

CATALOGUE / PRICELIST 2022



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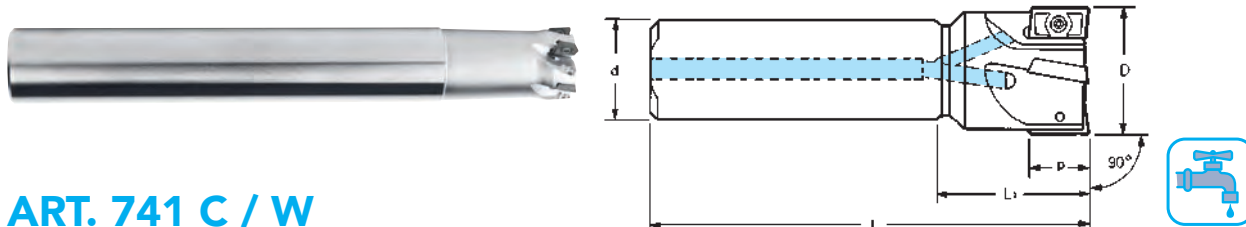
MILLING



HIGH QUALITY TOOLS

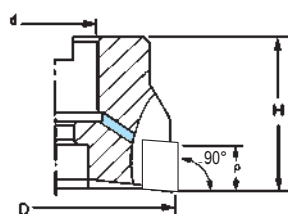


Frese per spallamenti | Eckfräser | Shoulder milling cutters



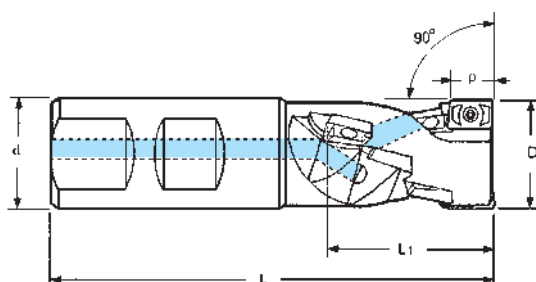
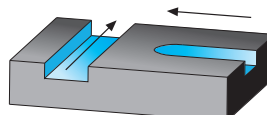
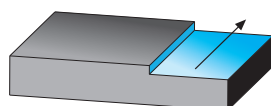
ART. 741 C / W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
D	d	L	L ₁	p	z							
741C W D10/2 N	10	10	80	28	5,2	2	APKT APMX 0602...	VT18 06	BT06	0,060	●	109,-
741C W D12/3 N	12	12	80	30	5,2	3				0,080	●	134,50
741C W D14/3 N	14	12	85	32	5,2	3				0,120	●	134,50
741W W D16/4 N	16	16	85	35	5,2	4				0,160	●	175,-
741W W D18/4 N	18	16	90	38	5,2	4				0,170	●	175,-
741W W D20/5 N	20	20	90	40	5,2	5				0,300	●	201,50
741W W D25/7 N	25	20	106	50	5,2	7				0,320	●	222,50
741W W D32/8 N	32	25	124	64	5,2	8				0,560	●	238,50



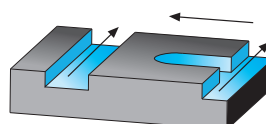
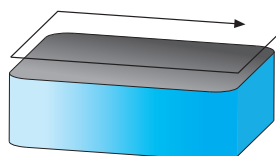
ART. 741 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
D	d	H	p	z							
741M W D32/8 N	32	16	40	5,2	8	APKT APMX 0602...	VT18 06	BT06	0,250	●	247,50
741M W D40/10 N	40	16	40	5,2	10				0,270	●	278,50
741M W D50/11 N	50	22	40	5,2	11				0,430	●	300,-



ART. 941 W

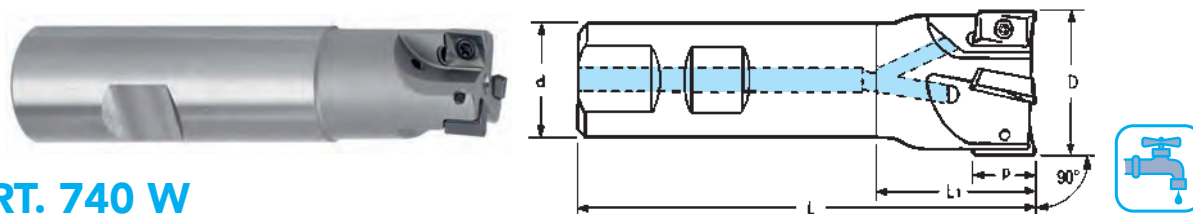
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	D	dh6	L	L ₁	p	Fattore K	Z				kg		
941W W D16	16	16	80	19,8	5,2	2	8	APKT 0602...	VT18 06	BT06	0,160	●	401,-
941W W D20	20	20	90	24,6	5,2	3	15				0,300	●	604,-
941W W D25	25	25	100	29,4	5,2	5	30				0,320	●	756,50



● Disponibile - Lieferbar - On stock

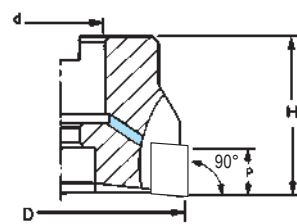
○ A richiesta - Auf Anfrage - On request

ART. 740 W

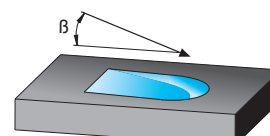
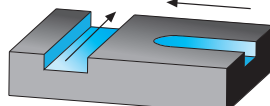
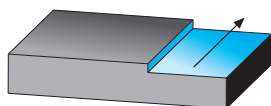


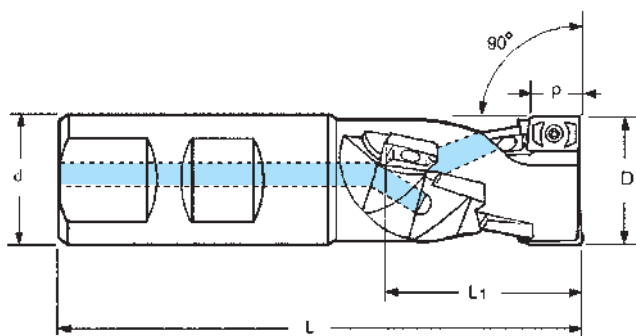
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	d	L	L ₁	p	β	z				kg		
740W W D10/1	10	16	80	24	10	11,0°	1				0,100	●	81,-
740W W D11/1	11	16	80	24	10	11,0°	1				0,100	●	101,-
740W W D12/1	12	16	80	24	10	9,0°	1				0,120	●	81,-
740W W D13/1	13	16	80	24	10	8,5°	1				0,120	●	101,-
740W W D14/1	14	16	80	24	10	8,0°	1				0,120	●	101,-
740W W D15/2	15	16	85	25	10	4,0°	2				0,120	●	105,-
740W W D15,7/2	15,7	16	85	25	10	3,5°	2				0,120	●	105,-
740W W D16/2	16	16	85	25	10	3,5°	2				0,130	●	96,-
740W W D17/2	17	16	85	25	10	3,0°	2				0,130	●	107,-
740W W D18/2	18	20	85	25	10	2,5°	2				0,170	●	101,-
740W W D19,5/3	19,5	20	90	25	10	1,5°	3				0,180	●	139,-
740W W D19,7/3	19,7	20	90	25	10	1,5°	3				0,180	●	139,-
740W W D20/3	20	20	90	25	10	1,5°	3				0,200	●	128,-
740W W D22/3	22	25	95	25	10	1,5°	3				0,220	●	133,50
740W W D24,7/4	24,7	25	95	25	10	0,9°	4				0,320	●	187,50
740W W D25/3	25	25	95	25	10	0,9°	3				0,320	●	133,50
740W W D25/4	25	25	95	25	10	0,9°	4				0,340	●	150,-
740W W D28/4	28	25	95	25	10	0,9°	4				0,340	●	155,50
740W W D30/4	30	25	95	25	10	0,8°	4				0,340	●	165,50
740W W D31,7/5	31,7	25	95	26	10	0,6°	5				0,360	●	202,50
740W W D32/5	32	25	95	31	10	0,6°	5				0,380	●	182,50
Serie lunga - Lange Ausführung - Long models													
740W WL D10/1	10	16	150	24	10	11,0°	1				0,200	●	107,-
740W WL D12/1	12	16	150	24	10	9,0°	1				0,200	●	107,-
740W WL D16/2	16	16	150	100	10	3,5°	2				0,210	●	123,-
740W WL D18/2	18	16	150	25	10	2,5°	2				0,330	●	165,50
740W WL D20/3	20	20	150	100	10	1,5°	3				0,330	●	155,50
740W WL D25/4	25	20	150	100	10	0,9°	4				0,350	●	176,-
740W WL D32/5	32	25	150	26	10	0,6°	5				0,560	●	208,50

