

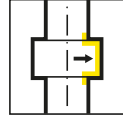
106



**Portaherramientas
y Plaquita**

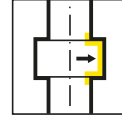
**Porta pastilhas
e Pastilha**

Portaherramientas
Porta pastilhas
B106

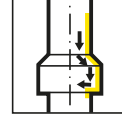


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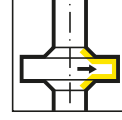
Plaquita
Pastilha
106



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193

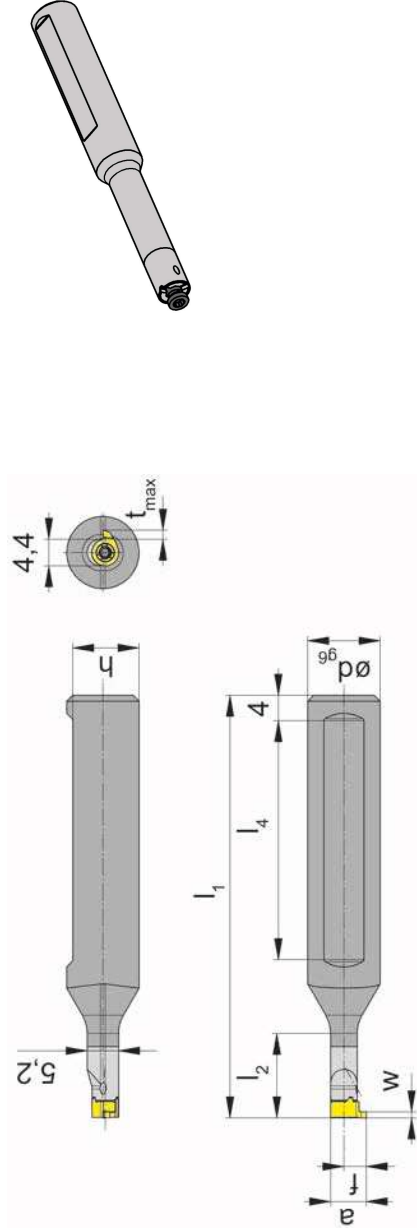
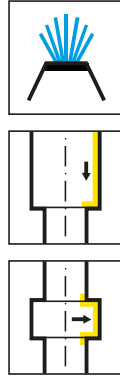


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195

Ø de agujero Ø de furo	Linea de producto / Linha de produto											
	105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•				
≥ 10,5								•				
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										[•]		
≥ 18,0												•
Profundidad de ranura Profundidade de ranhura	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado												
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•		•		•	•	
Roscado Rosqueamento	•	•			•	•		•		•	•	
Achaflanado Chanfrado	•	•			•	•		•		•	•	
Ranurado frontal Ranhurado frontal	•	•	•							•		
Torneado duro Torneamento duro	•											



R = versión a derecha
R = versão à direita

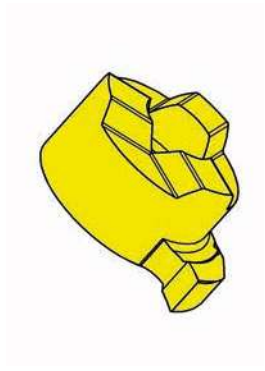
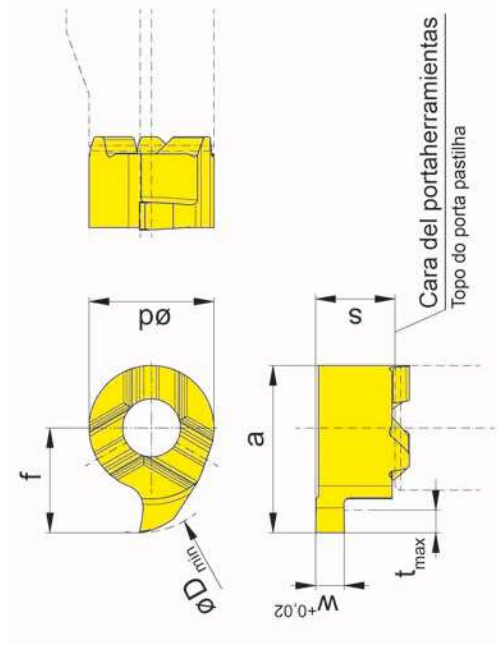
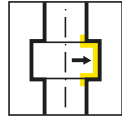
L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	HWS
RB106.0012.01	12	70	14	11	40	304044R
RB106.0012.02	12	80	20	11	40	304044R
RB106.0012.03	12	90	26	11	45	304044R
LB106.0012.01	12	70	14	11	40	304044L
LB106.0012.02	12	80	20	11	40	304044L
LB106.0012.03	12	90	26	11	45	304044L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{max}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LB106...	1.8.4T6EP	T6PL



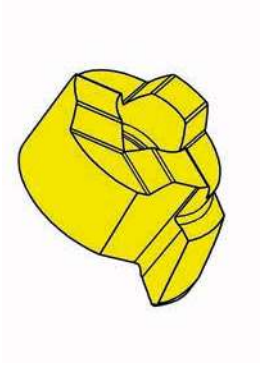
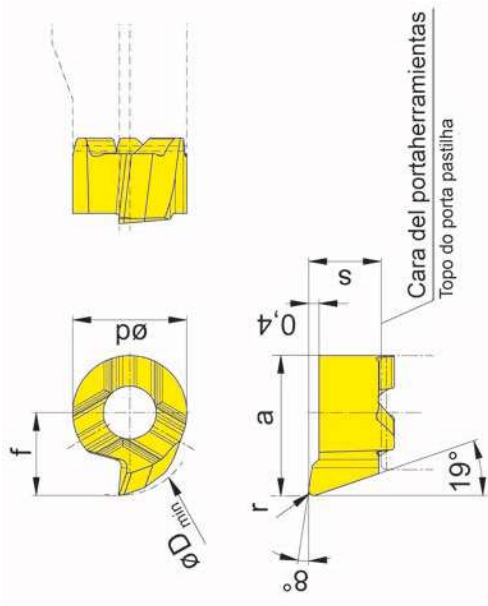
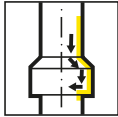
D

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	d	t _{max}	D _{min}	HIS	EG55	TH35
R106.0070.2.00	0,74	2,8	3,7	5,9	4,4	0,8	6,5	304044R	▲	▲
R106.0100.2.00	1	2,8	3,7	5,9	4,4	0,8	6,5	304044R	Δ	▲
R106.0150.2.00	1,5	2,8	3,7	5,9	4,4	0,8	6,5	304044R	Δ	▲
L106.0070.2.00	0,74	2,8	3,7	5,9	4,4	0,8	6,5	304044L	Δ	Δ
L106.0100.2.00	1	2,8	3,7	5,9	4,4	0,8	6,5	304044L	Δ	Δ
L106.0150.2.00	1,5	2,8	3,7	5,9	4,4	0,8	6,5	304044L	Δ	Δ
									P	●
									M	●
									K	●
									N	●
									S	●
									H	-

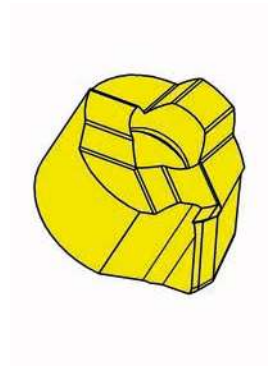
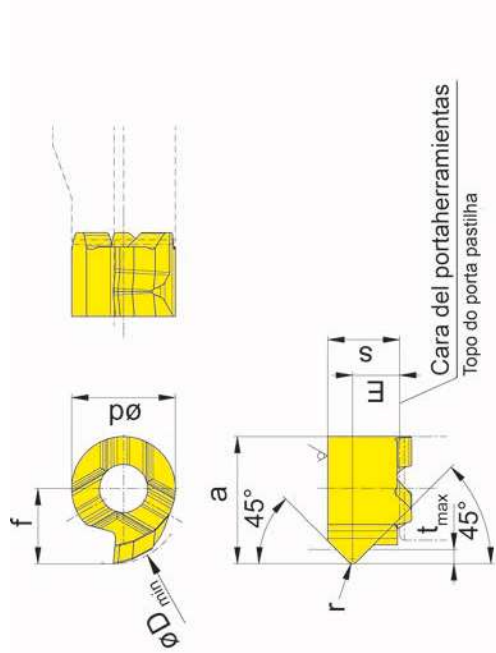
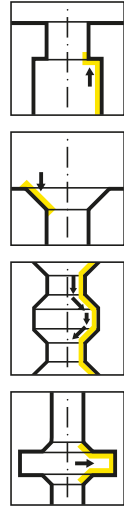


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG55	TH35
R106.1831.1.005	2,8	3,2	5,4	0,05	4,4	6	304044R	▲	▲
R106.1831.1.02	2,8	3,2	5,4	0,2	4,4	6	304044R	▲	▲
R106.1831.1.04	2,8	3,2	5,4	0,4	4,4	6	304044R	▲	▲
L106.1831.1.005	2,8	3,2	5,4	0,05	4,4	6	304044L	Δ	Δ
L106.1831.1.02	2,8	3,2	5,4	0,2	4,4	6	304044L	Δ	Δ
L106.1831.1.04	2,8	3,2	5,4	0,4	4,4	6	304044L	Δ	Δ
								P	●
								M	●
								K	●
								N	●
								S	●
								H	-

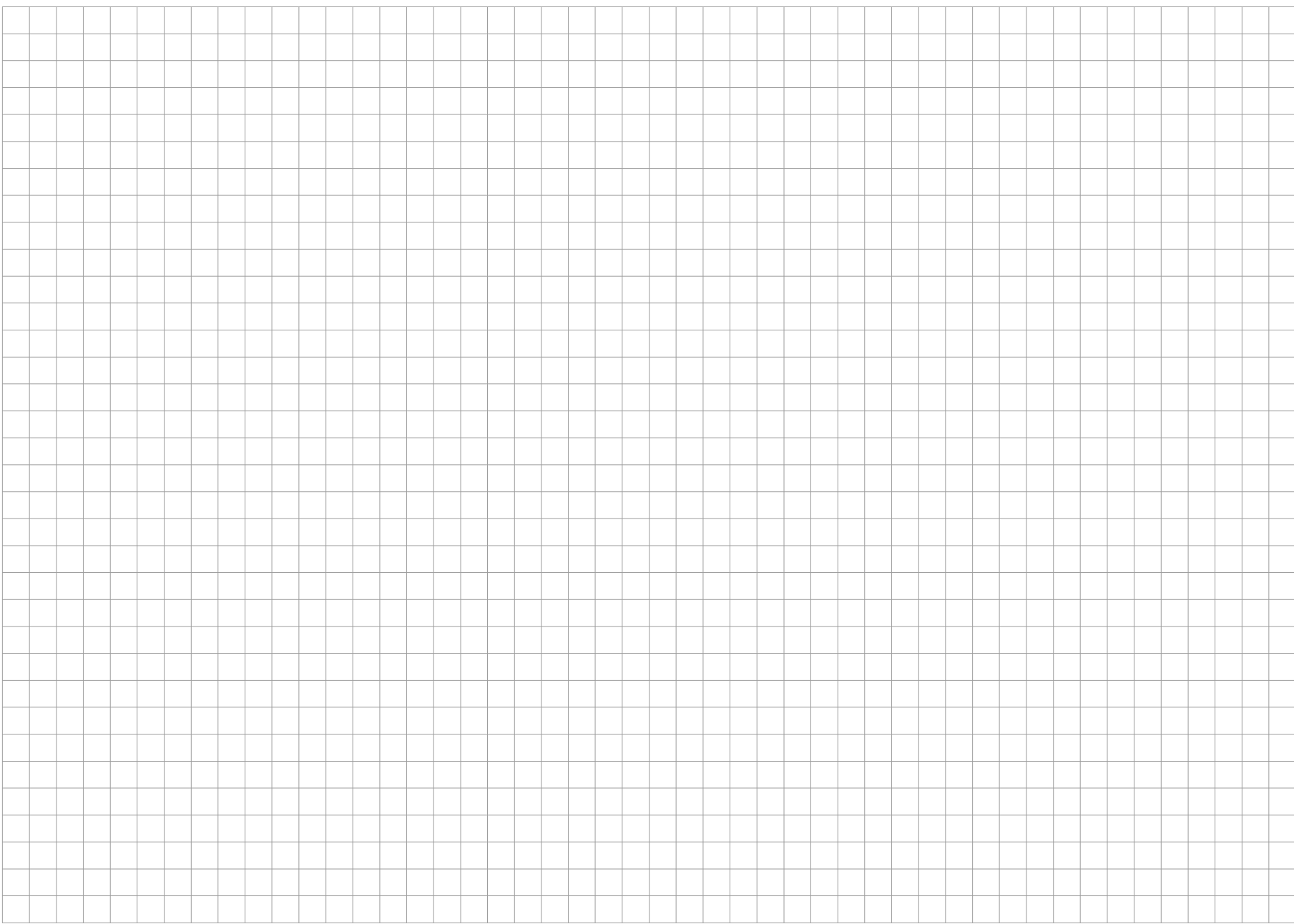


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	E	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
R106.4545.1.02	2	3,05	3,2	5,4	0,2	4,4	0,6	6	304044R	▲	▲
L106.4545.1.02	2	3,05	3,2	5,4	0,2	4,4	0,6	6	304044L	Δ	Δ
									P	●	●
									M	○	●
									K	○	●
									N	-	●
									S	-	●
									H	-	-



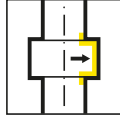
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**Portaherramientas
y Plaquita**

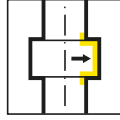
**Porta pastilhas
e Pastilha**

Portaherramientas
Porta pastilhas
B107

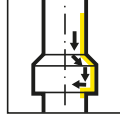


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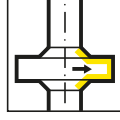
Plaquita
Pastilha
107



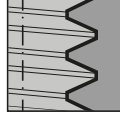
Pág./Pág.
201-202



Pág./Pág.
203

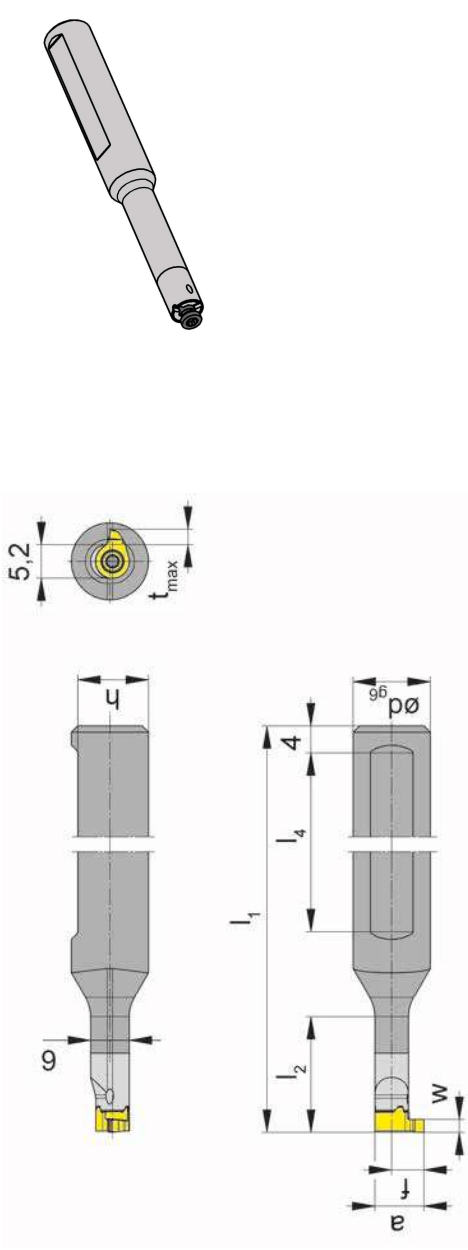
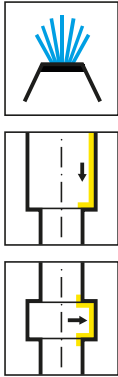


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Ø de agujero Ø de furo		Linea de producto / Linha de produto											
		105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2		•											
≥ 0,5		•											
≥ 0,7		•											
≥ 1,0		•											
≥ 1,5		•											
≥ 2,0		•											
≥ 3,0		•											
≥ 4,0		•											
≥ 5,0		•											
≥ 6,0		•	•	•	•								
≥ 6,8			•	•	•								
≥ 7,0			•		•								
≥ 7,8				•		•							
≥ 8,0				•		•							
≥ 9,0				•		•	•						
≥ 10,0				•			•	•	•				
≥ 10,5									•				
≥ 11,0								•	•				
≥ 11,5									•				
≥ 13,8										•			
≥ 14,0										•	•		
≥ 16,0											•		
≥ 16,5										[•]			
≥ 18,0													•
Profundidad de ranura Profundidade de ranhura		2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura		0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado													
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•	•	•		•	•	•	
Roscado Rosqueamento	•	•			•	•	•	•		•	•	•	
Achaflanado Chanfrado	•	•			•	•	•	•		•	•	•	
Ranurado frontal Ranhurado frontal	•	•	•	•							•		
Torneado duro Torneamento duro	•												



R = versión a derecha
R = versão à direita

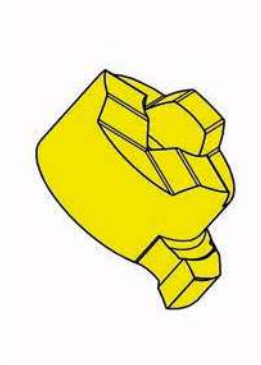
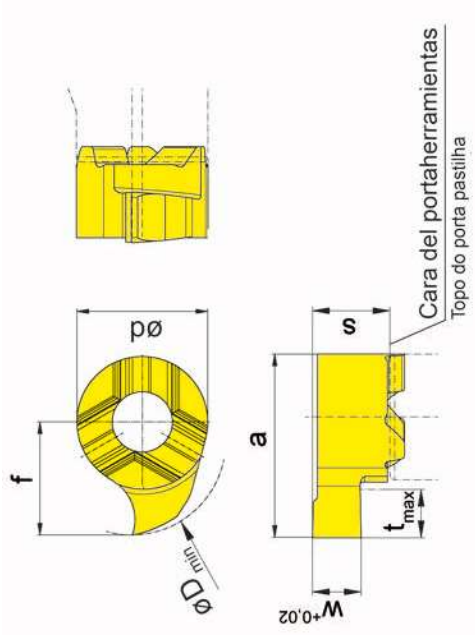
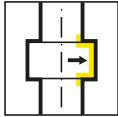
L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	HWS
RB107.0012.01	12	80	18	11	45	107052R
RB107.0012.02	12	90	26	11	45	107052R
RB107.0012.03	12	100	36	11	45	107052R
LB107.0012.01	12	80	18	11	45	107052L
LB107.0012.02	12	90	26	11	45	107052L
LB107.0012.03	12	100	36	11	45	107052L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{max}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LB107...	2.2.5T7EP	T7PL



E

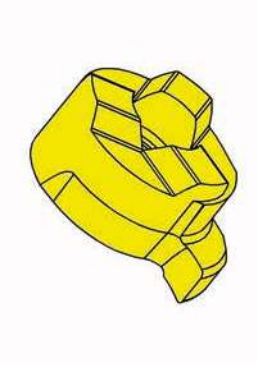
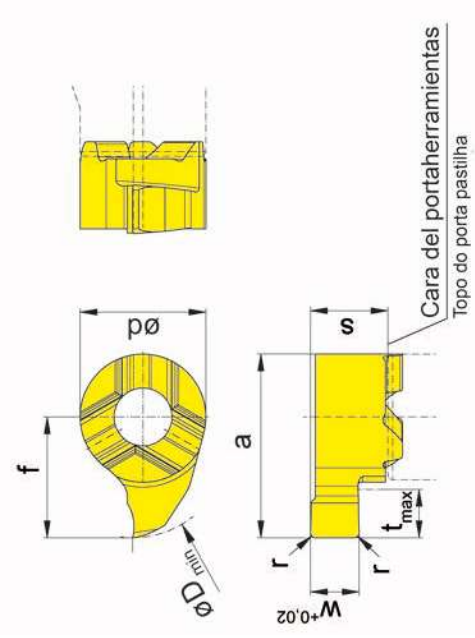
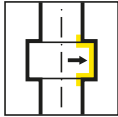
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	d	t _{max}	D _{min}	HIS		EG55	TH35
R107.0100.1.00	1	3,3	4	6,6	5,2	1	7	107052R		▲	▲
R107.0150.1.00	1,5	3,3	4	6,6	5,2	1	7	107052R		▲	▲
L107.0100.1.00	1	3,3	4	6,6	5,2	1	7	107052L		Δ	Δ
L107.0150.1.00	1,5	3,3	4	6,6	5,2	1	7	107052L		Δ	Δ
									P	●	●
									M	○	●
									K	○	●
									N	-	●
									S	-	●
									H	-	-



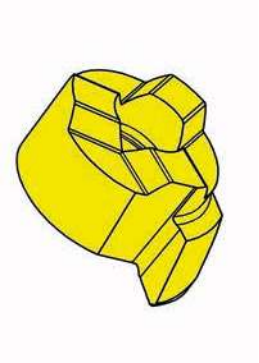
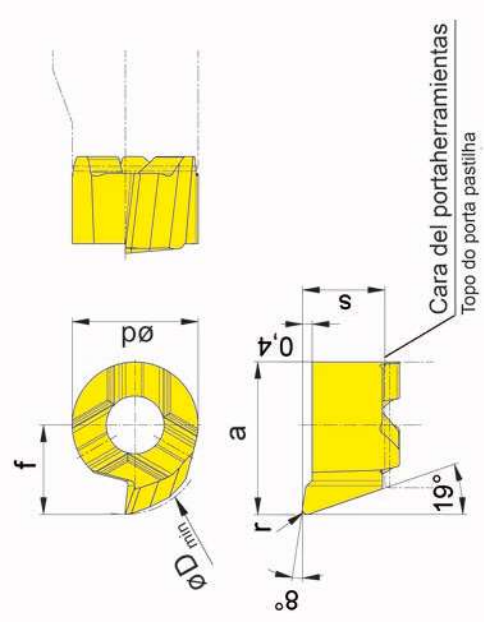
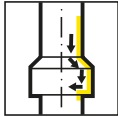
E

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
R107.0100.2.00	1	3,3	5	7,6	-	5,2	2	8	107052R	▲	▲
R107.0150.2.01	1,5	3,3	5	7,6	0,1	5,2	2	8	107052R	▲	▲
R107.0200.2.02	2	3,3	5	7,6	0,2	5,2	2	8	107052R	▲	▲
L107.0100.2.00	1	3,3	5	7,6	-	5,2	2	8	107052L	Δ	Δ
L107.0150.2.01	1,5	3,3	5	7,6	0,1	5,2	2	8	107052L	Δ	Δ
L107.0200.2.02	2	3,3	5	7,6	0,2	5,2	2	8	107052L	Δ	Δ
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

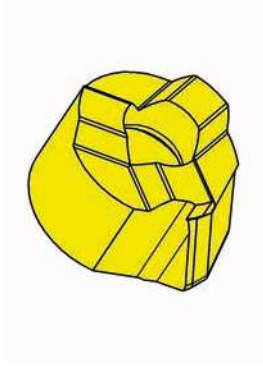
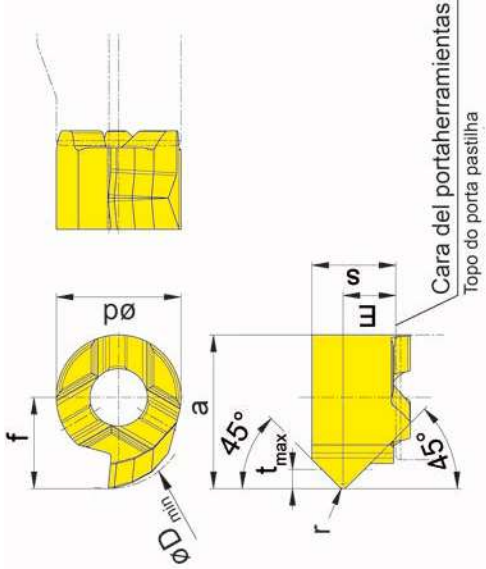
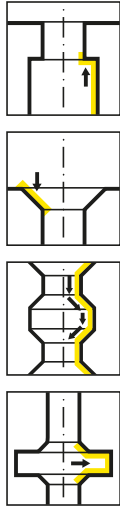
▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

E

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG55	TH35
R107.1837.02	3,3	3,7	6,3	0,2	5,2	6,8	107052R	▲	▲
R107.1837.04	3,3	3,7	6,3	0,4	5,2	6,8	107052R	▲	▲
L107.1837.02	3,3	3,7	6,3	0,2	5,2	6,8	107052L	▲	▲
L107.1837.04	3,3	3,7	6,3	0,4	5,2	6,8	107052L	▲	▲
								P	●
								M	●
								K	●
								N	●
								S	●
								H	-



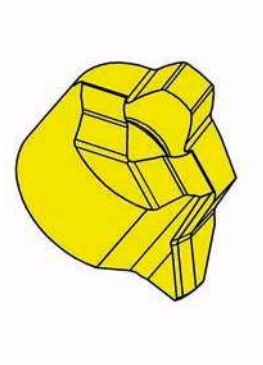
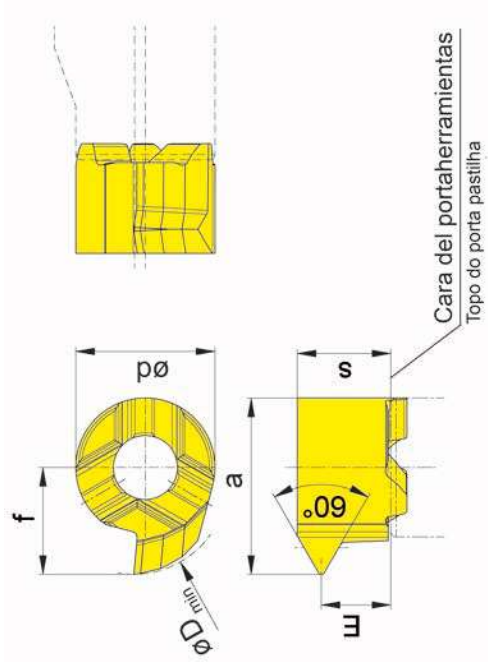
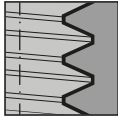
E

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	E	s	f	a	r	d	t _{max}	D _{min}	HIS		EG55	TH35
R107.4545.1.02	2,2	3,5	3,8	6,4	0,2	5,2	0,8	6,8	107052R		▲	▲
L107.4545.1.02	2,2	3,5	3,8	6,4	0,2	5,2	0,8	6,8	107052L		Δ	Δ
										P	●	●
										M	○	●
										K	○	●
										N	-	●
										S	-	●
										H	-	-



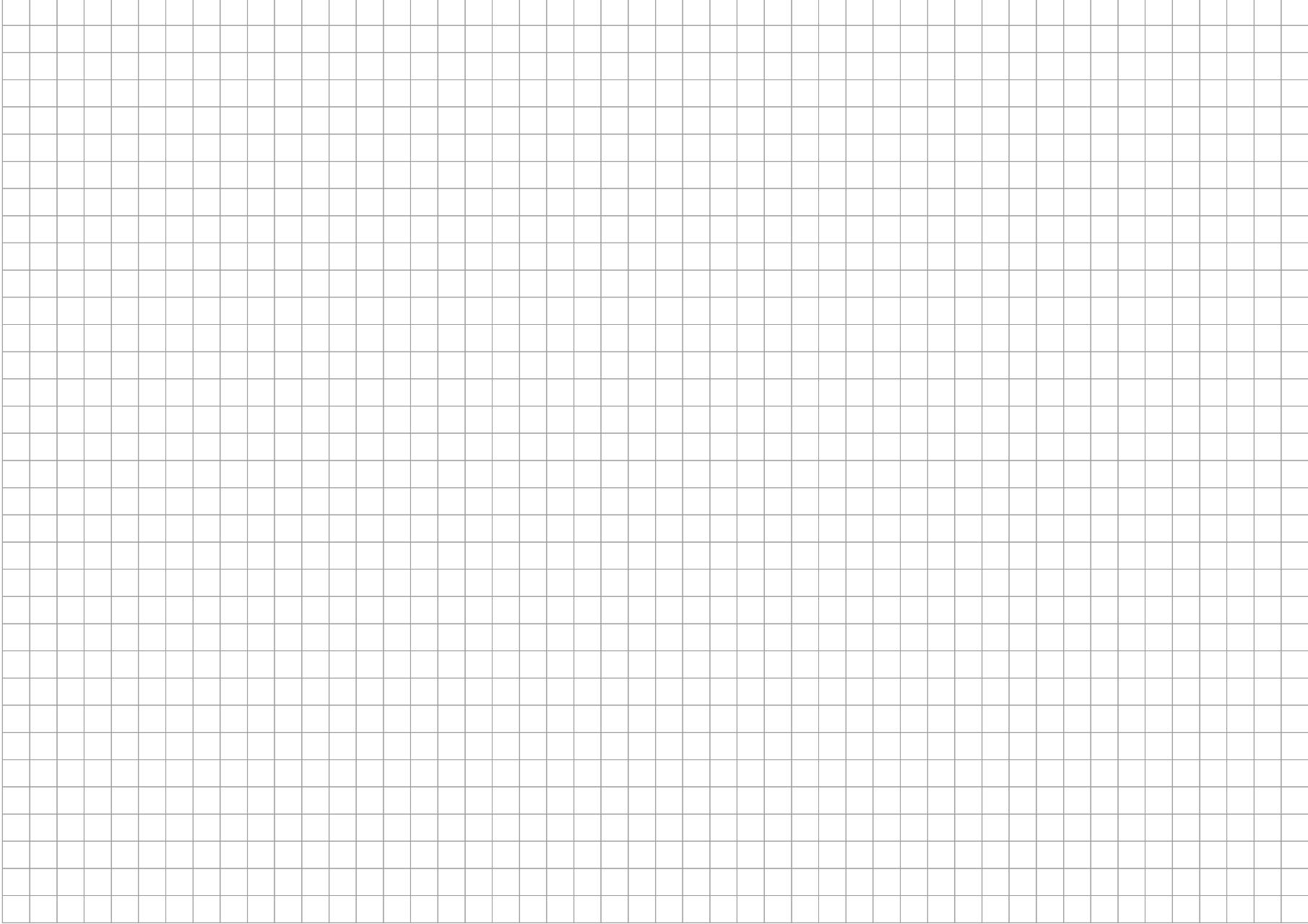
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro

▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	P	P _{max}	E	f	a	d	s	D _{min}	HIS	EG55	TH35
R107.0205.1.01	0,5	0,75	3	4	6,6	5,2	3,5	7	107052R	Δ	▲
R107.0510.1.01	1	1,25	2,8	4	6,6	5,2	3,5	7	107052R	▲	▲
R107.0815.1.01	1,5	1,75	2,6	4	6,6	5,2	3,5	7	107052R	▲	▲
L107.0205.1.01	0,5	0,75	3	4	6,6	5,2	3,5	7	107052L	Δ	Δ
L107.0510.1.01	1	1,25	2,8	4	6,6	5,2	3,5	7	107052L	Δ	▲
L107.0815.1.01	1,5	1,75	2,6	4	6,6	5,2	3,5	7	107052L	Δ	Δ
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-



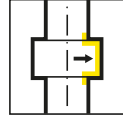
108



**Portaherramientas
y Plaquita**

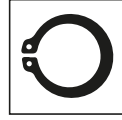
**Porta pastilhas
e Pastilha**

Portaherramientas
Porta pastilhas
B108

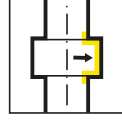


Pág./Pág.
210

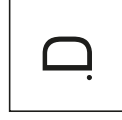
Plaquita
Pastilha
108/S108



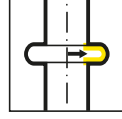
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211-212



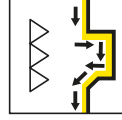
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Pág./Pág.
214



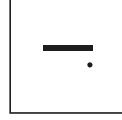
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215



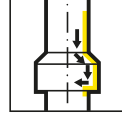
Pág./Pág.
216



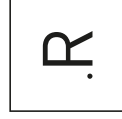
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217



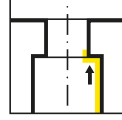
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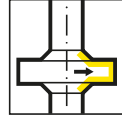
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219, 222



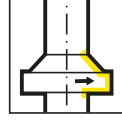
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220



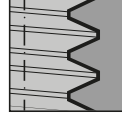
Pág./Pág.
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223



Pág./Pág.
224



Pág./Pág.
225-229

Ø de agujero Ø de furo		Linea de producto / Linha de produto											
		105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2		•											
≥ 0,5		•											
≥ 0,7		•											
≥ 1,0		•											
≥ 1,5		•											
≥ 2,0		•											
≥ 3,0		•											
≥ 4,0		•											
≥ 5,0		•											
≥ 6,0		•	•	•	•								
≥ 6,8			•	•	•								
≥ 7,0			•		•								
≥ 7,8				•	•	•							
≥ 8,0				•	•	•							
≥ 9,0				•	•	•	•						
≥ 10,0				•			•	•	•				
≥ 10,5									•				
≥ 11,0									•				
≥ 11,5									•				
≥ 13,8										•			
≥ 14,0										•	•		
≥ 16,0											•		
≥ 16,5										{•}			
≥ 18,0													•
Profundidad de ranura Profundidade de ranhura		2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura		0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado													
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•	•			•	•	•	
Roscado Rosqueamento	•	•			•	•	•				•	•	
Achaflanado Chanfrado	•	•			•	•	•				•	•	
Ranurado frontal Ranhurado frontal	•	•		•							•		
Torneado duro Torneamento duro	•												

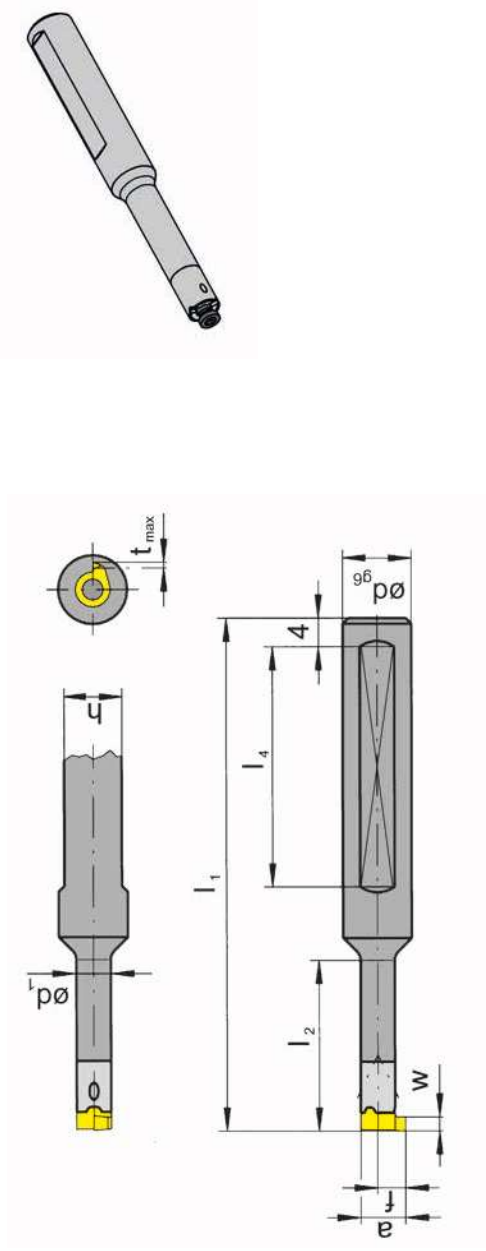
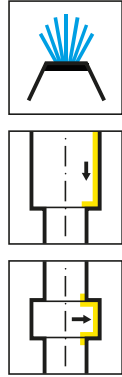


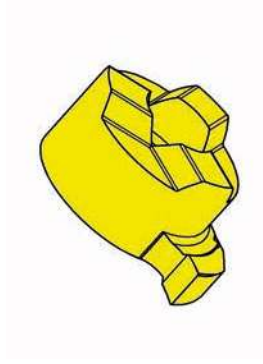
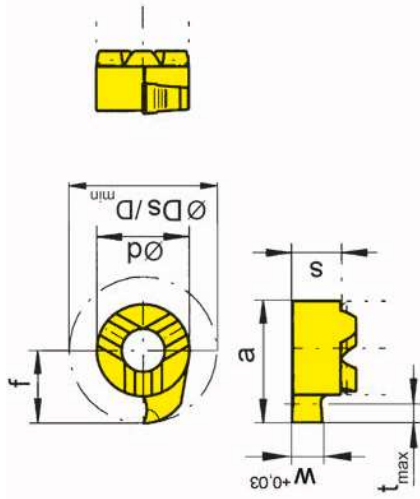
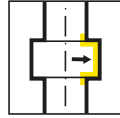
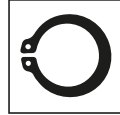
Foto = versión corte a derecha
Foto = versão do corte a direita

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	d ₁	HWS
B108.0006.01A	6	65	-	-	-	-	306060R • 306060L
B108.0008.00	8	60	12,5	7	35	6	306060R • 306060L
B108.0008.01	8	70	21	7	40	6	306060R • 306060L
B108.0012.00	12	70	12,5	11	40	6	306060R • 306060L
B108.0012.01	12	80	21	11	45	6	306060R • 306060L
B108.0012.02	12	90	30	11	45	6	306060R • 306060L
B108.0012.03	12	100	42	11	45	6	306060R • 306060L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{máx}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
B108...	2.6.5T8EP	T8PL



F

R = versión a derecha
R = versão à direita

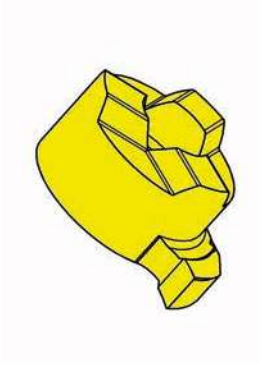
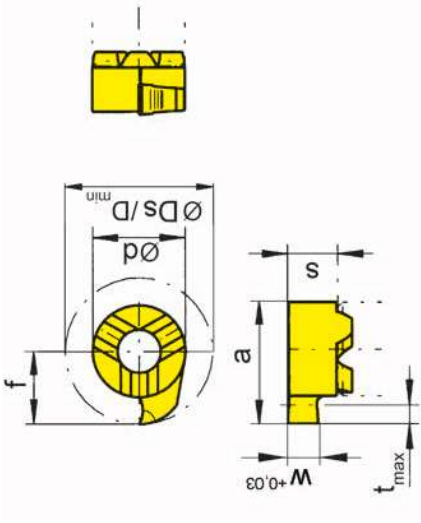
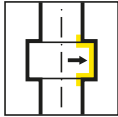
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	Nw	s	f	Ds	a	d	t _{max}	D _{min}	Z	HIS						
R108.0110.00	1,19	1,1	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	▲	▲	▲	▲	TN35
R108.0160.00	1,69	1,6	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	▲	▲	▲	▲	TH35
R108.0130.00	1,39	1,3	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	▲	▲	▲	▲	EG55
L108.0110.00	1,19	1,1	3,2	4,8	9,6	7,8	6	1	8	1	306060L	▲	▲	▲	▲	▲	MG12
L108.0160.00	1,69	1,6	3,2	4,8	9,6	7,8	6	1	8	1	306060L	▲	▲	▲	▲	▲	
L108.0130.00	1,39	1,3	3,2	4,8	9,6	7,8	6	1	8	1	306060L	▲	▲	▲	▲	▲	
												P	O	•	•	•	
												M	-	•	•	•	
												K	-	•	•	•	
												N	-	•	•	•	
												S	-	•	•	•	
												H	-	•	•	•	



