

M311



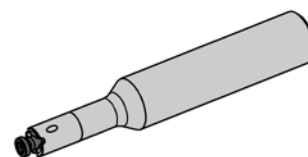
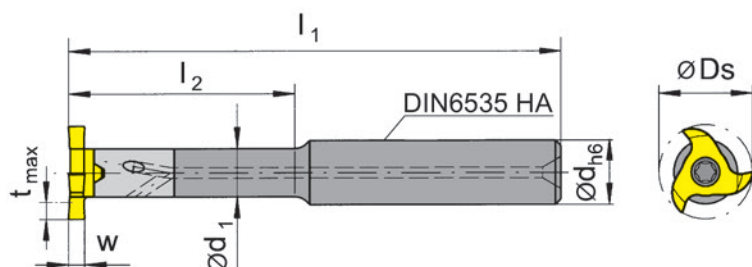
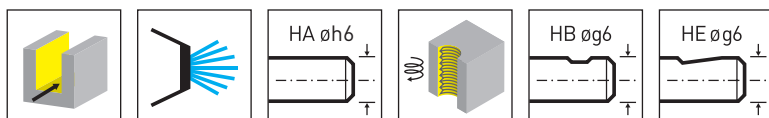
**Corps de fraise avec
plaquette interchangeable**

Ø Alésage à partir de 18 mm

**Corpo fresa a inserti
intercambiabili**

Foro-Ø da 18 mm

B



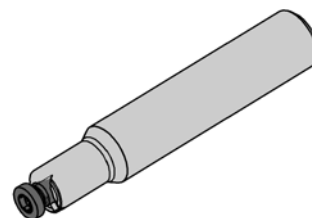
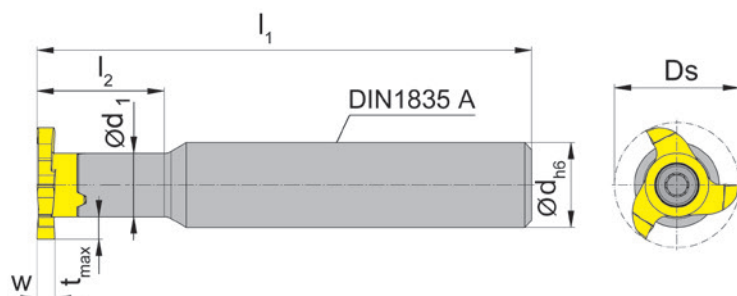
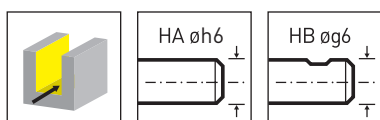
Número de commande Codice prodotto	d	l ₁	l ₂	d ₁	Forme Forma	HWS
M311.0012.01A	12	100	32	9	HA	311090R
M311.0012.02A	12	100	45	9	HA	311090R
M311.0012.03A	12	120	64	9	HA	311090R
M311.0012.05A	12	130	20	9	HA	311090R
M311.0016.01A	16	100	32	9	HA	311090R
M311.0016.02A	16	110	45	9	HA	311090R
M311.0016.03A	16	130	64	9	HA	311090R
M311.0012.01B	12	100	32	9	HB	311090R
M311.0012.02B	12	100	45	9	HB	311090R
M311.0012.03B	12	120	64	9	HB	311090R
M311.0016.01B	16	100	32	9	HB	311090R
M311.0016.02B	16	110	45	9	HB	311090R
M311.0016.03B	16	130	64	9	HB	311090R
M311.0012.01E	12	100	32	9	HE	311090R
M311.0012.02E	12	100	45	9	HE	311090R
M311.0012.03E	12	120	64	9	HE	311090R
M311.0016.01E	16	100	32	9	HE	311090R
M311.0016.02E	16	110	45	9	HE	311090R
M311.0016.03E	16	130	64	9	HE	311090R

w, Ds, tmax voir plaquettes
w, Ds, tmax vd. Inserti

Pièces Détachées

Ricambi

Corps de fraise Corpo fresa	Vis de serrage Vite di serraggio	Tournevis TORX PLUS® Cacciavite TORX PLUS®
M311...	4.14T15P	T15PQ



Número de commande Codice prodotto	d	l_1	l_2	d_1	Forme Forma	HWS
M311.ST10.01A	10	60	18	9	HA	311090R
M311.ST12.01A	12	70	18	9	HA	311090R
M311.ST13.01A	13	70	26	9	HA	311090R
M311.ST16.01A	16	80	26	9	HA	311090R
M311.ST10.01B	10	60	18	9	HB	311090R
M311.ST12.01B	12	70	18	9	HB	311090R
M311.ST16.01B	16	80	26	9	HB	311090R