ART. 740 M



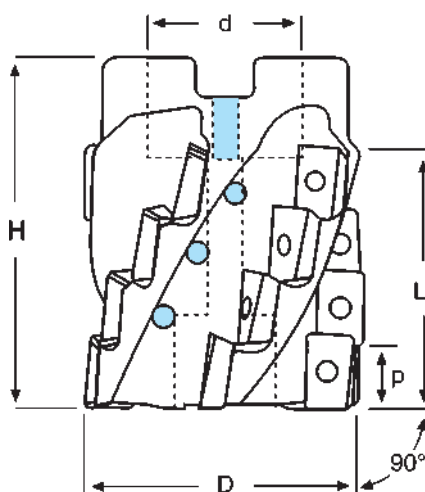
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	d	H	p	β	z				kg			
740M W D40/6	40	16	40	10	-	6				0,270	●	219,50	
740M W D50/7	50	22	40	10	-	7				0,430	●	251,50	
740M W D63/8	63	22	40	10	-	8				0,610	●	347,-	
740M W D80/11	80	27	50	10	-	11				1,220	●	480,50	
740M W D100/12	100	32	50	10	-	12				1,980	●	502,-	





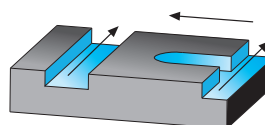
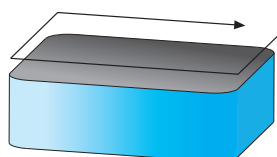
ART. 900 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	d	L	L ₁	p	Fattore K	Z						
900W W D20	20	20	87	28	10	1	4	APHT APHX APKT 1003...	VT25	BT08	0,200	●	346,-
900W W D25	25	25	105	37	10	2	8				0,360	●	401,50
900W W D32/2	32	32	115	46	10	2	10				0,600	●	516,50
900W W D32/3	32	32	115	46	10	3	15				0,600	●	622,50
900W W D40	40	32	130	55	10	3	18				0,780	●	713,50



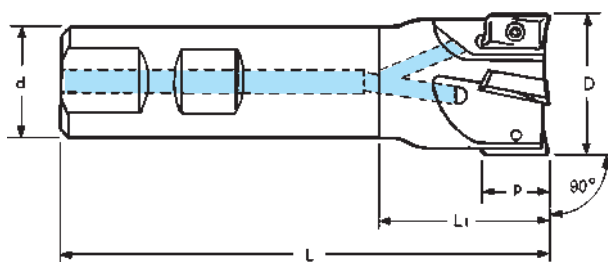
ART. 900 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	d	H	Lt	p	Fattore K	Z				kg		
900M W D40	40	16	50	37	10	3	12	APHT APHX APKT 1003...	VT25	BT08	0,250	●	625,50
900M W D50	50	22	60	46	10	3	15				0,510	●	760,-
900M W D63	63	27	60	46	10	4	20				0,940	●	908,-



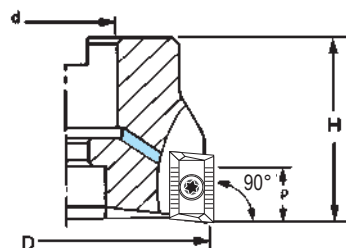
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



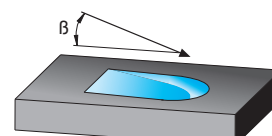
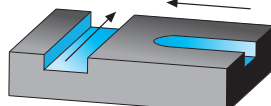
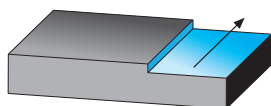
ART. 730 W

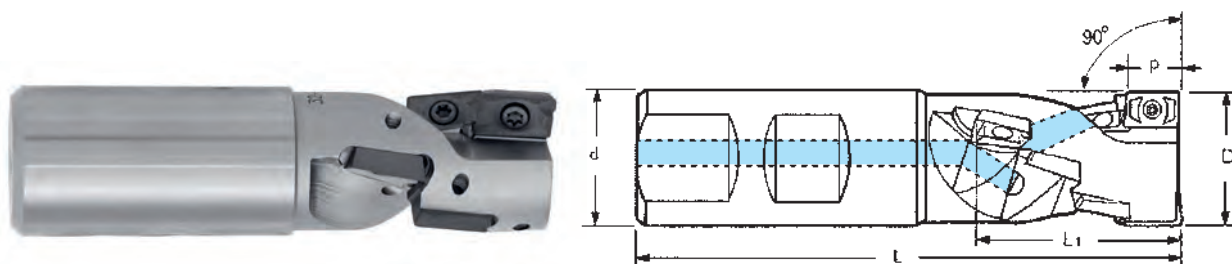
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	d	L	L ₁	p	β	z						
730W W D25/2	25	25	100	44	17	3,5°	2	APHT	VT40	BT15	0,380	●	129,50
730W W D32/3	32	32	110	50	17	2,0°	3	APHX			0,640	●	141,-
730W W D40/4	40	32	115	45	17	1,5°	4	APKT 1604 ...			0,760	●	178,-
Serie lunga - Lange Ausführung - Long models													
730W WL D22/2	22	20	200	145	17	3,3°	2	APHT APHX APKT 1604 ...	VT40	BT15	0,440	●	211,50
730W WL D25/2	25	25	200	140	17	3,5°	2				0,640	●	222,50
730W WL D32/3	32	32	200	140	17	2,0°	3				1,120	●	259,-
730W WL D40/4	40	32	200	60	17	1,5°	4				1,300	●	305,50



ART. 730 M

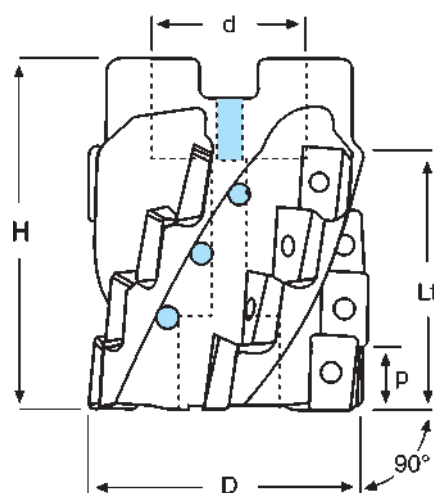
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	H	p	β	z						
730M W D40/4	40	16	40	17	1,8°	4	APHT APHX APKT 1604 ...	VT40	BT15	0,210	●	161,50
730M W D50/5	50	22	40	17	1,0°	5				0,290	●	178,-
730M W D63/6	63	22	40	17	0,7°	6				0,530	●	197,50
730M W D80/7	80	27	50	17	0,6°	7				1,180	●	256,50
730M W D100/8	100	32	50	17	0,4°	8				1,670	●	320,-
730M W D125/9	125	40	63	17	0,3°	9				3,110	●	374,-
730M D160/10 	160	40	63	17	-	10				5,280	●	581,-
730M D200/12 	200	60	63	17	-	12				10,200	●	877,50
730M D250/16 	250	60	63	17	-	16				13,810	●	1349,-