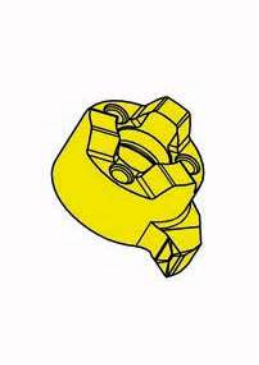
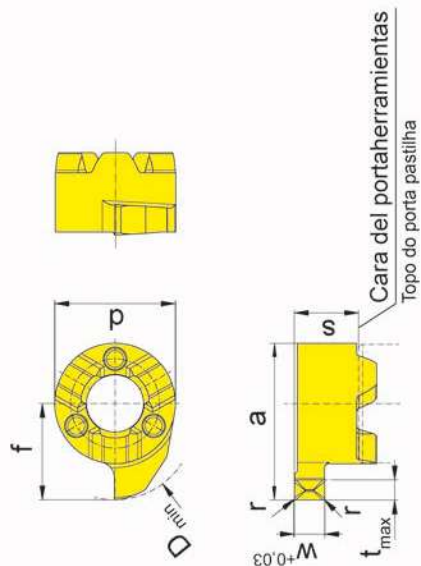
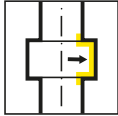
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	Ds	a	d	t _{max}	D _{min}	Z	HIS						
R108.0150.00	1,5	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	●	●	●	●	●
R108.0200.00	2	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	▲	▲	▲	▲	▲
L108.0150.00	1,5	3,2	4,8	9,6	7,8	6	1	8	1	306060L	▲	▲	▲	▲	▲	▲
L108.0200.00	2	3,2	4,8	9,6	7,8	6	1	8	1	306060L	▲	▲	▲	▲	▲	▲
											P	O	-	-	-	-
											M	-	O	●	●	●
											K	-	O	●	●	●
											N	-	-	●	●	●
											S	-	-	●	●	●
											H	-	-	-	-	-
											MG12	▲	▲	▲	▲	▲
											EG55	▲	▲	▲	▲	▲
											TH35	▲	▲	▲	▲	▲
											TN35	▲	▲	▲	▲	▲



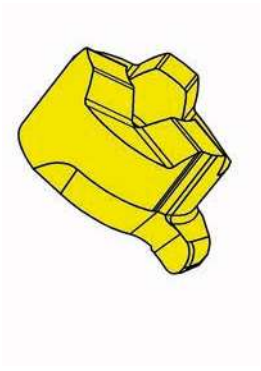
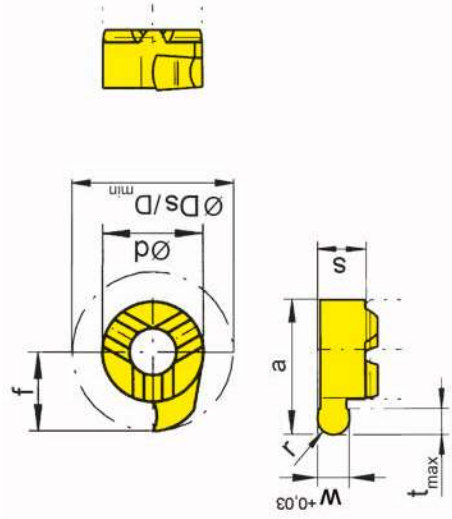
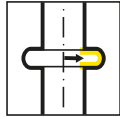
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock Δ 4 semanas
en stock 4 semanas

F

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS108.0100.D1	1	3,2	4,8	7,8	0,1	6	1	8	306060R	▲	▲
RS108.0150.D1	1,5	3,2	4,8	7,8	0,1	6	1	8	306060R	▲	▲
RS108.0200.D2	2	3,2	4,8	7,8	0,2	6	1	8	306060R	▲	▲
LS108.0100.D1	1	3,2	4,8	7,8	0,1	6	1	8	306060L	Δ	Δ
LS108.0150.D1	1,5	3,2	4,8	7,8	0,1	6	1	8	306060L	Δ	Δ
LS108.0200.D2	2	3,2	4,8	7,8	0,2	6	1	8	306060L	Δ	Δ
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-



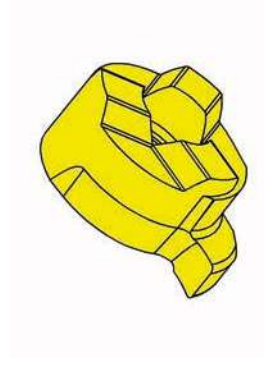
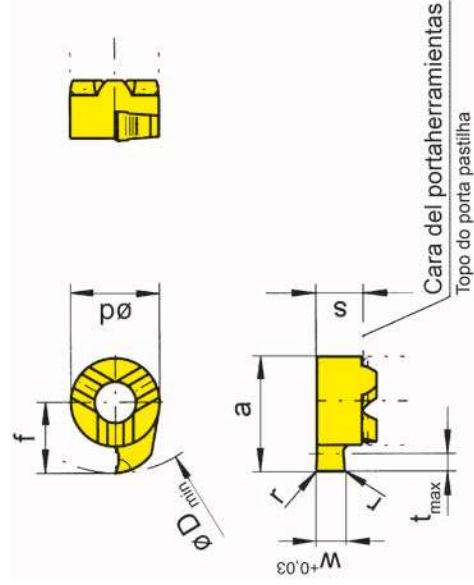
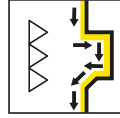
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	Ds	a	r	d	t _{max}	D _{min}	Z	HIS	MG12	EG55	TH35	TI25	TN35
R108.0004.08	0,8	3,2	4,8	9,6	7,8	0,4	6	1	8	1	306060R	▲	▲	▲	▲	▲
R108.0006.12	1,2	3,2	4,8	9,6	7,8	0,6	6	1	8	1	306060R	▲	▲	▲	▲	▲
R108.0009.18	1,8	3,2	4,8	9,6	7,8	0,9	6	1	8	1	306060R	▲	▲	▲	▲	▲
L108.0004.08	0,8	3,2	4,8	9,6	7,8	0,4	6	1	8	1	306060L	Δ	▲	▲	▲	▲
L108.0006.12	1,2	3,2	4,8	9,6	7,8	0,6	6	1	8	1	306060L	▲	▲	▲	Δ	▲
L108.0009.18	1,8	3,2	4,8	9,6	7,8	0,9	6	1	8	1	306060L	Δ	▲	▲	Δ	▲
												P	O	●	●	●
												M	O	●	●	●
												K	O	●	●	●
												N	-	●	●	●
												S	-	●	●	●
												H	-	-	-	-

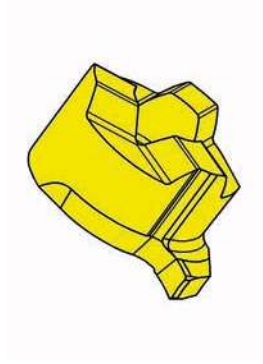
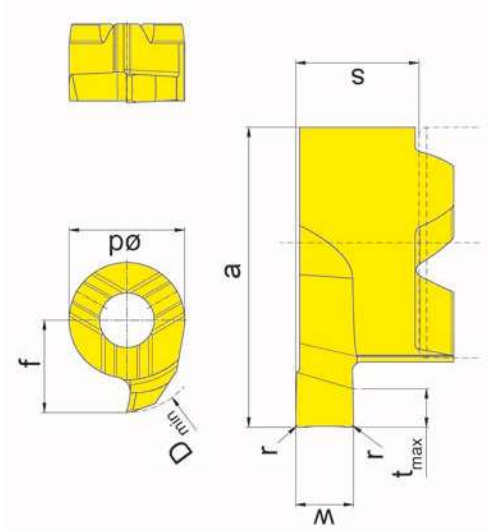
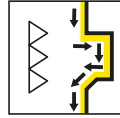


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

Referencia	w	s	f	a	r	d	t _{max}	D _{min}	HIS		MG12	E655	TH35	TJ25	TN35
Número de encomenda															
R108.0150.02	1,5	3,2	4,8	7,8	0,2	6	1	8	306060R	P	O	B	B	B	A
L108.0150.02	1,5	3,2	4,8	7,8	0,2	6	1	8	306060L	M	-	O	B	Y	A
										K	-	O	B	B	A
										N	-	-	B	B	A
										S	-	-	B	B	A
										H	-	-	B	B	A



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

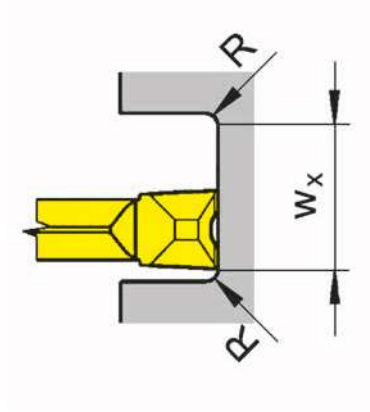
Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	
R108.FB10.01	1	3,2	4,8	7,8	0,1	6	1	8	306060R	▲
R108.FB15.01	1,5	3,2	4,8	7,8	0,1	6	1	8	306060R	▲
L108.FB10.01	1	3,2	4,8	7,8	0,1	6	1	8	306060L	▲
L108.FB15.01	1,5	3,2	4,8	7,8	0,1	6	1	8	306060L	▲
										P ●
										M ●
										K ○
										N -
										S -
										H -
										EG35

Cálculo del ancho de ranura w_x más pequeño posible
Cálculo da menor largura possível da ranhura w_x

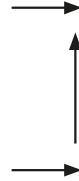
Ejemplo R108.FB10.01
Exemplo

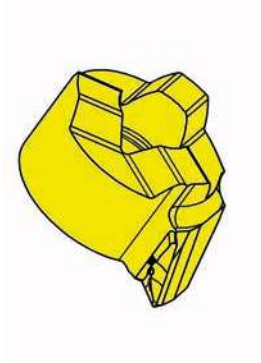
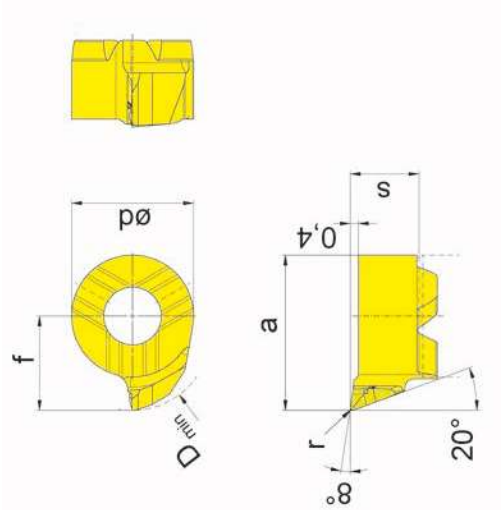
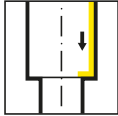
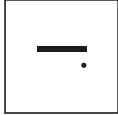
$w_x = 2 \times$ Ancho de plaquita $w - 2 \times$ Plaquita de radio de esquina r
 $2 \times$ Largura da pastilha $w - 2 \times$ Raio do canto r da pastilha

$w_x = 2 \times 1 \text{ mm} - 2 \times 0,1 \text{ mm}$
 $w_x = 1,8 \text{ mm}$



Flujo del proceso
Fluxo de processamento





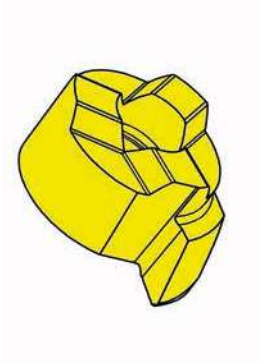
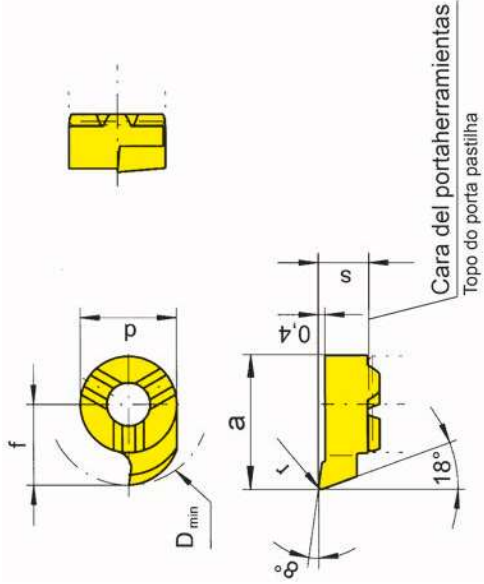
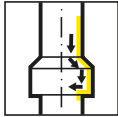
R = versão a direita
R = versão à direita

▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG35	EG55	IG35
RS108.0820.105	3,37	4,65	7,65	0,05	6	7,8	306060R	▲	●	Δ
RS108.0820.110	3,38	4,65	7,65	0,1	6	7,8	306060R	▲	●	▲
RS108.0820.120	3,4	4,65	7,65	0,2	6	7,8	306060R	▲	●	▲
							P	●	●	-
							M	●	○	●
							K	○	○	-
							N	-	-	-
							S	-	-	●
							H	-	-	-



R = versión a derecha
R = versão à direita

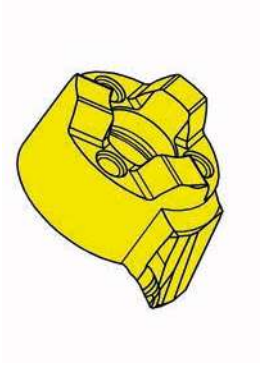
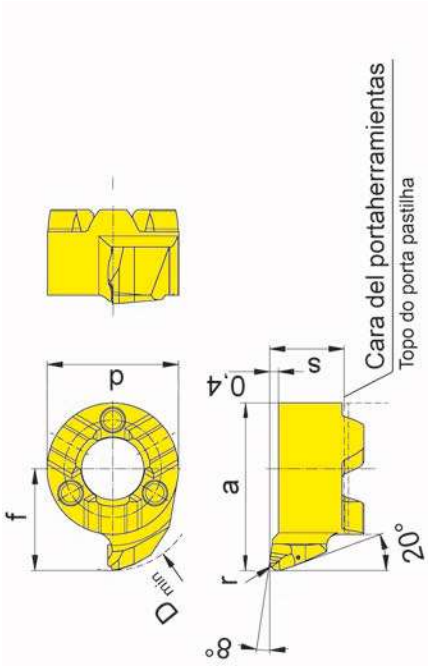
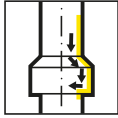
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS									
R108.1846.02	3,4	4,65	7,65	0,2	6	7,8	306060R	▲	▲	●	●	●	●	●	●	●
L108.1846.02	3,4	4,65	7,65	0,2	6	7,8	306060L	▲	▲	●	○	●	○	●	●	●
								P	●	●	●	●	●	●	●	●
								M	●	○	●	●	●	●	●	●
								K	●	○	●	●	●	●	●	●
								N	●	●	●	●	●	●	●	●
								S	●	●	●	●	●	●	●	●
								H	●	●	●	●	●	●	●	●
									▲	▲	▲	▲	▲	▲	▲	▲
									▲	▲	▲	▲	▲	▲	▲	▲
									MG12	●	○	●	●	●	●	●
									EG55	▲	▲	▲	▲	▲	▲	▲
									TF45	▲	▲	▲	▲	▲	▲	▲
									TH35	▲	▲	▲	▲	▲	▲	▲
									T125	▲	▲	▲	▲	▲	▲	▲
									TN35	▲	▲	▲	▲	▲	▲	▲



F

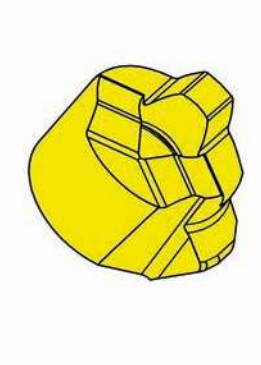
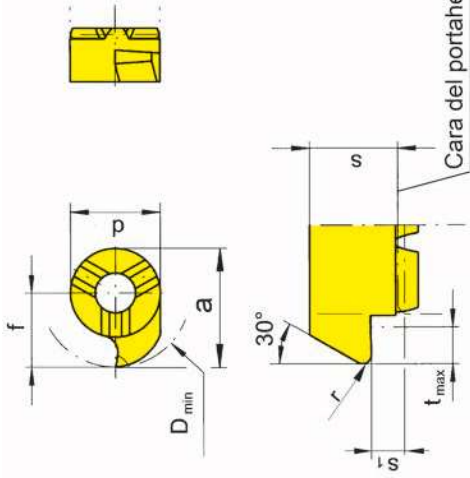
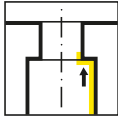
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS		EG55	TH35
RS108.1846.R2	3,4	4,65	7,65	0,2	6	7,8	306060R	P	▲	▲
RS108.1846.R4	3,4	4,65	7,65	0,4	6	7,8	306060R	M	▲	▲
LS108.1846.R2	3,4	4,65	7,65	0,2	6	7,8	306060L	K	▲	▲
LS108.1846.R4	3,4	4,65	7,65	0,4	6	7,8	306060L	N	▲	▲
								S	-	-
								H	-	-



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

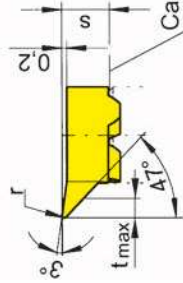
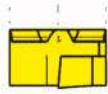
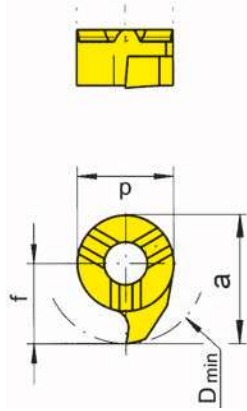
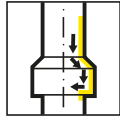
Cara del portaherramientas
Topo do porta pastilha

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	s ₁	d	t _{max}	D _{min}	HIS		P	M	K	N	S	H
R108.3046.02	3,6	4,65	7,65	0,2	0,8	6	1,3	7,8	306060R	▲	▲	●	●	●	●	●
L108.3046.02	3,6	4,65	7,65	0,2	0,8	6	1,3	7,8	306060L	Δ	Δ	●	●	●	●	●
EG55										▲	Δ	●	○	-	-	-
TH35										▲	Δ	●	●	●	●	-
TN35										▲	▲	●	●	●	●	-



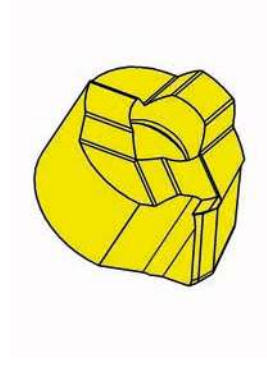
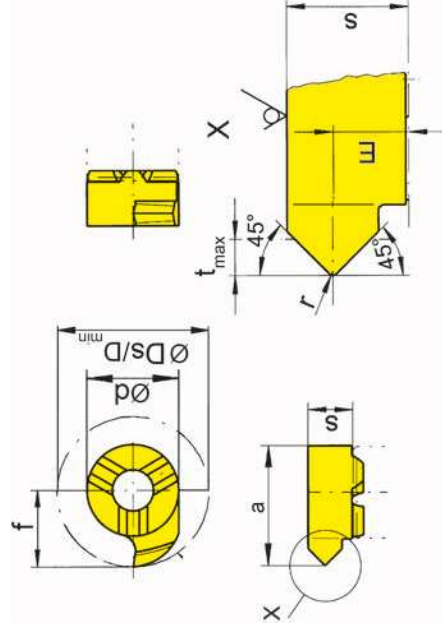
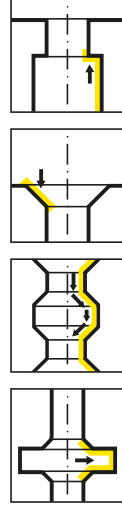
Cara del portaherramientas
Topo do porta pastilha

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H	MG12	EG55	TH35	TN35
R108.4748.01	3,2	4,65	7,65	0,1	6	1,2	7,8	306060R	●	●	●	●	●	●	▲	▲	▲	▲
R108.4748.02	3,2	4,65	7,65	0,2	6	1,2	7,8	306060R	●	●	●	●	●	●	▲	▲	▲	▲
R108.4748.04	3,2	4,65	7,65	0,4	6	1,2	7,8	306060R	●	●	●	●	●	●	▲	▲	▲	▲
L108.4748.01	3,2	4,65	7,65	0,1	6	1,2	7,8	306060L	●	●	●	●	●	●	▲	▲	▲	▲
L108.4748.02	3,2	4,65	7,65	0,2	6	1,2	7,8	306060L	●	●	●	●	●	●	▲	▲	▲	▲
L108.4748.04	3,2	4,65	7,65	0,4	6	1,2	7,8	306060L	●	●	●	●	●	●	▲	▲	▲	▲



R = versión a derecha
R = versão à direita

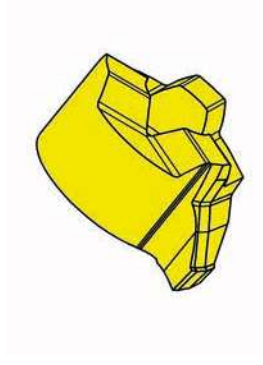
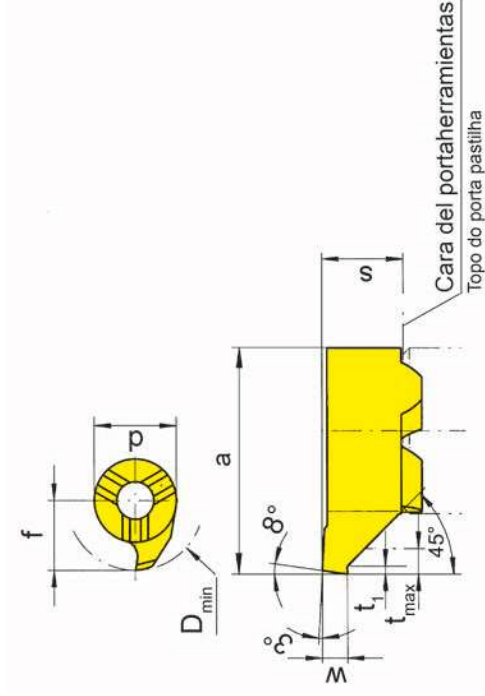
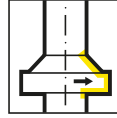
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

$\Delta 4$ semanas
4 semanas

Grados de carburo	
Graus de metal duro	
k	Δ 4 semanas
k	4 semanas

[illegible]

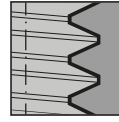


R = versión a derecha
R = versão à direita

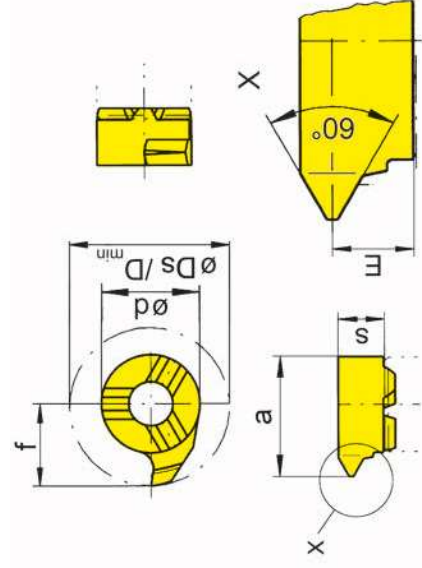
L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

[illegible]



09



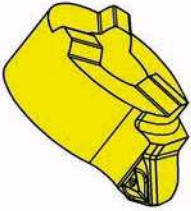
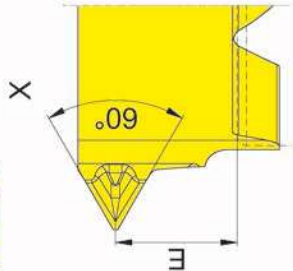
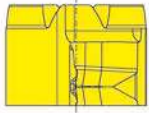
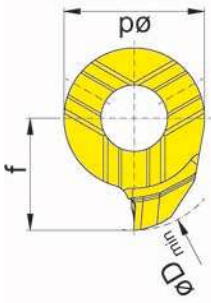
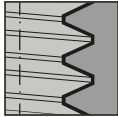
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo	Grados de metal duro	Δ 4 semanas	4 semanas
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
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65	65	65	65
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67	67	67	67
68	68	68	68
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70	70	70	70
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72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
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79	79	79	79
80	80	80	80
81	81	81	81
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84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Referencia	P	P _{max}	E	f	a	d	s	D _{min}	Ds	HIS
R108.0205.01	0,5	0,75	2,8	4,8	7,8	6	3,6	8	9,6	306060R
R108.0510.01	1	1,25	2,8	4,8	7,8	6	3,6	8	9,6	306060R
R108.0815.01	1,5	1,75	2,6	4,8	7,8	6	3,6	8	9,6	306060R
L108.0205.01	0,5	0,75	2,8	4,8	7,8	6	3,6	8	9,6	306060L
L108.0510.01	1	1,25	2,8	4,8	7,8	6	3,6	8	9,6	306060L
L108.0815.01	1,5	1,75	2,6	4,8	7,8	6	3,6	8	9,6	306060L



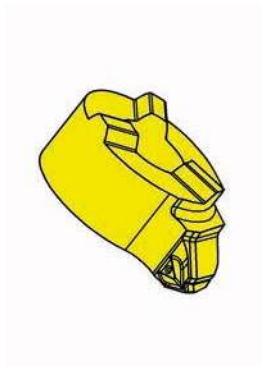
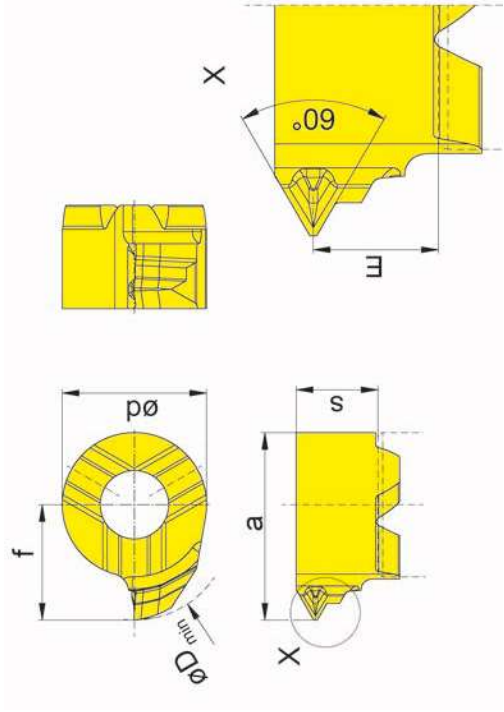
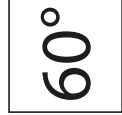
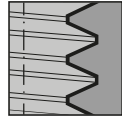
R = versión a derecha
R = versão à direita

Grados de carburo
Graus de metal duro

▲ en stock ▲ 4 semanas
en stock 4 semanas

F

Referencia Número de encomenda	P	P _{max}	E	f	a	d	s	D _{min}	HIS	
RS108.0205.GM1	0,5	0,75	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0510.GM1	1	1,25	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0815.GM1	1,5	1,5	2,6	4,8	7,8	6	3,4	8	306060R	▲
LS108.0205.GM1	0,5	0,75	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0510.GM1	1	1,25	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0815.GM1	1,5	1,5	2,6	4,8	7,8	6	3,4	8	306060L	▲
										P
										M
										K
										N
										S
										H
										EG55

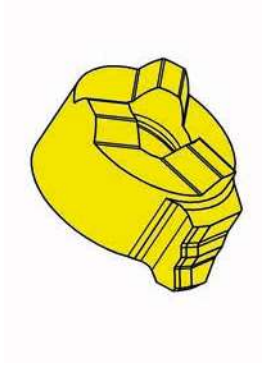
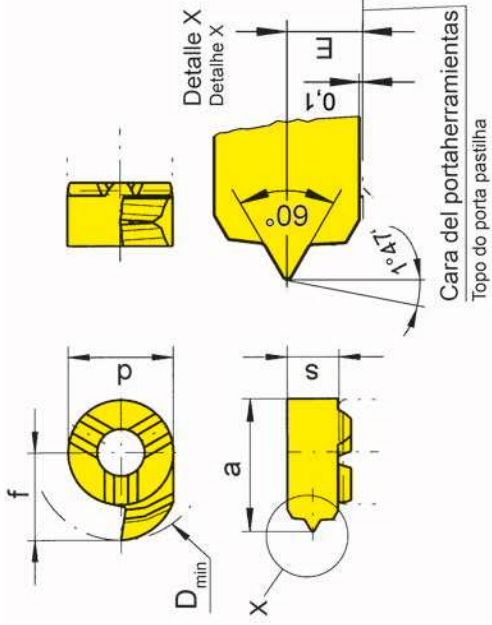
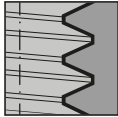


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	HIS	FG55
RS108.0305.GM2	0,5	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0510.GM2	1	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0512.GM2	1,25	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0815.GM2	1,5	2,6	4,8	7,8	6	3,4	8	306060R	▲
LS108.0305.GM2	0,5	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0510.GM2	1	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0512.GM2	1,25	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0815.GM2	1,5	2,6	4,8	7,8	6	3,4	8	306060L	▲
	P	●							
	M	○							
	K	○							
	N	-							
	S	-							
	H	-							



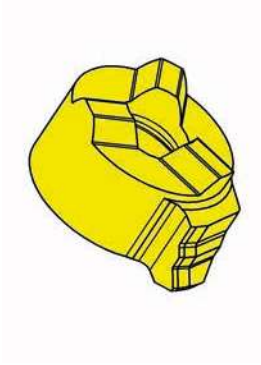
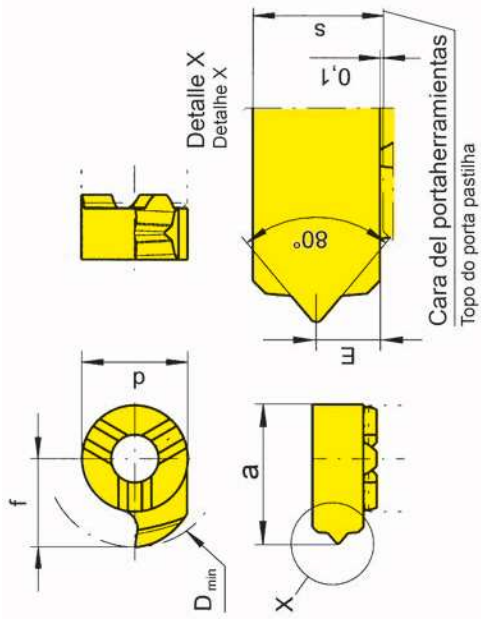
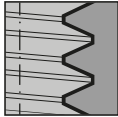
R = versión a derecha
R = versão à direita

Cara del portaherramientas
Topo do porta pastilha

Grados de carburo
Graus de metal duro

▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	TPI	E	f	d	s	D _{min}	HIS						
R108.NP14.02	14	1,9	4,8	6	3,6	8	306060R	▲	▲	EG55	●	●	TN35
R108.NP18.02	18	1,9	4,8	6	3,6	8	306060R	▲	▲	EG55	●	●	TN35
R108.NP27.02	27	1,9	4,8	6	3,6	8	306060R	▲	▲	EG55	●	●	TN35
								P	M	K	N	S	H



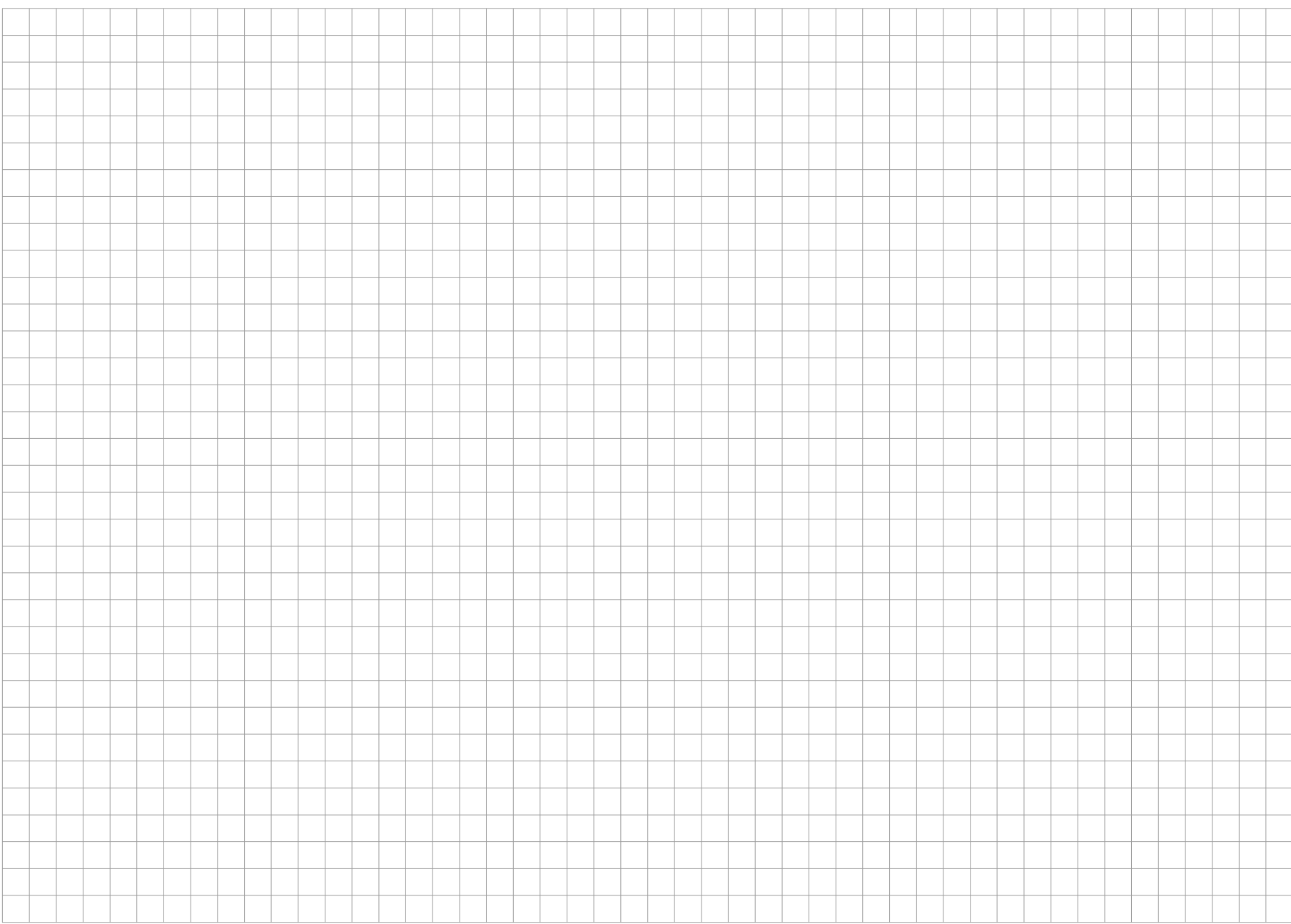
R = versión a derecha
R = versão à direita

Grados de carburo
Graus de metal duro

▲ en stock
en stock

Δ 4 semanas
4 semanas

Referencia Número de encomenda	TPI	E	f	d	s	D _{min}	HIS		EG55	TN35
R108.PG18.02	18	1,9	4,8	6	3,6	8	306060R		▲	▲
R108.PG20.02	20	1,9	4,8	6	3,6	8	306060R		▲	▲
								P	●	●
								M	○	●
								K	○	●
								N	-	●
								S	-	●
								H	-	-



10P

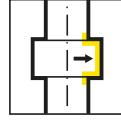


G

**Portaherramientas
y Plaquita**

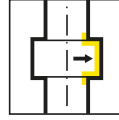
**Porta pastilhas
e Pastilha**

Portaherramientas
Porta pastilhas
B10P

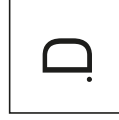


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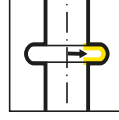
Plaquita
Pastilha
10P/S10P



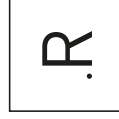
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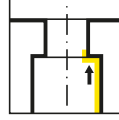
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237, 239



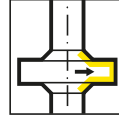
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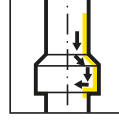
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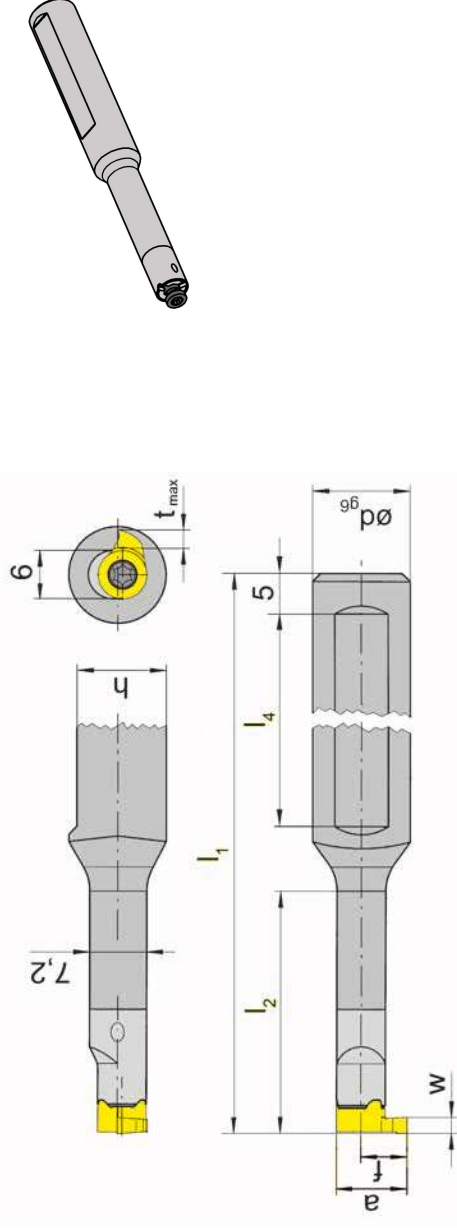
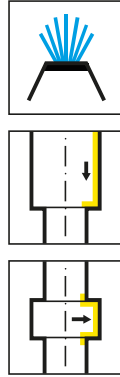


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244

Ø de agujero Ø de furo	Linea de producto / Linha de produto											
	105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						•
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										[•]		
≥ 18,0												•
Profundidad de ranura Profundidade de ranhura	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado												
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•		•		•	•	
Roscado Rosqueamento	•	•			•	•		•		•	•	
Achaflanado Chanfrado	•	•			•	•		•		•	•	
Ranurado frontal Ranhurado frontal	•	•	•							•		
Torneado duro Torneamento duro	•											



