45°, -90°)
Soporte de motor (0°, -45°, -90°)
Uchwyt (0°, -45°, -90°)
Suporte de motor (0°, -45°, -90°)

Pneumatic tools

Pneumatic tools
 Amoladoras neumáticas
 Szlifierki pneumatyczne
 Retificadora manual
 Meuleuses pneumatiques

Weight	R. P. M.	Lt/min.	Conection	Lenght tool	Diam. Tool	Collet	REF.
190	75.000	0.16	Rc 1/4	170	18.5	3	GT-MG75S
180	55.000			163	17.5		GT-MG55S
220				180	20.0		GT-M55SR
260				178	24.5		GT-MG55SAR
435	35.000	0.285		182	29.5	6	GT-MG35SAR
305		0.25		183	24.5	3	GT-MG35-12CC



GT-MG75S



GT-MG55S



GT-MG55SAR



GT-MG35SAR



GT-MG35-12CC



Set ByR 25000/6



Set ByR 56000/3

	Collet	R. P. M.	Length tool	Weight	Lt./min.
Set ByR 25000/6	3 / 6	25000	147	0,36	0,40
Set ByR 56000/3	3	56000	150	0,21	0,16

Cutting and grinding device
 Máquina de cortar y rectificar expulsores
 Urządzenie do cięcia i szlifowania wypychaczy
 Máquina de cortar extractores
 Machine pour couper et rectifier ejecteurs

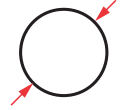


Cut off precision (mm)	Right angle precision (mm)	Cut off sander lamina (mm)	Grinding sander	R. P. M.	Motor (HP)	Capacity (mm)	REF.
Ø25 x 300 ± 0.01	Ø25 x 90° ± 0.01	Ø180 x 1 (Int.31.8)	100 x 50 x 20	3600	3/4	500	BRVEC-500

- Cutting and grinding device for ejectors pins, columns, guides, etc.
- Long. max. 500 mm.
- Long. min. 50 (measures below to 50 mm, optional).
- Quick chuck from 1 mm to 25 mm.
- 380 V.

- Corte y rectificado de expulsores, columnas, guías, etc.
- Largo máx. 500 mm.
- Largo mín. 50 (acc. opcional para corte inferior a 50 mm).
- Amarre de pieza de 1 mm a 25 mm.
- 380 V.

Tolerances Shafts / Tolerancias ejes

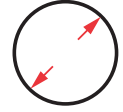


Tolerancias ISO para Ejes ISO Tolerances for Shafts (ISO 286-2)

Tolerancias ISO para Ejes ISO Tolerances for Shafts (ISO 286-2)