Frese a riccio | *Schaftschruppfräser* | Helical end mills

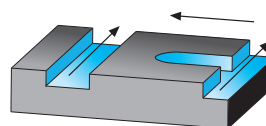
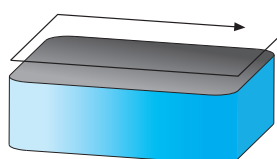
ART. 850 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	d	L	L ₁	p	Fattore K	Z						
850W W D25	25	25	105	29	17	1	2	APHT APHX APKT 1604...	VT40	BT15		0,320	● 357,-
850W W D32	32	32	115	44	17	2	6					0,520	● 478,50
850W W D40	40	32	130	58	17	2	8					0,760	● 556,-



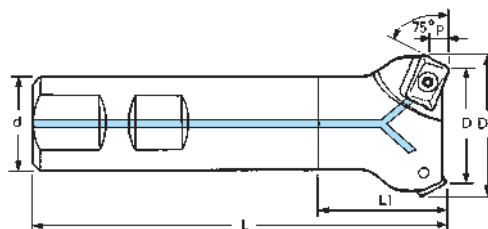
ART. 850 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	d	H	Lt	p	Fattore K	Z						
850M W D50	50	27	56	30	16	3	6	APHT APHX APKT 1604...	VT40	BT15		0,460	● 455,-
850M W D63	63	27	60	44	16	4	12					0,820	● 556,-
850M W D80	80	32	60	44	16	5	15					1,380	● 743,-
850M W D100	100	40	60	44	16	6	18					1,730	● 981,-



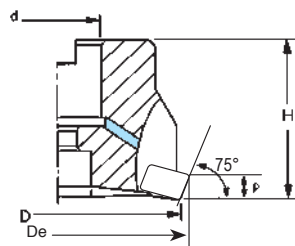
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



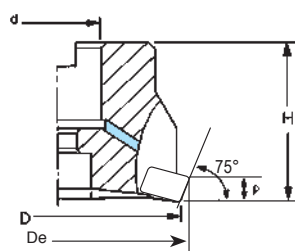
ART. 770 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	De	d	L	L1	p	z				kg			
770W W D25/2	25	28,6	20	95	25	4	2	APHT APHX APKT 1003	VT25	BT08	0,220	●	153,-
770W W D32/3	32	35,6	25	95	25	4	3	...			0,320	●	188,50
770W W D40/4	40	43,6	25	100	25	4	4				0,400	●	229,50



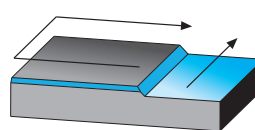
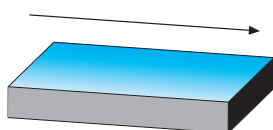
ART. 770 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI <i>Abmessungen</i> Dimensions (mm.)										STOCK	PRICELIST €
	D	De	d	H	p	z				kg		
770M W D50/5	50	54	22	40	6,5	5	APHT APHX APKT 1003	VT25	BT08	0,360	●	235,-
770M W D63/6	63	67	22	40	6,5	6	...			0,600	●	265,-



ART. 760 M

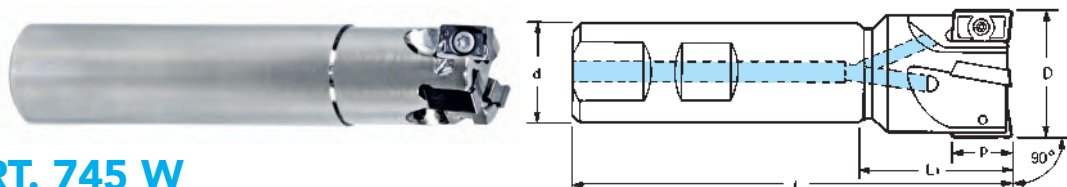
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	De	d	H	p	z						
760M W D50/3	50	54	16	40	6,5	3	APHT APHX APKT 1604	VT40	BT15	0,310	●	183,50
760M W D63/4	63	67	22	40	6,5	4				0,540	●	218,50
760M W D80/5	80	84	27	50	6,5	5				1,150	●	253,50
760M W D100/6	100	104	32	50	6,5	6				1,800	●	289,-
760M W D125/7	125	129	40	63	6,5	7				3,140	●	347,-



● Disponibile - Lieferbar - On stock

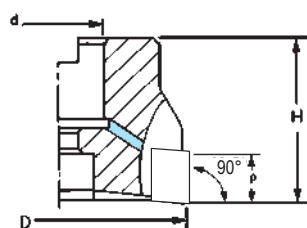
○ A richiesta - Auf Anfrage - On request

Frese per spallamenti | Eckfräser | Shoulder milling cutters



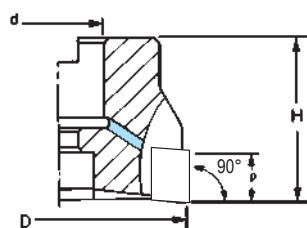
ART. 745 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	d	L	L ₁	p	β	z							
745W W D20/3	20	20	100	30	9	4,0°	3	LNEX LNKX LNMX 1006...	VT30 745	BT09		0,220	● 149,-
745W W D25/3	25	25	115	35	9	3,5°	3					0,400	● 185,50
745W W D32/4	32	25	125	40	9	3,0°	4					0,520	● 208,50
745W WL D20/3	20	20	150	50	9	4,0°	3					0,340	● 173,-
745W WL D25/3	25	25	150	50	9	3,5°	3					0,520	● 207,50
745W WL D32/4	32	32	200	60	9	3,0°	4					1,160	● 233,-



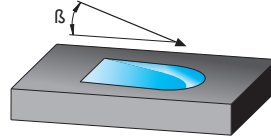
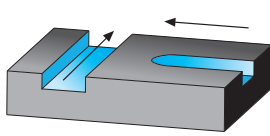
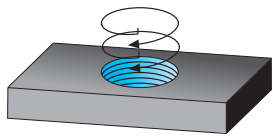
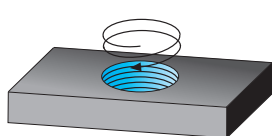
ART. 745 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	d	H	p	β	z								
745M W D40/5	40	16	40	9	2,0°	5	LNEX LNKX LNMX 1006...	VT30 745	BT09			0,260	● 244,50
745M W D50/7	50	22	40	9	1,5°	7						0,380	● 264,-
745M W D63/9	63	22	40	9	-	9						0,600	● 287,-



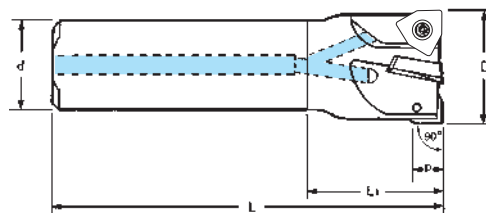
ART. 735 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	d	H	p	β	z								
735M W D50/5	50	22	40	14	2,0°	5	LNEX LNKX LNMX 1510...	VT40 735	BT15			0,320	● 244,50
735M W D63/6	63	22	40	14	2,0°	6						0,520	● 264,-
735M W D80/7	80	27	50	14	1,5°	7						1,120	● 287,-
735M W D100/8	100	32	50	14	-	8						1,830	● 342,-
735M W D125/10	125	40	63	14	-	10						3,520	● 577,-
735M W D160/11	160	40	63	14	-	11						5,280	● 745,50



● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



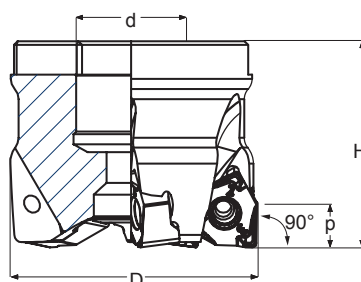
ART. 830 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	L	L ₁	p	z						
830W W D20/3	20	20	90	40	4	3					0,350	○ 157,50
830W W D25/4	25	25	100	44	4	4					0,600	○ 192,-
830W W D32/5	32	32	110	50	4	5					1,150	○ 213,50
830W WL D20/3	20	20	150	40	4	3					0,500	● 188,-
830W WL D25/4	25	25	170	50	4	4					0,750	● 228,50
830W WL D32/5	32	32	195	70	4	5					2,100	● 259,-

WNEU
0403
...