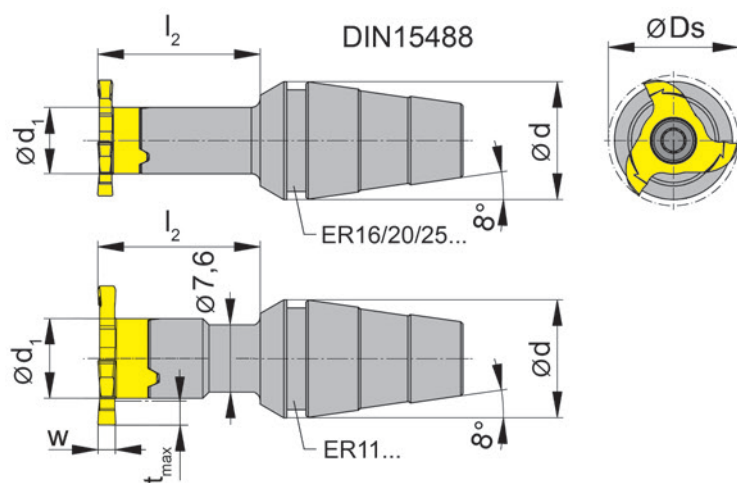
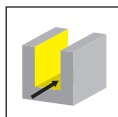
w, D_s , t_{max} voir plaquettes
w, D_s , t_{max} vd. Inserti

Pièces Détachées

Ricambi

Corps de fraise Corpo fresa	Vis de serrage Vite di serraggio	Tournevis TORX PLUS® Cacciavite TORX PLUS®
M311...	4.14T15P	T15PQ

B



Numéro de commande Codice prodotto	d	l ₂	d ₁	Bague de serrage Ghiera di bloccaggio	HWS
M311.ER11.02	11	22	9	ER11.6499	311090R
M311.ER25.02	25	22	9	ER25.6499	311090R
M311.ER16.02	16	22	9	ER16.6499/ERM16.6499	311090R
M311.ER20.02	20	22	9	ER20.6499/ERM20.6499	311090R
M311.ER20.14.01	20	19,7	12,5	ER20.6499/ERM20.6499	311090R
M311.ER25.14.01	25	19,7	14,5	ER25.6499	311090R

w, Ds, tmax voir plaquettes

w, Ds, tmax vd. Inserti

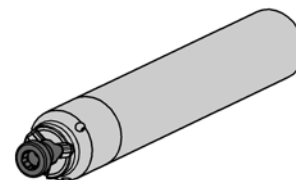
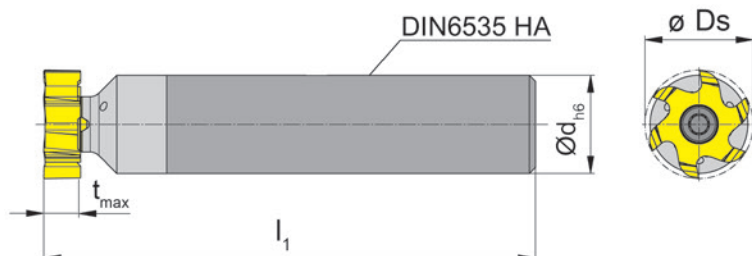
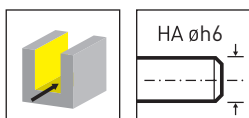
L'écrou de serrage est vendu séparément!

La ghiera di bloccaggio non è compresa con la fresa - deve essere ordinata separatamente

Pièces Détachées

Ricambi

Corps de fraise Corpo fresa	Vis de serrage Vite di serraggio	Tournevis TORX PLUS® Cacciavite TORX PLUS®
M311.E...	4.14T15P	T15PQ
M311.ER25.14.01	4.14T15P	T15PL



Numéro de commande Codice prodotto	d	l ₁	Forme Forma	HWS
M311.0012.D.00A	12	80	HA	311090R
M311.0016.D.00A	16	80	HA	311090R

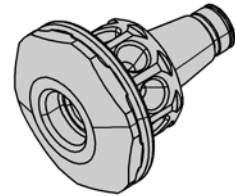
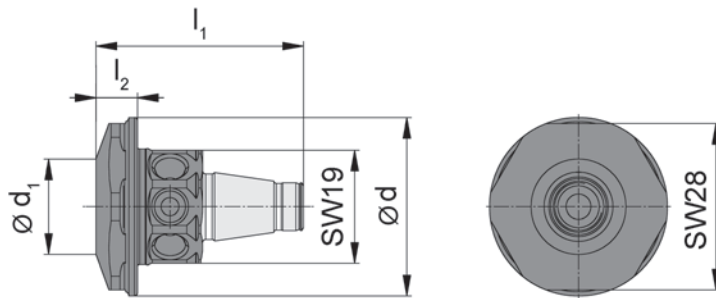
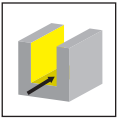
tmax et Ds voir plaquettes
tmax e Ds vd. inserti