Diámetro nominal ejes (mm)		Ø		Nominal Shafts Sizes (mm)						
Sup. Over	3	6	10	18	30	40	50	65	80	100
inc.	6	10	18	30	40	50	65	80	100	120
micrometres μ										
a12	-270	-280	-290	-300	-310	-320	-340	-360	-380	-410
	-390	-430	-470	-510	-560	-570	-640	-660	-730	-760
d6	-30	-40	-50	-65	-80	-100	-120			
	-38	-49	-61	-78	-96	-119	-142			
e6	-20	-25	-32	-40	-50	-60	-72			
	-28	-34	-43	-53	-66	-79	-94			
e13	-20	-25	-32	-40	-50	-60	-72			
	-200	-245	-302	-370	-440	-520	-612			
f5	-10	-13	-16	-20	-25	-30	-36			
	-15	-19	-24	-29	-36	-43	-51			
f6	-10	-13	-16	-20	-25	-30	-36			
	-18	-22	-27	-33	-41	-49	-58			
f7	-10	-13	-16	-20	-25	-30	-36			
	-22	-28	-34	-41	-50	-60	-71			
g5	-4	-5	-6	-7	-9	-10	-12			
	-9	-11	-14	-16	-20	-23	-27			
g6	-4	-5	-6	-7	-9	-10	-12			
	-12	-14	-17	-20	-25	-29	-34			
g7	-4	-5	-6	-7	-9	-10	-12			
	-16	-20	-24	-28	-34	-40	-47			
h4	-0	-0	-0	-0	-0	-0	-0			
	-4	-4	-5	-6	-7	-8	-10			
h5	-0	-0	-0	-0	-0	-0	-0			
	-5	-6	-8	-9	-11	-13	-15			
h6	-0	-0	-0	-0	-0	-0	-0			
	-8	-9	-11	-13	-16	-19	-22			
h7	-0	-0	-0	-0	-0	-0	-0			
	-12	-15	-18	-21	-25	-30	-35			
h8	-0	-0	-0	-0	-0	-0	-0			
	-18	-22	-27	-33	-39	-46	-54			
h9	-0	-0	-0	-0	-0	-0	-0			
	-30	-36	-43	-52	-62	-74	-87			
h10	-0	-0	-0	-0	-0	-0	-0			
	-48	-58	-70	-84	-100	-120	-140			
micrometres μ										
h11	-0	-0	-0	-0	-0	-0	-0			
	-75	-90	-110	-130	-160	-190	-220			
h12	-0	-0	-0	-0	-0	-0	-0			
	-120	-150	-180	-210	-250	-300	-350			
j5	+3	+4	+5	+5	+6	+6	+6			
	-2	-2	-3	-4	-5	-7	-9			
j6	+6	+7	+8	+9	+11	+12	+13			
	-2	-2	-3	-4	-5	-7	-9			
j7	+8	+10	+12	+13	+15	+18	+20			
	-4	-5	-6	-8	-10	-12	-15			
js5	+2,5	+3	+4	+4,5	+5,5	+6,5	+7,5			
	-2,5	-3	-4	-4,5	-5,5	-6,5	-7,5			
js6	+4	+4,5	+5,5	+6,5	+8	+9,5	+11			
	-4	-4,5	-5,5	-6,5	-8	-9,5	-11			
js7	+6	+7,5	+9	+10,5	+12,5	+15	+17,5			
	-6	-7,5	-9	-10,5	-12,5	-15	-17,5			
k5	+6	+7	+9	+11	+13	+15	+18			
	+1	+1	+1	+2	+2	+2	+3			
k6	+9	+10	+12	+15	+18	+21	+25			
	+1	+1	+1	+2	+2	+2	+3			
k7	+13	+16	+19	+23	+27	+32	+38			
	+1	+1	+1	+2	+2	+2	+3			
m5	+9	+12	+15	+17	+20	+24	+28			
	+4	+6	+7	+8	+9	+11	+13			
m6	+12	+15	+18	+21	+25	+30	+35			
	+4	+6	+7	+8	+9	+11	+13			
m7	+16	+21	+25	+29	+34	+41	+48			
	+4	+6	+7	+8	+9	+11	+13			
n5	+13	+16	+20	+24	+28	+33	+38			
	+8	+10	+12	+15	+17	+20	+23			
n6	+16	+19	+23	+28	+33	+39	+45			
	+8	+10	+12	+15	+17	+20	+23			
n7	+20	+25	+30	+36	+42	+50	+58			
	+8	+10	+12	+15	+17	+20	+23			

Tolerances Holes / Tolerancias agujeros



Tolerancias ISO para Agujeros ISO Tolerances for Holes (ISO 286-2)

	Diámetro int. nominal (mm)				Ø	Nominal holes Sizes (mm)			
Sup. Over	3	6	10	18	30 40	50 65	80 100		
inc.	6	10	18	30	40 50	65 80	100 120		
	micrometres µ								
E6	+28	+34	+43	+53	+66	+79	+94		
	+20	+25	+32	+40	+50	+60	+72		
E7	+32	+40	+50	+61	+75	+90	+107		
	+20	+25	+32	+40	+50	+60	+72		
E11	+95	+115	+142	+170	+210	+250	+292		
	+20	+25	+32	+40	+50	+60	+72		
E12	+140	+175	+212	+250	+300	+360	+422		
	+20	+25	+32	+40	+50	+60	+72		
E13	+200	+245	+302	+370	+440	+520	+612		
	+20	+25	+32	+40	+50	+60	+72		
F6	+18	+22	+27	+33	+41	+49	+58		
	+10	+13	+16	+20	+2	+30	+36		
F7	+22	+28	+34	+41	+50	+60	+71		
	+10	+13	+16	+20	+25	+30	+36		
F8	+28	+35	+43	+53	+64	+76	+90		
	+10	+13	+16	+20	+25	+30	+36		
G6	+12	+14	+17	+20	+25	+29	+34		
	+4	+5	+6	+7	+9	+10	+12		
G7	+16	+20	+24	+28	+34	+40	+47		
	+4	+5	+6	+7	+9	+10	+12		
G8	+22	+27	+33	+40	+48	+56	+66		
	+4	+5	+6	+7	+9	+10	+12		
H6	+8	+9	+11	+13	+16	+19	+22		
	0	0	0	0	0	0	0		
H7	+12	+15	+18	+21	+25	+30	+35		
	0	0	0	0	0	0	0		
H8	+18	+22	+27	+33	+39	+46	+54		
	0	0	0	0	0	0	0		
H9	+30	+36	+43	+52	+62	+74	+87		
	0	0	0	0	0	0	0		