VT25 830

BT08



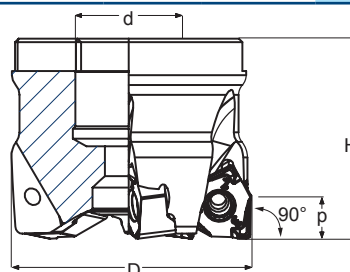
ART. 830 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	H	p	z							
830M W D32/6	32	16	40	4	6						0,140	● 244,-
830M W D40/6	40	16	40	4	6						0,300	● 249,-
830M W D50/8	50	22	40	4	8						0,500	● 269,-
830M W D63/9	63	22	40	4	9						0,540	● 289,50

WNEU
0403
...

VT25 830

BT08



ART. 835 M

NEW

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	H	p	z							
835M W D40/3	40	16	40	7	3						0,230	● 223,50
835M W D50/5	50	22	40	7	5						0,320	● 321,-
835M W D63/6	63	22	40	7	6						0,480	● 362,50
835M W D80/7	80	27	50	7	7						1,060	● 409,-
835M W D100/8	100	32	50	7	8						1,680	● 502,-
835M W D125/10	125	40	63	7	10						2,970	● 641,50
835M W D160/11	160	40	63	7	11						4,400	● 745,50

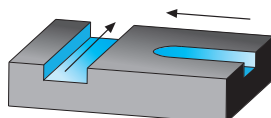
WNEU
WNEX
080608
...

VT40 835

BT15

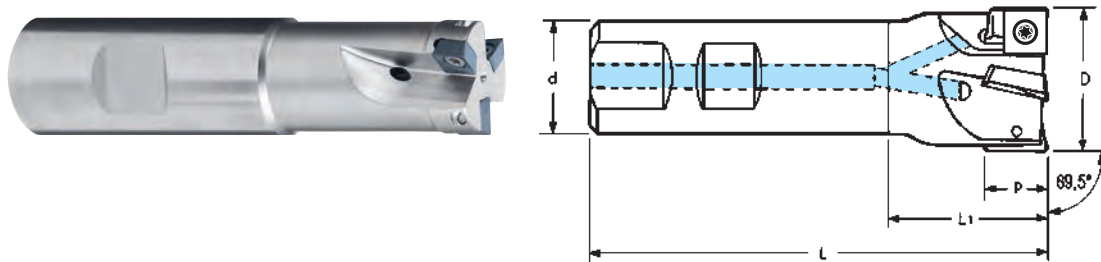
NEW

835M W D63F/7	63	22	40	7	7						0,480	● 457,-
835M W D80F/9	80	27	50	7	9						1,070	● 487,50
835M W D100F/10	100	32	50	7	10						1,650	● 609,-
835M W D125F/11	125	40	63	7	11						2,970	● 639,50
835M W D160F/12	160	40	63	7	12						4,350	● 934,-



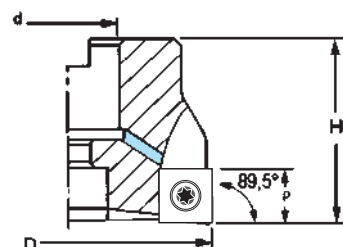
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



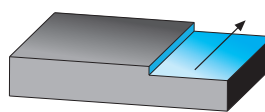
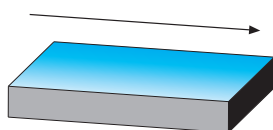
ART. 700 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	L	L ₁	p	z						
700W W D10/1	10	16	80	24	6	1	SPGT SPMT 060304 ...	VT25	BT08	0,100	○	78,-
700W W D12/1	12	16	80	24	6	1				0,120	○	78,-
700W W D16/2	16	16	85	37	6	2				0,130	●	102,50
700W W D20/3	20	20	90	40	6	3				0,200	●	133,50
700W W D25/4	25	25	95	39	6	4				0,340	●	164,50
700W W D32/5	32	25	95	30	6	5				0,380	○	185,50
Serie lunga - Lange Ausführung - Long models												
700W WL D16/2	16	16	150	101	6	2	SPGT SPMT 060304 ...	VT25	BT08	0,210	●	123,-
700W WL D20/3	20	20	150	101	6	3				0,330	●	164,50
700W WL D25/4	25	20	150	25	6	4				0,350	●	195,50
700W WL D32/5	32	25	150	30	6	5				0,560	○	216,50



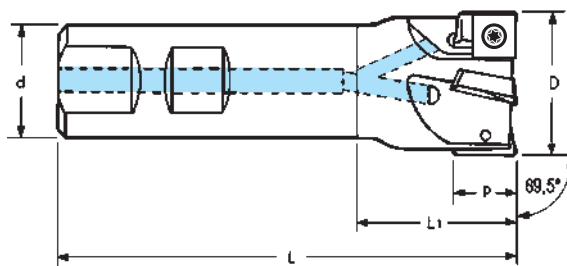
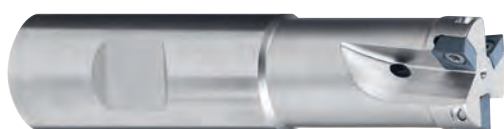
ART. 700 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
D	d	H	p	z							
700M W D40/6	40	16	40	6	6	SPGT SPMT 060304 ...	VT25	BT08	0,270	●	217,50
700M W D50/7	50	22	40	6	7				0,430	●	243,50
700M W D63/8	63	22	40	6	8				0,610	●	336,50



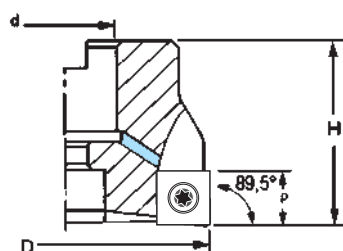
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



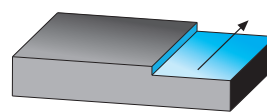
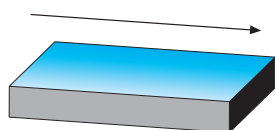
ART. 705 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	L	L ₁	p	z						
705W W D25/2	25	25	100	44	9	2	SPGT SPMT 09T308 ...	VT35S	BT15		0,380	● 134,50
705W W D32/3	32	32	110	50	9	3					0,640	● 160,50
705W W D40/4	40	32	115	45	9	4					0,760	● 206,-



ART. 705 M

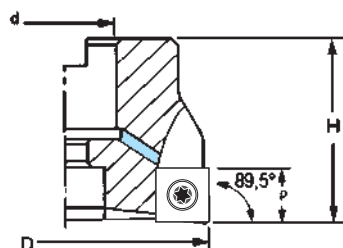
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	H	p	z							
705M W D40/4	40	16	40	9	4	SPGT SPMT 09T308 ...	VT35S	BT15			0,210	● 181,50
705M W D50/5	50	22	40	9	5						0,290	● 201,50
705M W D63/6	63	22	40	9	6						0,530	● 227,50
705M W D80/7	80	27	50	9	7						1,180	● 248,50
705M W D100/8	100	32	50	9	8						1,670	○ 311,-



● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

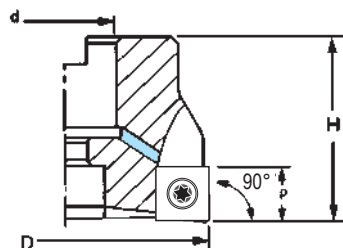
Frese per spallamenti | Eckfräser | Shoulder milling cutters



ART. 715 M

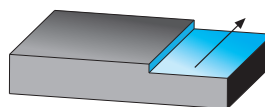
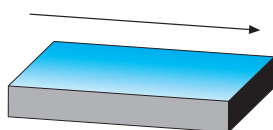
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
	D	d	H	p	z				kg		
715M W D50/5	50	22	40	12	5	SPGT SPMT 120408 ...	VT50	BT20	0,280	●	259,-
715M W D63/6	63	22	40	12	6				0,600	●	279,50
715M W D80/6	80	27	50	12	6				0,980	●	321,-
715M W D100/8	100	32	50	12	8				1,540	●	393,50
715M W D125/9	125	40	63	12	9				3,280	○	476,50

Frese per spianatura - spallamenti 90° | Planfräser - Eckfräser 90° | Face - shoulder milling cutters 90°



ART. 710 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
	D	d	H	p	z				kg		
710M W D40/4	40	16	45	10,5	4	SDMT 1205...	VT40 710	BT15	0,230	●	272,50
710M W D50/5	50	22	40	10,5	5				0,280	●	272,50
710M W D63/6	63	22	40	10,5	6				0,600	●	301,-
710M W D80/6	80	27	50	10,5	6				0,980	●	353,-
710M W D100/8	100	32	50	10,5	8				1,540	●	459,50
710M W D125/9	125	40	63	10,5	9				3,280	●	536,-

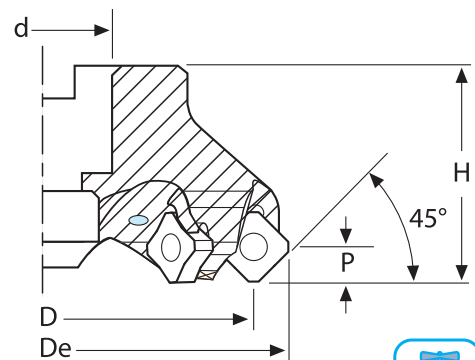
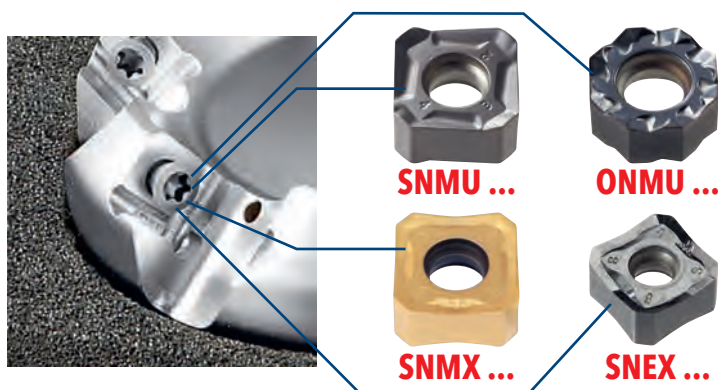


● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

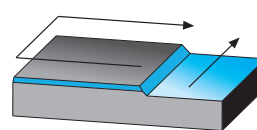
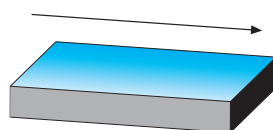


Stessa sede 2 tipologie di inserti
Doppleter Plattensitz
Double insert pocket



ART. 810 M

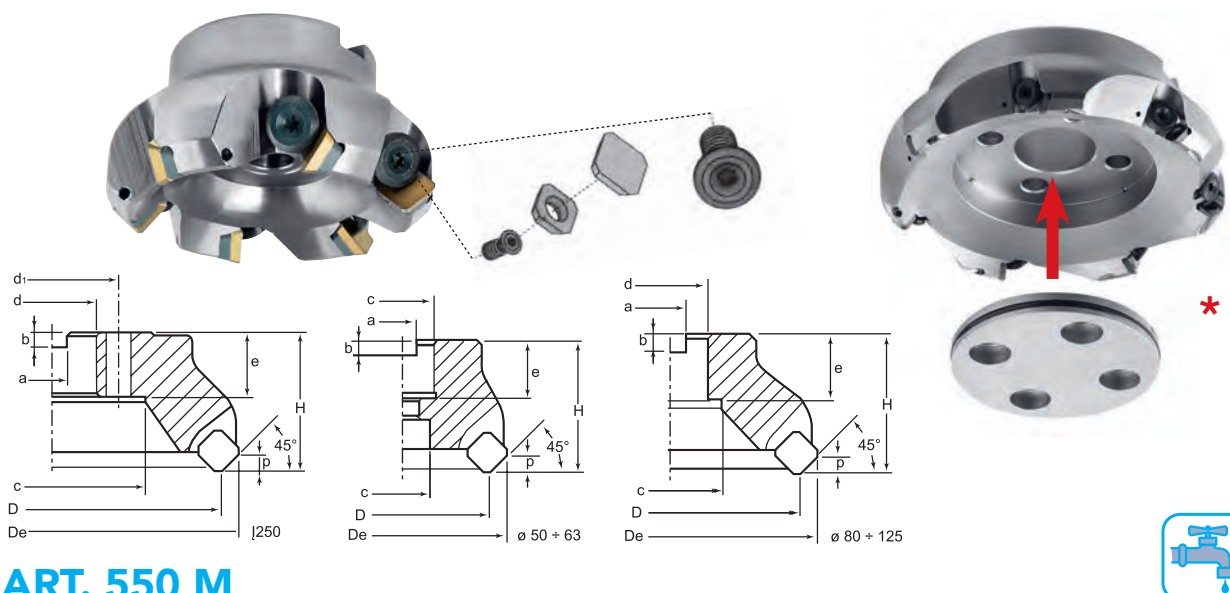
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	De	d	H	p	p	z						
810M W D50/4	50	63	22	40	6	3	4	SNEX SNKX SNMX 1206...	VT40S	BT20		0,520	● 184,50
810M W D63/6	63	76	22	40	6	3	6					0,640	● 213,50
810M W D80/7	80	93	27	50	6	3	7					1,250	● 259,-
810M W D100/8	100	113	32	50	6	3	8					1,830	● 299,-
810M W D125/10	125	138	40	63	6	3	10					3,920	● 352,-
810M W D160/12	160	173	40	63	6	3	12					5,280	● 587,-
810M W D200/14	200	213	60	63	6	3	14					10,200	● 1167,50
810M W D250/16	250	263	60	63	6	3	16					13,900	● 1467,-
810M W D50F/6	50	63	22	40	6	3	6	SNMU 1206...				0,520	● 247,-
810M W D63F/8	63	76	22	40	6	3	8					0,640	● 281,50
810M W D80F/10	80	93	27	50	6	3	10					1,250	● 339,50
810M W D100F/12	100	113	32	50	6	3	12					1,830	● 399,-
810M W D125F/16	125	138	40	63	6	3	16					3,920	● 645,-
810M W D160F/20	160	173	40	63	6	3	20					5,280	● 932,-



● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

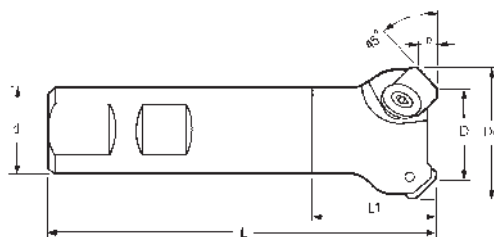
Frese per spianatura 45° | Planfräser 45° | Face milling cutters 45°