Pièces Détachées

Ricambi

Corps de fraise Corpo fresa	Vis de serrage Vite di serraggio	Tournevis TORX PLUS® Cacciavite TORX PLUS®
M311...	4.14T15P	T15PQ

B

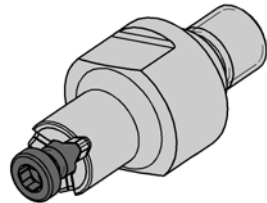
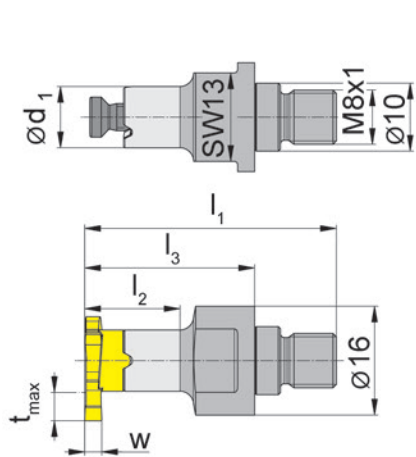


Numéro de commande Codice prodotto	l_1	l_2	d_1	d
WFB.2012.M081.01	35	7	16	30

pour Corps de fraise vissé
per Fresa avvitabile



B



Numéro de commande Codice prodotto	l_1	l_2	l_3	d_1	SW	HWS	HMS
M311.M081.01	37	14	25	9	13	311090R	8201

w, D_s , t_{max} voir plaquettes
w, D_s , t_{max} vd. Inserti

Pièces Détachées
Ricambi

Corps de fraise vissé Fresa avvitabile	Vis de serrage Vite di serraggio	Tournevis TORX PLUS® Cacciavite TORX PLUS®
M311.M081.01	4.14T15P	T15PQ

B

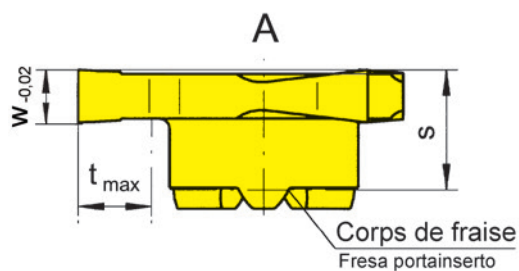
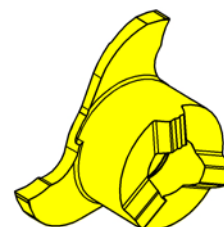
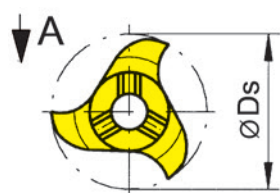
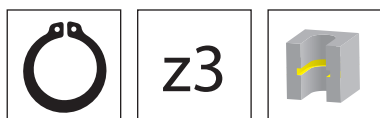


Illustration de coupe à droite représentée
Figura = taglio destro

▲ en stock
a stock

Nuance
Leghe
Δ 4 semaines
4 settimane

Numéro de commande Codice prodotto	Ds	Nw	w	s	t _{max}	Z	HIS	AS45	TN35
311.0110.00	17,7	1,1	1,21	5,75	3,5	3	311090R	▲	▲
311.0130.00	17,7	1,3	1,41	5,75	3,5	3	311090R	Δ	▲
311.0160.00	17,7	1,6	1,71	5,75	3,5	3	311090R	Δ	▲

Largeurs pour gorges circlips DIN 471/472
Larghezza per esecuzione anelli Seeger DIN 471/472

P	●	●
M	●	●
K	●	●
N	○	●
S	●	●
H	-	-

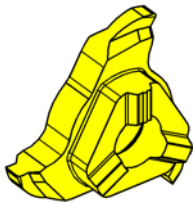
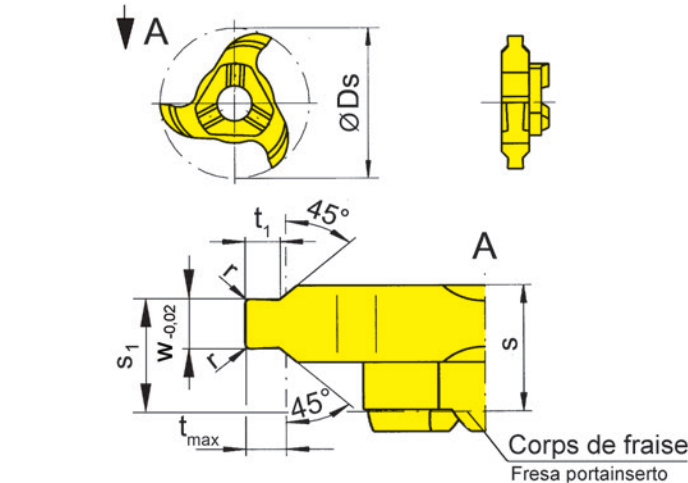