Tolerancias ISO para Agujeros ISO Tolerances for Holes (ISO 286-2)

	Diámetro int. nominal (mm)				Ø	Nominal holes Sizes (mm)			
Sup. Over	3	6	10	18	30 40	50 65	80 100		
inc.	6	10	18	30	40 50	65 80	100 120		
	micrometres µ								
H10	+48	+58	+70	+84	+100	+120	+140		
	0	0	0	0	0	0	0		
H11	+75	+90	+110	+130	+160	+190	+220		
	0	0	0	0	0	0	0		
J6	+5	+5	+6	+8	+10	+13	+16		
	-3	-4	-5	-5	-6	-6	-6		
J7	+6	+8	+10	+12	+14	+18	+22		
	-6	-7	-8	-9	-11	-12	-13		
J8	+10	+12	+15	+20	+24	+28	+34		
	-8	-10	-12	-13	-15	-18	-20		
JS6	+4	+4,5	+5,5	+6,5	+8	+9,5	+11		
	-4	-4,5	-5,5	-6,5	-8	-9,5	-11		
JS7	+6	+7,5	+9	+10,5	+12,5	+15	+17,5		
	-6	-7,5	-9	-10,5	-12,5	-15	-17,5		
JS8	+9	+11	+13,5	+16,5	+19,5	+23	+27		
	-9	-11	-13,5	-16,5	-19,5	-23	-27		
K6	+2	+2	+2	+2	+3	+4	+4		
	-6	-7	-9	-11	-13	-15	-18		
K7	+3	+5	+6	+6	+7	+9	+10		
	-9	-10	-12	-15	-18	-21	-25		
K8	+5	+6	+8	+10	+12	+14	+16		
	-13	-16	-19	-23	-27	-32	-38		
M6	-1	-3	-4	-4	-4	-5	-6		
	-9	-12	-15	-17	-20	-24	-28		
M7	0	0	0	0	0	0	0		
	-12	-15	-18	-21	-25	-30	-35		
M8	+2	+1	+2	+4	+5	+5	+6		
	-16	-21	-25	-29	-34	-41	-48		
N6	-5	-7	-9	-11	-12	-14	-16		
	-13	-16	-20	-24	-28	-33	-38		

Bru y Rubio



Bru y Rubio solutions

Bru y Rubio offers for sale a wide range of high quality components and services for injection moulds such as mould bases, Standard Elements, Plain Plates, Hot Runners and all the necessary accessories for injection moulds.

Established in 1962 this company specialises in customised service with the aim to assist our customers in improving their competitiveness in a global market.

We are currently present in Europe, South-Africa and South America. Our more than 50 years experience and more than 10.000 customers vouch for our quality service.



Soluciones Bru y Rubio

Bru y Rubio comercializa una completa gama de componentes para moldes de inyección como Portamoldes, Elementos Normalizados, Placas Ciegas, Cámara Caliente y todos los accesorios necesarios para moldes de inyección, con unos altos estándares de calidad y servicio.

Fundada en 1962, esta empresa se centra en el servicio personalizado con el objetivo de atender y mejorar la competitividad de nuestros clientes, en un entorno globalizado.

Presente actualmente en Europa, Sudáfrica y Sudamérica, nuestros más de 50 años de experiencia y empresa nuestros más de 10.000 clientes avalan la calidad de nuestro servicio.

With over 50,000 products available in stock our customer's service has achieved excellence and we have a 24 hours delivery service throughout Europe.

Bru y Rubio is not just about us; our customers are an essential part of our organization and their feedback is taken into account in the day-to-day running and decision-making process at Bru y Rubio.

Our aim is to offer the best value for money currently on offer throughout the world.

Con más de 50.000 productos en stock, nuestro nivel de servicio ha adquirido rango de excelencia, pudiendo llegar a entregar en 24 horas en toda Europa.

Bru y Rubio no solo consiste en su equipo humano, nuestros clientes forman una parte muy importante de nuestra organización y son parte fundamental de cada una de las decisiones que día a día se toman en la empresa.

Nuestro objetivo es ofrecer la mejor relación calidad-precio del mercado a nivel mundial.



Machining services

Bru y Rubio now offers special machining according to the customers specifications

With a capacity for plates of up to 1600x1000 mm and 3000 kg, we can offer pockets and machining of high precision with a quality finish. We also offer a gun drilling service for waterways. All of these services are very competitively priced with quick delivery times. We also offer a laser marking service for plates and ancillaries to cover the customer needs.

Isolation plate machining service now available.