R = versión a derecha
R = versão à direita

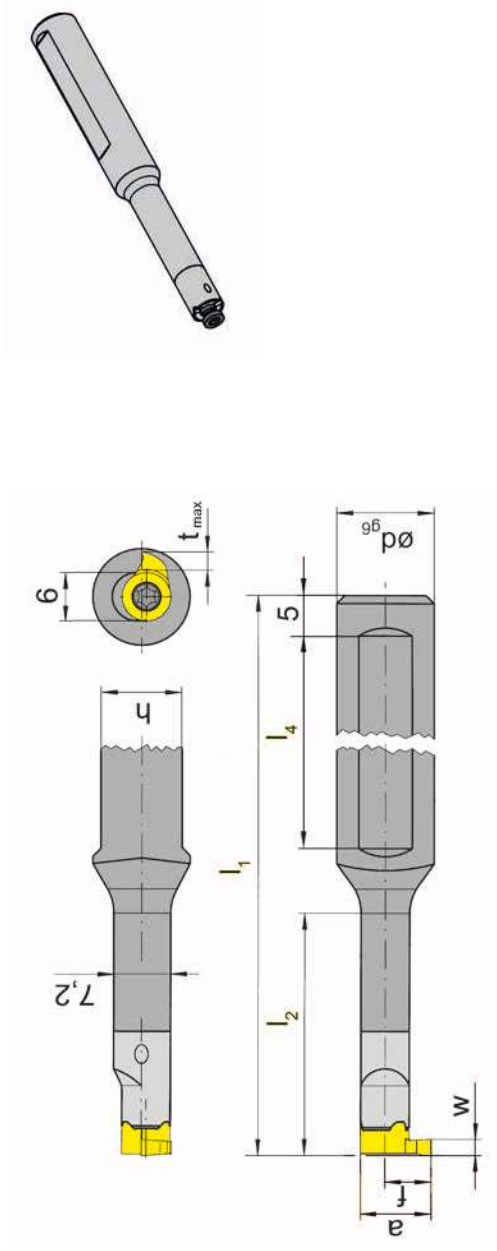
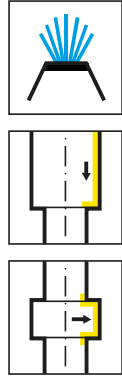
L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	HWS
RB10P.0012.00	12	70	12,5	11	40	10P060R
RB10P.0012.01	12	80	21	11	45	10P060R
RB10P.0012.02	12	90	30	11	45	10P060R
RB10P.0012.03	12	100	42	11	45	10P060R
LB10P.0012.00	12	70	12,5	11	40	10P060L
LB10P.0012.01	12	80	21	11	45	10P060L
LB10P.0012.02	12	90	30	11	45	10P060L
LB10P.0012.03	12	100	42	11	45	10P060L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{max}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LB10P...	2.6.5T8EP	T8PL



R = versión a derecha
R = versão à direita

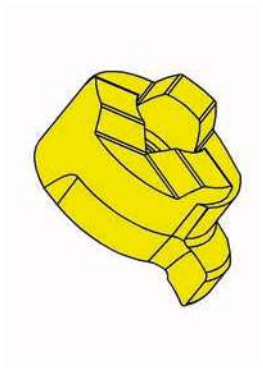
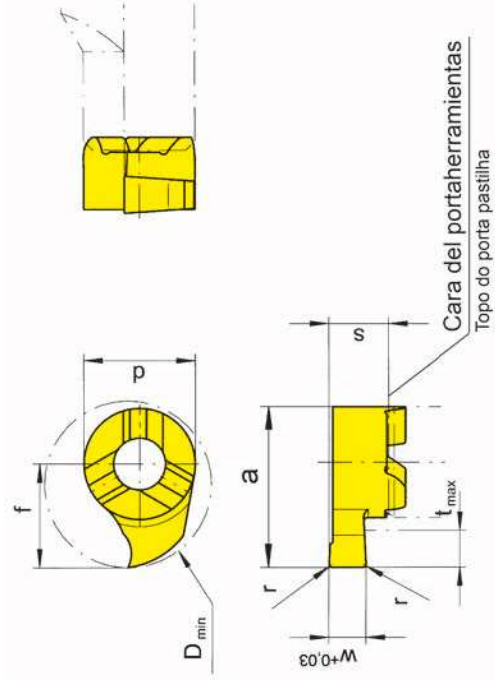
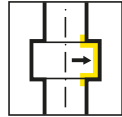
L = versión a izquierda
L = versão à esquerda

Referencia	d	l ₁	l ₂	h	l ₄	HWS
Número de encomenda						
RB10P.0012.2.00	12	70	12,5	11	40	10P060R
RB10P.0012.2.01	12	80	21	11	45	10P060R
RB10P.0012.2.02	12	90	30	11	45	10P060R
RB10P.0012.2.03	12	100	42	11	45	10P060R
LB10P.0012.2.00	12	70	12,5	11	40	10P060L
LB10P.0012.2.01	12	80	21	11	45	10P060L
LB10P.0012.2.02	12	90	30	11	45	10P060L
LB10P.0012.2.03	12	100	42	11	45	10P060L

w, a, tmax, f vea las plaquitas
w, a, tmax, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LB10P...	2.6.5T8EP	T8PL

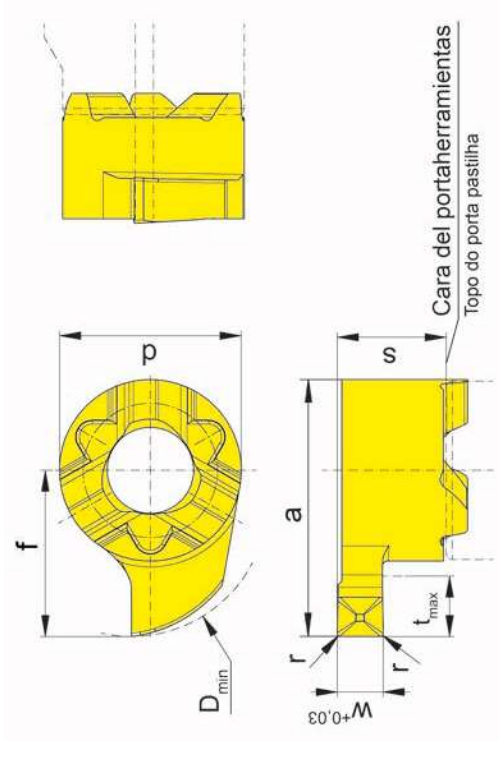
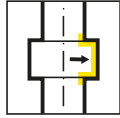


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
R10P.0100.1.00	1	3,6	5,5	8,5	-	6	2	9	10P060R	▲	▲
R10P.0150.1.00	1,5	3,6	5,5	8,5	-	6	2	9	10P060R	▲	▲
R10P.0200.1.02	2	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
R10P.0250.1.02	2,5	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
R10P.0300.1.02	3	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
L10P.0100.1.00	1	3,6	5,5	8,5	-	6	2	9	10P060L	▲	▲
L10P.0150.1.00	1,5	3,6	5,5	8,5	-	6	2	9	10P060L	▲	▲
L10P.0200.1.02	2	3,6	5,5	8,5	0,2	6	2	9	10P060L	▲	▲
L10P.0250.1.02	2,5	3,6	5,5	8,5	0,2	6	2	9	10P060L	▲	▲
L10P.0300.1.02	3	3,6	5,5	8,5	0,2	6	2	9	10P060L	▲	▲
										P	•
										M	•
										K	•
										N	•
										S	•
										H	-

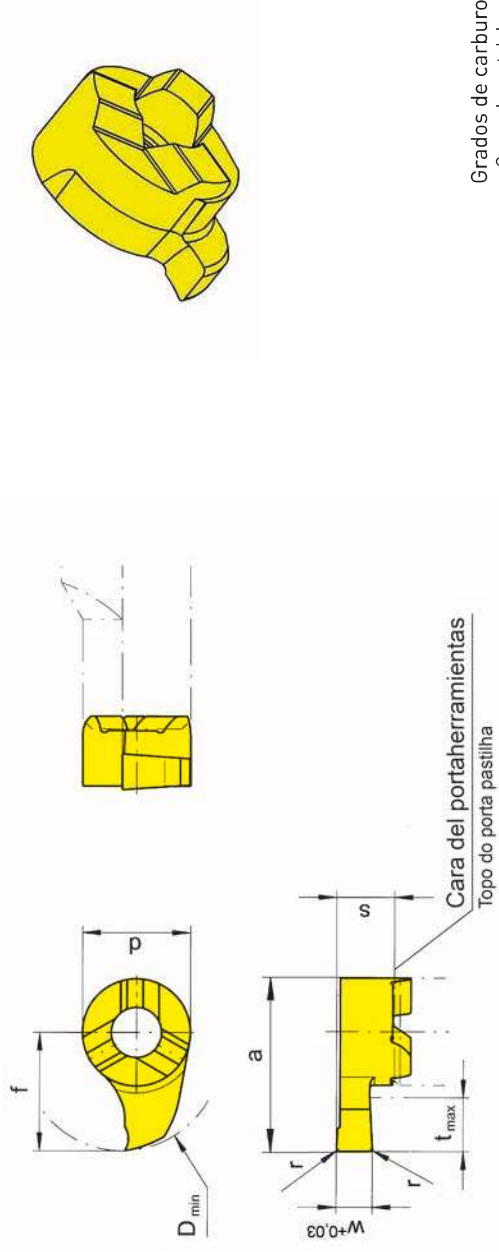
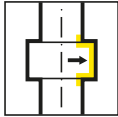


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock Δ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS10P.0100.1.D1	1	3,6	5,5	8,5	0,1	6	2	9	10P060R	▲	▲
RS10P.0150.1.D1	1,5	3,6	5,5	8,5	0,1	6	2	9	10P060R	▲	▲
RS10P.0200.1.D2	2	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
LS10P.0100.1.D1	1	3,6	5,5	8,5	0,1	6	2	9	10P060L	Δ	Δ
LS10P.0150.1.D1	1,5	3,6	5,5	8,5	0,1	6	2	9	10P060L	Δ	Δ
LS10P.0200.1.D2	2	3,6	5,5	8,5	0,2	6	2	9	10P060L	Δ	Δ
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-

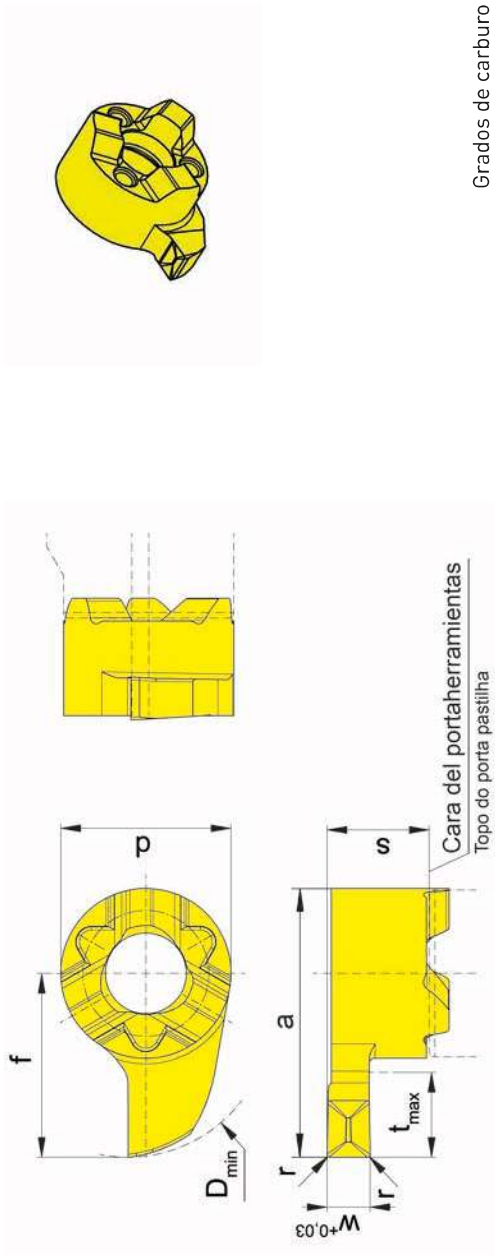
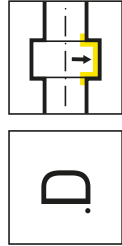


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
R10P.0100.2.00	1	3,6	6,5	9,5	-	6	3	10	10P060R	▲	▲
R10P.0150.2.00	1,5	3,6	6,5	9,5	-	6	3	10	10P060R	▲	▲
R10P.0200.2.02	2	3,6	6,5	9,5	0,2	6	3	10	10P060R	▲	▲
L10P.0100.2.00	1	3,6	6,5	9,5	-	6	3	10	10P060L	Δ	▲
L10P.0150.2.00	1,5	3,6	6,5	9,5	-	6	3	10	10P060L	▲	▲
L10P.0200.2.02	2	3,6	6,5	9,5	0,2	6	3	10	10P060L	▲	▲
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-



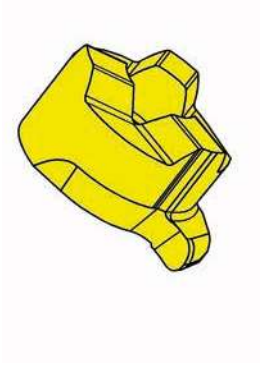
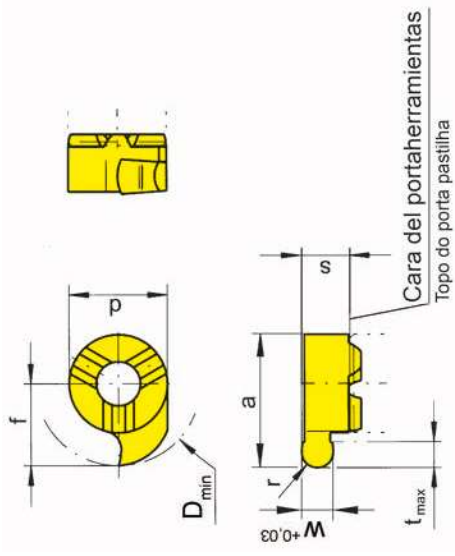
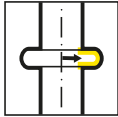
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS10P.0150.2.D1	1,5	3,6	6,5	9,5	0,1	6	3	10	10P060R	▲	▲
RS10P.0200.2.D2	2	3,6	6,5	9,5	0,2	6	3	10	10P060R	▲	▲
LS10P.0150.2.D1	1,5	3,6	6,5	9,5	0,1	6	3	10	10P060L	Δ	▲
LS10P.0200.2.D2	2	3,6	6,5	9,5	0,2	6	3	10	10P060L	▲	▲
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-





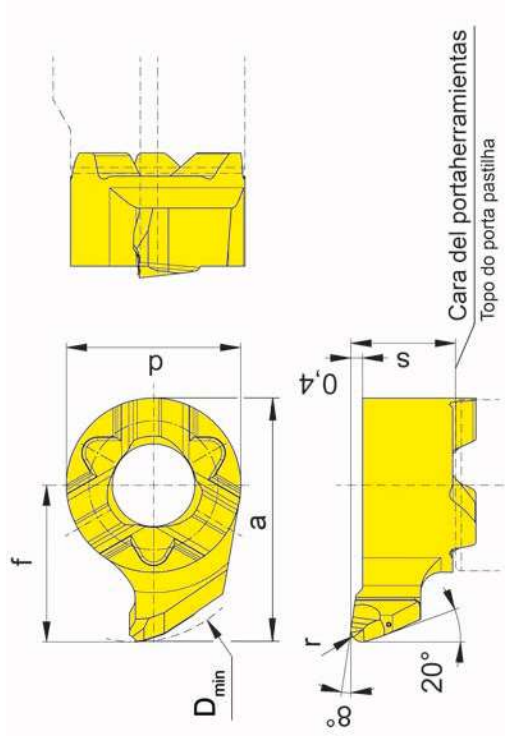
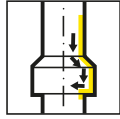
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	d	t _{max}	D _{min}	HIS	EG55
R10P.0005.2.10	1	3,6	6,5	9,5	6	3	10	10P060R	▲
R10P.0007.2.15	1,5	3,6	6,5	9,5	6	3	10	10P060R	▲
R10P.0009.2.18	1,8	3,6	6,5	9,5	6	3	10	10P060R	▲
L10P.0005.2.10	1	3,6	6,5	9,5	6	3	10	10P060L	▲
L10P.0007.2.15	1,5	3,6	6,5	9,5	6	3	10	10P060L	▲
L10P.0009.2.18	1,8	3,6	6,5	9,5	6	3	10	10P060L	▲
									P ●
									M ○
									K ○
									N -
									S -
									H -

.R

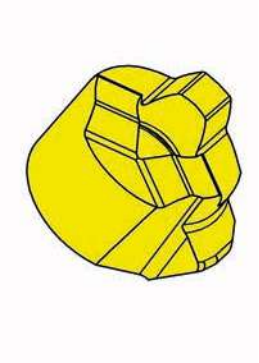
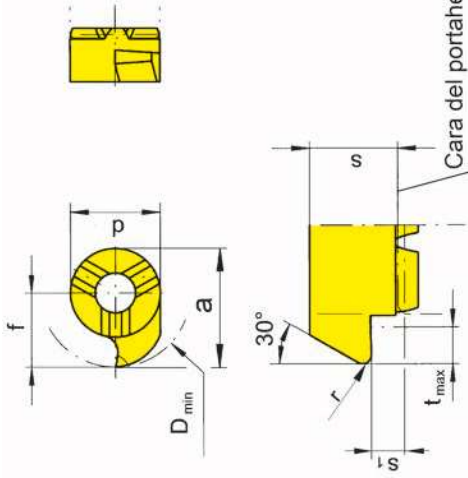
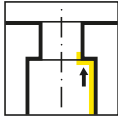


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
▲ en stock
Δ 4 semanas
Δ 4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	Grados de carburo Graus de metal duro
RS10P.1854.R2	3,6	5,4	8,4	0,2	6	8,8	10P060R	▲
RS10P.1854.R4	3,6	5,4	8,4	0,4	6	8,8	10P060R	▲
LS10P.1854.R2	3,6	5,4	8,4	0,2	6	8,8	10P060L	▲
LS10P.1854.R4	3,6	5,4	8,4	0,4	6	8,8	10P060L	▲
								P
								M
								K
								N
								S
								H
								TH35



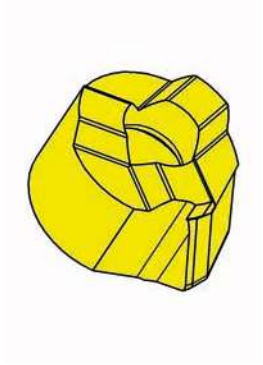
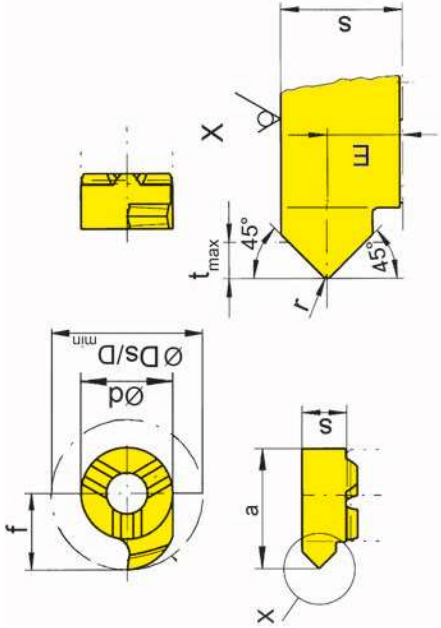
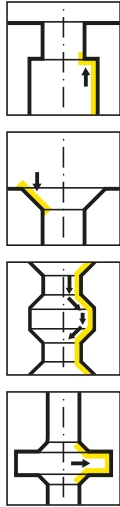
Cara del portaherramientas
Topo do porta pastilha

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	s	f	a	r	s ₁	d	t _{max}	D _{min}	HIS	EG55
R10P.3065.2.02	3,75	6,5	9,5	0,2	1	6	3	10	10P060R	▲
L10P.3065.2.02	3,75	6,5	9,5	0,2	1	6	3	10	10P060L	▲
									P	●
									M	○
									K	○
									N	-
									S	-
									H	-

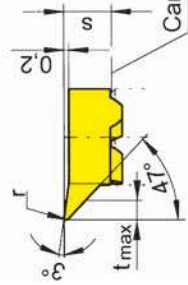
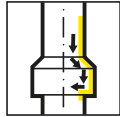


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	E	f	r	d	D _{min}	α	t _{max}	HIS	FG55
R10P.4545.1.02	1,9	5,5	0,2	6	9	45°	1,5	10P060R	▲
L10P.4545.1.02	1,9	5,5	0,2	6	9	45°	1,5	10P060L	▲
									P ● M ○ K ○ N - S - H -



Cara del portaherramientas
Topo do porta pastilha

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55
R10P.4765.2.02	3,6	6,5	9,5	0,2	6	3	10	10P060R	▲
L10P.4765.2.02	3,6	6,5	9,5	0,2	6	3	10	10P060L	▲
									P ● M ○ K ○ N - S - H -

111

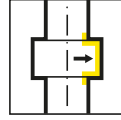


H

**Portaherramientas
y Plaquita**

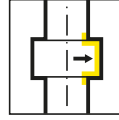
**Porta pastilhas
e Pastilha**

Portaherramientas
Porta pastilhas
B111



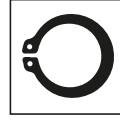
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248-249

Cartucho
Cartucho
125

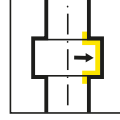


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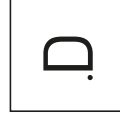
Plaquita
Pastilha
111/S111



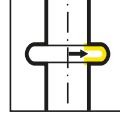
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251-252



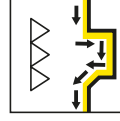
Pág./Pág.
253



Pág./Pág.
254



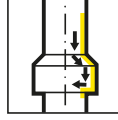
Pág./Pág.
255



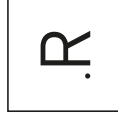
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256



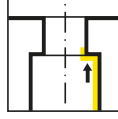
Pág./Pág.
257



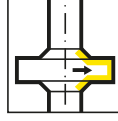
Pág./Pág.
258, 261



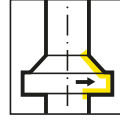
Pág./Pág.
259



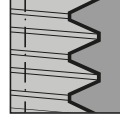
Pág./Pág.
260



Pág./Pág.
262



Pág./Pág.
263



Pág./Pág.
264-269

Ø de agujero Ø de furo		Linea de producto / Linha de produto											
		105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2		•											
≥ 0,5		•											
≥ 0,7		•											
≥ 1,0		•											
≥ 1,5		•											
≥ 2,0		•											
≥ 3,0		•											
≥ 4,0		•											
≥ 5,0		•											
≥ 6,0		•	•	•	•								
≥ 6,8			•	•	•								
≥ 7,0			•			•							
≥ 7,8				•		•	•						
≥ 8,0				•		•	•						
≥ 9,0				•		•	•	•					
≥ 10,0				•			•	•	•				
≥ 10,5									•				
≥ 11,0								•	•				
≥ 11,5									•				
≥ 13,8										•			
≥ 14,0										•	•		
≥ 16,0											•		
≥ 16,5										{•}			
≥ 18,0													•
Profundidad de ranura Profundidade de ranhura		2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura		0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado													
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•	•		•	•	•	•	
Roscado Rosqueamento	•	•			•	•	•		•		•	•	
Achaflanado Chanfrado	•	•			•	•	•		•	•	•	•	
Ranurado frontal Ranhurado frontal	•	•									•		
Torneado duro Torneamento duro	•												

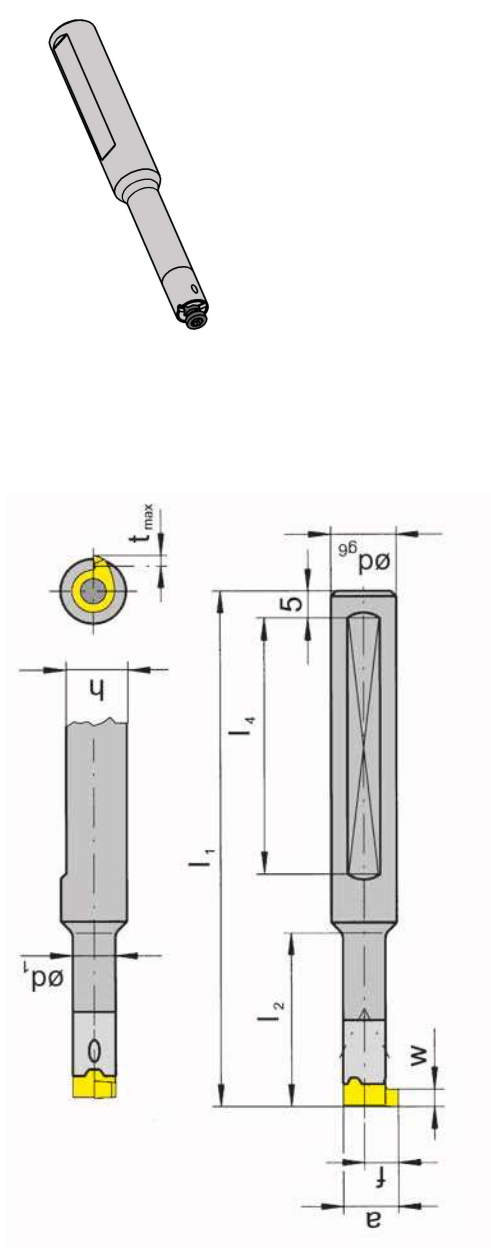
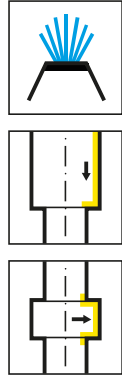


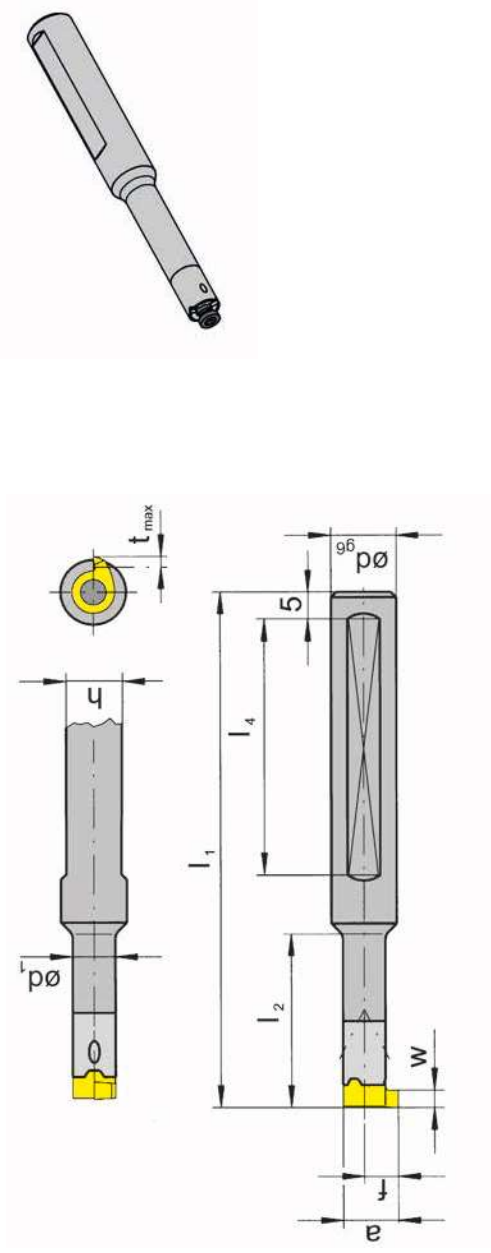
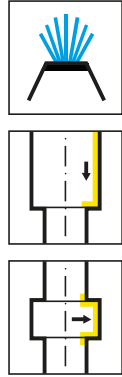
Foto = versión corte a derecha
Foto = versão do corte a direita

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	d ₁	HWS
B111.0008.01A	8	80	-	-	-	-	308080R • 308080L
B111.0012.00	12	75	16,5	11	40	8	308080R • 308080L
B111.0012.01	12	95	29	11	50	8	308080R • 308080L
B111.0012.02	12	110	42	11	50	8	308080R • 308080L
B111.0012.03	12	120	56	11	50	8	308080R • 308080L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{max}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
B111...	3.5.12T10EP	T10PL



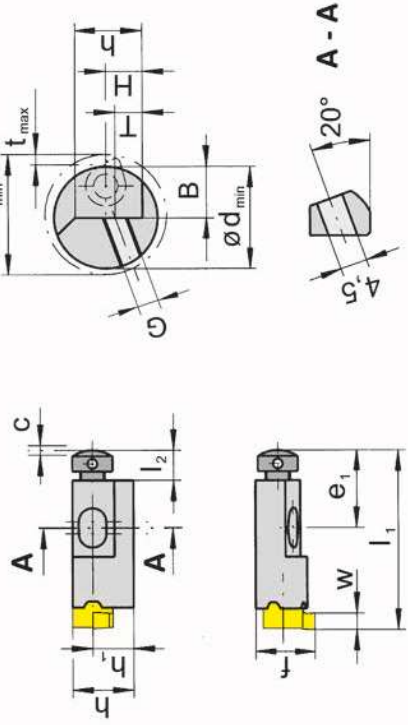
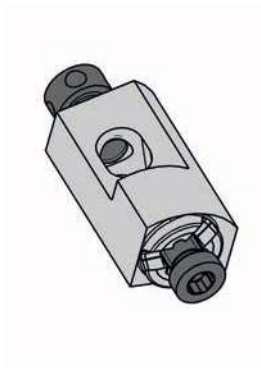
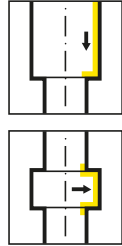
R = versão a derecha
R = versão à direita

Referencia	d	l ₁	l ₂	h	l ₄	d ₁	HWS
Número de encomenda							
B111.0012.2.00	12	75	16,5	11	40	8	308080R • 308080L
B111.0012.2.01	12	95	29	11	50	8	308080R • 308080L
B111.0012.2.02	12	110	42	11	50	8	308080R • 308080L
B111.0012.2.03	12	120	56	11	50	8	308080R • 308080L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{max}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
B111...	3.5.12T10EP	T10PL



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Referencia	h	l ₁	h ₁	f	e ₁	l ₂	c	D _{min}	t _{max}	HWS
Número de encomenda										
L125.0608.00	10	30	6	11,2	12,8	5	2	20	2,3	308080R • 308080L

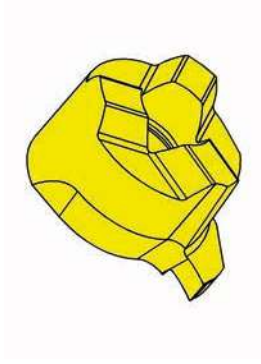
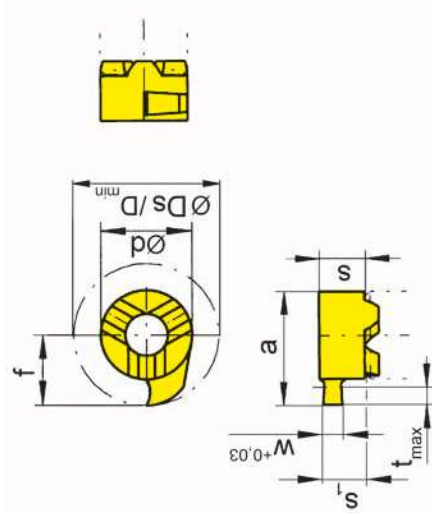
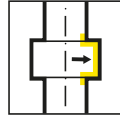
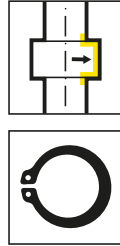
w vea las plaquitas
w vêr pastilhas

H

Dimensiones de asiento	H	T	B	G	d _{min}	h
Dimensões de assento						
L145.1012.00	10	9,0	12,0	M6	26	17

Repuestos
Acessórios

Cartucho	Tornillo de sujeción	Llave TORX PLUS®
Cartucho	Parafuso tensor	Chave TORX PLUS®
L125.0608.00	3.5.12T10EP	T10PL



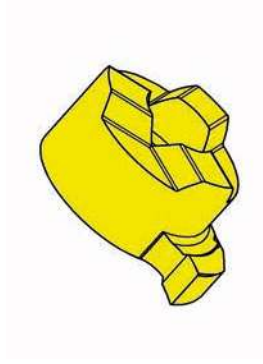
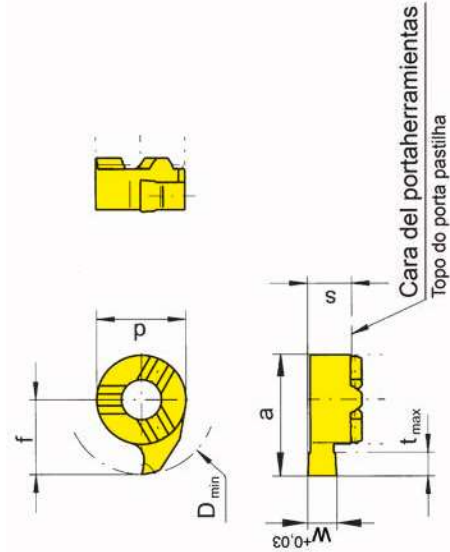
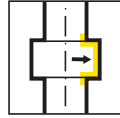
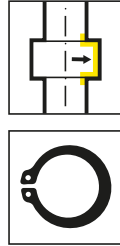
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	Nw	f	Ds	d	s	s ₁	a	t _{max}	D _{min}	Z	HIS	MG12	EG55	TH35	TN35
R111.0070.00	0,74	0,7	6,7	13,4	8	4,15	3,95	10,7	1,2	11	1	308080R		▲	▲	▲
R111.0080.00	0,84	0,8	6,7	13,4	8	4,15	3,95	10,7	1,3	11	1	308080R		▲	▲	▲
R111.0090.00	0,94	0,9	6,7	13,4	8	4,15	3,95	10,7	1,5	11	1	308080R	▲	▲	▲	▲
L111.0070.00	0,74	0,7	6,7	13,4	8	4,15	3,95	10,7	1,2	11	1	308080L			Δ	Δ
L111.0080.00	0,84	0,8	6,7	13,4	8	4,15	3,95	10,7	1,3	11	1	308080L	▲		Δ	Δ
L111.0090.00	0,94	0,9	6,7	13,4	8	4,15	3,95	10,7	1,5	11	1	308080L	▲		▲	▲
Profundidad de corte limitada Profundidade de corte limitada													P	O	●	●
													M	-	●	●
													K	-	●	●
													N	-	●	●
													S	-	●	●
													H	-	-	-

Profundidad de corte limitada
Profundidade de corte limitada



R = versión a derecha
R = versão à direita

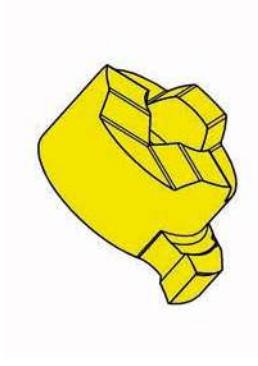
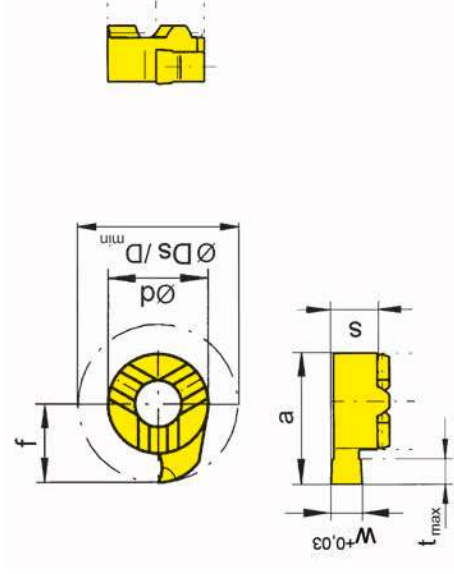
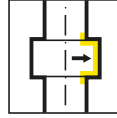
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	Nw	s	f	Ds	d	a	t _{max}	D _{min}	Z	HIS		MG12	EG55	TH35	TN35
R111.0110.00	1,19	1,1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	P	▲	▲	▲	▲
R111.0130.00	1,39	1,3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	M	▲	▲	▲	▲
R111.0160.00	1,69	1,6	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	K	▲	▲	▲	▲
L111.0110.00	1,19	1,1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	N	▲	▲	▲	▲
L111.0130.00	1,39	1,3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	S	Δ	Δ	▲	▲
L111.0160.00	1,69	1,6	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	H	Δ	Δ	▲	▲
												P	○	○	○	○
												M	-	○	○	○
												K	-	○	○	○
												N	-	-	○	○
												S	-	-	○	○
												H	-	-	-	-

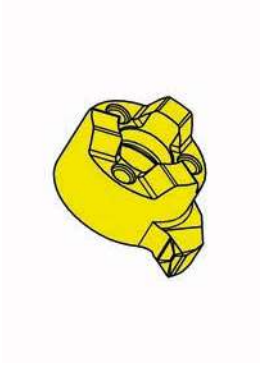
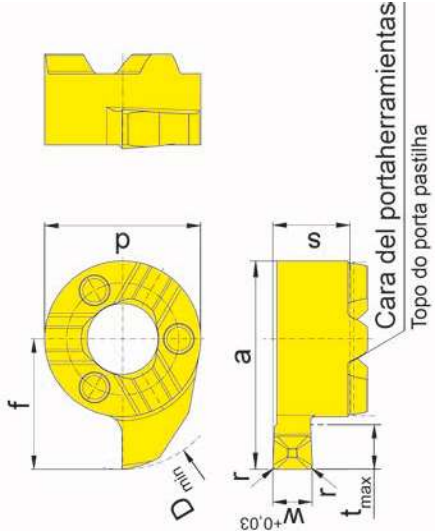
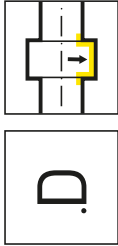


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

Referencia	w	s	f	Ds	d	a	t _{max}	D _{min}	Z	HIS
Número de encomenda										
R111.0100.1.00	1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R
R111.0150.00	1,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R
R111.0200.00	2	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R
R111.0250.00	2,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R
R111.0300.00	3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R
L111.0100.1.00	1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L
L111.0150.00	1,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L
L111.0200.00	2	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L
L111.0250.00	2,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L
L111.0300.00	3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L
P	O	•	•	•	•	•	•	•	•	•
M	-	O	•	•	•	•	•	•	•	•
K	-	O	•	•	•	•	•	•	•	•
N	-	•	•	•	•	•	•	•	•	•
S	-	•	•	•	•	•	•	•	•	•
H	-	•	•	•	•	•	•	•	•	•

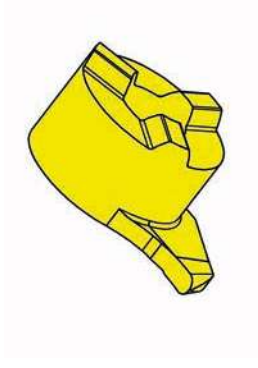
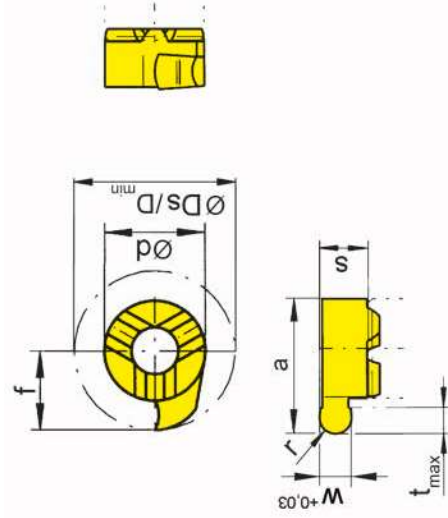
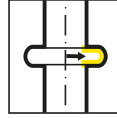