Illustration de coupe à droite représentée
Figura = taglio destro

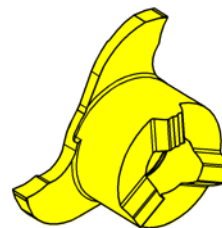
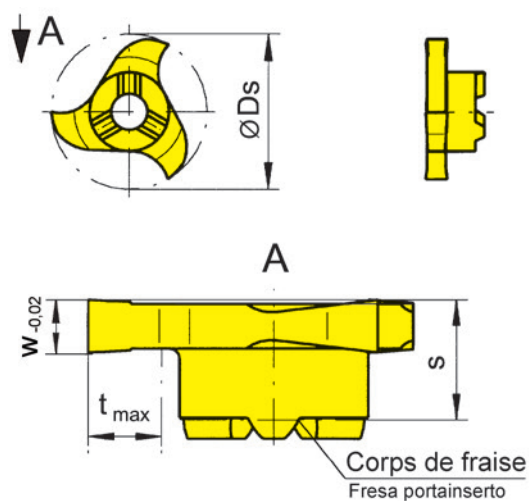
▲ en stock ▲ 4 semaines
a stock 4 settimane

Numéro de commande Codice prodotto	Ds	Nw	w	t_1	s	s_1	r	t_{max}	Z	HIS	AS45
311.1307.30	17,7	1,3	1,41	0,65	5,95	4,7	-	0,7	3	311090R	▲
311.1812.35	17,7	1,85	1,96	1,21	5,95	5	0,2	1,25	3	311090R	▲

Largeurs de gorges circlips DIN 471/472 avec chanfrein
Larghezza gole Seeger DIN 471/472 con smusso

P	●
M	●
K	●
N	o
S	●
H	-

B



Nuance
Leghe

▲ en stock
a stock

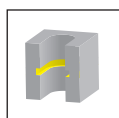
Δ 4 semaines
4 settimane

Illustration de coupe à droite représentée
Figura = taglio destro

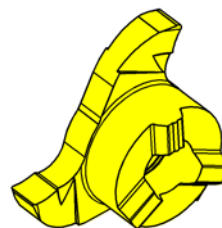
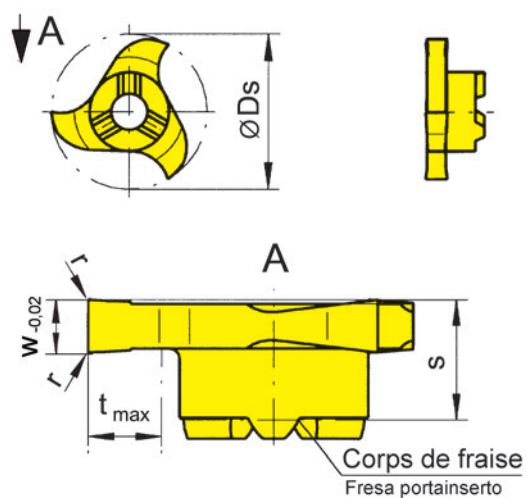
Numéro de commande Codice prodotto	Ds	Nw	w	s	t _{max}	Z	HIS	Ti25
311.0110.40	17,7	1,1	1,21	5,75	3,5	3	311090R	▲
311.0130.40	17,7	1,3	1,41	5,75	3,5	3	311090R	▲
311.0160.40	17,7	1,6	1,71	5,75	3,5	3	311090R	Δ

Largeurs pour gorges circlips DIN 471/472
Larghezza per esecuzione anelli Seeger DIN 471/472

P	-
M	-
K	-
N	•
S	-
H	-



z3



Nuance
Leghe

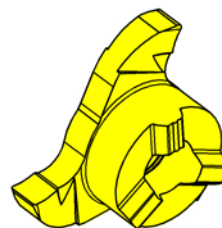
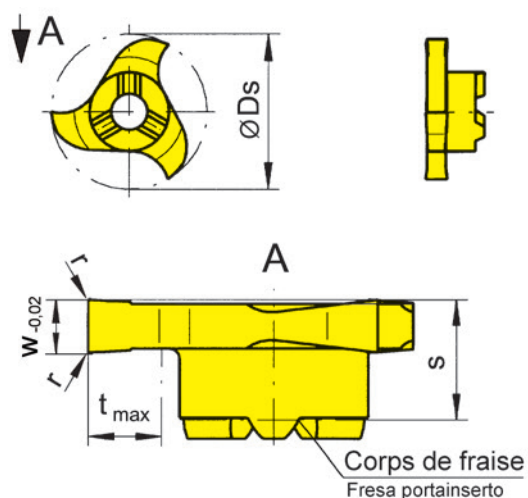
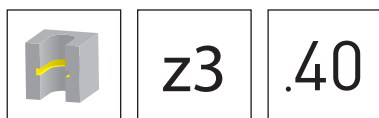
▲ en stock
a stock