ART. 550 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)													STOCK	PRICELIST €
D	De	d	d1	c	e	a	b	H	p	z			kg		
550M W D50-12/4	50	63	22	-	17	21	10,4	6,3	48	6	4		0,600	●	295,-
550M W D63-12/5	63	76	22	-	19	21	10,4	6,3	40	6	5		0,690	●	337,50
550M W D80-12/6	80	93	27	-	38	24	12,4	7	50	6	6		1,370	●	374,-
550M W D100-12/6	100	113	32	-	45	26	14,4	8	50	6	6		2,000	●	429,50
550M W D125-12/7	125	138	40	-	56	32	16,4	9	63	6	7		3,900	●	533,-
550M W D160-12/7 *	160	173	40	66,7	86	32	16,4	9	63	6	7		5,900	●	755,-
550M W D200-12/10 *	200	213	60	101,7	129	32	25,7	14	63	6	10		15,000	●	1335,50
550M W D250-12/13 *	250	263	60	101,7	178	32	25,7	14	63	6	13		15,000	●	1686,50

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)													STOCK	PRICELIST €
D	De	d	d1	c	e	a	b	H	p	z			kg		
550M W D50-12L/4	50	63	22	-	17	21	10,4	6,3	48	6	4		0,600	●	354,-
550M W D63-12L/5	63	76	22	-	19	21	10,4	6,3	40	6	5		0,690	●	405,50
550M W D80-12L/6	80	93	27	-	38	24	12,4	7	50	6	6		1,370	●	449,50
550M W D100-12L/6	100	113	32	-	45	26	14,4	8	50	6	6		2,000	●	515,50
550M W D125-12L/7	125	138	40	-	56	32	16,4	9	63	6	7		3,900	○	639,50

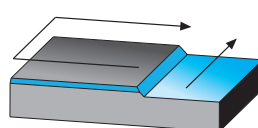
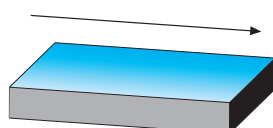


ART. 550 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
D	De	d	L	L1	p	z			kg		
550W W D40-12/4	40	53	32	115	45	6	4		0,840	○	320,-

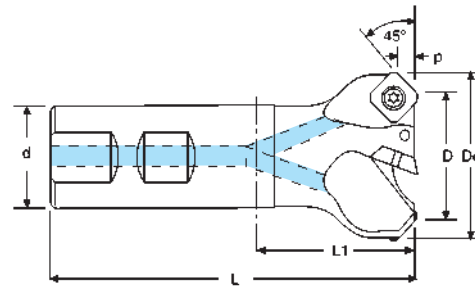
Ricambi-Ersatzteile-Spareparts

Sottopiacchetta Support	Vite di bloccaggio Insert locking screw	Vite sottopiacchetta Screw support	Chiave Key	Chiave Key
 AKE12,4	 CVB55 (550M) (550W)	 CVB55L (550M-L)	 VF4	 BT25 TORX PLUS
				 BT 08



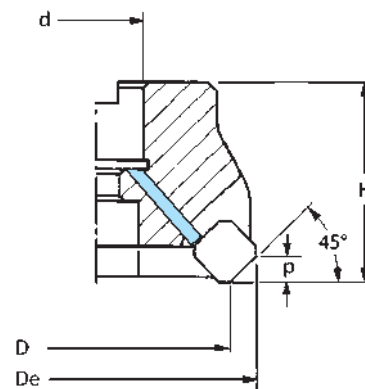
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



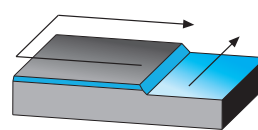
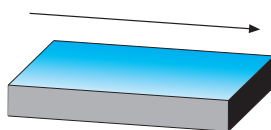
ART. 600 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	De	d	L	L1	p	z						
600W W D25/2	25	38	25	100	44	6	2	SEHT SEHX SEKT 1204...	VT50	BT20	0,370	●	189,50
600W W D32/3	32	45	25	110	54	6	3				0,420	●	238,50
600W W D40/4	40	53	32	115	55	6	4				0,780	●	292,-



ART. 600 M

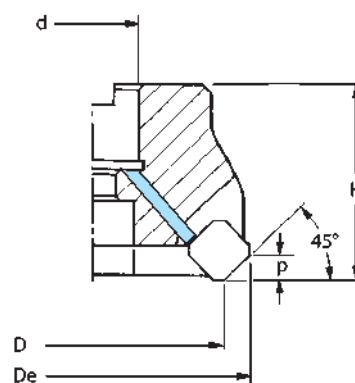
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	De	d	H	p	z						
600M W D40-12/3	40	53	16	40	6	3	SEHT SEHX SEKT 1204...	VT50	BT20	0,270	●	160,50
600M W D50-12/4	50	63	22	48	6	4				0,480	●	182,50
600M W D63-12/5	63	76	22	48	6	5				0,760	●	213,50
600M W D80-12/6	80	93	27	50	6	6				1,270	●	256,50
600M W D100-12/6	100	113	32	50	6	6				1,790	●	299,-
600M W D125-12/7	125	138	40	63	6	7				3,470	●	352,-
600M W D160-12/8	160	173	40	63	6	8				5,280	●	587,-
600M D200-12/12 	200	213	60	63	6	12				7,800	●	1161,50
600M D250-12/16	250	263	60	63	6	16				11,100	●	1467,-
600M W D40-12F/4	40	53	16	40	6	4				0,270	●	213,50
600M W D50-12F/5	50	63	22	48	6	5				0,480	●	224,50
600M W D63-12F/6	63	76	22	48	6	6				0,760	●	256,50
600M W D80-12F/7	80	93	27	50	6	7				1,270	●	309,50
600M W D100-12F/8	100	113	32	50	6	8				1,790	●	363,50
600M W D125-12F/9	125	138	40	63	6	9				3,470	●	426,50
600M W D160-12F/10	160	173	40	63	6	10				5,280	●	746,50



● Disponibile - Lieferbar - On stock

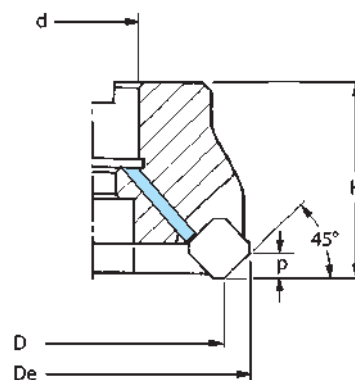
○ A richiesta - Auf Anfrage - On request

Frese per spianatura 45° | Planfräser 45° | Face milling cutters 45°



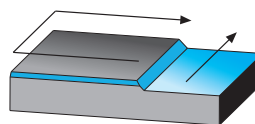
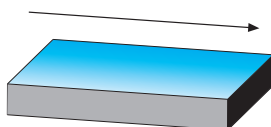
ART. 670 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
	D	De	d	H	p	z					
670M W D50-12/4	50	63	22	48	6	4	SDHT SDHX SDKT 1204 ...	VT45	BT20	0,520 ●	229,50
670M W D63-12/5	63	76	22	48	6	5				0,800 ●	271,50
670M W D80-12/6	80	93	27	50	6	6				1,300 ●	324,-
670M W D100-12/6	100	113	32	50	6	6				1,770 ●	383,-
670M W D125-12/7	125	138	40	63	6	7				3,700 ●	447,50
670M W D160-12/8	160	173	40	63	6	8				5,280 ●	824,-
670M D200-12/12	200	213	60	63	6	12				14,000 ○	1235,-
670M D250-12/16	250	263	60	63	6	16				14,000 ○	1587,-