Grados de carburo
Graus de metal duro
▲ en stock
▲ 4 semanas
en stock
4 semanas

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H	EG55	TH35	TN35
RS1111.0150.D1	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080R	●	●	●	●	●	●	▲	▲	▲
RS1111.0200.D2	2	3,95	6,7	10,7	0,2	8	2,3	11	308080R	●	●	●	●	●	●	▲	▲	▲
RS1111.0250.D2	2,5	3,95	6,7	10,7	0,2	8	2,3	11	308080R	●	●	●	●	●	●	▲	▲	▲
LS1111.0150.D1	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080L	▲	▲	▲	▲	▲	▲	▲	▲	▲
LS1111.0200.D2	2	3,95	6,7	10,7	0,2	8	2,3	11	308080L	▲	▲	▲	▲	▲	▲	▲	▲	▲
LS1111.0250.D2	2,5	3,95	6,7	10,7	0,2	8	2,3	11	308080L	▲	▲	▲	▲	▲	▲	▲	▲	▲

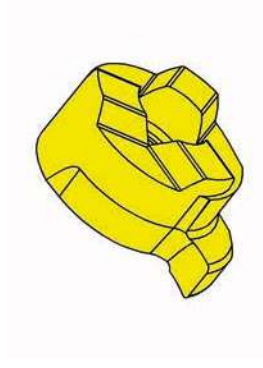
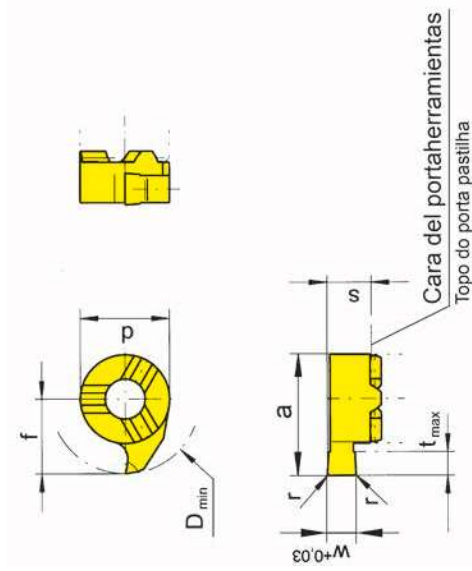
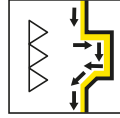


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

Referencia	w	f	Ds	r	d	s	a	t _{max}	D _{min}	Z	HIS
Número de encomenda											
R111.0004.08	0,8	6,7	13,4	0,4	8	3,95	10,7	2,3	11	1	308080R
R111.0006.12	1,2	6,7	13,4	0,6	8	3,95	10,7	2,3	11	1	308080R
R111.0009.18	1,8	6,7	13,4	0,9	8	3,95	10,7	2,3	11	1	308080R
R111.0010.20	2	6,7	13,4	1	8	3,95	10,7	2,3	11	1	308080R
R111.0015.30	3	6,7	13,4	1,5	8	3,95	10,7	2,3	11	1	308080R
L111.0004.08	0,8	6,7	13,4	0,4	8	3,95	10,7	2,3	11	1	308080L
L111.0006.12	1,2	6,7	13,4	0,6	8	3,95	10,7	2,3	11	1	308080L
L111.0009.18	1,8	6,7	13,4	0,9	8	3,95	10,7	2,3	11	1	308080L
L111.0010.20	2	6,7	13,4	1	8	3,95	10,7	2,3	11	1	308080L
L111.0015.30	3	6,7	13,4	1,5	8	3,95	10,7	2,3	11	1	308080L

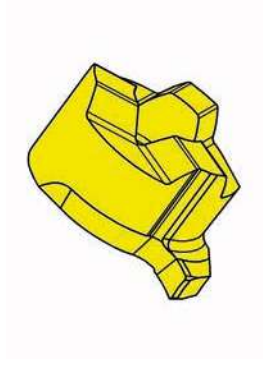
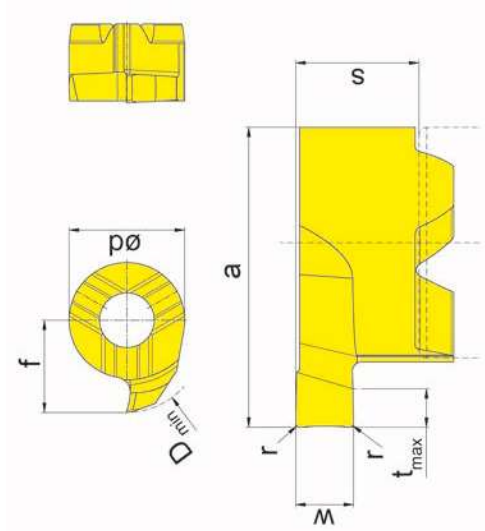
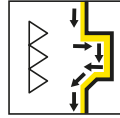
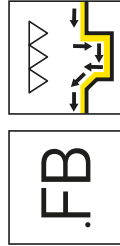


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS			TN35	TH35	E655	MG12	T125	-
R111.0200.02	2	3,95	6,7	10,7	0,2	8	2,3	11	308080R	P	O	●	●	○	●	●	●
L111.0200.02	2	3,95	6,7	10,7	0,2	8	2,3	11	308080L	M	-	●	●	○	-	●	-
										K	-	●	●	○	-	●	-
										N	-	●	●	-	-	●	-
										S	-	●	●	-	-	●	-
										H	-	●	●	-	-	●	-



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	Grados de carburo Graus de metal duro
R111.FB10.01	1	3,95	6,7	10,7	0,1	8	2,3	11	308080R	▲
R111.FB15.01	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080R	▲
L111.FB10.01	1	3,95	6,7	10,7	0,1	8	2,3	11	308080L	▲
L111.FB15.01	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080L	▲
										EG35
										P ●
										M ●
										K ○
										N -
										S -
										H -

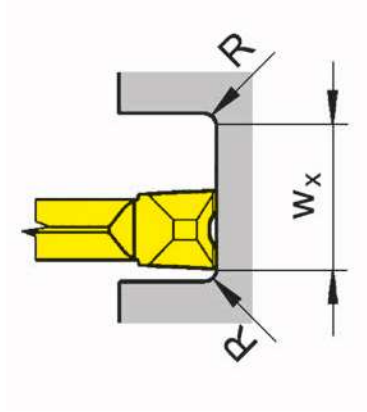
Cálculo del ancho de ranura w_x más pequeño posible
Cálculo da menor largura possível da ranhura w_x

Ejemplo R111.FB10.01
Exemplo

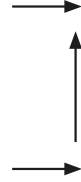
$w_x = 2 \times$ Ancho de plaquita $w - 2 \times$ Plaquita de radio de esquina r
 $2 \times$ Largura da pastilha $w - 2 \times$ Raio do canto r da pastilha

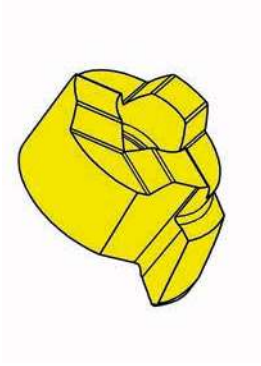
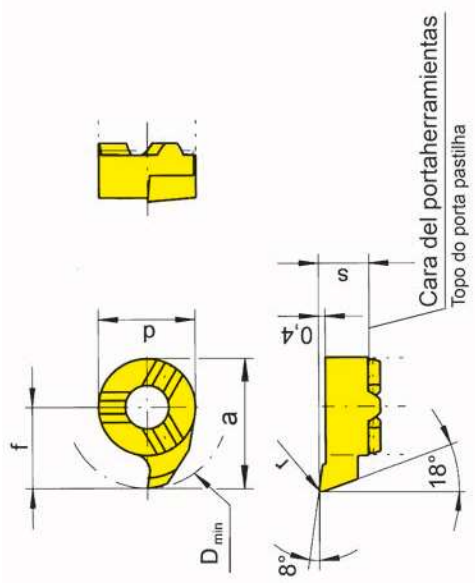
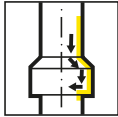
$w_x = 2 \times 1 \text{ mm} - 2 \times 0,1 \text{ mm}$

$w_x = 1,8 \text{ mm}$



Flujo del proceso
Fluxo de processamento



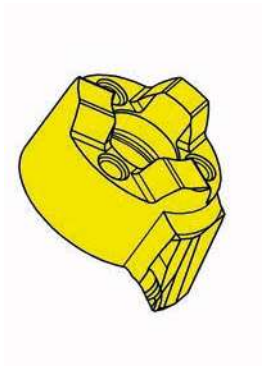
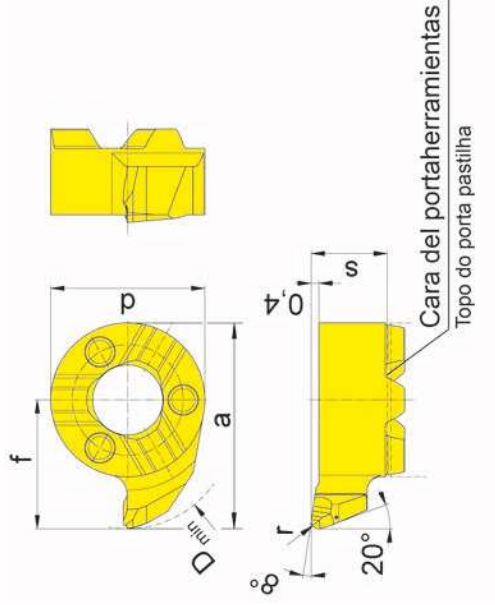
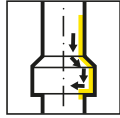


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS		MG12	EG55	TH35	TI25	TN35
R111.1855.02	3,95	5,5	9,5	0,2	8	9,8	308080R		▲	●	●	●	▲
R111.1867.02	3,95	6,7	10,7	0,2	8	11	308080R		▲	○	●	●	▲
L111.1855.02	3,95	5,5	9,5	0,2	8	9,8	308080L		▲	●	●	●	▲
L111.1867.02	3,95	6,7	10,7	0,2	8	11	308080L		▲	●	●	●	▲
								P	○	●	●	●	●
								M	-	○	●	●	●
								K	-	○	●	●	●
								N	-	-	●	●	●
								S	-	-	●	●	●
								H	-	-	-	-	-



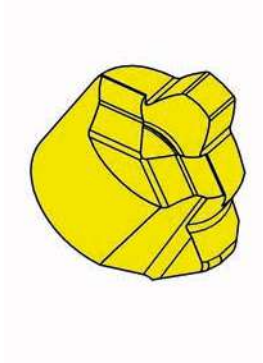
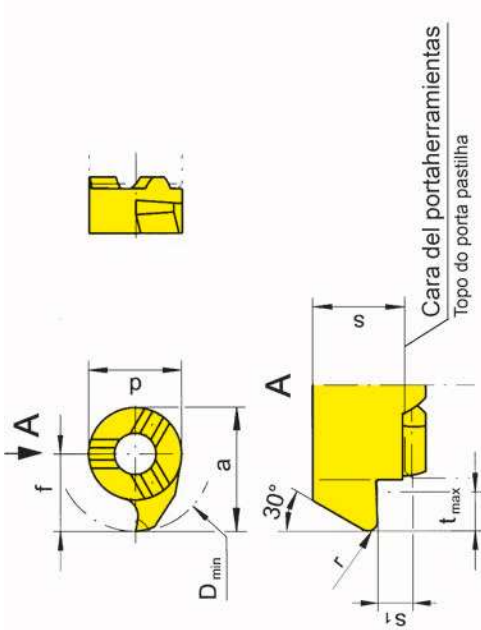
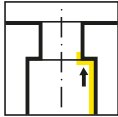
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG55	TH35
RS111.1867.R2	3,95	6,7	10,7	0,2	8	11	308080R	▲	▲
RS111.1867.R4	3,95	6,7	10,7	0,4	8	11	308080R	▲	▲
LS111.1867.R2	3,95	6,7	10,7	0,2	8	11	308080L	▲	▲
LS111.1867.R4	3,95	6,7	10,7	0,4	8	11	308080L	▲	▲
								P	•
								M	•
								K	•
								N	•
								S	•
								H	-



R = versión a derecha
R = versão à direita

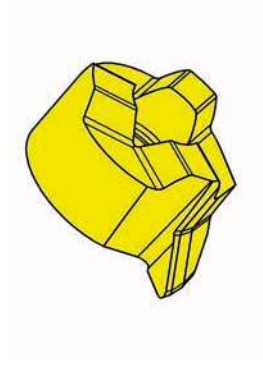
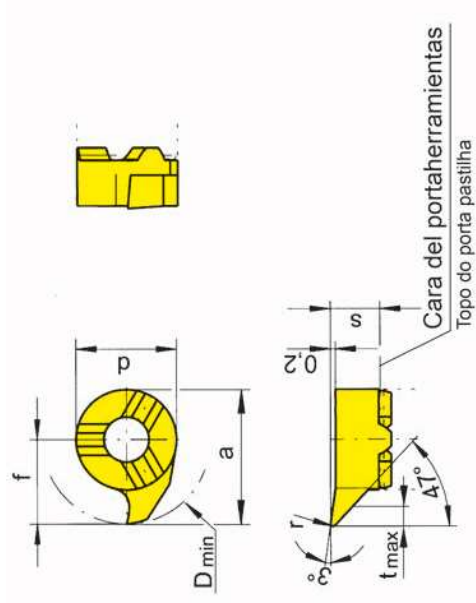
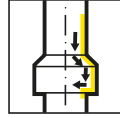
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	s ₁	d	t _{max}	D _{min}	HIS				
R111.3067.02	4,15	6,7	10,7	0,2	1,4	8	2,3	11	308080R	▲	▲	▲	▲
R111.3067.04	4,15	6,7	10,7	0,4	1,4	8	2,3	11	308080R	Δ	▲	▲	Δ
L111.3067.02	4,15	6,7	10,7	0,2	1,4	8	2,3	11	308080L	▲	▲	▲	▲
L111.3067.04	4,15	6,7	10,7	0,4	1,4	8	2,3	11	308080L	Δ	Δ	Δ	Δ
										P	●	●	●
										M	●	●	●
										K	●	●	●
										N	-	●	●
										S	-	●	●
										H	-	-	-

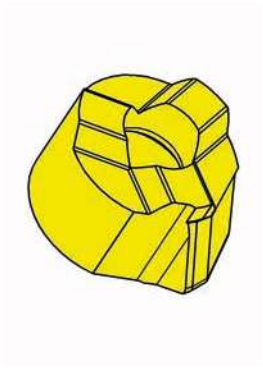
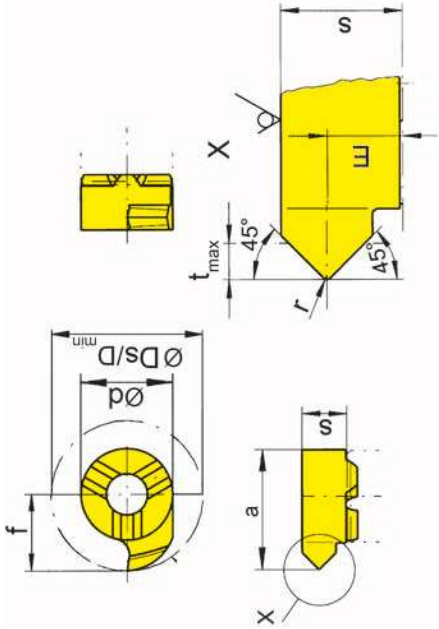
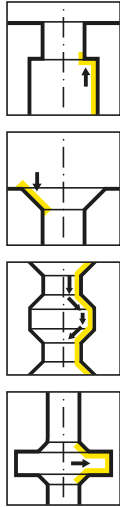


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

Referencia	s	f	a	r	d	t _{max}	D _{min}	HIS		EG55	TH35	T125	TN35
Número de encomenda													
R111.4767.02	3,95	6,7	10,7	0,2	8	2,3	11	308080R		▲	▲	▲	▲
R111.4767.04	3,95	6,7	10,7	0,4	8	2,3	11	308080R		▲	▲		
L111.4767.02	3,95	6,7	10,7	0,2	8	2,3	11	308080L		▲	▲	▲	▲
L111.4767.04	3,95	6,7	10,7	0,4	8	2,3	11	308080L		▲	▲	Δ	
									P	●	●	●	●
									M	○	●	●	●
									K	○	●	●	●
									N	-	●	●	●
									S	-	●	●	●
									H	-	-	-	-

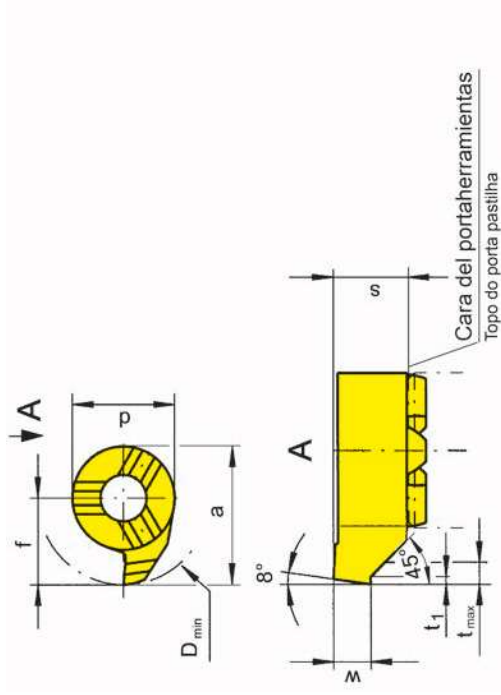
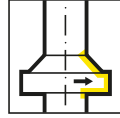


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
▲ 4 semanas
4 semanas

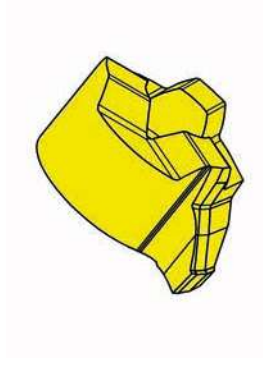
Referencia Número de encomenda	E	f	Ds	r	d	s	a	t _{max}	D _{min}	Z	HIS		EG55	TN35
R111.4545.02	2,4	6,7	13,4	0,2	8	4,15	10,7	1,5	11	1	308080R	▲	▲	▲
L111.4545.02	2,4	6,7	13,4	0,2	8	4,15	10,7	1,5	11	1	308080L	▲	▲	▲
												P	M	K
												N	S	H
												-	-	-
												-	-	-

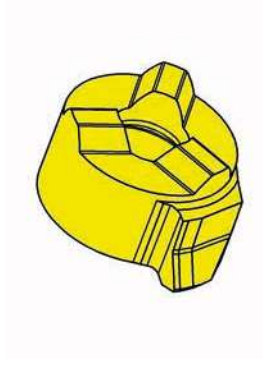
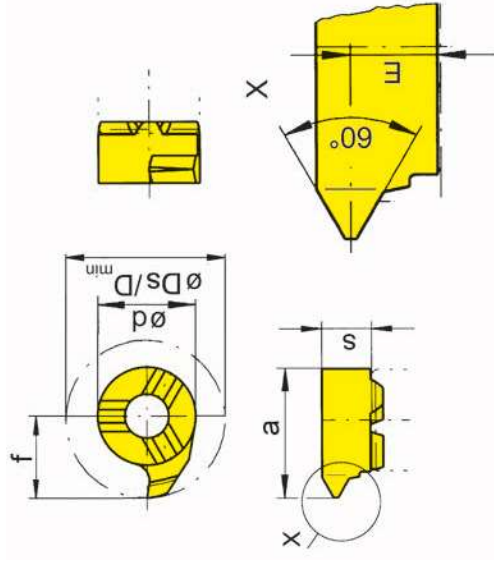
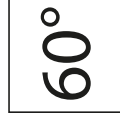
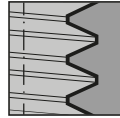


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

[illegible]



R = versión a derecha
R = versão à direita

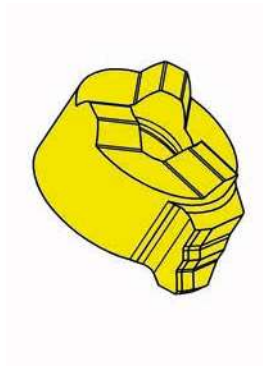
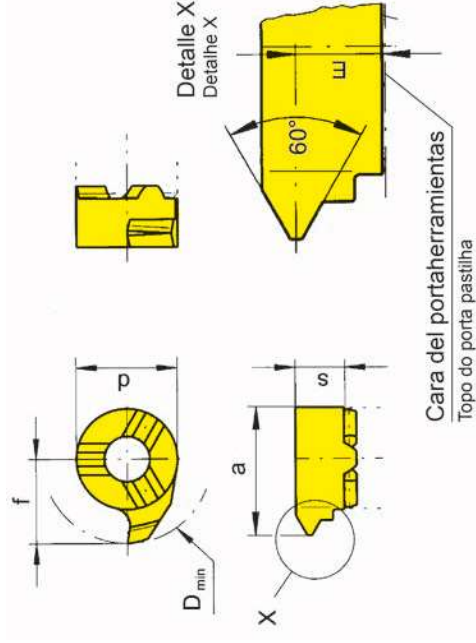
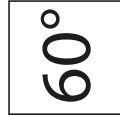
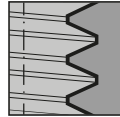
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	P	P _{max}	E	s	f	a	d	D _s	D _{min}	HIS		P	M	K	N	S	H
R111.0205.01	0,5	0,75	3,5	4,15	6,7	10,7	8	13,4	11	308080R		●	●	●	●	●	●
R111.0510.01	1	1,25	3,3	4,15	6,7	10,7	8	13,4	11	308080R		●	●	●	●	●	●
R111.0815.01	1,5	1,75	3,3	4,15	6,7	10,7	8	13,4	11	308080R		●	●	●	●	●	●
R111.1020.01	2	2	3	4,15	6,7	10,7	8	13,4	11	308080R		●	●	●	●	●	●
R111.1325.01	2,5	2,5	2,8	4,15	6,7	10,7	8	13,4	11	308080R		●	●	●	●	●	●
L111.0205.01	0,5	0,75	3,5	4,15	6,7	10,7	8	13,4	11	308080L	Δ	●	●	●	●	●	●
L111.0510.01	1	1,25	3,3	4,15	6,7	10,7	8	13,4	11	308080L		●	●	●	●	●	●
L111.0815.01	1,5	1,75	3,3	4,15	6,7	10,7	8	13,4	11	308080L		●	●	●	●	●	●
L111.1020.01	2	2	3	4,15	6,7	10,7	8	13,4	11	308080L		●	●	●	●	●	●
L111.1325.01	2,5	2,5	2,8	4,15	6,7	10,7	8	13,4	11	308080L		●	●	●	●	●	●
MG12										Δ		●	●	●	●	●	●
TN35												●	●	●	●	●	●
TH35												●	●	●	●	●	●
EG55												●	●	●	●	●	●



R = versión a derecha
R = versão à direita

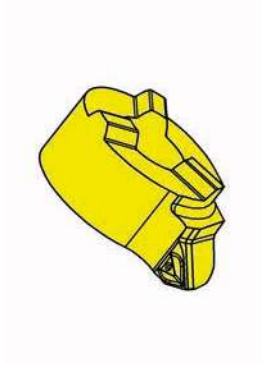
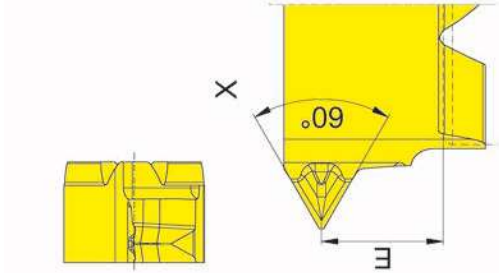
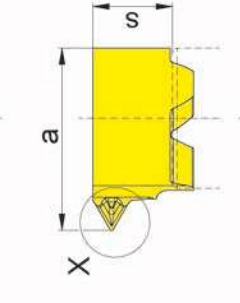
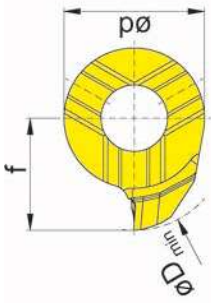
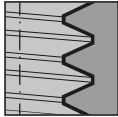
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

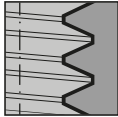
Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	HIS	MG12	EG55	TI25	TN35
R111.0510.02	1	3,3	6,7	10,7	8	4,15	11	308080R	▲	▲	▲	▲
R111.0815.02	1,5	3,3	6,7	10,7	8	4,15	11	308080R	▲	▲	▲	▲
R111.1020.02	2	3	6,7	10,7	8	4,15	11	308080R	▲	▲	▲	▲
R111.1325.02	2,5	2,8	6,7	10,7	8	4,15	11	308080R	▲	▲	▲	▲
R111.1630.02	3	2,8	6,7	10,7	8	4,15	11	308080R	▲	▲	▲	▲
L111.0510.02	1	3,3	6,7	10,7	8	4,15	11	308080L	▲	▲	▲	▲
L111.0815.02	1,5	3,3	6,7	10,7	8	4,15	11	308080L	▲	▲	▲	▲
L111.1020.02	2	3	6,7	10,7	8	4,15	11	308080L	▲	▲	▲	▲
L111.1325.02	2,5	2,8	6,7	10,7	8	4,15	11	308080L	▲	▲	▲	▲
L111.1630.02	3	2,8	6,7	10,7	8	4,15	11	308080L	▲	▲	▲	▲
	P	O						HIS	MG12	EG55	TI25	TN35
	M	-							-	O	•	•
	K	-							-	O	•	•
	N	-							-	-	•	•
	S	-							-	-	•	•
	H	-							-	-	-	-



R = versão a direita
R = versão à direita

Grados de carburo
Graus de metal duro
▲ en stock en stock
▲ 4 semanas 4 semanas

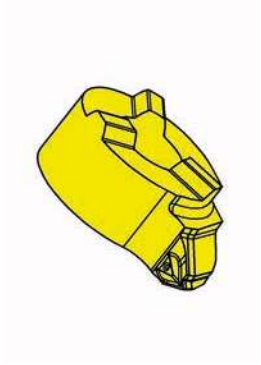
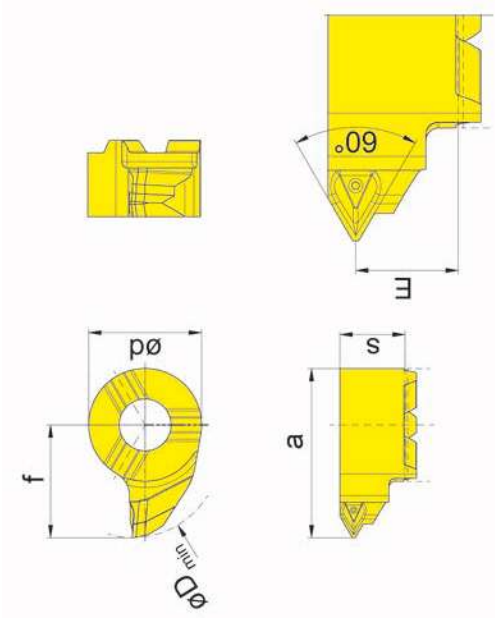
Referencia Número de encomenda	P	P _{max}	E	f	a	d	s	D _{min}	HIS	EG55
RS111.0205.GM1	0,5	0,75	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.0510.GM1	1	1,25	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.0815.GM1	1,5	1,75	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.1020.GM1	2	2	3,1	6,7	10,7	8	4,1	11	308080R	▲
LS111.0205.GM1	0,5	0,75	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.0510.GM1	1	1,25	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.0815.GM1	1,5	1,75	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.1020.GM1	2	2	3,1	6,7	10,7	8	4,1	11	308080L	▲
	P	●								P
	M	○								M
	K	○								K
	N	-								N
	S	-								S
	H	-								H



.GM



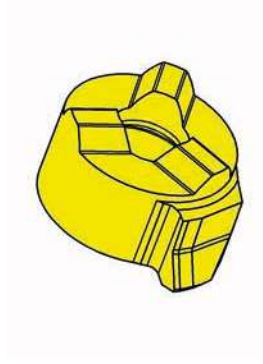
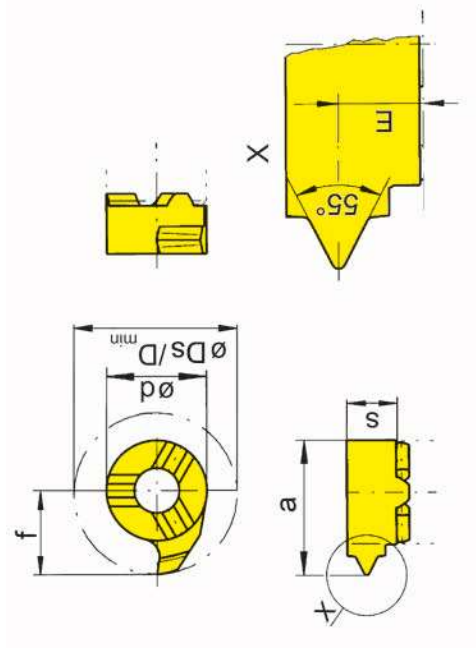
60°



R = versión a derecha
R = versão à direita

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	HIS	FG55
RS1111.0510.GM2	1	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS1111.0815.GM2	1,5	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS1111.1020.GM2	2	3,1	6,7	10,7	8	4,1	11	308080R	▲
LS1111.0510.GM2	1	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS1111.0815.GM2	1,5	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS1111.1020.GM2	2	3,1	6,7	10,7	8	4,1	11	308080L	▲
									P ●
									M ○
									K ○
									N -
									S -
									H -



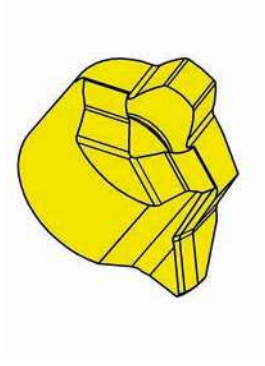
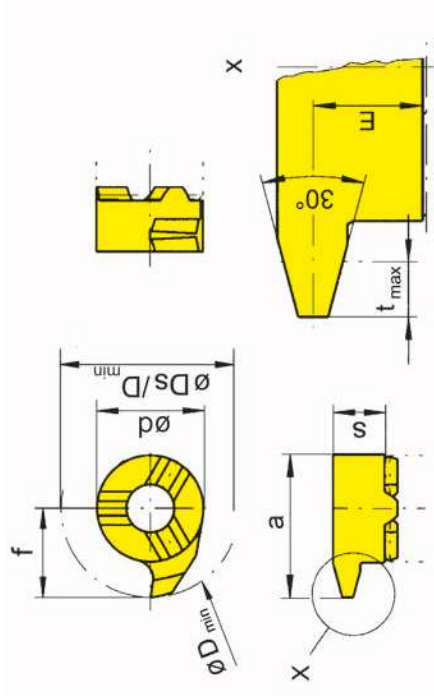
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	TPI	E	s	f	a	d	Ds	D _{min}	HIS		P	M	K	N	S	H
R111.5514.02	14	2,5	4,15	6,7	10,7	8	13,4	11	308080R	▲	▲	▲	▲	▲	▲	▲
R111.5519.02	19	2,9	4,15	6,7	10,7	8	13,4	11	308080R	▲	▲	▲	▲	▲	▲	▲
L111.5514.02	14	2,5	4,15	6,7	10,7	8	13,4	11	308080L	▲	▲	▲	▲	▲	▲	▲
L111.5519.02	19	2,9	4,15	6,7	10,7	8	13,4	11	308080L	▲	▲	▲	▲	▲	▲	▲

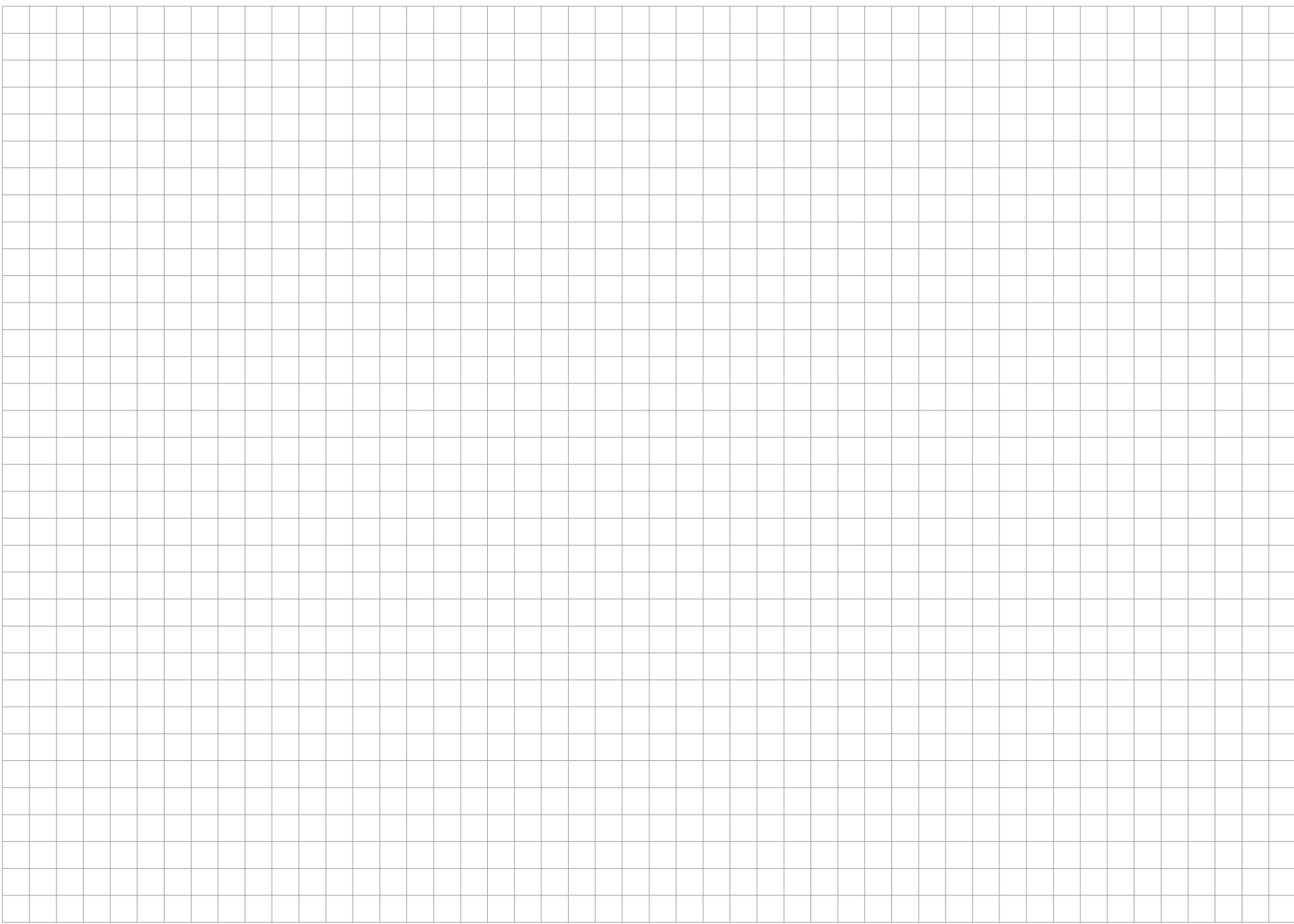


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
▲ 4 semanas
en stock
4 semanas

Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	Ds	HIS	MG12	EG55	TN35
R111.1015.01	1,5	3,5	6,7	10,7	8	4,15	11	13,4	308080R	▲	▲	▲
R111.1220.01	2	3,3	6,7	10,7	8	4,15	11	13,4	308080R	▲	▲	▲
R111.1730.01	3	3	6,7	10,7	8	4,15	11	13,4	308080R	Δ	▲	▲
R111.2240.01	4	2,5	6,7	10,7	8	4,15	11	13,4	308080R	▲	▲	▲
L111.1015.01	1,5	3,5	6,7	10,7	8	4,15	11	13,4	308080L	Δ	▲	▲
L111.1220.01	2	3,3	6,7	10,7	8	4,15	11	13,4	308080L	▲	▲	▲
L111.1730.01	3	3	6,7	10,7	8	4,15	11	13,4	308080L	Δ	▲	▲
L111.2240.01	4	2,5	6,7	10,7	8	4,15	11	13,4	308080L	▲	▲	▲
	P	O	-	O	-	O	-	O	-	●	●	●
	M	-	O	-	O	-	O	-	O	●	●	●
	K	-	O	-	O	-	O	-	O	●	●	●
	N	-	O	-	O	-	O	-	O	●	●	●
	S	-	O	-	O	-	O	-	O	●	●	●
	H	-	O	-	O	-	O	-	O	●	●	●



11P

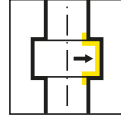


**Portaherramientas
y Plaquita**

**Porta pastilhas
e Pastilha**

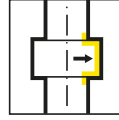
I

Portaherramientas
Porta pastilhas
B11P

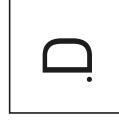


Pág./Pág.
274-275

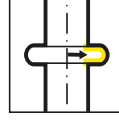
Plaquita
Pastilha
11P/S11P



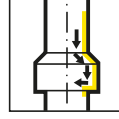
Pág./Pág.
276, 279



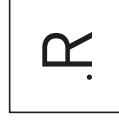
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277, 280



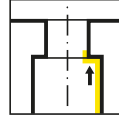
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278



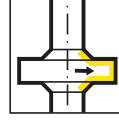
Pág./Pág.
281, 285



Pág./Pág.
282



Pág./Pág.
283

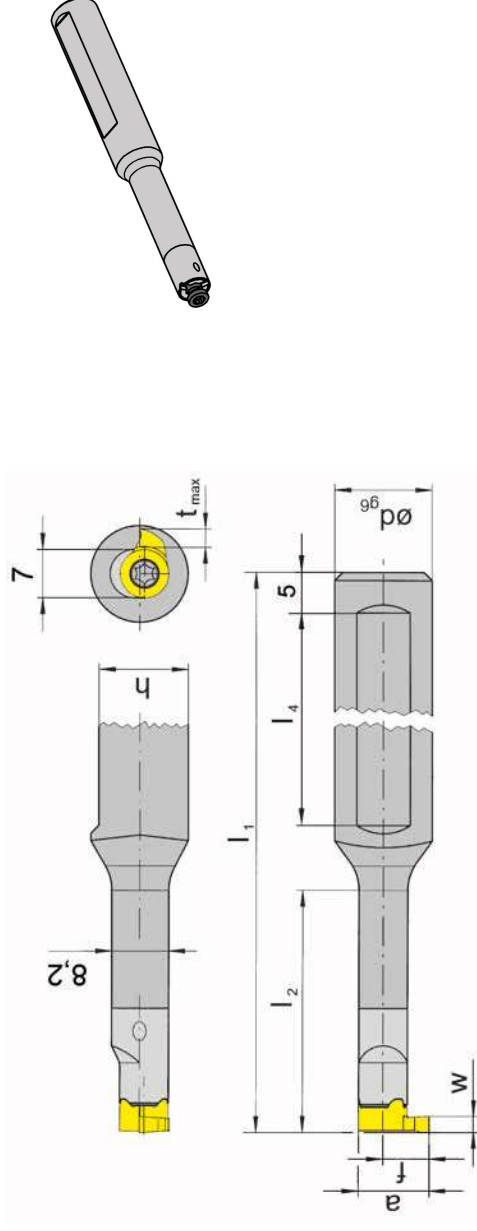
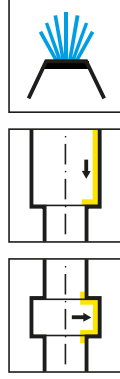