Δ 4 semaines
4 settimane

Illustration de coupe à droite représentée
Figura = taglio destro

Numéro de commande Codice prodotto	Ds	w	s	r	t _{max}	Z	HIS	AS45	EG55	TN35
311.0100.00	17,7	1	5,75	-	3,5	3	311090R		Δ	
311.0150.00	17,7	1,5	5,75	-	3,5	3	311090R	▲		▲
311.0200.00	17,7	2	5,75	0,2	3,5	3	311090R	▲		▲
311.0250.00	17,7	2,5	5,75	0,2	3,5	3	311090R	▲		▲
311.0300.00	17,7	3	5,75	0,2	3,5	3	311090R	▲		▲
311.0400.00	17,7	4	5,75	0,2	3,5	3	311090R	▲		
P	●	●	●							
M	●	○	●							
K	●	○	●							
N	○	-	●							
S	●	-	●							
H	-	-	-							

B



Nuance
Leghe

▲ en stock
a stock

Δ 4 semaines
4 settimane

Illustration de coupe à droite représentée
Figura = taglio destro

Numéro de commande Codice prodotto	Ds	w	s	r	t _{max}	Z	HIS	Ti25
311.0150.40	17,7	1,5	5,75	-	3,5	3	311090R	▲
311.0200.40	17,7	2	5,75	0,2	3,5	3	311090R	▲
311.0250.40	17,7	2,5	5,75	0,2	3,5	3	311090R	▲
311.0300.40	17,7	3	5,75	0,2	3,5	3	311090R	▲
311.0400.40	17,7	4	5,75	0,2	3,5	3	311090R	▲
							P	●
							M	●
							K	●
							N	●
							S	●
							H	-

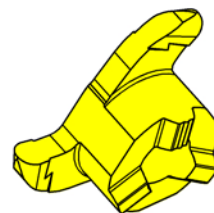
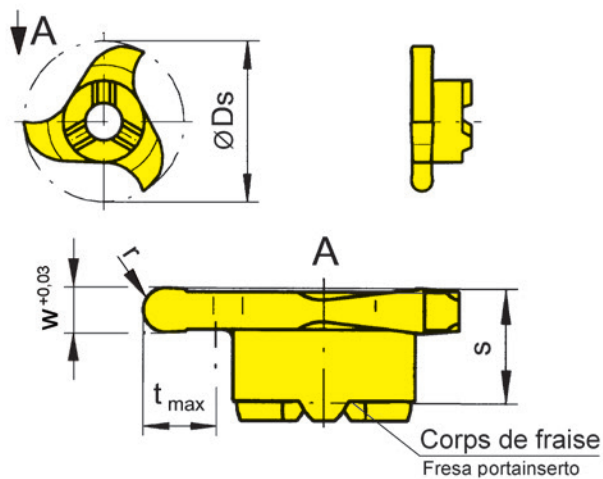
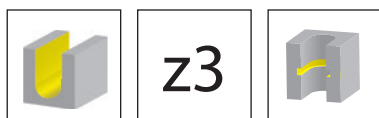


Illustration de coupe à droite représentée
Figura = taglio destro

▲ en stock
a stock

Nuance
Leghe
Δ 4 semaines
4 settimane

Numéro de commande Codice prodotto	Ds	w	s	r	t _{max}	Z	HIS	AS45	TN35
311.0007.15	17,7	1,5	5,75	0,75	3,5	3	311090R	▲	
311.0010.20	17,7	2	5,75	1	3,5	3	311090R	▲	
311.0011.22	17,7	2,2	5,75	1,1	3,5	3	311090R	▲	▲
311.0015.30	17,7	3	5,75	1,5	3,5	3	311090R	▲	
311.0020.40	17,7	4	5,75	2	3,5	3	311090R	▲	
								P	●
								M	●
								K	●
								N	○
								S	●
								H	-

B

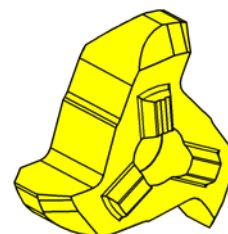
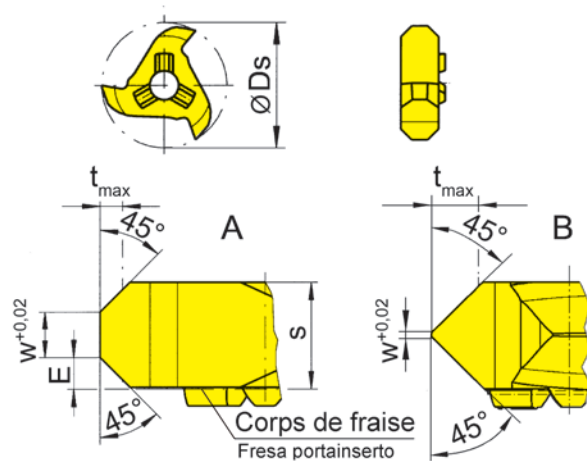
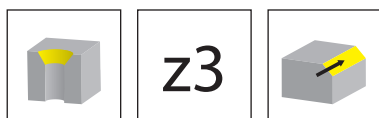