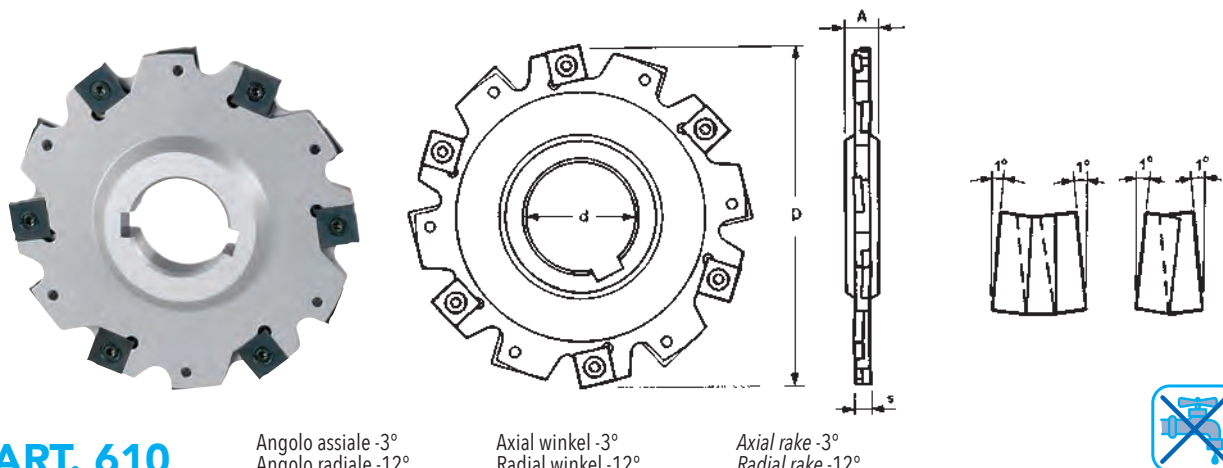
ART. 680 M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
	D	De	d	H	p	z					
680M W D50-13/4	50	63	22	40	6	4	SEHT SEHX 13T3...	VT3511	BT15	0,460 ●	208,50
680M W D63-13/5	63	76	22	40	6	5				0,610 ●	245,50
680M W D80-13/6	80	93	27	50	6	6				1,300 ●	294,-
680M W D100-13/7	100	113	32	50	6	7				1,670 ●	347,-
680M W D125-13/8	125	138	40	63	6	8				3,370 ●	405,50
680M D160-13/10	160	173	40	63	6	10				4,500 ●	746,50
680M D200-13/12	200	213	60	63	6	12				14,000 ○	1161,50
680M D250-13/16	250	263	60	63	6	16				14,000 ○	1467,-
680M W D50-13F/5	50	63	22	40	6	5				0,460 ●	256,50
680M W D63-13F/6	63	76	22	40	6	6				0,610 ●	304,-
680M W D80-13F/8	80	93	27	50	6	8				1,300 ●	363,50
680M W D100-13F/10	100	113	32	50	6	10				1,670 ●	432,50
680M W D125-13F/12	125	138	40	63	6	12				3,370 ●	507,-
680M D160-13F/16	160	173	40	63	6	16				4,500 ●	934,-



● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



ART. 610

Angolo assiale -3°
Angolo radiale -12°

Axial winkel -3°
Radial winkel -12°

Axial rake -3°
Radial rake -12°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)														STOCK	PRICELIST €
	D	d	s	A	B	Z	Fattore K	Max Prof. di taglio								
610 63 04	63	22	4	8	34	8	4	14	SNHX 1102T	VTX3503	BT09	0,070	o			725,-
05	63	22	5	8	34	8	4	14	SNHX 1103T	VTX3504	BT09	0,080	o			725,-
06	63	22	6	8	34	6	3	14	SNHX 1203T	VTX405	BT15	0,080	o			725,-
610 80 04	80	22	4	8	34	10	5	22	SNHX 1102T	VTX3503	BT09	0,200	o			786,-
05	80	22	5	8	34	10	5	22	SNHX 1103T	VTX3504	BT09	0,220	o			786,-
06	80	22	6	8	34	8	4	22	SNHX 1203T	VTX405	BT15	0,240	o			786,-
610 100 04	100	27	4	12	45	12	6	25	SNHX 1102T	VTX3503	BT09	0,240	o			905,50
05	100	27	5	12	45	12	6	25	SNHX 1103T	VTX3504	BT09	0,330	o			905,50
06	100	27	6	12	45	10	5	25	SNHX 1203T	VTX405	BT15	0,360	o			905,50
10	100	27	10	12	45	10	5	25	SNHX 1205T	VTX408	BT15	0,470	o			966,50
610 125 04	125	40	4	12	58	12	6	31	SNHX 1102T	VTX3503	BT09	0,410	o			1087,50
05	125	40	5	12	58	12	6	31	SNHX 1103T	VTX3504	BT09	0,450	o			1087,50
06	125	40	6	12	58	12	6	31	SNHX 1203T	VTX405	BT15	0,500	o			1087,50
10	125	40	10	12	58	12	6	31	SNHX 1205T	VTX408	BT15	0,670	o			1087,50
610 160 04	160	40	4	12	68	18	9	44	SNHX 1102T	VTX3503	BT09	0,660	o			1204,-
05	160	40	5	12	68	18	9	44	SNHX 1103T	VTX3504	BT09	0,740	o			1204,-
06	160	40	6	12	68	16	8	44	SNHX 1203T	VTX405	BT15	0,840	o			1204,-
10	160	40	10	12	68	16	8	44	SNHX 1205T	VTX408	BT15	1,130	o			1204,-
14	160	40	14	14	68	15	5	44	SNHX 1205T	VTX408	BT15	1,600	o			1204,-
610 200 04	200	50	4	12	72	18	9	62	SNHX 1102T	VTX3503	BT09	0,860	o			1561,50
05	200	50	5	12	72	18	9	62	SNHX 1103T	VTX3504	BT09	0,990	o			1561,50
06	200	50	6	12	72	18	9	62	SNHX 1203T	VTX405	BT15	1,200	o			1561,50
10	200	50	10	12	72	18	9	62	SNHX 1205T	VTX408	BT15	1,800	o			1607,-
14	200	50	14	14	72	18	6	62	SNHX 1205T	VTX408	BT15	2,500	o			1607,-
610 250 10	250	50	10	12	72	24	12	87	SNHX 1205T	VTX408	BT15	2,800	o			1962,-

Ve = m/min VELOCITÀ DI TAGLIO - CUTTING SPEED

n = giri/min (min⁻¹) NUMERO DI GIRI - NUMBER OF REVOLUTIONS

fz = mm AVANZAMENTO AL DENTE - TOOTH FEED

fn = mm AVANZAMENTO AL GIRO - FEED/REVOLUTION

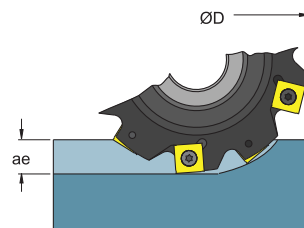
Vf = mm/min VELOCITÀ DI AVANZAMENTO - FEED SPEED

Kae = FATTORE DI CORREZIONE - CORRECTION FACTOR

F = FINITURA, LAV. LEGGERA - FINISHING, LIGHT MACHINING

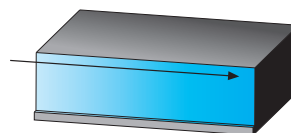
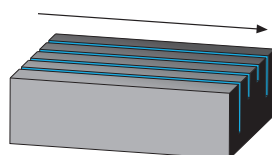
M = LAV. MEDIA, GENERICA - MEDIUM MACHINING, GENERIC