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Ø de agujero Ø de furo		Linea de producto / Linha de produto											
		105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2		•											
≥ 0,5		•											
≥ 0,7		•											
≥ 1,0		•											
≥ 1,5		•											
≥ 2,0		•											
≥ 3,0		•											
≥ 4,0		•											
≥ 5,0		•											
≥ 6,0		•	•	•	•								
≥ 6,8			•	•	•								
≥ 7,0			•			•							
≥ 7,8				•		•	•						
≥ 8,0				•		•	•						
≥ 9,0				•		•	•	•					
≥ 10,0				•			•	•	•				
≥ 10,5									•				
≥ 11,0								•	•				
≥ 11,5									•				
≥ 13,8										•			
≥ 14,0										•	•		
≥ 16,0											•		
≥ 16,5										[•]			
≥ 18,0												•	
Profundidad de ranura Profundidade de ranhura		2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura		0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado													
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•	•	•	•		•	•	
Roscado Rosqueamento	•	•			•	•	•	•			•	•	
Achaflanado Chanfrado	•	•			•	•	•	•			•	•	
Ranurado frontal Ranhurado frontal	•	•	•								•		
Torneado duro Torneamento duro	•												



B11P



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	d	l_1	l_2	h	l_4	HWS
RB11P.0012.00	12	75	15	11	40	11P070R
RB11P.0012.01	12	95	26	11	50	11P070R
RB11P.0012.02	12	110	37	11	50	11P070R
RB11P.0012.03	12	120	50	11	50	11P070R
LB11P.0012.00	12	75	15	11	40	11P070L
LB11P.0012.01	12	95	26	11	50	11P070L
LB11P.0012.02	12	110	37	11	50	11P070L
LB11P.0012.03	12	120	50	11	50	11P070L

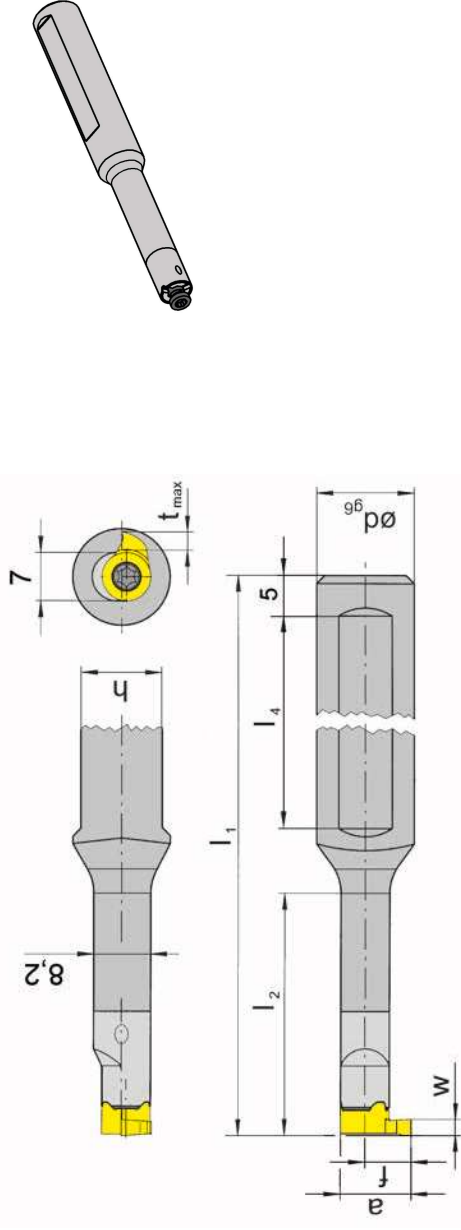
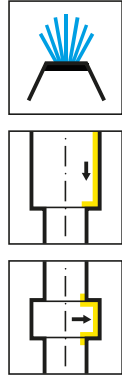
w, a, tmáx, f vea las plaquitas

w, a, tmax, f vêr pastilhas

Repuestos

Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LB11P..	3.10T9P	T9PL



R = versión a derecha
R = versão à direita

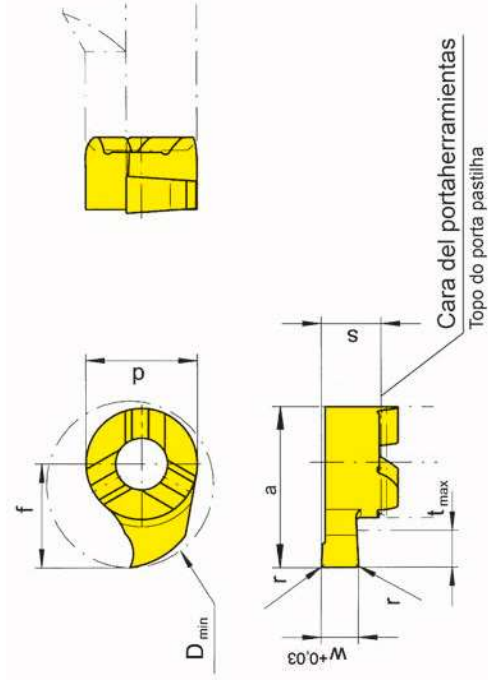
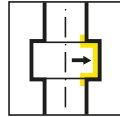
L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	HWS
RB11P.0012.2.00	12	75	15	11	40	11P070R
RB11P.0012.2.01	12	95	26	11	50	11P070R
RB11P.0012.2.02	12	110	37	11	50	11P070R
RB11P.0012.2.03	12	120	50	11	50	11P070R
LB11P.0012.2.00	12	75	15	11	40	11P070L
LB11P.0012.2.01	12	95	26	11	50	11P070L
LB11P.0012.2.02	12	110	37	11	50	11P070L
LB11P.0012.2.03	12	120	50	11	50	11P070L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{máx}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LB11P...	3.10T9P	T9PL



R = versión a derecha
R = versão à direita

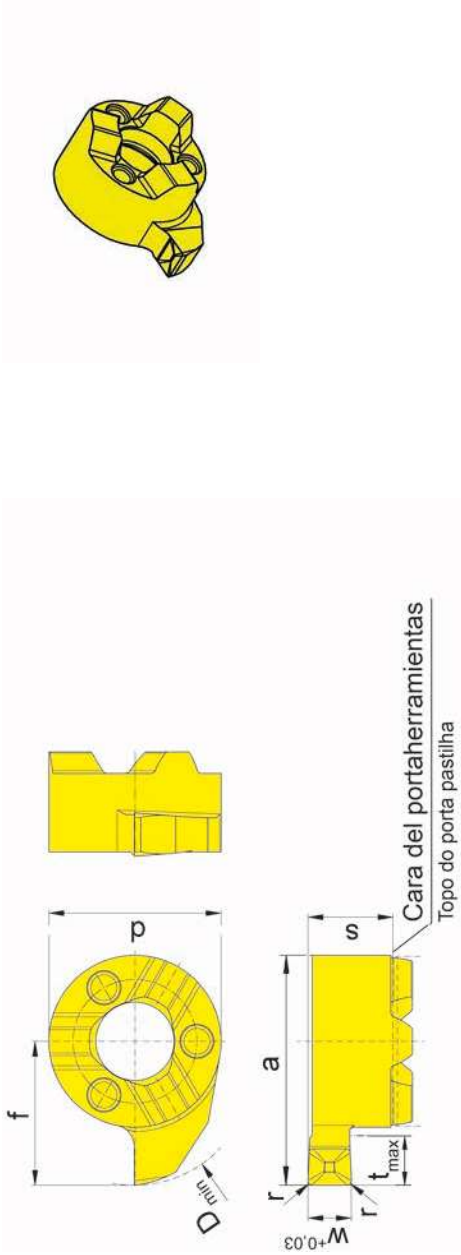
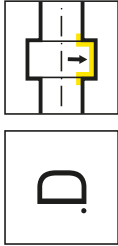
L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
R11P.0100.1.00	1	4,2	6,5	10	-	7	2,5	10,5	11P070R	▲	▲
R11P.0150.1.00	1,5	4,2	6,5	10	-	7	2,5	10,5	11P070R	▲	▲
R11P.0200.1.02	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070R	▲	▲
R11P.0250.1.02	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070R	▲	▲
R11P.0300.1.02	3	4,2	6,5	10	0,2	7	2,5	10,5	11P070R	▲	▲
L11P.0100.1.00	1	4,2	6,5	10	-	7	2,5	10,5	11P070L	▲	▲
L11P.0150.1.00	1,5	4,2	6,5	10	-	7	2,5	10,5	11P070L	▲	▲
L11P.0200.1.02	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	▲	▲
L11P.0250.1.02	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	▲	▲
L11P.0300.1.02	3	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	▲	▲
										P	•
										M	•
										K	•
										N	•
										S	•
										H	-

Plaquita
Pastilha

S11P Ø ≥ 10,5 mm



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

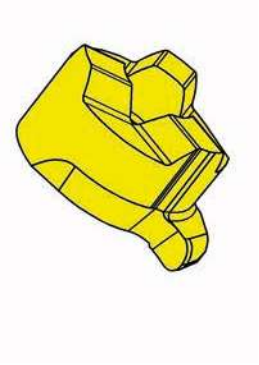
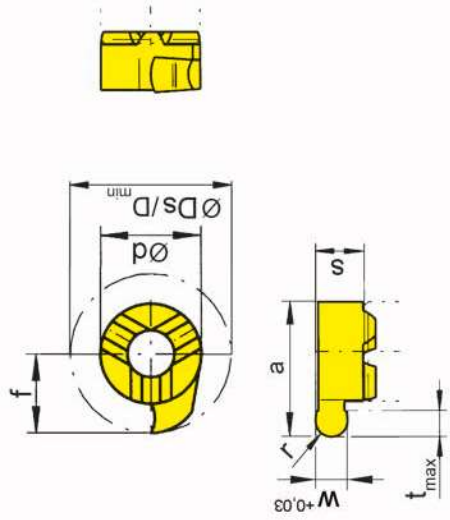
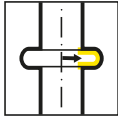
▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS11P.0150.1.D1	1,5	4,2	6,5	10	0,1	7	2,5	10,5	11P070R	▲	▲
RS11P.0200.1.D2	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070R	▲	▲
RS11P.0250.1.D2	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070R	▲	▲
LS11P.0150.1.D1	1,5	4,2	6,5	10	0,1	7	2,5	10,5	11P070L	Δ	Δ
LS11P.0200.1.D2	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	Δ	Δ
LS11P.0250.1.D2	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	Δ	Δ
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-





R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

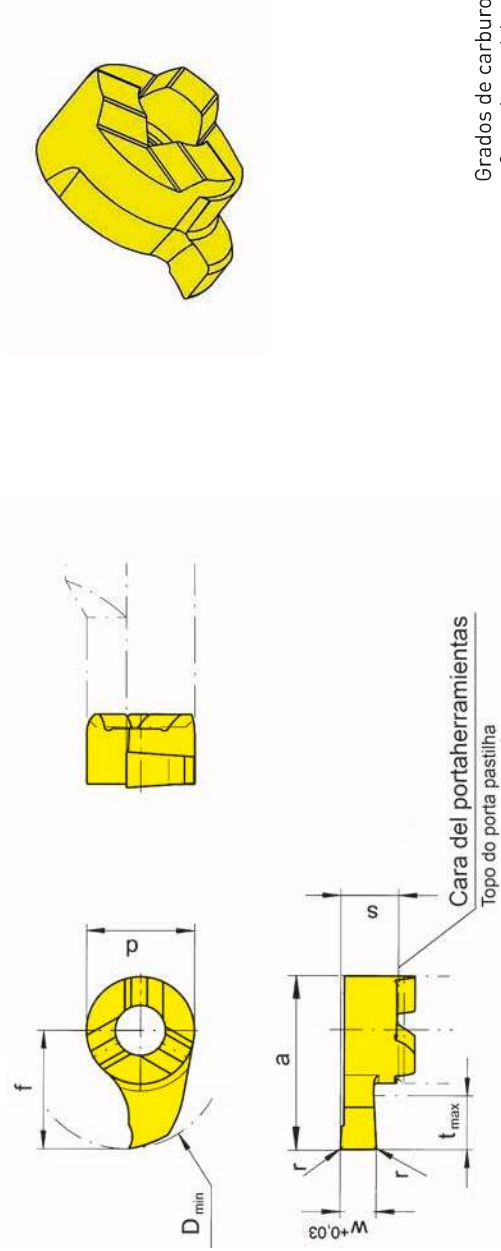
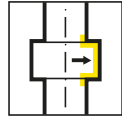
Referencia Número de encomenda	w	s	f	a	t _{max}	D _{min}	HIS	EG55
R11P.0005.2.10	1	4,2	7	11	3,5	11,5	11P070R	▲
R11P.0007.2.15	1,5	4,2	7	11	3,5	11,5	11P070R	▲
R11P.0009.2.18	1,8	4,2	7	11	3,5	11,5	11P070R	▲
R11P.0010.2.20	2	4,2	7	11	3,5	11,5	11P070R	▲
L11P.0005.2.10	1	4,2	7	11	3,5	11,5	11P070L	▲
L11P.0007.2.15	1,5	4,2	7	11	3,5	11,5	11P070L	▲
L11P.0009.2.18	1,8	4,2	7	11	3,5	11,5	11P070L	▲
L11P.0010.2.20	2	4,2	7	11	3,5	11,5	11P070L	▲
								P ●
								M ○
								K ○
								N -
								S -
								H -



Plaquita
Pastilha

11P

Ø ≥ 11,5 mm



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

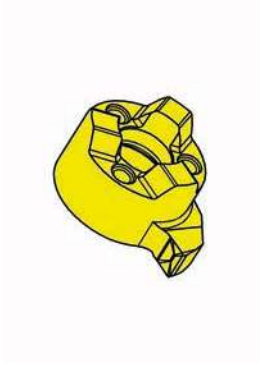
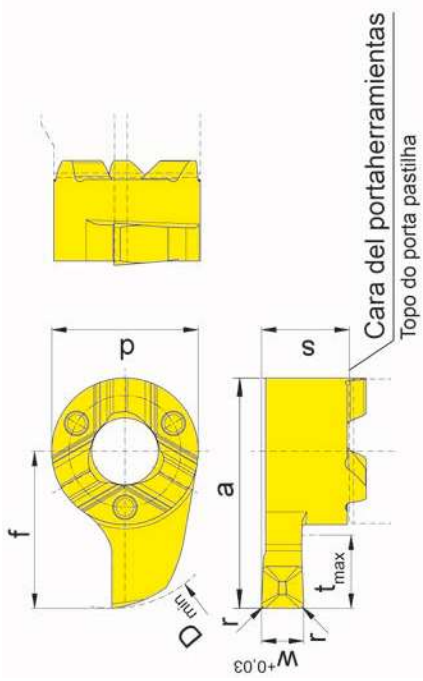
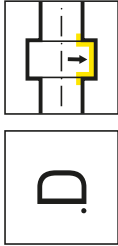
▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
R11P.0100.2.00	1	4,2	7,5	11	-	7	3,5	11,5	11P070R	▲	▲
R11P.0150.2.00	1,5	4,2	7,5	11	-	7	3,5	11,5	11P070R	▲	▲
R11P.0200.2.02	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070R	▲	▲
L11P.0100.2.00	1	4,2	7,5	11	-	7	3,5	11,5	11P070L	Δ	Δ
L11P.0150.2.00	1,5	4,2	7,5	11	-	7	3,5	11,5	11P070L	Δ	Δ
L11P.0200.2.02	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070L	▲	▲
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-





R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

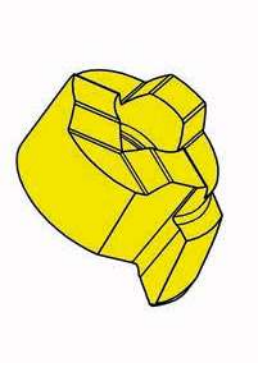
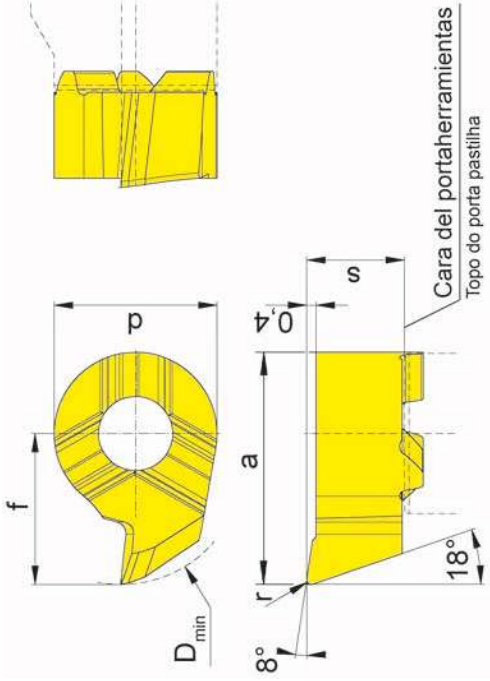
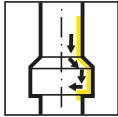
▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS11P.0150.2.D1	1,5	4,2	7,5	11	0,1	7	3,5	11,5	11P070R	▲	▲
RS11P.0200.2.D2	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070R	▲	▲
RS11P.0250.2.D2	2,5	4,2	7,5	11	0,2	7	3,5	11,5	11P070R	▲	▲
LS11P.0150.2.D1	1,5	4,2	7,5	11	0,1	7	3,5	11,5	11P070L	▲	▲
LS11P.0200.2.D2	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070L	▲	▲
LS11P.0250.2.D2	2,5	4,2	7,5	11	0,2	7	3,5	11,5	11P070L	▲	▲
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-





R = versión a derecha
R = versão à direita

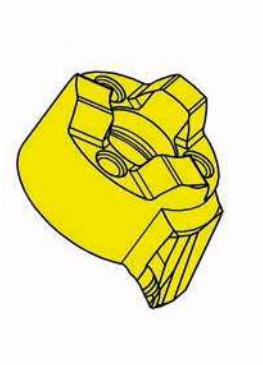
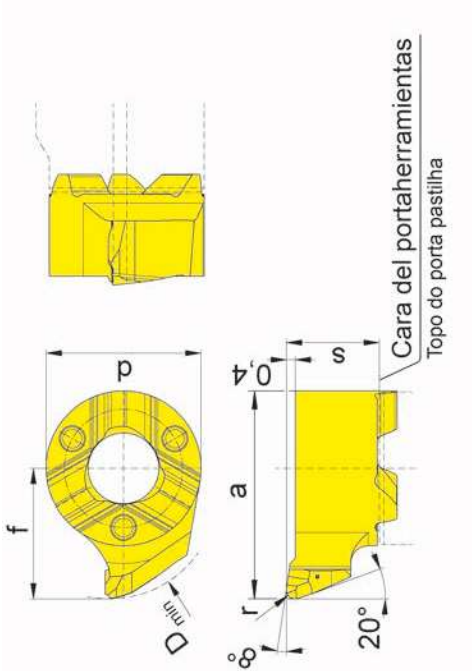
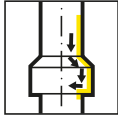
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS						
R11P.1865.1.02	4,2	6,5	10	0,2	7	10,5	11P070R	▲	▲	EG55	●	●	TH35
L11P.1865.1.02	4,2	6,5	10	0,2	7	10,5	11P070L	Δ	Δ	EG55	●	●	TH35
								P	●	●	●	●	●
								M	●	○	●	●	●
								K	●	○	●	●	●
								N	-	-	●	●	●
								S	-	-	●	●	●
								H	-	-	●	●	●





R = versión a derecha
R = versão à direita

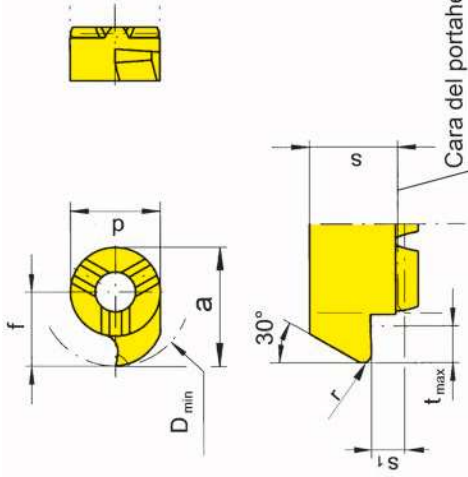
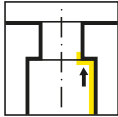
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG55	TH35
RS11P.1859.R2	4,2	5,9	9,4	0,2	7	9,8	11P070R	▲	▲
RS11P.1859.R4	4,2	5,9	9,4	0,4	7	9,8	11P070R	▲	▲
LS11P.1859.R2	4,2	5,9	9,4	0,2	7	9,8	11P070L	▲	▲
LS11P.1859.R4	4,2	5,9	9,4	0,4	7	9,8	11P070L	▲	▲
								P	•
								M	•
								K	•
								N	•
								S	•
								H	-





Cara del portaherramientas
Topo do porta pastilha

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro

▲ en stock Δ 4 semanas
en stock 4 semanas

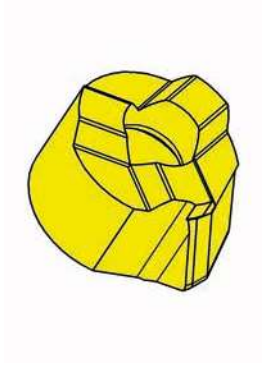
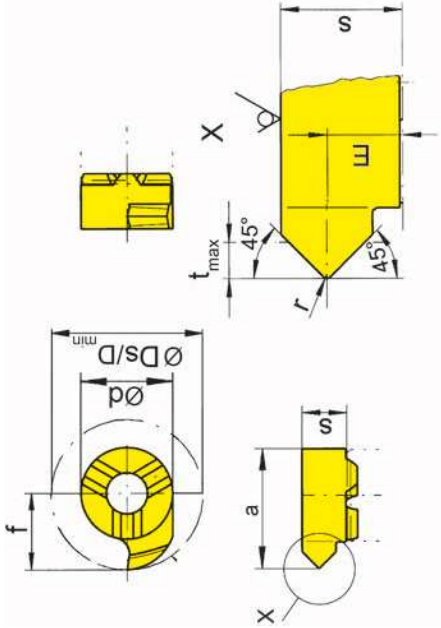
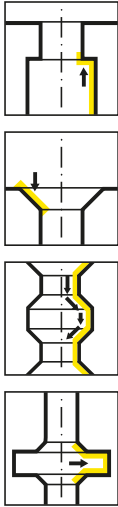
Referencia Número de encomenda	s	f	a	r	s ₁	d	t _{max}	D _{min}	HIS	FG55
R11P.3075.2.02	4,35	7,5	11	0,2	1,6	7	3,5	11,5	11P070R	▲
L11P.3075.2.02	4,35	7,5	11	0,2	1,6	7	3,5	11,5	11P070L	▲
										P ● M ○ K ○ N - S - H -



Plaquita
Pastilha

11P

$\varnothing \geq 10,5 \text{ mm}$



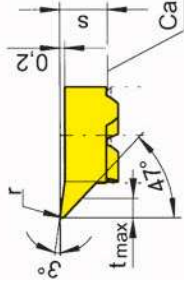
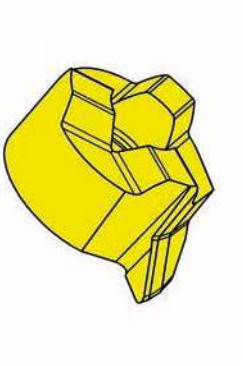
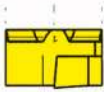
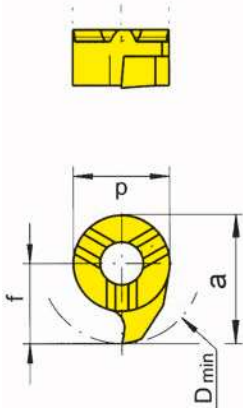
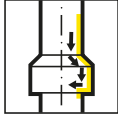
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	E	f	r	d	D _{min}	α	t _{max}	HIS	EG55
R11P.4545.1.02	2,2	6,5	0,2	7	10,5	45°	1,7	11P070R	▲
L11P.4545.1.02	2,2	6,5	0,2	7	10,5	45°	1,7	11P070L	▲
									P ● M ○ K ○ N - S - H -





Cara del portaherramientas
Topo do porta pastilha

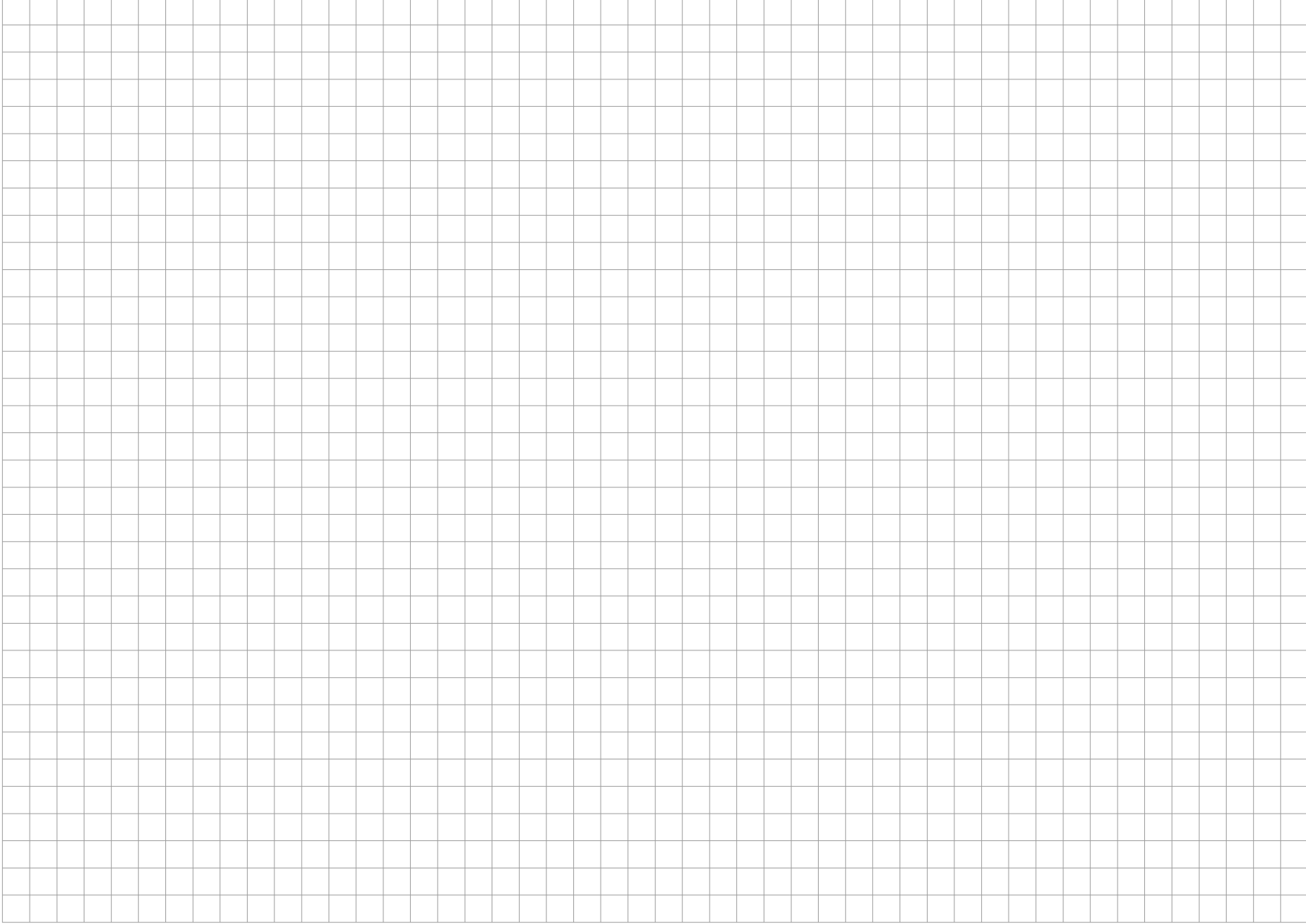
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55
R11P.4775.2.02	4,2	7,5	11	0,2	7	3,5	11,5	11P070R	▲
L11P.4775.2.02	4,2	7,5	11	0,2	7	3,5	11,5	11P070L	▲
									P ● M ○ K ○ N - S - H -





114

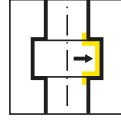


**Portaherramientas
y Plaquita**

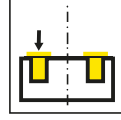
**Porta pastilhas
e Pastilha**

J

Portaherramientas
Porta pastilhas
B114/WFB.114/BA114/
HC114

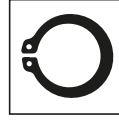


Pág./Pág.
290-292

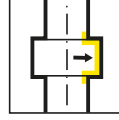


Pág./Pág.
293-294

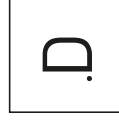
Plaquita
Pastilha
114/S114



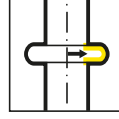
Pág./Pág.
295-296



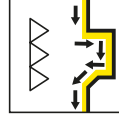
Pág./Pág.
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Pág./Pág.
298, 300



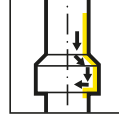
Pág./Pág.
301



Pág./Pág.
302



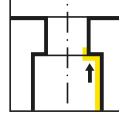
Pág./Pág.
303



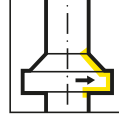
Pág./Pág.
304, 307



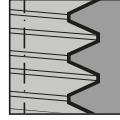
Pág./Pág.
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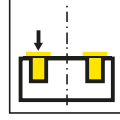
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308



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309-313



Pág./Pág.
314-317

Ø de agujero Ø de furo	Linea de producto / Linha de produto											
	105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						•
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										{ • }		
≥ 18,0												•
Profundidad de ranura Profundidade de ranhura	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado												
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•		•		•	•	
Roscado Rosqueamento	•	•			•	•		•		•	•	
Achaflanado Chanfrado	•	•			•	•		•		•	•	
Ranurado frontal Ranhurado frontal	•	•	•							•		
Torneado duro Torneamento duro	•											

Mecanizado / Mecanizado

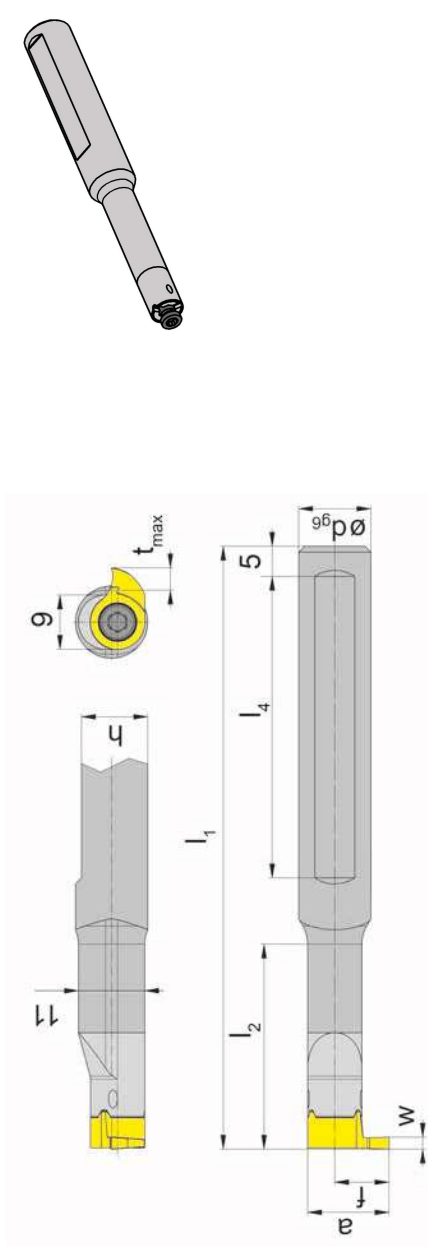
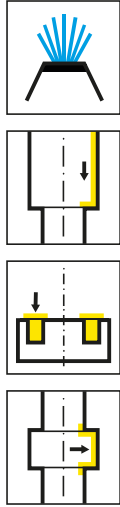


Foto = versión corte a derecha
Foto = versão do corte a direita

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	HWS
B114.0012.00	12	75	19,5	11	40	311090R • 311090L
B114.0012.01	12	100	34	11	50	311090R • 311090L
B114.0012.02	12	110	45	11	50	311090R • 311090L
B114.0012.03	12	130	64	11	50	311090R • 311090L
B114.0016.00	16	80	19,5	15	40	311090R • 311090L
B114.0016.01	16	100	34	15	50	311090R • 311090L
B114.0016.02	16	110	45	15	50	311090R • 311090L
B114.0016.03	16	130	64	15	50	311090R • 311090L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{máx}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
B114...	4.12T15EP	T15PQ

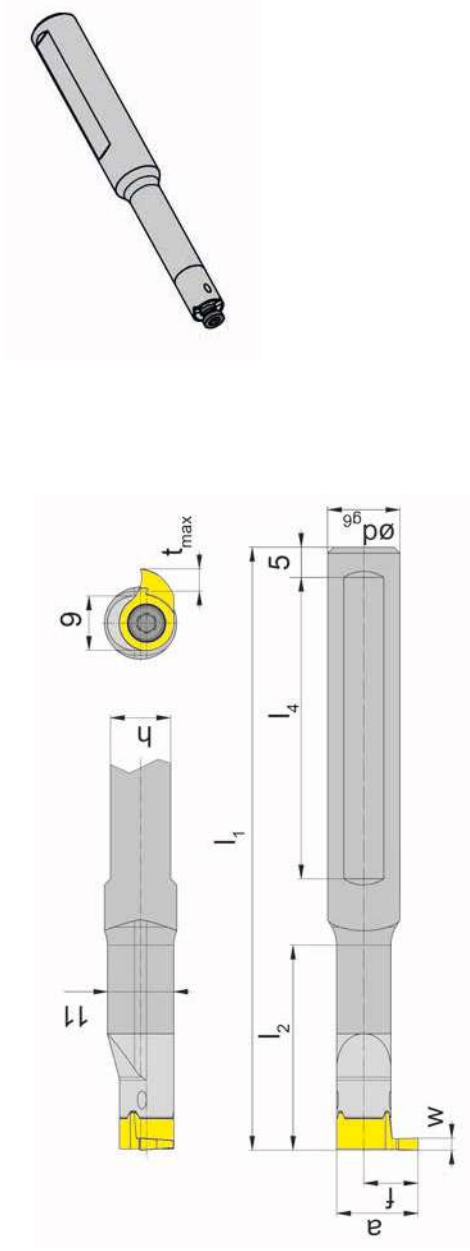
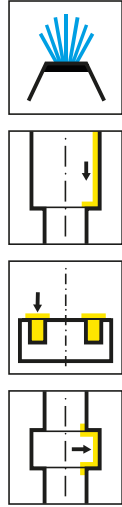


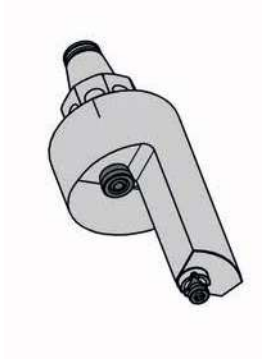
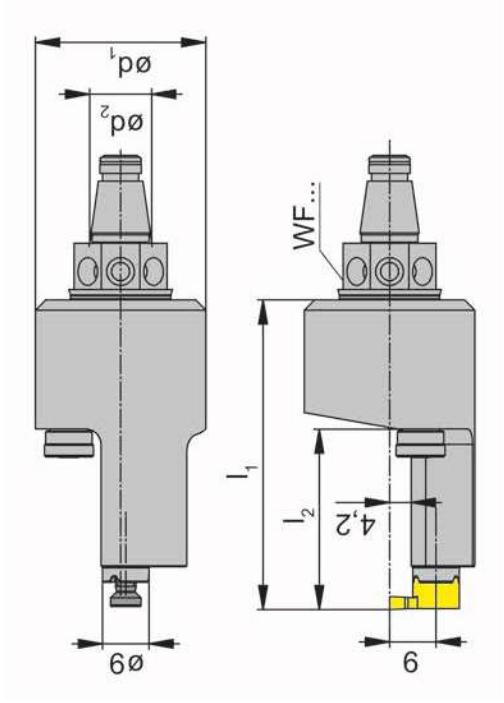
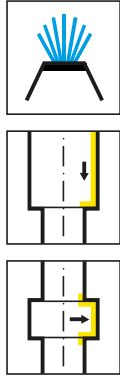
Foto = versión corte a derecha
Foto = versão do corte a direita

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	HWS
B114.0012.2.00	12	75	19,5	11	40	311090R • 311090L
B114.0012.2.01	12	100	34	11	50	311090R • 311090L
B114.0012.2.02	12	110	45	11	50	311090R • 311090L
B114.0012.2.03	12	130	64	11	50	311090R • 311090L
B114.0016.2.00	16	80	19,5	14	40	311090R • 311090L
B114.0016.2.01	16	100	34	14	50	311090R • 311090L
B114.0016.2.02	16	110	45	14	50	311090R • 311090L
B114.0016.2.03	16	130	64	14	50	311090R • 311090L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{máx}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
B114...	4.12T15EP	T15PQ



Referencia	d ₁	l ₁	d ₂	l ₂	HWS	HMS
Número de encomenda						
WFB.2H0.114	33	60	12	35	311090R • 311090L	WFB
WFB.3H0.114	50	80	20	32	311090R • 311090L	WFB

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Boquilla para rociado del refrigerante Bocal de pulverizador do refrigerante	Llave TORX PLUS® Chave TORX PLUS®
WFB.2H0.114	4.12T15EP	020.0806.3116	T15PQ
WFB.3H0.114			

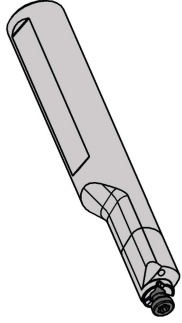
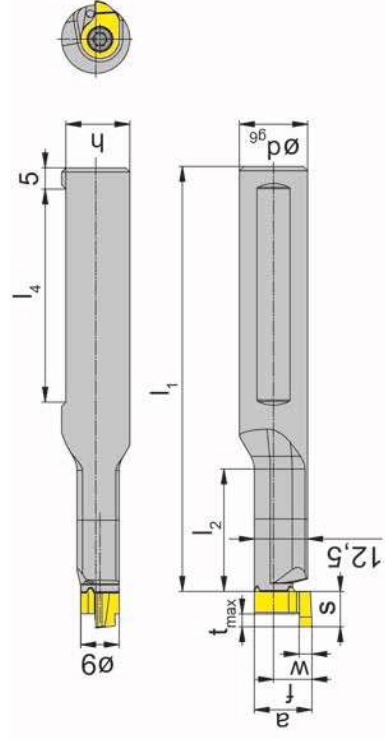
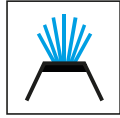
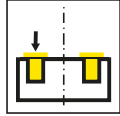