Illustration de coupe à droite représentée
Figura = taglio destro

▲ en stock
a stock

Nuance
Leghe
Δ 4 semaines
4 settimane

Número de commande Codice prodotto	Ds	E	s	w	Forme Forma	t _{max}	Z	HIS		Ti25	TN35
311.4545.00	17,7	1,7	5,95	2,5	A	1,4	3	311090R			▲
311.4545.20	15	2,95	5,95	0,2	B	2,5	3	311090R		▲	▲
									P	●	●
									M	●	●
									K	●	●
									N	●	●
									S	●	●
									H	-	-

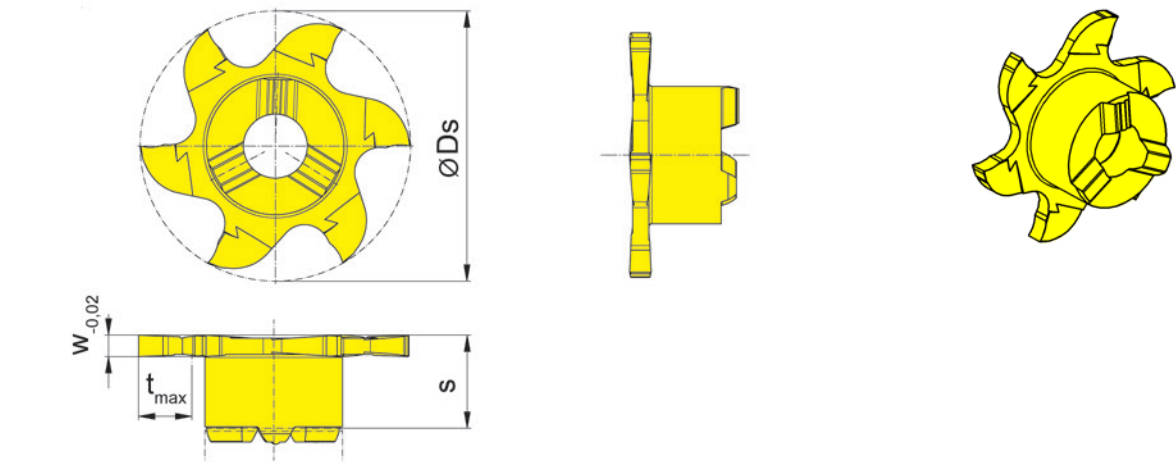
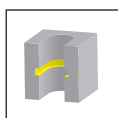


Illustration de coupe à droite représentée
Figura = taglio destro

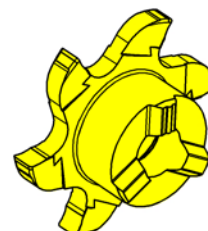
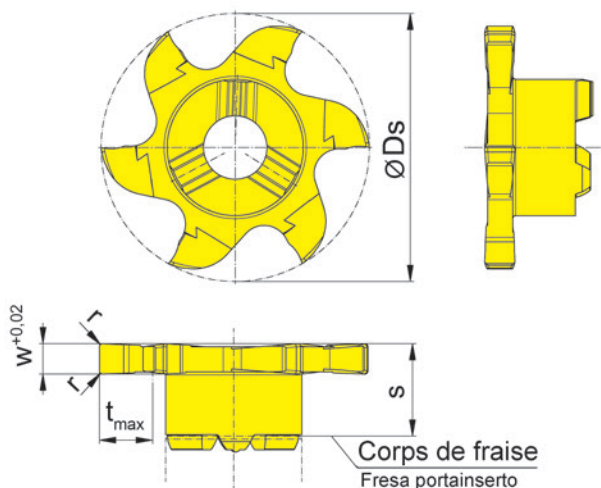
Nuance
Leghe
▲ en stock
a stock
Δ 4 semaines
4 settimane

Numéro de commande Codice prodotto	Ds	Nw	w	s	t _{max}	Z	HIS	Nuance Leghe	
								AS45	TI25
611.0110.00	17,7	1,1	1,21	6,1	3,5	6	311090R	▲	▲
611.0130.00	17,7	1,3	1,41	6,1	3,5	6	311090R	▲	▲
611.0160.00	17,7	1,6	1,71	6,1	3,5	6	311090R	▲	▲
Largeurs pour gorges circlips DIN 471/472 Larghezza per esecuzione anelli Seeger DIN 471/472								P	●
								M	●
								K	●
								N	○
								S	●
								H	-