To see our plant list and the type of machining services we offer, please visit us at **“Mechanized under Drawing”** on the homepage of our website: www.en.bruyrubio.com. For more information, contact us at sales@bruyrubio.co.uk.

Servicios y mecanizado

Bru y Rubio mecaniza portamoldes y portamatrices acorde al diseño del cliente

Con una capacidad para placas de hasta 1600x1000 mm y 3000 Kg, podemos realizar cajas y taladros de alta precisión y excelentes acabados. Los taladros profundos para refrigeración también son parte de nuestra gama de mecanizados. Además disponemos de una máquina para realizar marcados a láser de placas y piezas especiales.

Ahora también ponemos a su disposición el mecanizado de placa aislante.

En base a su diseño 3D, nuestro equipo técnico de mecanizado realizará un mecanizado de excelencia en lo que se refiere a tolerancias y acabados.

Si desea realizar una consulta acerca de las máquinas de las que disponemos y de las operaciones que realizamos, puede dirigirse al apartado **“Mecanizado bajo Plano”** en nuestra web: www.bruyrubio.com. Para más información, contacte con nosotros en info@bruyrubio.com.



Bru y Rubio

Bru y Rubio focuses on:

- 1 • Optimising our customer's satisfaction levels.
- 2 • Improving our products, on a regular basis, both in terms of quality and range on offer.
- 3 • Reliable and short delivery deadlines.
- 4 • Comprehensive technical support.
- 5 • To continuously expand our range of products.

Bru y Rubio está totalmente dirigido a:

- 1 • Optimizar la satisfacción de nuestros clientes.
- 2 • Mejorar continuamente nuestros productos tanto en calidad como en rango disponible.
- 3 • Plazos de entrega fiables y cada vez mas reducidos.
- 4 • Soporte técnico completo.
- 5 • Incrementar continuamente nuestra gama de productos.



Digital channel. Webshop

With the aim of facilitating the configuration processes of mold bases and standard accessories, we have developed and continue to work on the continuous improvement of our digital sales channel and virtual store. Our goal is to provide our customers with a tool that streamlines mold configuration and product purchasing, quickly, intuitively, and efficiently, thus ensuring a great customer experience.

With Bru y Rubio, the future of molds is in your hands.

Canal digital. Webshop

Con el propósito de simplificar los procesos de configuración de portamoldes y accesorios estándar, hemos desarrollado y continuamos trabajando en la mejora constante de nuestro canal de venta digital y tienda virtual. Nuestro objetivo es proporcionar a nuestros clientes una herramienta que facilite la configuración de moldes y la compra de productos relacionados, de manera rápida, intuitiva y eficiente, brindando así una excelente experiencia al cliente.

Con Bru y Rubio, el futuro de los moldes está en tus manos.

Por favor seleccione la medida y una combinación para el molde

Ancho del molde: 196

Largo del molde: 196

Medida del molde
196 X 196

Seleccione una combinación para el

M1 M2 M3 M4 M5 M6 M7

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Discover the innovative range of **RUNNERTECH** hot runner systems, distributed by Bru y Rubio. Immerse yourself in a world of possibilities where each solution is designed to meet the unique demands of various markets, from caps to medical parts, thin-wall packaging, automotive, electronics, and much more.

Our extensive nozzle lineup offers a wide variety of options, from injecting ultralight parts of 0.5 g. to multiple-cavity systems with up to 64 points. With sequential valve-gated systems and the innovative pre-assembled RPS System, as well as the comprehensive MB System (Half Hot), we are poised to offer customized solutions that exceed your expectations.

Discover how we can take your projects to the next level with cutting-edge technology and an unwavering commitment to excellence. With Bru y Rubio, the future of plastic injection is in your hands.



Descubre la innovadora gama **RUNNERTECH** de cámaras calientes distribuida por Bru y Rubio. Sumérgete en un mundo de posibilidades donde cada solución está diseñada para satisfacer las demandas únicas de diversos mercados, desde tapones hasta piezas médicas, envases de pared delgada, automoción, electrónica y mucho más.

Nuestra extensa línea de boquillas ofrece una amplia variedad de opciones, desde la inyección de piezas ultraligeras de 0,5 g hasta sistemas de múltiples cavidades con hasta 64 puntos. Con sistemas valvulados secuenciales y el innovador RPS System preensamblado, así como el completo sistema MB System (Half Hot), estamos preparados para ofrecerle soluciones personalizadas que superen sus expectativas.

Descubre cómo podemos llevar tus proyectos al siguiente nivel con tecnología de vanguardia y un compromiso inquebrantable con la excelencia. Con Bru y Rubio, el futuro de la inyección de plástico está en tus manos.



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