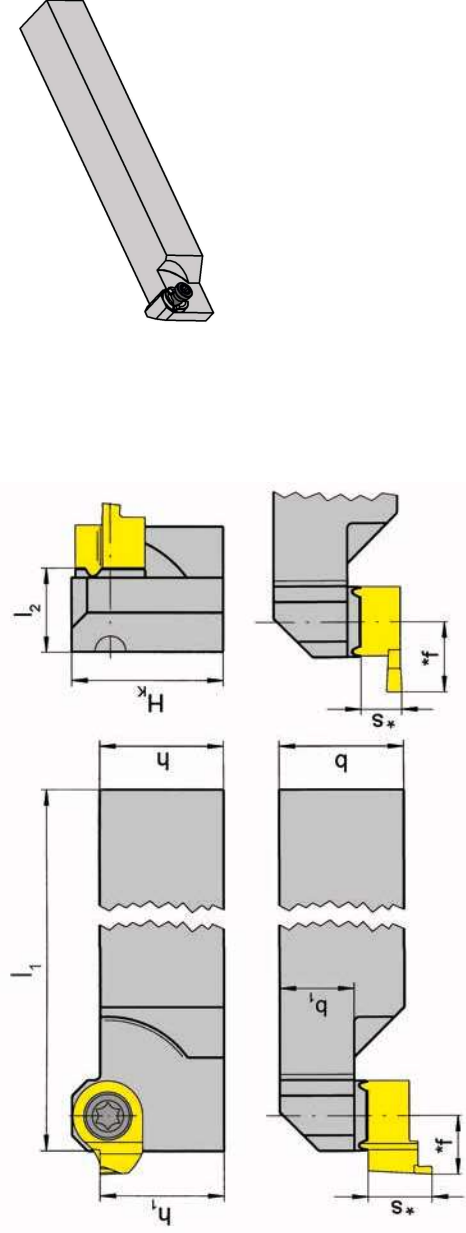
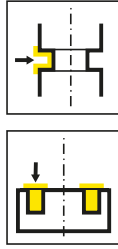
Foto = versão corte a direita
Foto = versão do corte a direita

Referencia	d	l ₁	l ₂	h	L _z	HWS
Número de encomenda						
RBA114.0016.01	16	99,7	28,7	15	50	311090R • 311090L
RBA114.0016.02	16	109,7	39,7	15	50	311090R • 311090L
LBA114.0016.01	16	99,7	28,7	15	50	311090R • 311090L
LBA114.0016.02	16	109,7	39,7	15	50	311090R • 311090L

w, a, s, tmax, f vea las plaquitas
w, a, s, tmax, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LBA114...	4.12T15EP	T15PQ



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

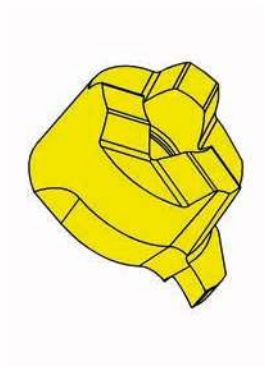
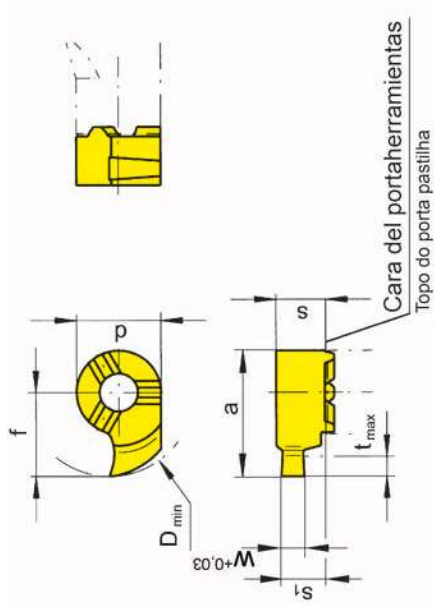
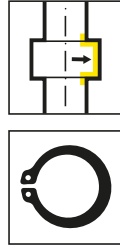
Referencia Número de encomenda	h	b	l ₁	l ₂	h ₁	b ₁	H _K	HWS
RHC114.1212.01	12	12	122	11,2	12	9,5	15,6	311090R • 311090L
RHC114.1616.01	16	16	122	11,2	16	9,5	19,6	311090R • 311090L
RHC114.2020.01	20	20	122	15,2	20	13,5	23,6	311090R • 311090L
RHC114.2525.01	25	25	147	20,2	25	18,5	28,6	311090R • 311090L
LHC114.1212.01	12	12	122	11,2	12	9,5	15,6	311090R • 311090L
LHC114.1616.01	16	16	122	11,2	16	9,5	19,6	311090R • 311090L
LHC114.2020.01	20	20	122	15,2	20	13,5	23,6	311090R • 311090L
LHC114.2525.01	25	25	147	20,2	25	18,5	28,6	311090R • 311090L

* vea las plaquitas

* vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LHC114...	4.12T15EP	T15PQ

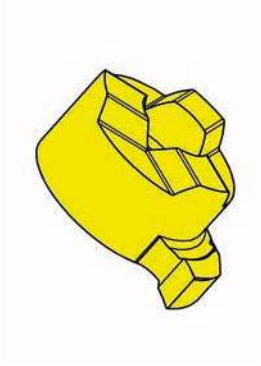
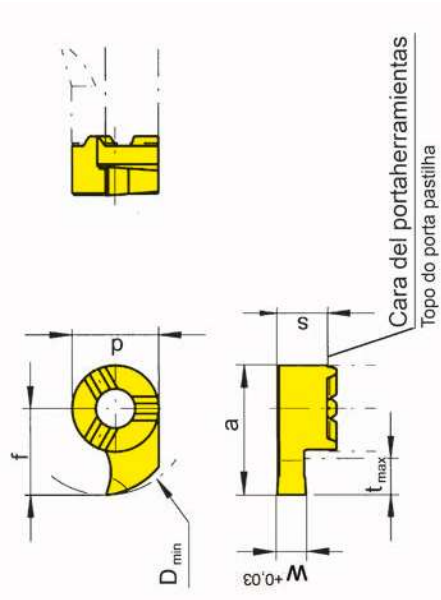
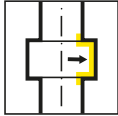
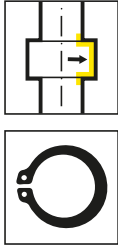


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock Δ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	Nw	s	f	a	s ₁	d	t _{max}	D _{min}	HIS	EG55	TN35
R114.0070.00	0,74	0,7	5,5	9	13,5	5,3	9	1,2	14	311090R	▲	▲
R114.0080.00	0,84	0,8	5,5	9	13,5	5,3	9	1,3	14	311090R	▲	▲
R114.0090.00	0,94	0,9	5,5	9	13,5	5,3	9	1,5	14	311090R	▲	▲
L114.0070.00	0,74	0,7	5,5	9	13,5	5,3	9	1,2	14	311090L	Δ	▲
L114.0080.00	0,84	0,8	5,5	9	13,5	5,3	9	1,3	14	311090L	▲	▲
L114.0090.00	0,94	0,9	5,5	9	13,5	5,3	9	1,5	14	311090L	▲	▲
Profundidad de corte limitada Profundidade de corte limitada											P	●
											M	●
											K	●
											N	●
											S	●
											H	-



R = versión a derecha
R = versão à direita

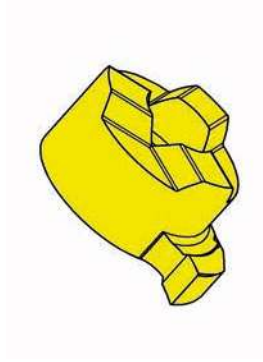
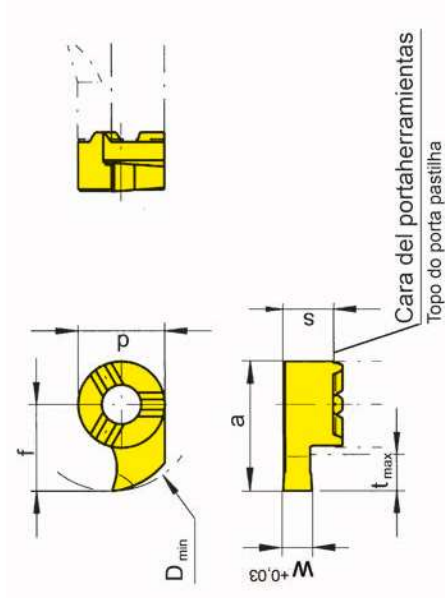
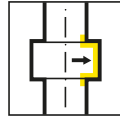
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	Nw	s	f	a	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H	EG55	TH35	TN35
R114.0110.00	1,19	1,1	5,3	9	13,5	9	4	14	311090R	●	●	●	●	●	-	▲	▲	▲
R114.0130.00	1,39	1,3	5,3	9	13,5	9	4	14	311090R	●	●	●	●	●	-	▲	▲	▲
R114.0160.00	1,69	1,6	5,3	9	13,5	9	4	14	311090R	●	●	●	●	●	-	▲	▲	▲
L114.0110.00	1,19	1,1	5,3	9	13,5	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0130.00	1,39	1,3	5,3	9	13,5	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0160.00	1,69	1,6	5,3	9	13,5	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲



R = versión a derecha
R = versão à direita

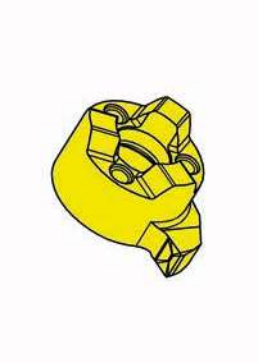
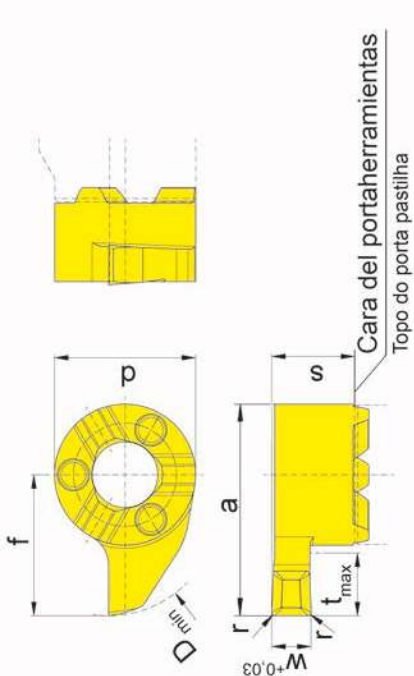
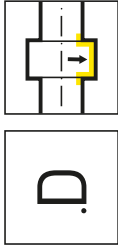
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H	MG12	EG55	TH35	TN35
R114.0150.00	1,5	5,3	9	13,5	9	4	14	311090R	●	●	●	●	●	-	▲	▲	▲	▲
R114.0200.00	2	5,3	9	13,5	9	4	14	311090R	●	●	●	●	●	-	▲	▲	▲	▲
R114.0250.00	2,5	5,3	9	13,5	9	4	14	311090R	●	●	●	●	●	-	▲	▲	▲	▲
R114.0300.00	3	5,3	9	13,5	9	4	14	311090R	●	●	●	●	●	-	▲	▲	▲	▲
L114.0150.00	1,5	5,3	9	13,5	9	4	14	311090L	●	●	●	●	●	-	▲	▲	▲	▲
L114.0200.00	2	5,3	9	13,5	9	4	14	311090L	●	●	●	●	●	-	▲	▲	▲	▲
L114.0250.00	2,5	5,3	9	13,5	9	4	14	311090L	●	●	●	●	●	-	▲	▲	▲	▲
L114.0300.00	3	5,3	9	13,5	9	4	14	311090L	●	●	●	●	●	-	▲	▲	▲	▲



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

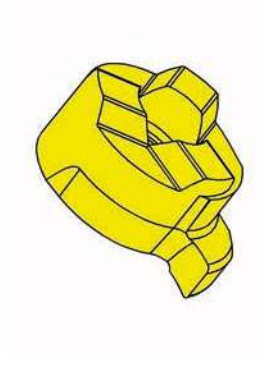
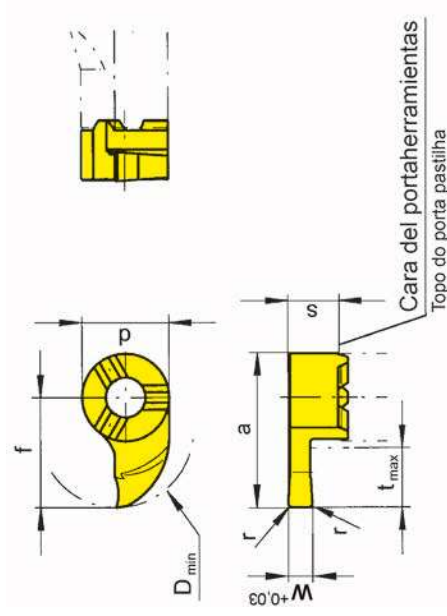
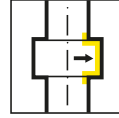
Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS				
RS114.0200.D2	2	5,3	9	13,5	0,2	9	4	14	311090R			▲	▲
RS114.0250.D2	2,5	5,3	9	13,5	0,2	9	4	14	311090R			▲	▲
RS114.0300.D2	3	5,3	9	13,5	0,2	9	4	14	311090R			▲	▲
LS114.0200.D2	2	5,3	9	13,5	0,2	9	4	14	311090L			▲	▲
LS114.0250.D2	2,5	5,3	9	13,5	0,2	9	4	14	311090L			▲	▲
LS114.0300.D2	3	5,3	9	13,5	0,2	9	4	14	311090L			▲	▲
										P	●	●	▲
										M	○	●	▲
										K	○	●	▲
										N	-	●	●
										S	-	●	●
										H	-	-	-
												TF45	▲
												TH35	▲
												TN35	▲

Plaquil Pastilha

14

$\varnothing \geq 16,5 \text{ mm}$

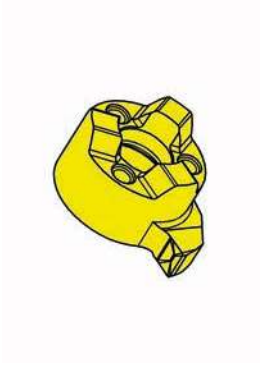
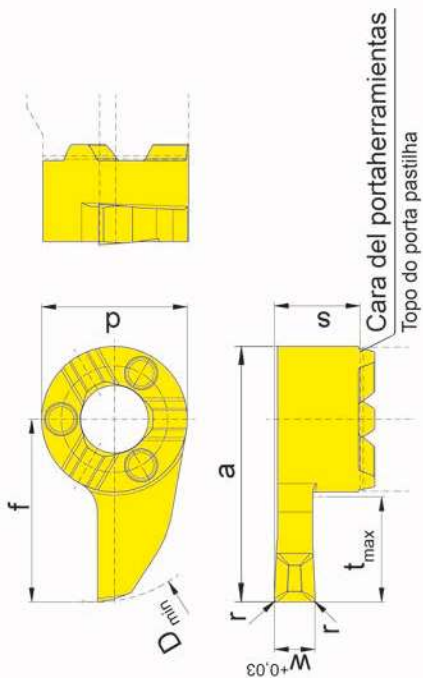
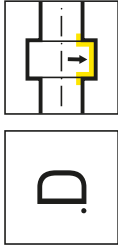


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

[illegible]

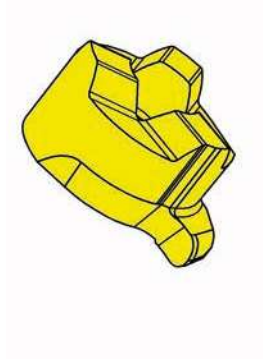
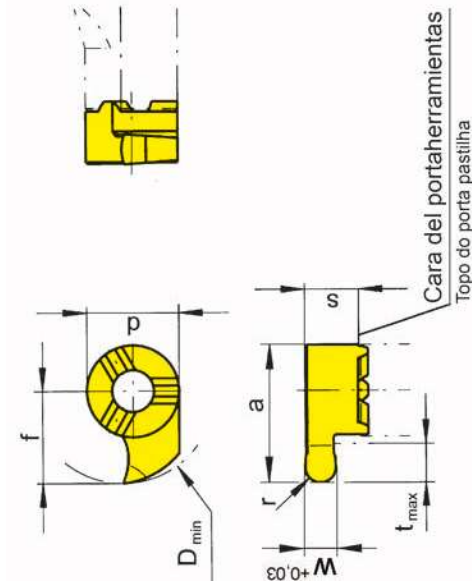
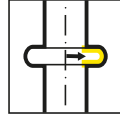


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS114.0200.1.D2	2	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲
RS114.0250.1.D2	2,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲
RS114.0300.1.D2	3	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲
LS114.0200.1.D2	2	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲
LS114.0250.1.D2	2,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲
LS114.0300.1.D2	3	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-



R = versión a derecha
R = versão à direita

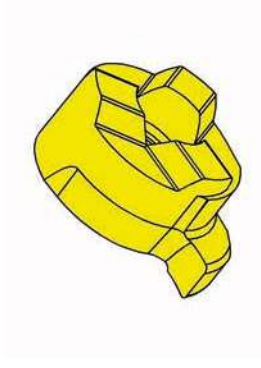
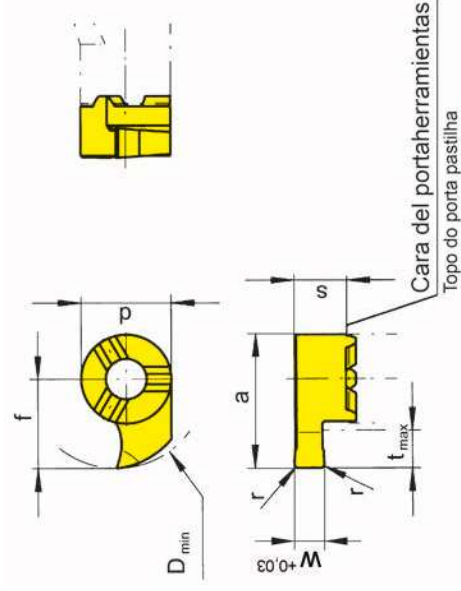
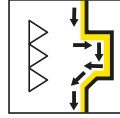
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H	EG55	TH35	TI25	TN35
R114.0004.08	0,8	5,3	9	13,5	0,4	9	4	14	311090R	●	●	●	●	●	●	▲	▲	▲	▲
R114.0006.12	1,2	5,3	9	13,5	0,6	9	4	14	311090R	●	●	●	●	●	●	▲	▲	▲	▲
R114.0009.18	1,8	5,3	9	13,5	0,9	9	4	14	311090R	●	●	●	●	●	●	▲	▲	▲	▲
R114.0010.20	2	5,3	9	13,5	1	9	4	14	311090R	●	●	●	●	●	●	▲	▲	▲	▲
R114.0011.22	2,2	5,3	9	13,5	1,1	9	4	14	311090R	●	●	●	●	●	●	▲	▲	▲	▲
R114.0015.30	3	5,3	9	13,5	1,5	9	4	14	311090R	●	●	●	●	●	●	▲	▲	▲	▲
R114.0020.40	4	5,3	9	13,5	2	9	4	14	311090R	●	●	●	●	●	●	▲	▲	▲	▲
L114.0004.08	0,8	5,3	9	13,5	0,4	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0006.12	1,2	5,3	9	13,5	0,6	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0009.18	1,8	5,3	9	13,5	0,9	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0010.20	2	5,3	9	13,5	1	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0011.22	2,2	5,3	9	13,5	1,1	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0015.30	3	5,3	9	13,5	1,5	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.0020.40	4	5,3	9	13,5	2	9	4	14	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
										●	●	●	●	●	●	▲	▲	▲	▲



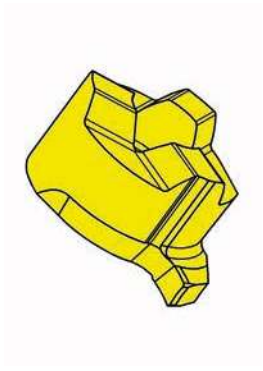
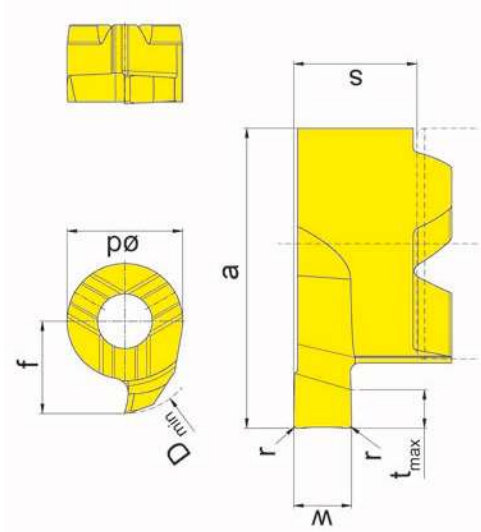
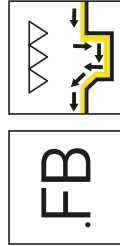
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo	
Grados de metal duro	
Δ 4 semanas	
4 semanas	

[illegible]



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
▲ en stock
Δ 4 semanas
Δ 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	Grado de carburo Graus de metal duro
R114.FB10.01	1	5,3	9	13,5	0,1	9	4	14	311090R	▲
R114.FB15.01	1,5	5,3	9	13,5	0,1	9	4	14	311090R	▲
L114.FB10.01	1	5,3	9	13,5	0,1	9	4	14	311090L	▲
L114.FB15.01	1,5	5,3	9	13,5	0,1	9	4	14	311090L	▲
										P ●
										M ●
										K ○
										N -
										S -
										H -

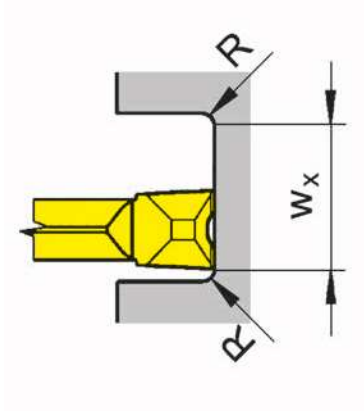
Cálculo del ancho de ranura w_x más pequeño posible
Cálculo da menor largura possível da ranhura w_x

Ejemplo R114.FB10.01
Exemplo

$w_x = 2 \times$ Ancho de plaquita $w - 2 \times$ Plaquita de radio de esquina r
 $2 \times$ Largura da pastilha $w - 2 \times$ Raio do canto r da pastilha

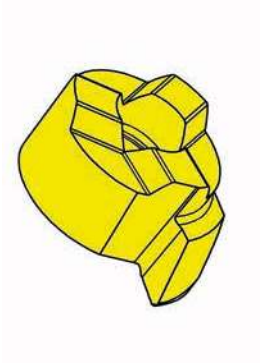
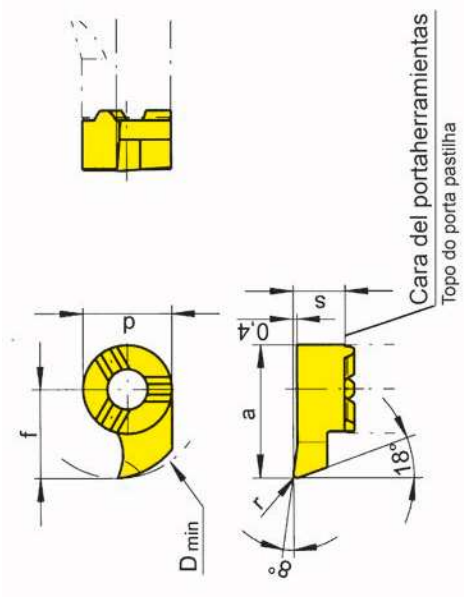
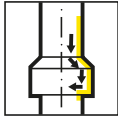
$w_x = 2 \times 1 \text{ mm} - 2 \times 0,1 \text{ mm}$

$w_x = 1,8 \text{ mm}$



Flujo del proceso
Fluxo de processamento





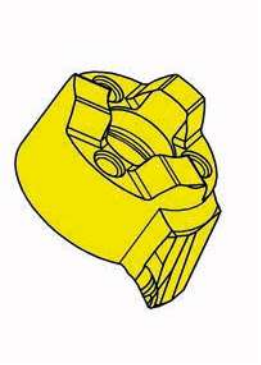
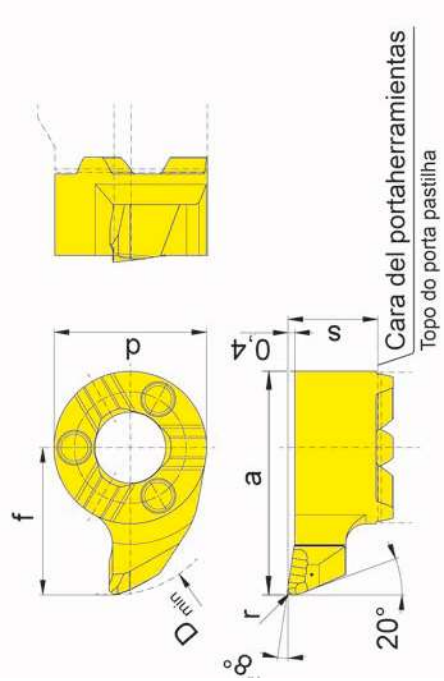
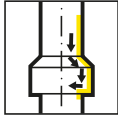
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS		MG12	EG55	TH35	TI25	TN35
R114.1890.02	5,3	8,7	13,2	0,2	9	13,8	311090R		▲	▲	●	Δ	▲
L114.1890.02	5,3	8,7	13,2	0,2	9	13,8	311090L		▲	▲	●	Δ	▲
								P	●	●	●	●	●
								M	-	○	●	●	●
								K	-	○	●	●	●
								N	-	-	●	●	●
								S	-	-	●	●	●
								H	-	-	-	-	-



R = versión a derecha
R = versão à direita

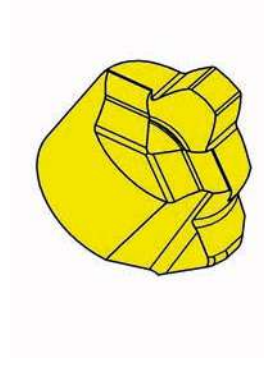
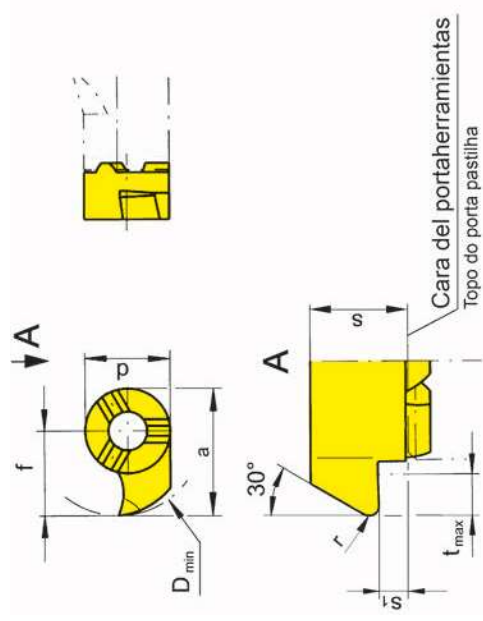
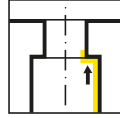
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG55	TH35
RS114.1890.R2	5,3	8,7	13,2	0,2	9	13,8	311090R	▲	▲
RS114.1890.R4	5,3	8,7	13,2	0,4	9	13,8	311090R	▲	▲
LS114.1890.R2	5,3	8,7	13,2	0,2	9	13,8	311090L	▲	▲
LS114.1890.R4	5,3	8,7	13,2	0,4	9	13,8	311090L	▲	▲
								P	•
								M	•
								K	•
								N	•
								S	•
								H	-



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

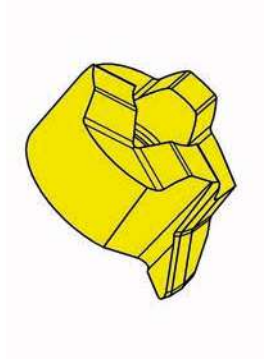
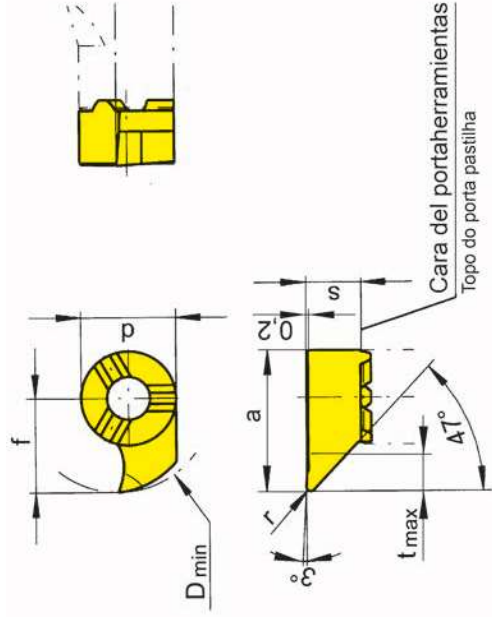
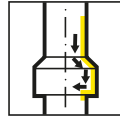
Grados de carburo	
Graus de metal duro	
k	Δ 4 semanas
k	4 semanas

Referencia Número de encomenda	s	f	r	s ₁	d	t _{max}	D _{min}	HIS				
R114.3090.02	5,5	8,7	0,2	2,4	9	3,5	13,8	311090R		E655	TH35	TN35
L114.3090.02	5,5	8,7	0,2	2,4	9	3,5	13,8	311090L	P	●	●	●
									M	○	●	●
									K	○	●	●
									N	-	●	●
									S	-	●	●
									H	-	-	-

Plaquita
Pastilha

114

Ø ≥ 13,8 mm



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

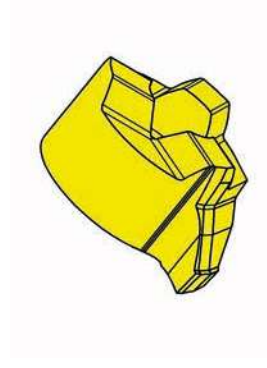
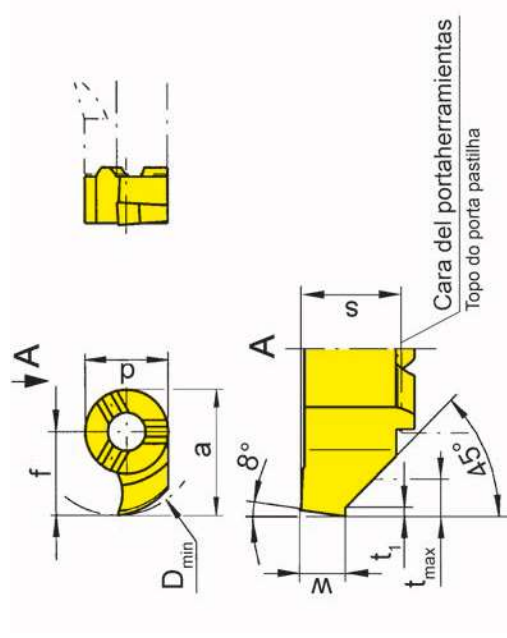
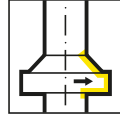
▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H	EG55	TH35	TI25	TN35
R114.4787.02	5,3	8,7	13,2	0,2	9	3	13,8	311090R	●	●	●	●	●	●	▲	▲	▲	▲
R114.4787.04	5,3	8,7	13,2	0,4	9	3	13,8	311090R	○	●	●	●	●	●	▲	▲	▲	▲
R114.4710.02	5,3	11	15,5	0,2	9	5	16	311090R	●	●	●	●	●	●	▲	▲	▲	▲
L114.4787.02	5,3	8,7	13,2	0,2	9	3	13,8	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.4787.04	5,3	8,7	13,2	0,4	9	3	13,8	311090L	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
L114.4710.02	5,3	11	15,5	0,2	9	5	16	311090L	●	●	●	●	●	●	▲	▲	▲	▲



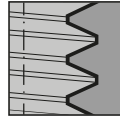


R = versión a derecha
R = versão à direita

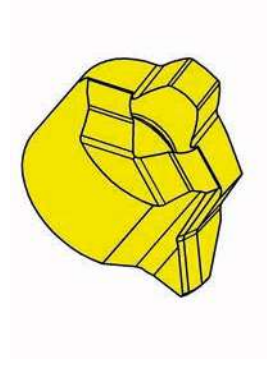
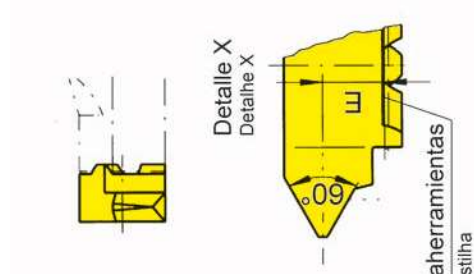
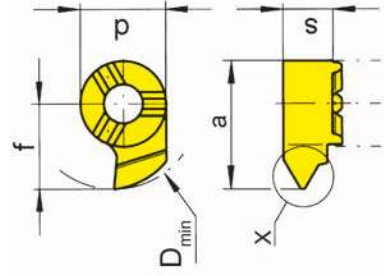
L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

[illegible]



09



Cara del portaher
Topo do porta pastilha

R = versión a derecha
R = versão à direita

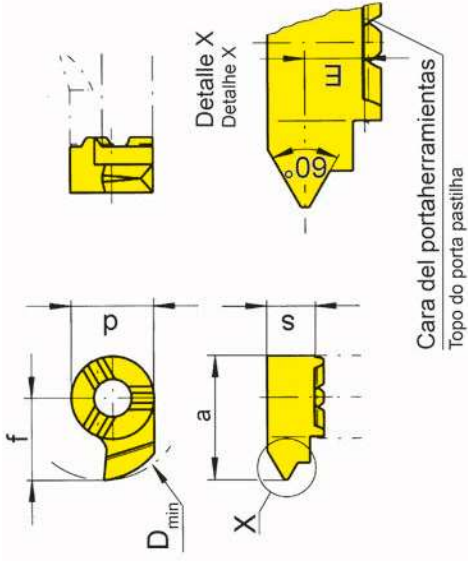
L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

[illegible]



60°



Cara del portaherramientas
Topo do porta pastilha

Grados de carburo
Graus de metal duro

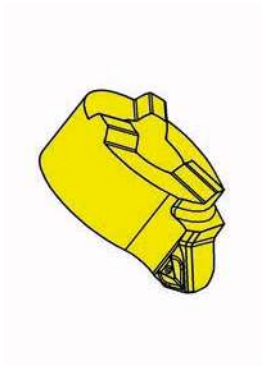
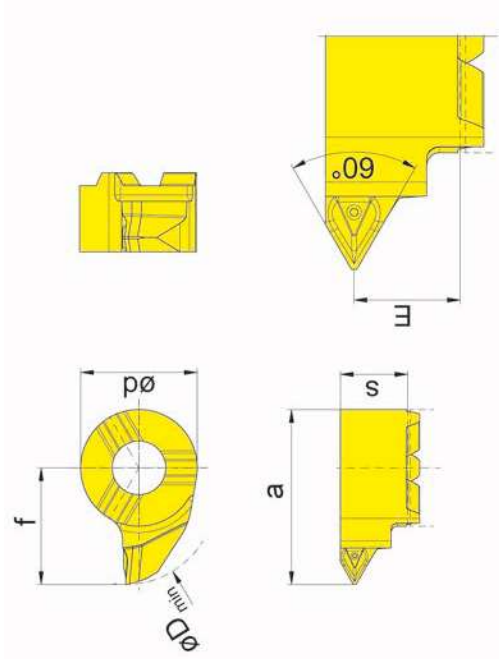
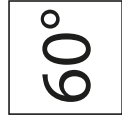
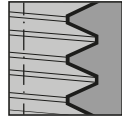
▲ en stock
en stock

Δ 4 semanas
4 semanas

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	HIS	EG55	TN35
R114.0510.02	1	4,7	9	13,5	9	5,5	14	311090R	▲	▲
R114.0815.02	1,5	4,5	9	13,5	9	5,5	14	311090R	▲	▲
R114.1020.02	2	4,2	9	13,5	9	5,5	14	311090R	▲	▲
R114.1325.02	2,5	4,2	9	13,5	9	5,5	14	311090R	▲	▲
L114.0510.02	1	4,7	9	13,5	9	5,5	14	311090L	Δ	▲
L114.0815.02	1,5	4,5	9	13,5	9	5,5	14	311090L	Δ	▲
L114.1020.02	2	4,2	9	13,5	9	5,5	14	311090L	Δ	▲
L114.1325.02	2,5	4,2	9	13,5	9	5,5	14	311090L	Δ	▲
									P	●
									M	●
									K	●
									N	●
									S	●
									H	-

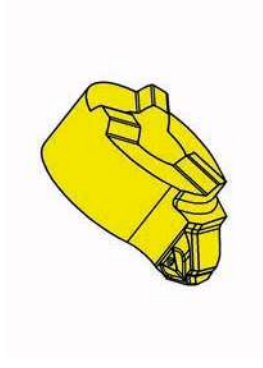
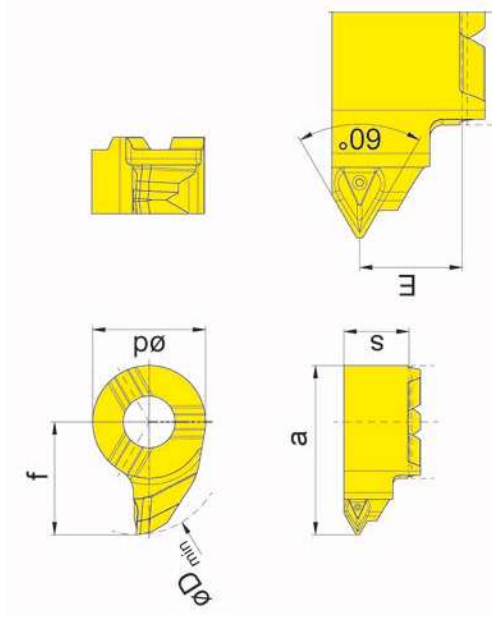
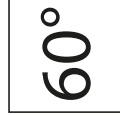
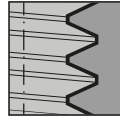


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	P	P _{max}	E	f	a	d	s	D _{min}	HIS	FG55
RS1114.0205.GM1	0,5	0,75	4,1	9	13,5	9	5,2	14	311090R	▲
RS1114.0510.GM1	1	1,25	4,1	9	13,5	9	5,2	14	311090R	▲
RS1114.0815.GM1	1,5	1,75	4,1	9	13,5	9	5,2	14	311090R	▲
RS1114.1020.GM1	2	2	4,1	9	13,5	9	5,2	14	311090R	▲
RS1114.1325.GM1	2,5	2,5	4,1	9	13,5	9	5,2	14	311090R	▲
LS1114.0205.GM1	0,5	0,75	4,1	9	13,5	9	5,2	14	311090L	▲
LS1114.0510.GM1	1	1,25	4,1	9	13,5	9	5,2	14	311090L	▲
LS1114.0815.GM1	1,5	1,75	4,1	9	13,5	9	5,2	14	311090L	▲
LS1114.1020.GM1	2	2	4,1	9	13,5	9	5,2	14	311090L	▲
LS1114.1325.GM1	2,5	2,5	4,1	9	13,5	9	5,2	14	311090L	▲
	P	●	P	●	P	●	P	●	P	●
	M	○	M	○	M	○	M	○	M	○
	K	○	K	○	K	○	K	○	K	○
	N	-	N	-	N	-	N	-	N	-
	S	-	S	-	S	-	S	-	S	-
	H	-	H	-	H	-	H	-	H	-