B



z6



Nuance
Leghe

▲ en stock
a stock

Δ 4 semaines
4 settimane

Illustration de coupe à droite représentée
Figura = taglio destro

Numéro de commande Codice prodotto	Ds	w	s	r	t _{max}	Z	HIS	AS45	EG35	EG55	TI25
611.0050.00	17,7	0,5	6,1	-	3,5	6	311090R		▲		
611.0100.00	17,7	1	6,1	-	3,5	6	311090R			▲	
611.0150.00	17,7	1,5	6,1	-	3,5	6	311090R	▲			▲
611.0200.00	17,7	2	6,1	0,2	3,5	6	311090R	▲			▲
611.0250.00	17,7	2,5	6,1	0,2	3,5	6	311090R	▲			▲
611.0300.00	17,7	3	6,1	0,2	3,5	6	311090R	▲			▲
611.0400.00	17,7	4	6,1	0,2	3,5	6	311090R	▲			

A partir de la largeur 2,5 mm de gorges, dents avec un angle d'hélice
Dalla larghezza 2,5 mm, il taglio è a taglienti alternati

P	●	●	●	●
M	●	●	○	●
K	●	○	○	●
N	○	-	-	●
S	●	-	-	●
H	-	-	-	-

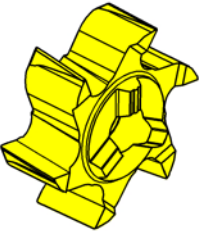
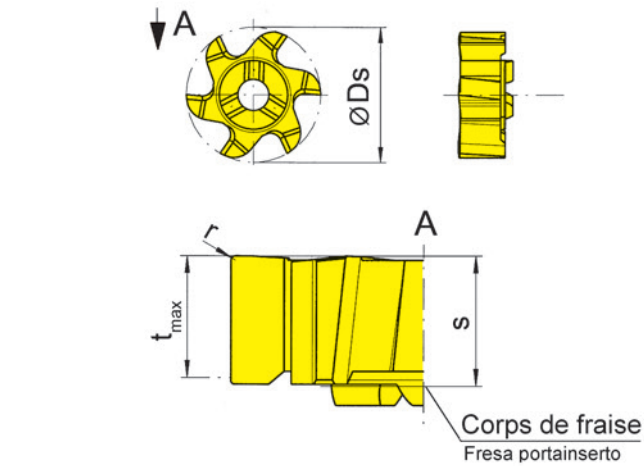
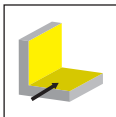
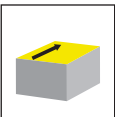


Illustration de coupe à droite représentée
Figura = taglio destro

▲ en stock
a stock

Δ 4 semaines
4 settimane

Nuance
Leghe

Numéro de commande Codice prodotto	Ds	Z	r	t _{max}	s	HIS		AS45	TF45	TI25
611.PL61.62	17,7	6	0,2	5,7	6,1	311090R		▲	▲	▲
							P	●	●	●
							M	●	●	●
							K	●	●	●
							N	○	●	●
							S	●	●	●
							H	-	-	-

B

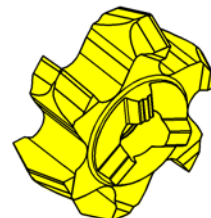
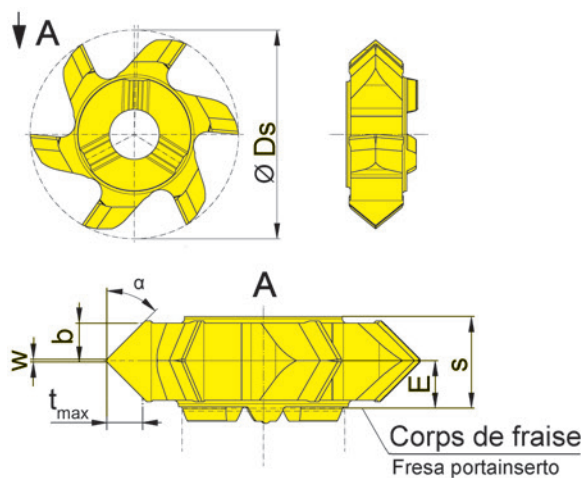
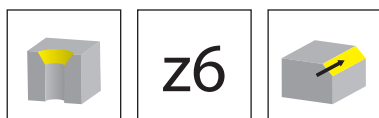
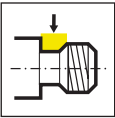


Illustration de coupe à droite représentée
Figura = taglio destro

▲ en stock
a stock

Nuance
Leghe
Δ 4 semaines
4 settimane

Numéro de commande Codice prodotto	Ds	E	s	w	α	b	t _{max}	Z	HIS	AS45	TA45	TI25
611.1515.20	17,7	3,2	6,3	0,2	15°	2,8	0,75	6	311090R	▲	▲	
611.2020.20	17,7	3,2	6,3	0,2	20°	2,8	1	6	311090R	▲	▲	
611.3030.20	17,7	3,2	6,3	0,2	30°	2,8	1,6	6	311090R	▲	▲	
611.4545.20	17,7	3,2	6,3	0,2	45°	2,3	2,3	6	311090R	▲		▲
										P	●	●
										M	●	●
										K	●	●
										N	○	●
										S	●	●
										H	-	-