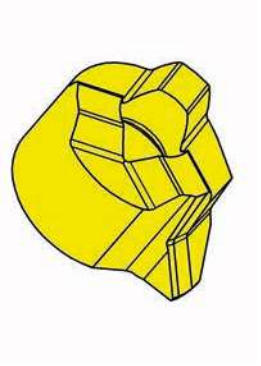
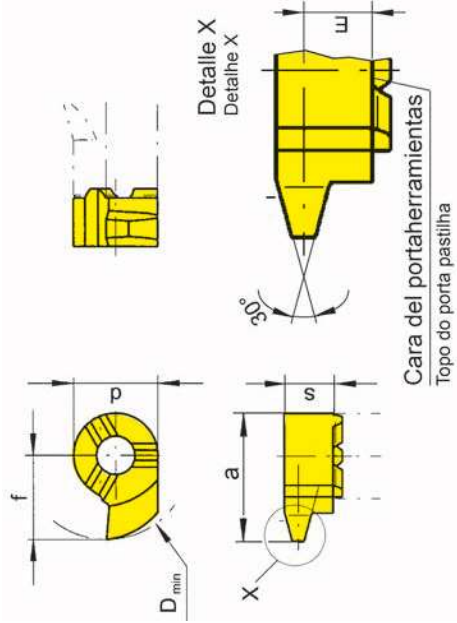


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

Referencia	P	E	f	a	d	s	D _{min}	HIS
RS114,0510.GM2	1	4,1	9	13,5	9	5,2	14	311090R
RS114,0815.GM2	1,5	4,1	9	13,5	9	5,2	14	311090R
RS114,1020.GM2	2	4,1	9	13,5	9	5,2	14	311090R
RS114,1325.GM2	2,5	4,1	9	13,5	9	5,2	14	311090R
LS114,0510.GM2	1	4,1	9	13,5	9	5,2	14	311090L
LS114,0815.GM2	1,5	4,1	9	13,5	9	5,2	14	311090L
LS114,1020.GM2	2	4,1	9	13,5	9	5,2	14	311090L
LS114,1325.GM2	2,5	4,1	9	13,5	9	5,2	14	311090L



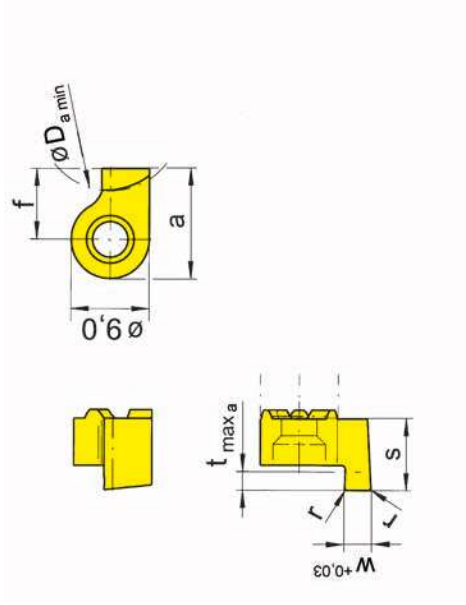
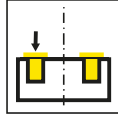
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	HIS	EG55	TN35
R114.1730.01	3	4,3	9	13,5	9	5,5	14	311090R	▲	Δ
R114.2240.01	4	4	9	13,5	9	5,5	14	311090R	▲	▲
R114.2750.01	5	3,55	9	13,5	9	5,5	14	311090R	▲	▲
L114.2240.01	4	4	9	13,5	9	5,5	14	311090L	Δ	▲
L114.2750.01	5	3,55	9	13,5	9	5,5	14	311090L	Δ	▲
									P	•
									M	•
									K	•
									N	•
									S	•
									H	-





R = versión a derecha
R = versão à direita

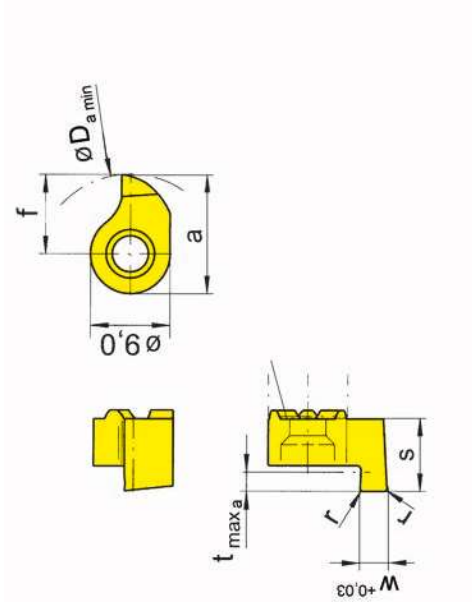
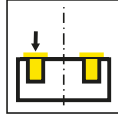
L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	t _{max a}	D _{a min}	HIS	EG55	TN35
R114.1205.00	0,5	8,3	7,5	12	-	1	12	311090R	▲	▲
R114.1210.00	1	8,3	7,5	12	-	1,5	12	311090R	▲	▲
R114.1215.00	1,5	8,3	7,5	12	0,2	2,5	12	311090R	▲	▲
R114.1220.00	2	8,3	7,5	12	0,2	3	12	311090R	▲	▲
R114.1225.00	2,5	8,3	7,5	12	0,2	3	12	311090R	▲	▲
R114.1230.00	3	8,3	7,5	12	0,2	3	12	311090R	▲	▲
R114.1220.5.00	2	10,8	7,5	12	0,2	5	12	311090R	▲	▲
R114.1225.5.00	2,5	10,8	7,5	12	0,2	5	12	311090R	▲	▲
R114.1230.6.00	3	11,8	7,5	12	0,2	6	12	311090R	▲	▲
L114.1205.00	0,5	8,3	7,5	12	-	1	12	311090L	▲	▲
L114.1210.00	1	8,3	7,5	12	-	1,5	12	311090L	▲	▲
L114.1215.00	1,5	8,3	7,5	12	0,2	2,5	12	311090L	▲	▲
L114.1220.00	2	8,3	7,5	12	0,2	3	12	311090L	▲	▲
L114.1225.00	2,5	8,3	7,5	12	0,2	3	12	311090L	▲	▲
L114.1230.00	3	8,3	7,5	12	0,2	3	12	311090L	▲	▲
L114.1220.5.00	2	10,8	7,5	12	0,2	5	12	311090L	▲	▲
L114.1225.5.00	2,5	10,8	7,5	12	0,2	5	12	311090L	▲	▲
L114.1230.6.00	3	11,8	7,5	12	0,2	6	12	311090L	▲	▲
P									P	●
M									M	○
K									K	●
N									N	●
S									S	●
H									H	-

¡Mecanizado **DETRÁS** del centro de giro!
Mecanizado ATRÁS do centro do giro!

R = giro anti horario! Empleando la plaquita de ranurado frontal tipo 114 en portaherramientas tipo B114 las dimensiones l1 y l2 serán aumentadas en 3,0 / 5,5 o 6,5 mm.
R = Volta anti-relógio! Usando a pastilha de ranhurar frontal tipo 114 em porta pastilha tipo B114 as dimensões l1 e l2 serão aumentadas em 3,0 / 5,5 ou 6,5 mm.



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

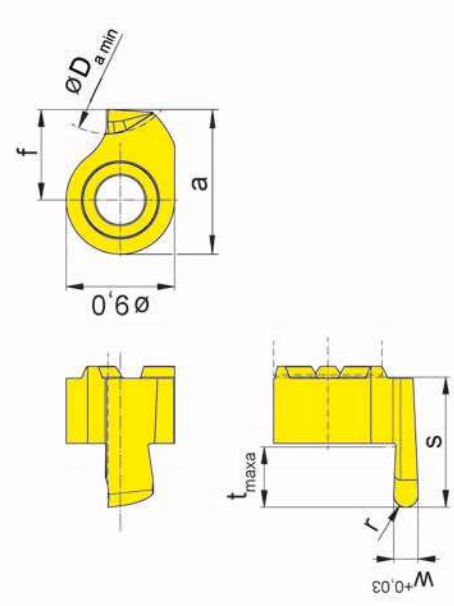
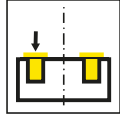
Grados de carburo
Graus de metal duro
▲ en stock
▲ 4 semanas
en stock
4 semanas

Referencia Número de encomenda	w	s	f	a	r	t _{max a}	D _{a min}	HIS	MG12	EG55	TF45	TN35
R114.1410.00	1	8,3	9	13,5	-	1,5	14	311090R	▲	▲	▲	▲
R114.1415.00	1,5	8,3	9	13,5	0,2	2,5	14	311090R	▲	▲	▲	▲
R114.1420.00	2	8,3	9	13,5	0,2	3	14	311090R	▲	▲	▲	▲
R114.1425.00	2,5	8,3	9	13,5	0,2	3	14	311090R	▲	▲	▲	▲
R114.1430.00	3	8,3	9	13,5	0,2	3	14	311090R	▲	▲	▲	▲
R114.1420.5.00	2	10,8	9	13,5	0,2	5	14	311090R	▲	▲	▲	▲
R114.1425.5.00	2,5	10,8	9	13,5	0,2	5	14	311090R	▲	▲	▲	▲
R114.1430.6.00	3	11,8	9	13,5	0,2	6	14	311090R	▲	▲	▲	▲
L114.1410.00	1	8,3	9	13,5	-	1,5	14	311090L	▲	▲	▲	▲
L114.1415.00	1,5	8,3	9	13,5	0,2	2,5	14	311090L	▲	▲	▲	▲
L114.1420.00	2	8,3	9	13,5	0,2	3	14	311090L	▲	▲	▲	▲
L114.1425.00	2,5	8,3	9	13,5	0,2	3	14	311090L	▲	▲	▲	▲
L114.1430.00	3	8,3	9	13,5	0,2	3	14	311090L	▲	▲	▲	▲
L114.1420.5.00	2	10,8	9	13,5	0,2	5	14	311090L	▲	▲	▲	▲
L114.1425.5.00	2,5	10,8	9	13,5	0,2	5	14	311090L	▲	▲	▲	▲
L114.1430.6.00	3	11,8	9	13,5	0,2	6	14	311090L	▲	▲	▲	▲
									P	O	●	●
									M	-	●	●
									K	-	●	●
									N	-	●	●
									S	-	●	●
									H	-	●	●

¡Mecanizado al centro de giro!
Mecanizado NA FRENTE do centro do giro!

R = giro horario! Empleando la plaquita de ranurado frontal tipo 114 en portaherramientas tipo B114 las dimensiones L1 y L2 serán aumentadas en 3,0 / 5,5 o 6,5 mm.

R = volta horário! Utilizando a pastilha de ranhurar frontal tipo 114 em porta pastilha tipo B114 as dimensões L1 e L2 serão aumentadas em 3,0 / 5,5 ou 6,5 mm.

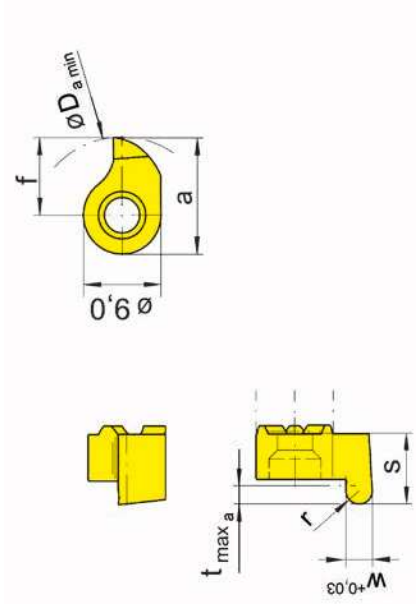
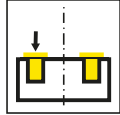


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	t _{max a}	D _{a min}	HIS	EG55	TN35
R114.1220.5.10	2	10,8	7,5	12	1	5	12	311090R	▲	▲
R114.1225.5.12	2,5	10,8	7,5	12	1,25	5	12	311090R	▲	▲
R114.1230.6.15	3	11,8	7,5	12	1,5	6	12	311090R	▲	▲
L114.1220.5.10	2	10,8	7,5	12	1	5	12	311090L	▲	▲
L114.1225.5.12	2,5	10,8	7,5	12	1,25	5	12	311090L	▲	▲
L114.1230.6.15	3	11,8	7,5	12	1,5	6	12	311090L	▲	▲
Radio completo ¡Mecanizado DETRÁS del centro de giro! Raio completo ¡Mecanizado ATRAS do centro do giro!									P	●
¡R = giro anti horario! Usando la plaquita de ranurado frontal tipo 114 en portaherramientas tipo B114 las dimensiones l1 y l2 crecerán 5,5 mm o 6,5 mm. R = rotação no sentido anti-horário! Usando a pastilha de ranhurado frontal tipo 114 em porta pastilhas B114 as dimensões l1 e l2 serão ampliadas por até 5,5 o 6,5 milímetros.									M	●
									K	●
									N	●
									S	●
									H	-

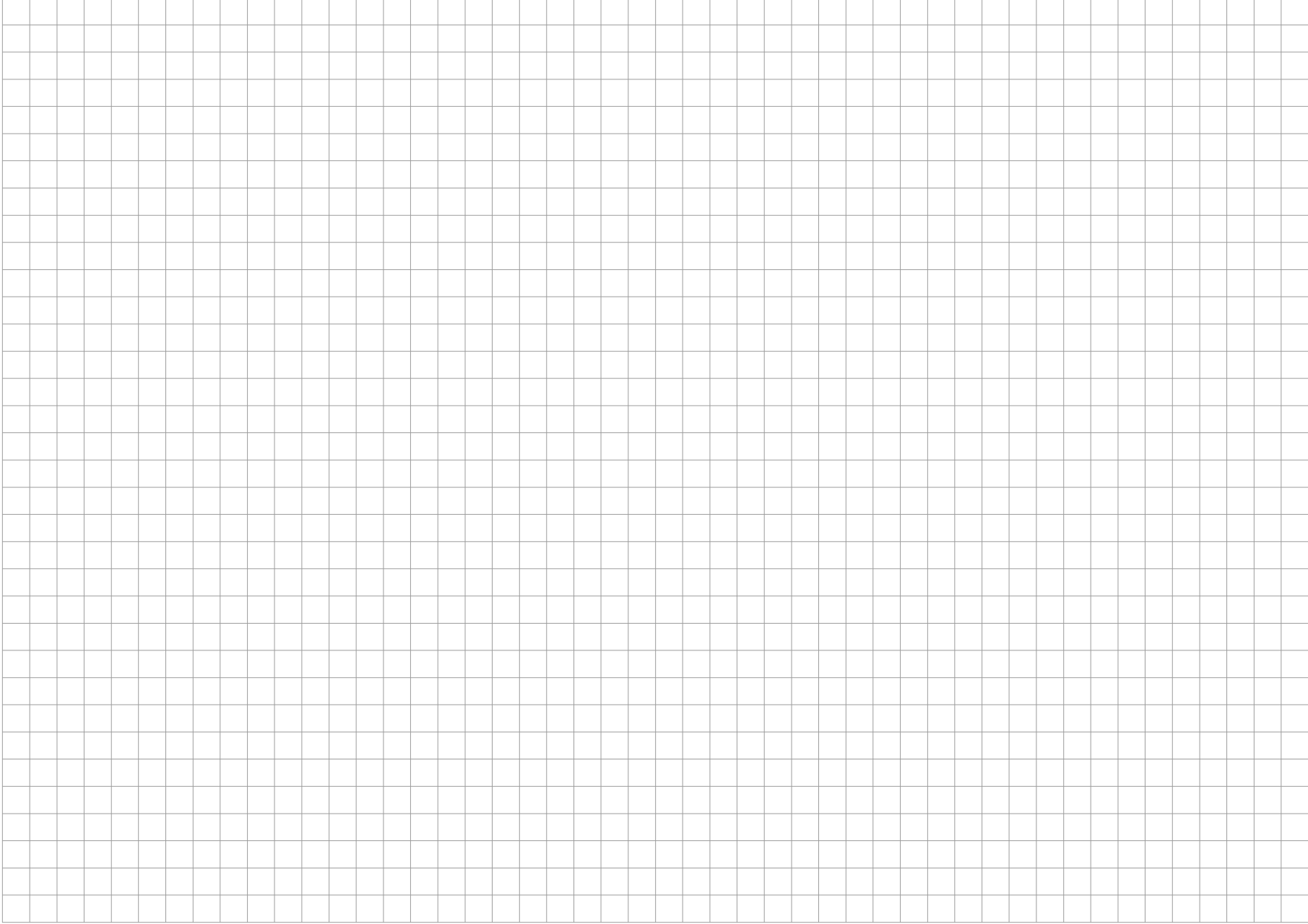


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	t _{max a}	D _{a min}	HIS	EG55	TN35
R114,1410,05	1	8,3	9	13,5	0,5	1,5	14	311090R	▲	▲
R114,1416,08	1,6	8,3	9	13,5	0,8	2,5	14	311090R	▲	▲
R114,1420,10	2	8,3	9	13,5	1	3	14	311090R	▲	▲
R114,1425,12	2,5	8,3	9	13,5	1,25	3	14	311090R	▲	▲
R114,1430,15	3	8,3	9	13,5	1,5	3	14	311090R	▲	▲
L114,1410,05	1	8,3	9	13,5	0,5	1,5	14	311090L	▲	▲
L114,1416,08	1,6	8,3	9	13,5	0,8	2,5	14	311090L	▲	▲
L114,1420,10	2	8,3	9	13,5	1	3	14	311090L	▲	▲
L114,1425,12	2,5	8,3	9	13,5	1,25	3	14	311090L	▲	▲
L114,1430,15	3	8,3	9	13,5	1,5	3	14	311090L	▲	▲
Radio completo ¡Mecanizado FRENTE al centro de giro! Raio completo ¡Mecanizado NA FRENTE do centro do giro!									P	●
R = giro horario! Usando la plaquita de ranurado frontal tipo 114 en portaherramientas tipo B114 las dimensiones l1 y l2 serán aumentadas en 3,0 mm. R = Volta relógio! Usando a pastilhas de ranhurar frontal tipo 114 em porta pastilha tipo B114 as dimensões l1 e l2 serão aumentadas em 3,0 mm.									M	○
									K	○
									N	●
									S	●
									H	-



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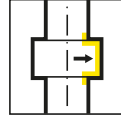


**Portaherramientas
y Plaquita**

**Porta pastilhas
e Pastilha**

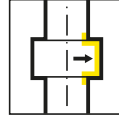
K

Portaherramientas
Porta pastilhas
B116



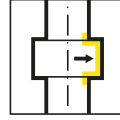
Pág./Pág.
322-323

Cartucho
Cartucho
145

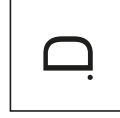


Pág./Pág.
324

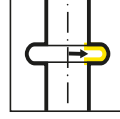
Plaquita
Pastilha
116/S116



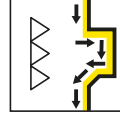
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325-327



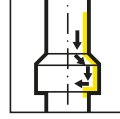
Pág./Pág.
328



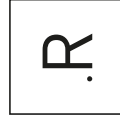
Pág./Pág.
329



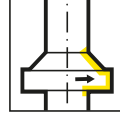
Pág./Pág.
330



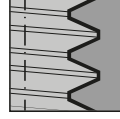
Pág./Pág.
331, 333



Pág./Pág.
332



Pág./Pág.
334



Pág./Pág.
335-340

Ø de agujero Ø de furo		Linea de producto / Linha de produto											
		105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2		•											
≥ 0,5		•											
≥ 0,7		•											
≥ 1,0		•											
≥ 1,5		•											
≥ 2,0		•											
≥ 3,0		•											
≥ 4,0		•											
≥ 5,0		•											
≥ 6,0		•	•	•	•								
≥ 6,8			•	•	•								
≥ 7,0			•			•							
≥ 7,8				•		•	•						
≥ 8,0				•		•	•						
≥ 9,0				•		•	•	•					
≥ 10,0				•			•	•	•				
≥ 10,5									•				
≥ 11,0								•	•				
≥ 11,5									•				
≥ 13,8										•			
≥ 14,0										•	•		
≥ 16,0											•		
≥ 16,5										[•]			
≥ 18,0													•
Profundidad de ranura Profundidade de ranhura		2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura		0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado													
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•	•			•	•	•	
Roscado Rosqueamento	•	•			•	•	•	•			•	•	
Achaflanado Chanfrado	•	•			•	•	•			•	•	•	
Ranurado frontal Ranhurado frontal	•	•	•								•		
Torneado duro Torneamento duro	•												

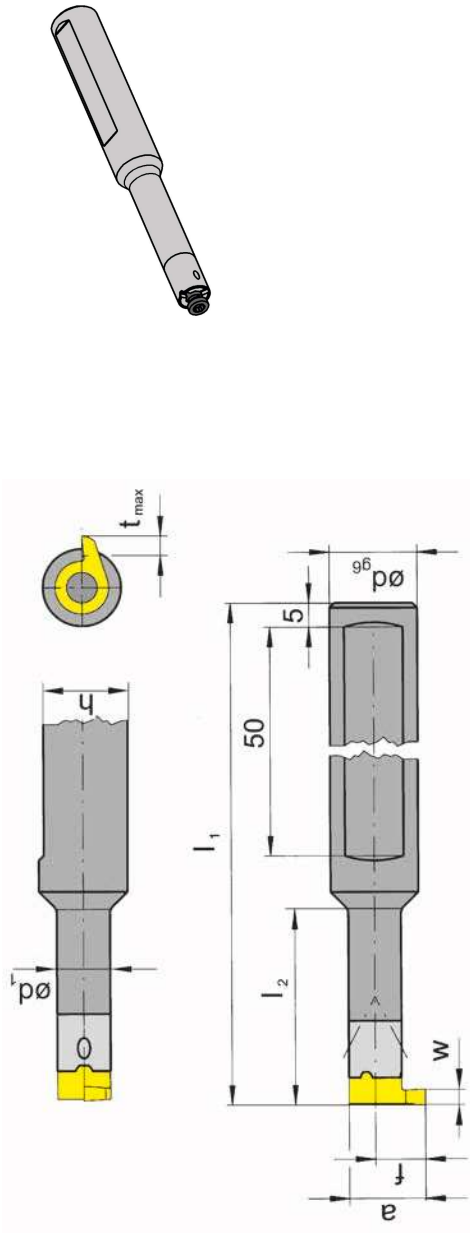
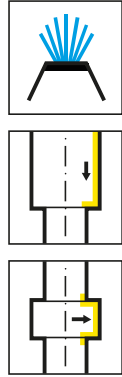


Foto = versión corte a derecha
Foto = versão do corte a direita

Referencia Número de encomenda	d	l ₁	l ₂	h	d ₁	HWS
B116.0012.01	12	130	40	11	11	116110R • 116110L
B116.0012.02	12	130	56	11	11	116110R • 116110L
B116.0012.03	12	150	80	11	11	116110R • 116110L
B116.0016.01	16	130	40	15	11	116110R • 116110L
B116.0016.02	16	130	56	15	11	116110R • 116110L
B116.0016.03	16	150	80	15	11	116110R • 116110L

w, a, t máx, f vea las plaquitas
w, a, tmax, f vêr pastilhas



Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
B116...	5.13T20EP	T20PQ

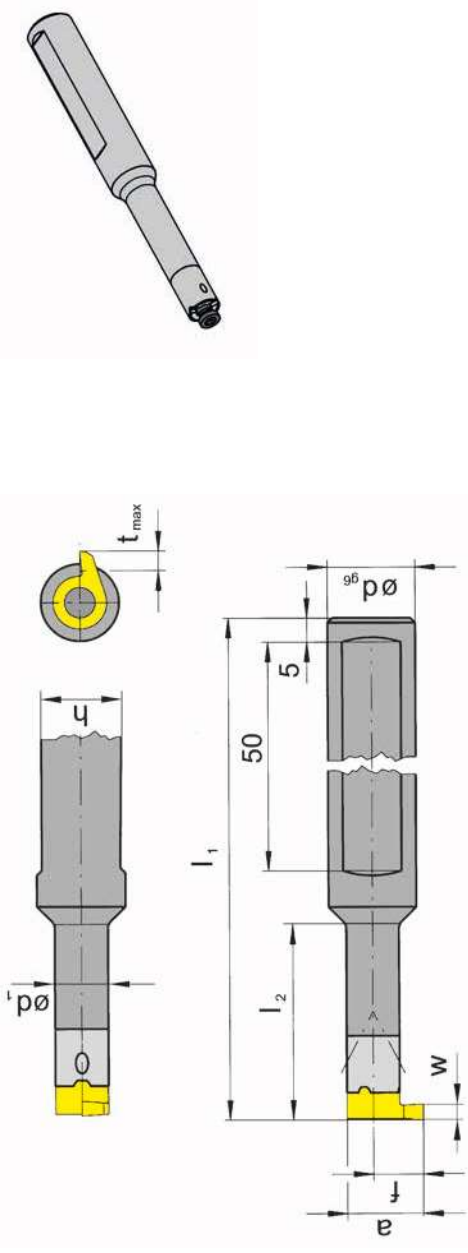
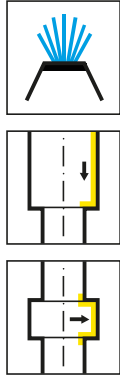


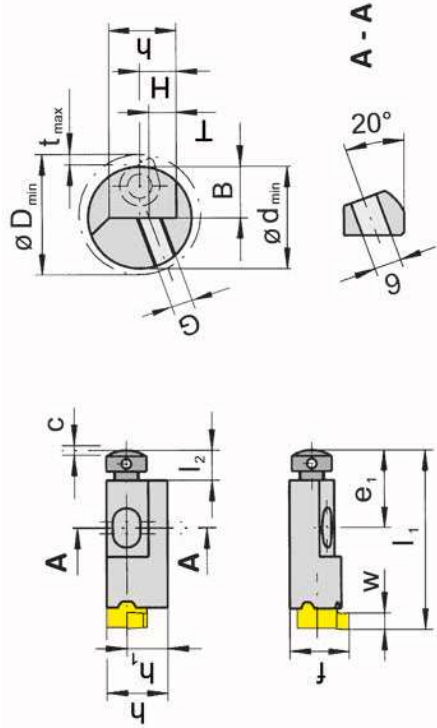
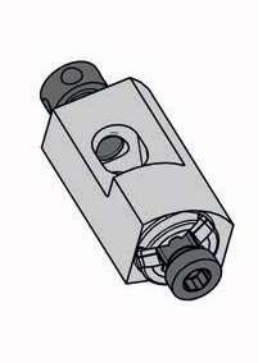
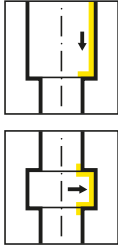
Foto = versión corte a derecha
Foto = versão do corte a direita

Referencia Número de encomenda	d	l ₁	l ₂	h	d ₁	HWS
B116.0012.2.01	12	130	40	11	11	116110R • 116110L
B116.0012.2.02	12	130	56	11	11	116110R • 116110L
B116.0012.2.03	12	150	80	11	11	116110R • 116110L
B116.0016.2.01	16	130	40	14	11	116110R • 116110L
B116.0016.2.02	16	130	56	14	11	116110R • 116110L
B116.0016.2.03	16	150	80	14	11	116110R • 116110L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{máx}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
B116...	5.13T20EP	T20PQ



Referencia	h	l ₁	h ₁	f	e ₁	l ₂	c	D _{min}	t _{max}	HWS
Número de encomenda										
L145.1012.00	17	36	10	16,7	13,8	5	1	32	4,3	116110R • 116110L

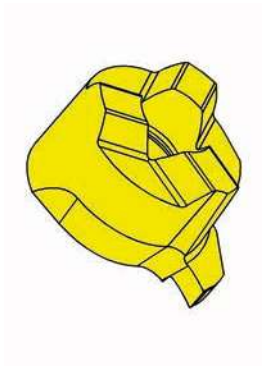
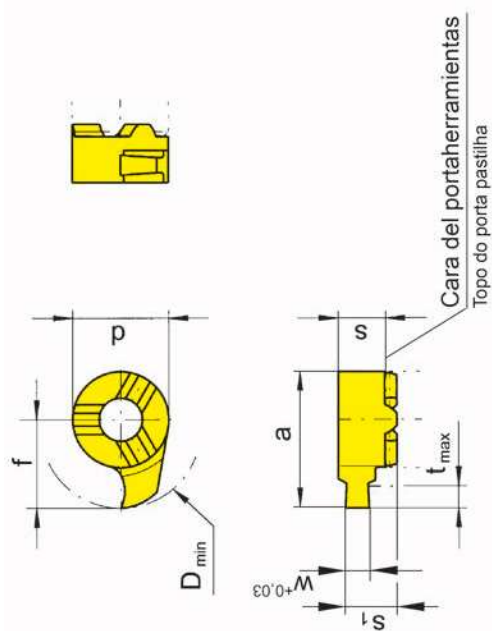
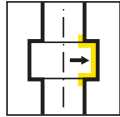
w vea las plaquitas
w vêr pastilhas

Dimensiones de asiento	H	T	B	G	d _{min}	h
Dimensões de assento						
R/L145.0608.00	6	4,5	8,5	M4	16	10

K

Repuestos
Acessórios

Cartucho	Tornillo de sujeción	Llave TORX PLUS®
Cartucho	Parafuso tensor	Chave TORX PLUS®
L145.1012.00	5.13T20EP	T20PQ

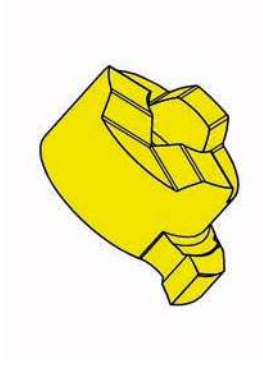
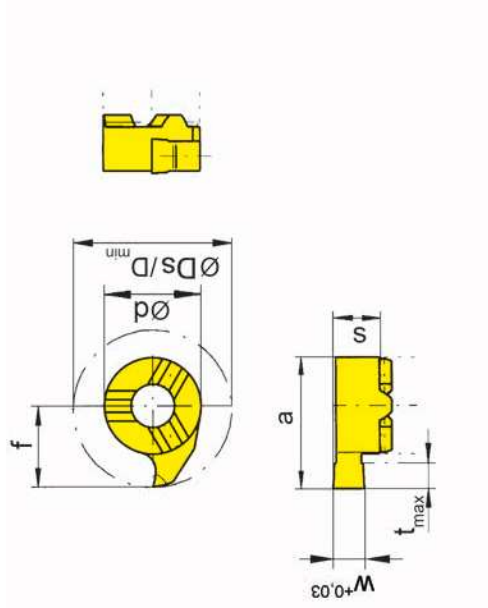
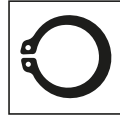
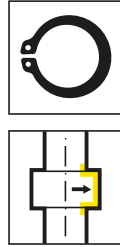


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	Nw	s	f	a	s ₁	d	t _{max}	D _{min}	HIS	EG55	TN35
R116.0070.00	0,74	0,7	5,5	10,2	15,7	5,3	11	1,2	16	116110R	▲	▲
R116.0080.00	0,84	0,8	5,5	10,2	15,7	5,3	11	1,3	16	116110R	▲	▲
R116.0090.00	0,94	0,9	5,5	10,2	15,7	5,3	11	1,5	16	116110R	▲	▲
L116.0070.00	0,74	0,7	5,5	10,2	15,7	5,3	11	1,2	16	116110L	Δ	Δ
L116.0080.00	0,84	0,8	5,5	10,2	15,7	5,3	11	1,3	16	116110L	Δ	Δ
L116.0090.00	0,94	0,9	5,5	10,2	15,7	5,3	11	1,5	16	116110L	Δ	Δ
Profundidad de corte limitada Profundidade de corte limitada											P	●
											M	●
											K	●
											N	●
											S	●
											H	-



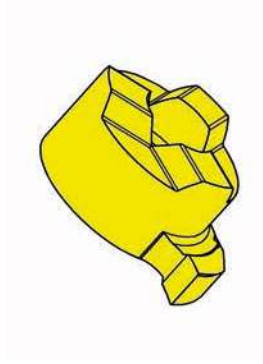
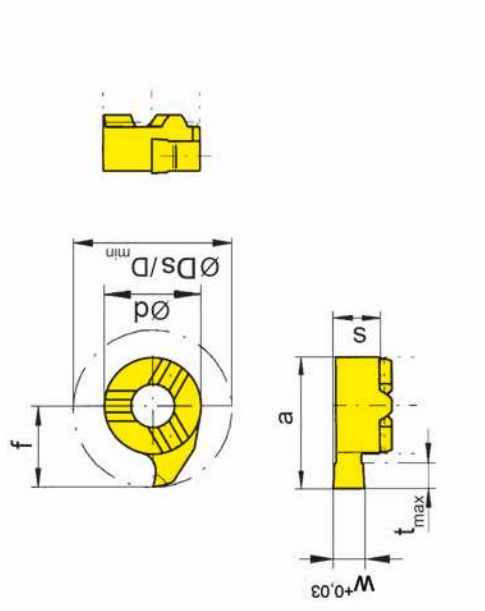
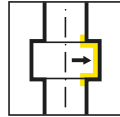
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	Nw	f	Ds	a	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H	MG12	EG55	TH35	TN35
R116.0110.00	1,19	1,1	10,2	20,4	15,7	11	4,3	16	116110R	●	●	●	●	●	-	▲	▲	▲	▲
R116.0130.00	1,39	1,3	10,2	20,4	15,7	11	4,3	16	116110R	●	●	●	●	●	-	▲	▲	▲	▲
R116.0160.00	1,69	1,6	10,2	20,4	15,7	11	4,3	16	116110R	●	●	●	●	●	-	▲	▲	▲	▲
L116.0110.00	1,19	1,1	10,2	20,4	15,7	11	4,3	16	116110L	●	●	●	●	●	-	▲	▲	▲	▲
L116.0130.00	1,39	1,3	10,2	20,4	15,7	11	4,3	16	116110L	●	●	●	●	●	-	▲	▲	▲	▲
L116.0160.00	1,69	1,6	10,2	20,4	15,7	11	4,3	16	116110L	●	●	●	●	●	-	▲	▲	▲	▲



R = versión a derecha
R = versão à direita

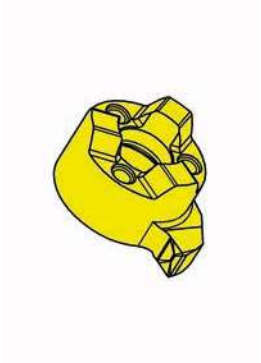
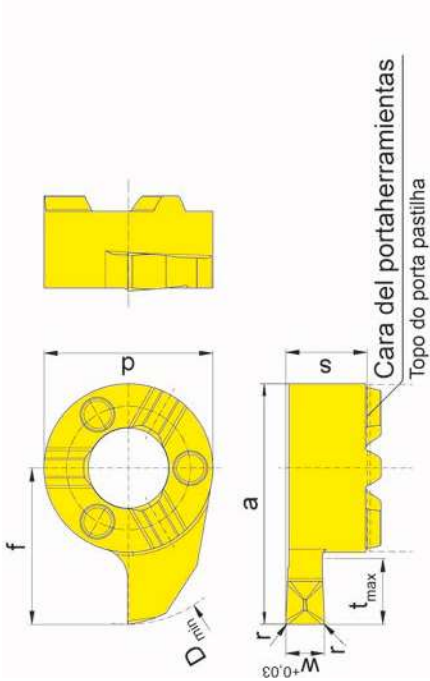
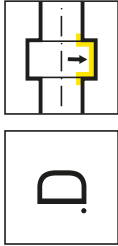
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	f	Ds	a	d	t _{max}	D _{min}	HIS	P	M	K	N	S	H
R116.0200.00	2	10,2	20,4	15,7	11	4,3	16	116110R	▲	●	●	●	●	-
R116.0250.00	2,5	10,2	20,4	15,7	11	4,3	16	116110R	▲	●	●	●	●	-
R116.0300.00	3	10,2	20,4	15,7	11	4,3	16	116110R	▲	●	●	●	●	-
R116.0350.00	3,5	10,2	20,4	15,7	11	4,3	16	116110R	▲	●	●	●	●	-
R116.0400.00	4	10,2	20,4	15,7	11	4,3	16	116110R	▲	●	●	●	●	-
L116.0200.00	2	10,2	20,4	15,7	11	4,3	16	116110L	▲	●	●	●	●	-
L116.0250.00	2,5	10,2	20,4	15,7	11	4,3	16	116110L	▲	●	●	●	●	-
L116.0300.00	3	10,2	20,4	15,7	11	4,3	16	116110L	▲	●	●	●	●	-
L116.0350.00	3,5	10,2	20,4	15,7	11	4,3	16	116110L	▲	●	●	●	●	-
L116.0400.00	4	10,2	20,4	15,7	11	4,3	16	116110L	▲	●	●	●	●	-
TN35									▲	●	●	●	●	-
TH35									▲	●	●	●	●	-
EG55									▲	●	●	●	●	-
MG12									▲	●	●	●	●	-

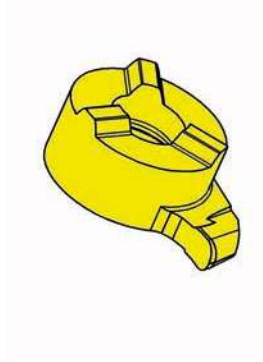
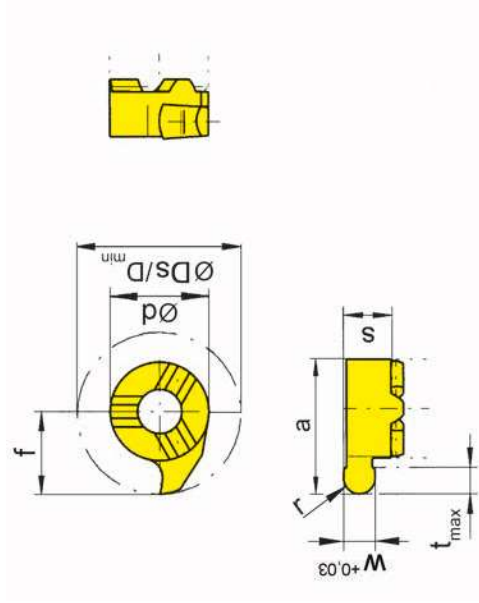
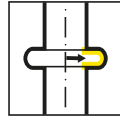


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS116.0200.D2	2	5,3	10,2	15,7	0,2	11	4,3	16	116110R	▲	▲
RS116.0250.D2	2,5	5,3	10,2	15,7	0,2	11	4,3	16	116110R	▲	▲
RS116.0300.D2	3	5,3	10,2	15,7	0,2	11	4,3	16	116110R	▲	▲
LS116.0200.D2	2	5,3	10,2	15,7	0,2	11	4,3	16	116110L	▲	▲
LS116.0250.D2	2,5	5,3	10,2	15,7	0,2	11	4,3	16	116110L	▲	▲
LS116.0300.D2	3	5,3	10,2	15,7	0,2	11	4,3	16	116110L	Δ	▲
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-



R = versión a derecha
R = versão à direita

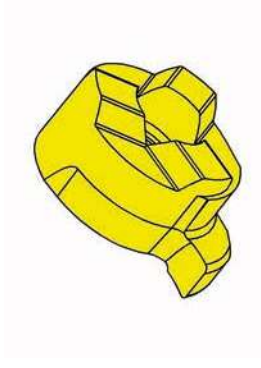
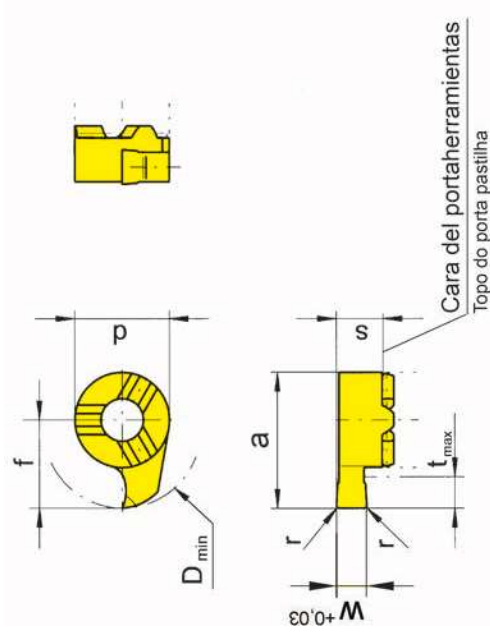
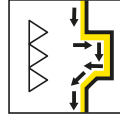
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

Δ 4 semanas
4 semanas

Referencia Número de encomenda	w	f	Ds	a	r	d	t _{max}	D _{min}	HIS	
R116.0009.18	1,8	10,2	20,4	15,7	0,9	11	4,3	16	116110R	▲
R116.0011.22	2,2	10,2	20,4	15,7	1,1	11	4,3	16	116110R	▲
R116.0015.30	3	10,2	20,4	15,7	1,5	11	4,3	16	116110R	▲
R116.0020.40	4	10,2	20,4	15,7	2	11	4,3	16	116110R	Δ
L116.0009.18	1,8	10,2	20,4	15,7	0,9	11	4,3	16	116110L	Δ
L116.0011.22	2,2	10,2	20,4	15,7	1,1	11	4,3	16	116110L	Δ
L116.0015.30	3	10,2	20,4	15,7	1,5	11	4,3	16	116110L	Δ
L116.0020.40	4	10,2	20,4	15,7	2	11	4,3	16	116110L	Δ
										P
										M
										K
										N
										S
										H
MG12	▲									▲
EG55	▲									▲
TH35	▲									▲
TN35	▲									▲



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

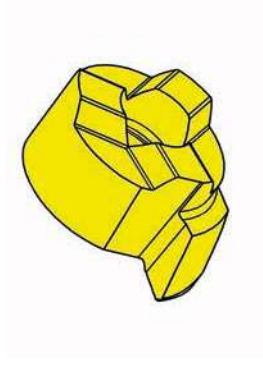
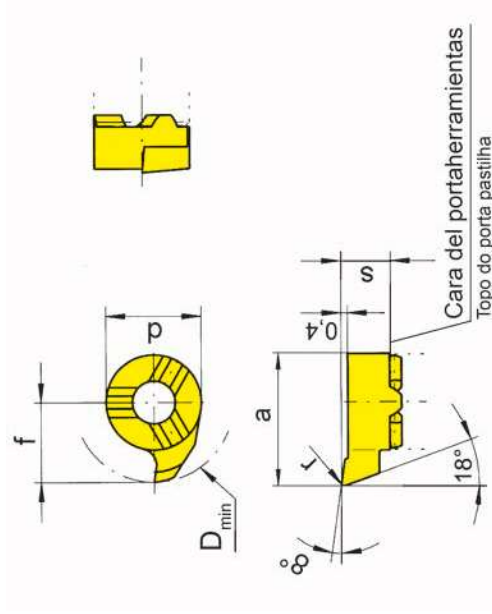
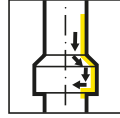
▲ en stock	Grados de carburo
en stock	Graus de metal duro
	Δ 4 semanas
	4 semanas

[illegible]

Plaquil Pastilha

116

Ø ≥ 15,5 mm



R = versión a derecha
R = versão à direita

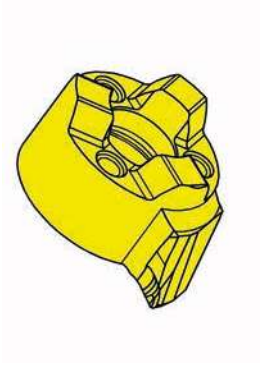
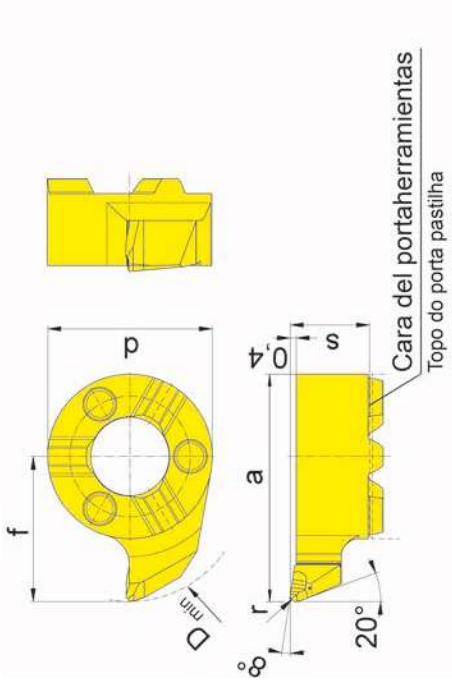
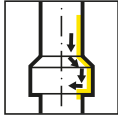
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo	Grados de metal duro	Δ 4 semanas	4 semanas
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

[illegible]

Y

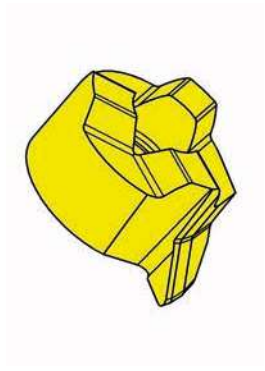
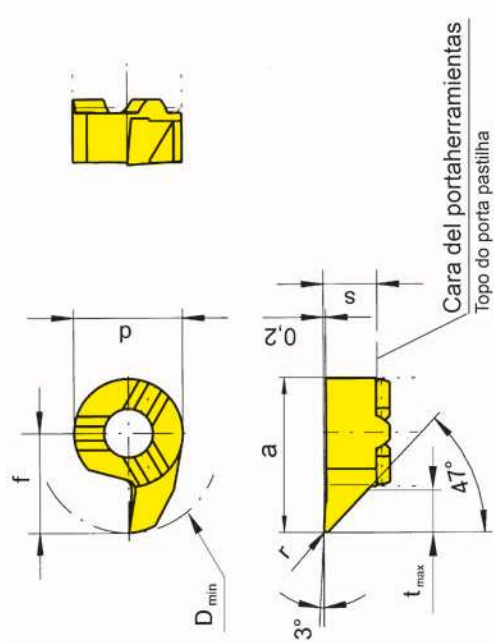
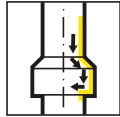


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG55	TH35
RS116.1897.R2	5,3	9,7	15,2	0,2	11	15,5	116110R	▲	▲
RS116.1897.R4	5,3	9,7	15,2	0,4	11	15,5	116110R	▲	▲
LS116.1897.R2	5,3	9,7	15,2	0,2	11	15,5	116110L	▲	▲
LS116.1897.R4	5,3	9,7	15,2	0,4	11	15,5	116110L	▲	▲
								P	•
								M	•
								K	•
								N	•
								S	•
								H	-

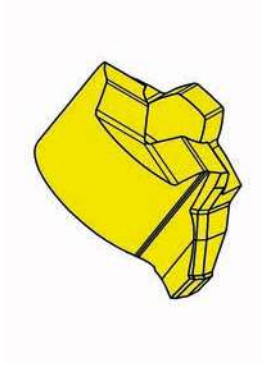
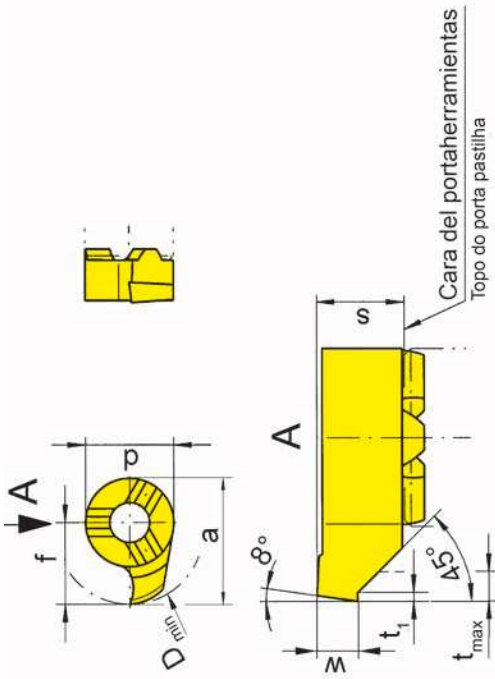
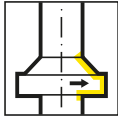


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	t _{max}	D _{min}	HIS			
R116.4702.02	5,3	10,2	15,7	0,2	11	4,3	16	116110R	▲	▲	TN35
R116.4702.04	5,3	10,2	15,7	0,4	11	4,3	16	116110R	▲	▲	TH35
L116.4702.02	5,3	10,2	15,7	0,2	11	4,3	16	116110L	▲	▲	EG55
L116.4702.04	5,3	10,2	15,7	0,4	11	4,3	16	116110L	▲	▲	
								P	●	●	
								M	●	●	
								K	●	●	
								N	-	●	
								S	-	●	
								H	-	-	



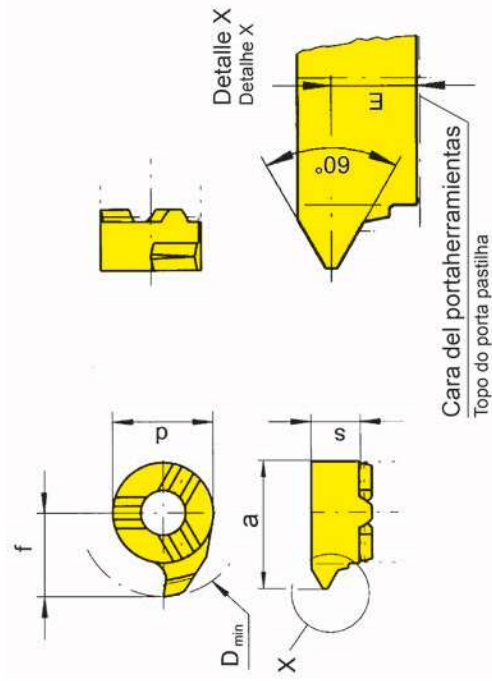
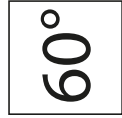
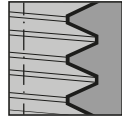
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	d	t _{max}	t ₁	D _{min}	HIS		MG12	EG55	TI25
R116.0815.45	1,5	5,3	10,2	15,7	11	1,5	0,2	16	116110R	▲	▲	▲	▲
L116.0815.45	1,5	5,3	10,2	15,7	11	1,5	0,2	16	116110L	P	O	O	O
										M	-	O	O
										K	-	O	O
										N	-	-	-
										S	-	-	-
										H	-	-	-



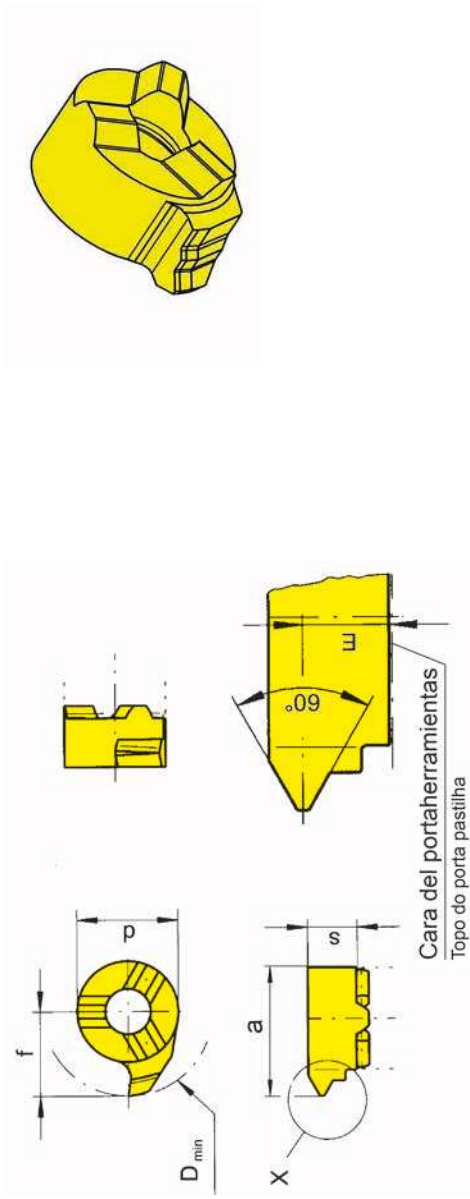
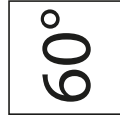
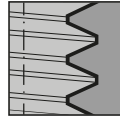
Cara del portaherramientas
Topo do porta pastilha

R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	P	P _{max}	E	f	a	d	s	D _{min}	HIS	EG55	TH35	TN35
R116.0510.01	1	1,25	4,7	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
R116.0815.01	1,5	1,75	4,5	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
R116.1020.01	2	2	4,3	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
R116.1325.01	2,5	2,5	4,2	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
L116.0510.01	1	1,25	4,7	10,2	15,7	11	5,5	16	116110L	Δ	Δ	Δ
L116.0815.01	1,5	1,75	4,5	10,2	15,7	11	5,5	16	116110L	Δ	Δ	Δ
L116.1020.01	2	2	4,3	10,2	15,7	11	5,5	16	116110L	Δ	Δ	Δ
L116.1325.01	2,5	2,5	4,2	10,2	15,7	11	5,5	16	116110L	Δ	Δ	Δ
	P	●	●	●	●	●	●	●	●	●	●	●
	M	●	●	●	●	●	●	●	●	●	●	●
	K	●	●	●	●	●	●	●	●	●	●	●
	N	-	-	-	-	-	-	-	-	-	-	-
	S	-	-	-	-	-	-	-	-	-	-	-
	H	-	-	-	-	-	-	-	-	-	-	-



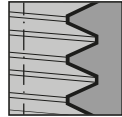
R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

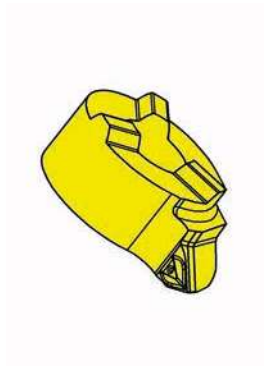
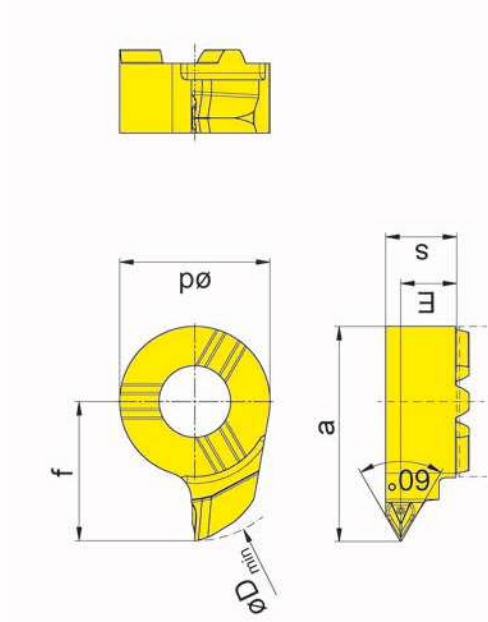
Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	HIS	EG55	T125	TN35
R116.0510.02	1	4,7	10,2	15,7	11	5,5	16	116110R	▲	Δ	▲
R116.0815.02	1,5	4,5	10,2	15,7	11	5,5	16	116110R	▲	Δ	▲
R116.1020.02	2	4,3	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.1325.02	2,5	4,2	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.1630.02	3	4	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.1835.02	3,5	3,8	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.2140.02	4	3,6	10,2	15,7	11	5,5	16	116110R	▲		▲
L116.0510.02	1	4,7	10,2	15,7	11	5,5	16	116110L	▲		Δ
L116.0815.02	1,5	4,5	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.1020.02	2	4,3	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.1325.02	2,5	4,2	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.1630.02	3	4	10,2	15,7	11	5,5	16	116110L	▲		▲
L116.1835.02	3,5	3,8	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.2140.02	4	3,6	10,2	15,7	11	5,5	16	116110L	Δ		Δ
									P	●	●
									M	○	●
									K	○	●
									N	-	●
									S	-	●
									H	-	-



.GM



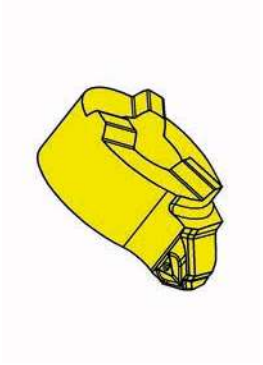
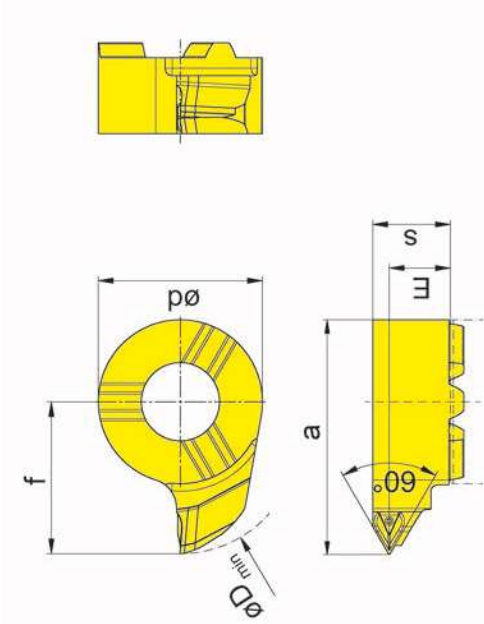
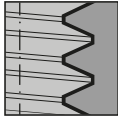
60°



L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

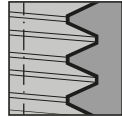
Referencia Número de encomenda	P	P _{max}	E	f	a	d	s	D _{min}	HIS	FG55
RS1116.0510.GM1	1	1,25	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS1116.0815.GM1	1,5	1,75	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS1116.1020.GM1	2	2	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS1116.1325.GM1	2,5	2,5	4,1	10,2	15,7	11	5,2	16	116110R	▲
LS1116.0510.GM1	1	1,25	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS1116.0815.GM1	1,5	1,75	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS1116.1020.GM1	2	2	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS1116.1325.GM1	2,5	2,5	4,1	10,2	15,7	11	5,2	16	116110L	▲
	P	●								●
	M	○								○
	K	○								○
	N	-								-
	S	-								-
	H	-								-



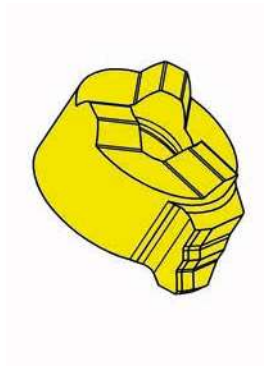
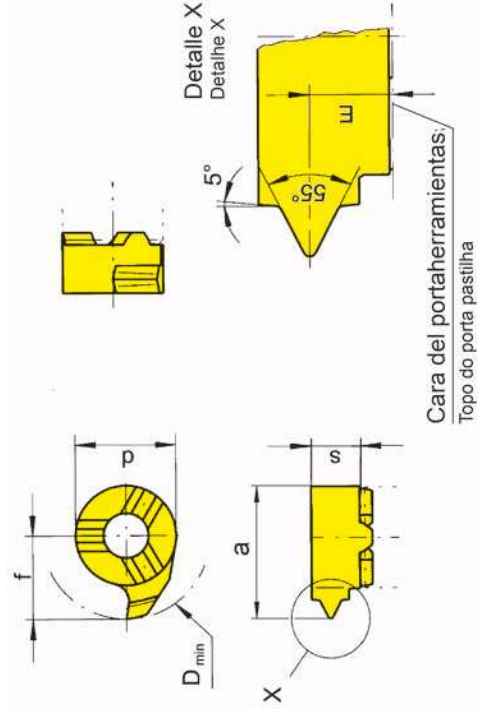
L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	HIS	EG55
RS1116.0510.GM2	1	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS1116.0815.GM2	1,5	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS1116.1020.GM2	2	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS1116.1325.GM2	2,5	4,1	10,2	15,7	11	5,2	16	116110R	▲
LS1116.0510.GM2	1	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS1116.0815.GM2	1,5	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS1116.1020.GM2	2	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS1116.1325.GM2	2,5	4,1	10,2	15,7	11	5,2	16	116110L	▲
									P
									M
									K
									N
									S
									H



BSW
BSF

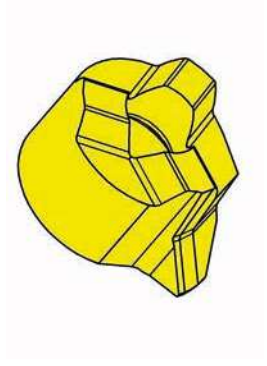
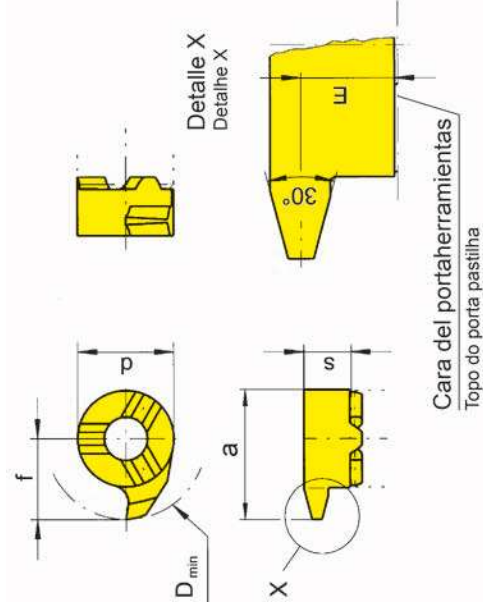


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
Δ 4 semanas
4 semanas

Referencia Número de encomenda	TPI	E	f	d	s	D _{min}	HIS		EG55	TN35
R116.5511.02	11	3,5	10,2	11	5,5	16	116110R		▲	▲
R116.5514.02	14	3,9	10,2	11	5,5	16	116110R		▲	▲
L116.5511.02	11	3,5	10,2	11	5,5	16	116110L		Δ	Δ
L116.5514.02	14	3,9	10,2	11	5,5	16	116110L		Δ	Δ
								P	●	●
								M	○	○
								K	○	○
								N	-	-
								S	-	-
								H	-	-



R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock
en stock
▲ 4 semanas
4 semanas

Referencia Número de encomenda	P	E	f	a	d	s	D _{min}	Roscado Rosqueamento	HIS	EG55	T125	TN35
R116.1220.01	2	4,5	9,7	15,2	11	5,5	16	Tr 20x2	116110R	▲	▲	▲
R116.1730.01	3	4,3	9,7	15,2	11	5,5	16	Tr 22x3	116110R	▲	▲	▲
R116.2240.01	4	4	9,7	15,2	11	5,5	16	Tr 22x4	116110R	▲	▲	▲
R116.2750.01	5	3,55	10,2	15,7	11	5,5	16	Tr 24x5	116110R	▲	▲	▲
R116.3560.01	6	3,3	10,2	15,7	11	5,5	16	Tr 30x6	116110R	▲	▲	▲
L116.1220.01	2	4,5	9,7	15,2	11	5,5	16	Tr 20x2	116110L	▲	▲	▲
L116.1730.01	3	4,3	9,7	15,2	11	5,5	16	Tr 22x3	116110L	▲	▲	▲
L116.2240.01	4	4	9,7	15,2	11	5,5	16	Tr 22x4	116110L	▲	▲	▲
L116.2750.01	5	3,55	10,2	15,7	11	5,5	16	Tr 24x5	116110L	▲	▲	▲
L116.3560.01	6	3,3	10,2	15,7	11	5,5	16	Tr 30x6	116110L	▲	▲	▲
	P	●	●	●	●	●	●		HIS	●	●	●
	M	○	○	○	○	○	○			○	○	○
	K	○	○	○	○	○	○			○	○	○
	N	-	-	-	-	-	-			-	-	-
	S	-	-	-	-	-	-			-	-	-
	H	-	-	-	-	-	-			-	-	-

18P

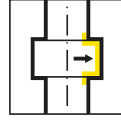


**Portaherramientas
y Plaquita**

**Porta pastilhas
e Pastilha**

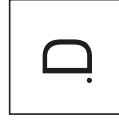
L

Portaherramientas
Porta pastilhas
B18P

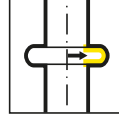


Pág./Pág.
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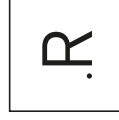
Plaquita
Pastilha
S18P/18P



Pág./Pág.
345, 347

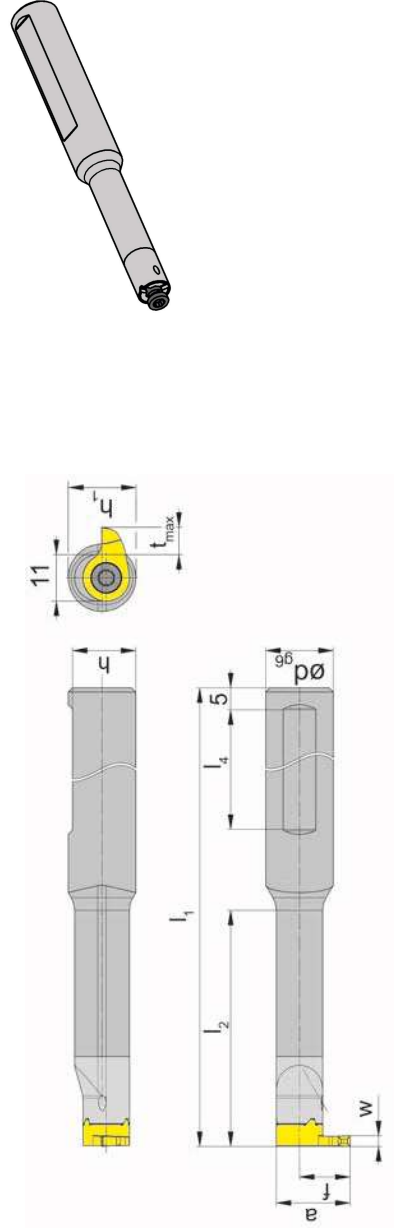
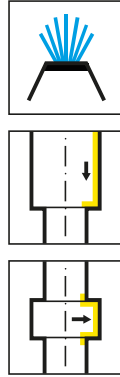


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Ø de agujero Ø de furo		Linea de producto / Linha de produto											
		105	109	110	106	107	108	10P	111	11P	114	116	18P
≥ 0,2		•											
≥ 0,5		•											
≥ 0,7		•											
≥ 1,0		•											
≥ 1,5		•											
≥ 2,0		•											
≥ 3,0		•											
≥ 4,0		•											
≥ 5,0		•											
≥ 6,0		•	•	•	•								
≥ 6,8			•	•	•								
≥ 7,0			•			•							
≥ 7,8				•		•	•						
≥ 8,0				•		•	•						
≥ 9,0				•		•	•	•					
≥ 10,0				•				•	•				
≥ 10,5									•				
≥ 11,0									•				
≥ 11,5									•				
≥ 13,8										•			
≥ 14,0										•	•		
≥ 16,0											•		
≥ 16,5										[•]			
≥ 18,0													•
Profundidad de ranura Profundidade de ranhura		2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Ancho de ranura Largura da ranhura		0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Mecanizado / Mecanizado													
Ranurado Ranhurar	•	•	•	•	•	•	•	•	•	•	•	•	•
Mandrinado Mandrilado	•	•	•	•	•	•	•	•			•	•	
Roscado Rosqueamento	•	•			•	•	•	•			•	•	
Achaflanado Chanfrado	•	•			•	•	•	•			•	•	
Ranurado frontal Ranhurado frontal	•	•	•								•		
Torneado duro Torneamento duro	•												



R = versión a derecha
R = versão à direita

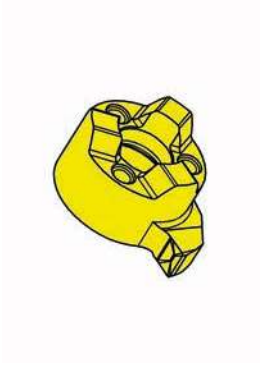
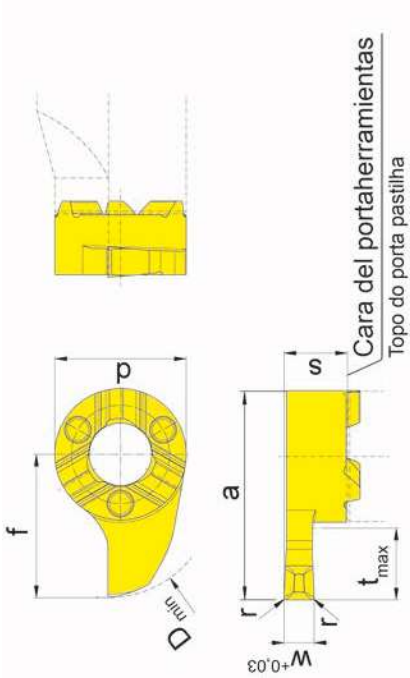
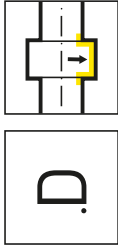
L = versión a izquierda
L = versão à esquerda

Referencia Número de encomenda	d	l ₁	l ₂	h	l ₄	h ₁	HWS
RB18P.0012.00	12	100	25	11	50	12,5	18P110R
RB18P.0012.01	12	120	40	11	50	12,5	18P110R
RB18P.0016.00	16	100	25	15	50	13	18P110R
RB18P.0016.01	16	120	40	15	50	13	18P110R
RB18P.0016.02	16	130	56	15	50	13	18P110R
RB18P.0016.03	16	150	80	15	50	13	18P110R
LB18P.0012.00	12	100	25	11	50	12,5	18P110L
LB18P.0012.01	12	120	40	11	50	12,5	18P110L
LB18P.0016.00	16	100	25	15	50	13	18P110L
LB18P.0016.01	16	120	40	15	50	13	18P110L
LB18P.0016.02	16	130	56	15	50	13	18P110L
LB18P.0016.03	16	150	80	15	50	13	18P110L

w, a, t_{máx}, f vea las plaquitas
w, a, t_{máx}, f vêr pastilhas

Repuestos
Acessórios

Portaherramientas Porta pastilhas	Tornillo de sujeción Parafuso tensor	Llave TORX PLUS® Chave TORX PLUS®
R/LB18P...	5.13T20EP	T20PQ



R = versión a derecha
R = versão à direita

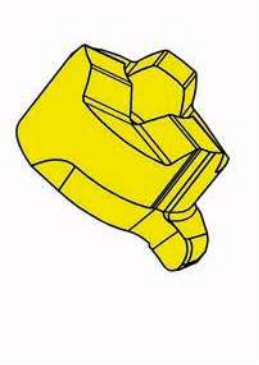
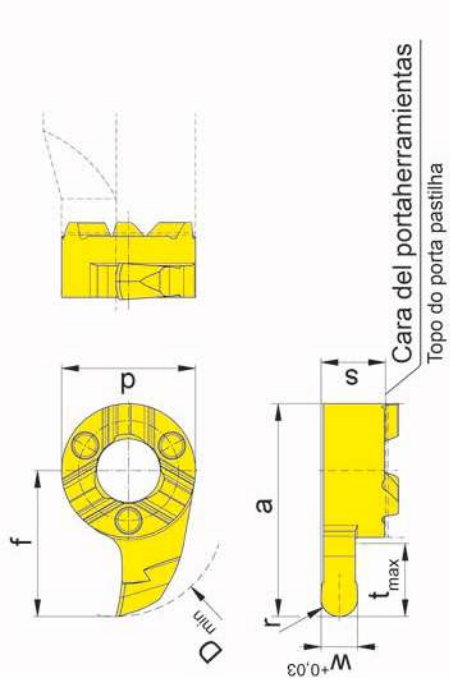
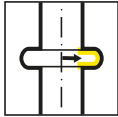
L = versión a izquierda
L = versão à esquerda

▲ en stock
en stock

Grados de carburo
Graus de metal duro

▲ 4 semanas
4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS		EG55	TH35
RS18P.0200.1.D2	2	5,3	12	17,5	0,2	11	6	18	18P110R		▲	▲
RS18P.0250.1.D2	2,5	5,3	12	17,5	0,2	11	6	18	18P110R		▲	▲
RS18P.0300.1.D2	3	5,3	12	17,5	0,2	11	6	18	18P110R		▲	▲
LS18P.0200.1.D2	2	5,3	12	17,5	0,2	11	6	18	18P110L		▲	▲
LS18P.0250.1.D2	2,5	5,3	12	17,5	0,2	11	6	18	18P110L		▲	▲
LS18P.0300.1.D2	3	5,3	12	17,5	0,2	11	6	18	18P110L		▲	▲
										P	●	●
										M	○	●
										K	○	●
										N	-	●
										S	-	●
										H	-	-

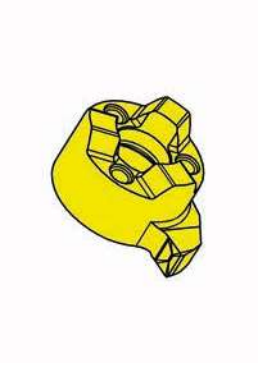
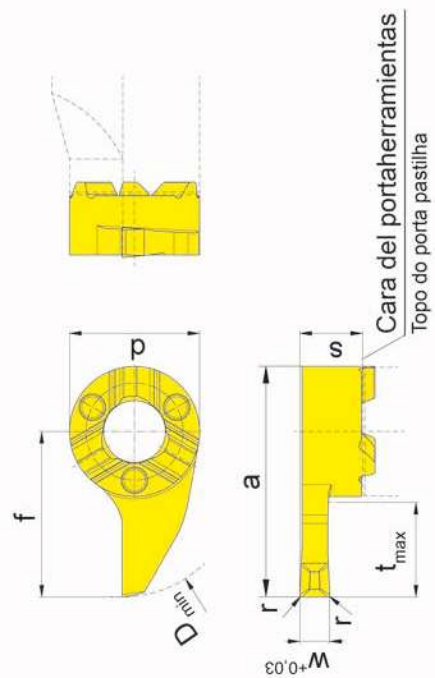
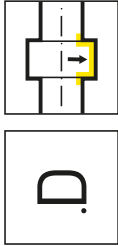


R = versión a derecha
R = versão à direita

L = versión a izquierda
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Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
R18P.0009.1.18	1,8	5,3	12	17,5	0,9	11	6	18	18P110R	▲	▲
R18P.0011.1.22	2,2	5,3	12	17,5	1,1	11	6	18	18P110R	▲	▲
R18P.0015.1.30	3	5,3	12	17,5	1,5	11	6	18	18P110R	▲	▲
L18P.0009.1.18	1,8	5,3	12	17,5	0,9	11	6	18	18P110L	Δ	Δ
L18P.0011.1.22	2,2	5,3	12	17,5	1,1	11	6	18	18P110L	Δ	Δ
L18P.0015.1.30	3	5,3	12	17,5	1,5	11	6	18	18P110L	Δ	Δ
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-

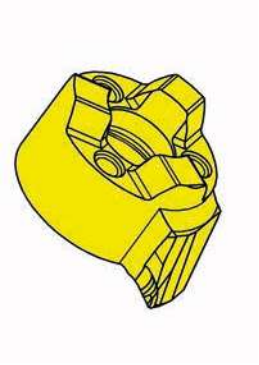
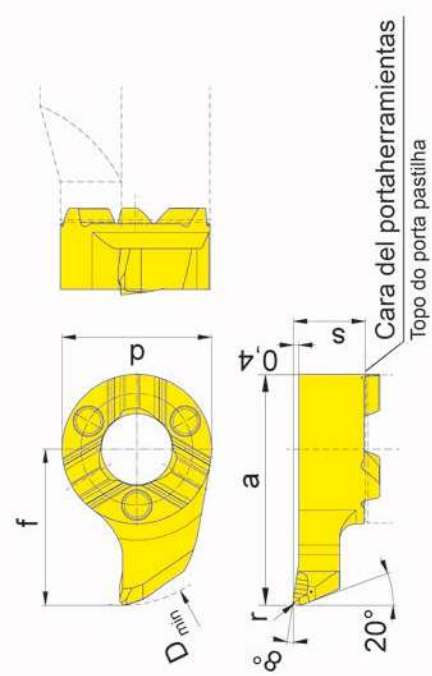
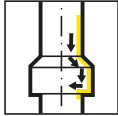


R = versión a derecha
R = versão à direita

L = versión a izquierda
L = versão à esquerda

Grados de carburo
Graus de metal duro
▲ en stock ▲ 4 semanas
en stock 4 semanas

Referencia Número de encomenda	w	s	f	a	r	d	t _{max}	D _{min}	HIS	EG55	TH35
RS18P.0200.2.D2	2	5,3	14	19,5	0,2	11	8	20	18P110R	▲	▲
RS18P.0250.2.D2	2,5	5,3	14	19,5	0,2	11	8	20	18P110R	▲	▲
RS18P.0300.2.D2	3	5,3	14	19,5	0,2	11	8	20	18P110R	▲	▲
LS18P.0200.2.D2	2	5,3	14	19,5	0,2	11	8	20	18P110L	▲	▲
LS18P.0250.2.D2	2,5	5,3	14	19,5	0,2	11	8	20	18P110L	▲	▲
LS18P.0300.2.D2	3	5,3	14	19,5	0,2	11	8	20	18P110L	▲	▲
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-



R = versión a derecha
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L = versión a izquierda
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▲ en stock
en stock

Grados de carburo
Graus de metal duro
▲ 4 semanas
4 semanas

Referencia Número de encomenda	s	f	a	r	d	D _{min}	HIS	EG55	TH35
RS18P.1815.R2	5,3	11,5	17	0,2	11	17,5	18P110R	▲	▲
RS18P.1815.R4	5,3	11,5	17	0,4	11	17,5	18P110R	▲	▲
LS18P.1815.R2	5,3	11,5	17	0,2	11	17,5	18P110L	▲	▲
LS18P.1815.R4	5,3	11,5	17	0,4	11	17,5	18P110L	▲	▲
								P	●
								M	●
								K	●
								N	●
								S	●
								H	-