z6

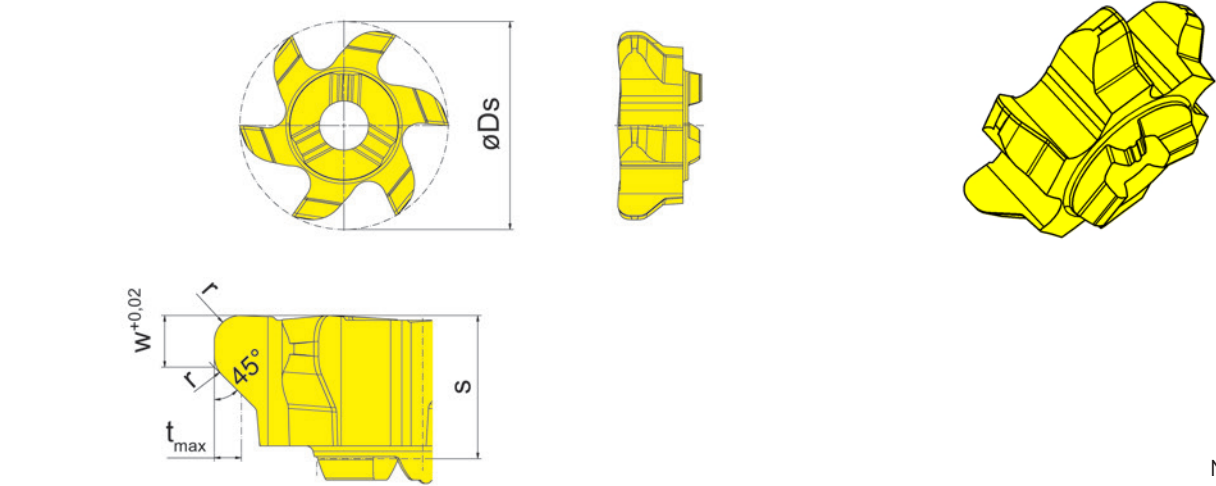


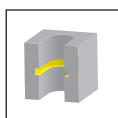
Illustration de coupe à droite représentée
Figura = taglio destro

Nuance
Leghe
▲ en stock
a stock
Δ 4 semaines
4 settimane

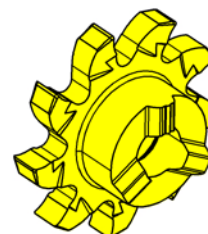
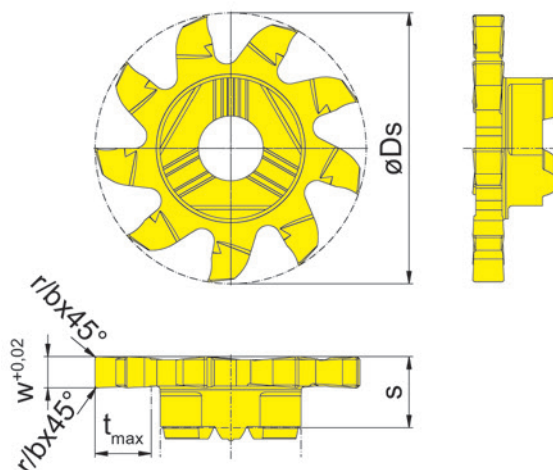
Numéro de commande Codice prodotto	Ds	w	s	r	t _{max}	Z	HIS	EG55
611.1725.61	17,7	2,2	6,1	1,1	1,3	6	311090R	▲
								P ●
								M o
								K o
								N -
								S -
								H -

Gorge pour Filetage suivant DIN 76
Gole scarico filetto secondo DIN 76

B



z9



Nuance
Leghe

▲ en stock
a stock

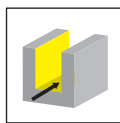
Δ 4 semaines
4 settimane

Illustration de coupe à droite représentée
Figura = taglio destro

Numéro de commande Codice prodotto	D_s	w	s	$b \times 45^\circ$	r	t_{max}	Z	HIS		EG55	IG65
911.0150.00	17,7	1,5	6,1	0,05	-	3,5	9	311090R	▲	Δ	
911.0200.00	17,7	2	6,1	-	0,2	3,5	9	311090R	▲	Δ	
911.0250.00	17,7	2,5	6,1	-	0,2	3,5	9	311090R	▲	Δ	
911.0300.00	17,7	3	6,1	-	0,2	3,5	9	311090R	▲	Δ	
									P	●	●
									M	○	●
									K	○	-
									N	-	-
									S	-	○
									H	-	-



Corps de fraise
Corpo fresa
M116

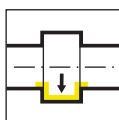


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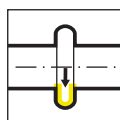
Plaquette de coupe
Inserto
116



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