R = SGROSSATURA, LAV. PESANTE - ROUGHING, HEAVY MACHINING



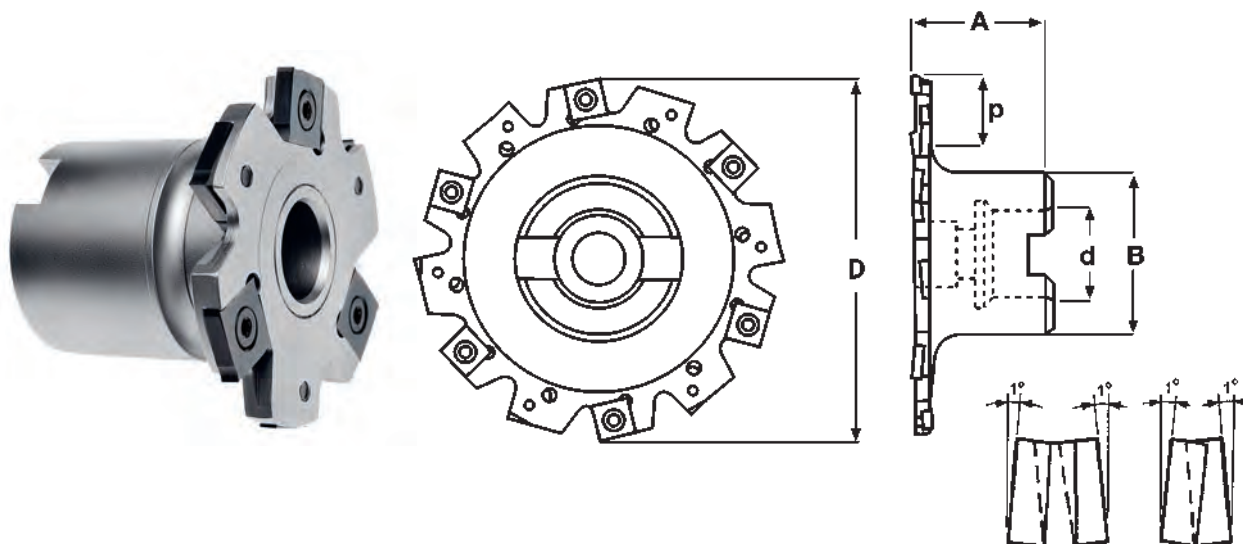
ae/D	0,5-1 50 - 100%	0,2 20%	0,1 10%	0,05 5%
Vc	Vc (min)-----Vc (max)			
	R-----M-----F			

ae/D	0,3 30%	0,2 20%	0,1 10%	0,05 5%	0,02 2%
Kae	1,2	1,5	2,1	3	4,8



● Disponibile - Lieferbar - On stock

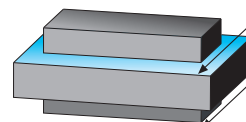
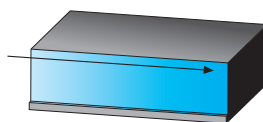
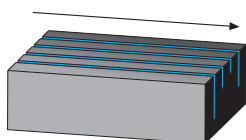
○ A richiesta - Auf Anfrage - On request

Frese per scanalature e taglio | *Scheibenfräser* | Grooving and cut off mills

ART. 610 M

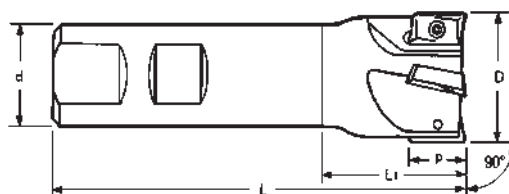
Angolo assiale -3°
Angolo radiale -12°Axial winkel -3°
Radial winkel -12°Axial rake -3°
Radial rake -12°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)												STOCK	PRICELIST €
	D	d	s	A	B	Z	Fattore K	Max Prof. di taglio						
610M 50 04	50	16	4	50	32	4	2	8,5	SNHX 1102T	VTX3503	BT09	0,300	○	725,-
05	50	16	5	50	32	4	2	8,5	SNHX 1103T	VTX3504	BT09	0,300	○	725,-
06	50	16	6	50	32	4	2	8,5	SNHX 1203T	VTX405	BT15	0,300	○	725,-
10	50	16	10	50	32	4	2	8,5	SNHX 1205T	VTX408	BT15	0,300	○	766,50
610M 63 04	63	22	4	50	40	8	4	10,5	SNHX 1102T	VTX3503	BT09	0,390	○	725,-
05	63	22	5	50	40	8	4	10,5	SNHX 1103T	VTX3504	BT09	0,400	○	725,-
06	63	22	6	50	40	6	3	10,5	SNHX 1203T	VTX405	BT15	0,400	○	725,-
10	63	22	10	50	40	6	3	10,5	SNHX 1205T	VTX408	BT15	0,400	○	766,50
14	63	22	14	50	40	6	2	10,5	SNHX 1205T	VTX408	BT15	0,500	○	766,50
610M 80 04	80	22	4	50	40	10	5	20	SNHX 1102T	VTX3503	BT09	0,430	○	845,50
05	80	22	5	50	40	10	5	20	SNHX 1103T	VTX3504	BT09	0,500	○	845,50
06	80	22	6	50	40	8	4	20	SNHX 1203T	VTX405	BT15	0,500	○	845,50
10	80	22	10	50	40	8	4	20	SNHX 1205T	VTX408	BT15	0,600	○	857,-
14	80	22	14	50	40	6	2	20	SNHX 1205T	VTX408	BT15	0,650	○	857,-
610M 100 04	100	27	4	50	48	12	6	24,2	SNHX 1102T	VTX3503	BT09	0,690	○	1044,50
05	100	27	5	50	48	12	6	24,2	SNHX 1103T	VTX3504	BT09	0,730	○	1044,50
06	100	27	6	50	48	10	5	24,2	SNHX 1203T	VTX405	BT15	0,740	○	1044,50
10	100	27	10	50	48	10	5	24,2	SNHX 1205T	VTX408	BT15	0,840	○	1044,50
14	100	27	14	50	48	9	3	24,2	SNHX 1205T	VTX408	BT15	1,000	○	1044,50
610M 125 04	125	40	4	50	70	12	6	23,7	SNHX 1102T	VTX3503	BT09	1,000	○	1154,50
05	125	40	5	50	70	12	6	23,7	SNHX 1103T	VTX3504	BT09	1,100	○	1154,50
06	125	40	6	50	70	12	6	23,7	SNHX 1203T	VTX405	BT15	1,100	○	1154,50
10	125	40	10	50	70	12	6	23,7	SNHX 1205T	VTX408	BT15	1,210	○	1154,50
14	125	40	14	50	70	12	4	23,7	SNHX 1205T	VTX408	BT15	1,450	○	1154,50
610M 160 04	160	40	4	50	70	16	8	41,2	SNHX 1102T	VTX3503	BT09	1,240	○	1330,-
05	160	40	5	50	70	16	8	41,2	SNHX 1103T	VTX3504	BT09	1,310	○	1330,-
06	160	40	6	50	70	16	8	41,2	SNHX 1203T	VTX405	BT15	1,450	○	1330,-
10	160	40	10	50	70	16	8	41,2	SNHX 1205T	VTX408	BT15	1,720	○	1330,-
14	160	40	14	50	70	15	5	41,2	SNHX 1205T	VTX408	BT15	2,140	○	1330,-



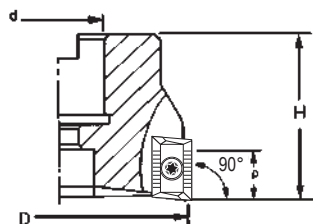
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



ART. 740 W ECO

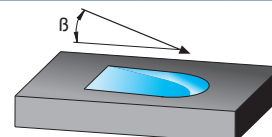
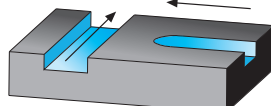
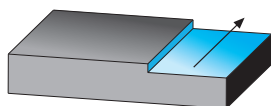
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	d	L	L ₁	p	β	z				kg			
740W D16/2 ECO	16	16	85	37	10	3,5°	2	APHT APHX APKT 1003...	VT25	BT08	0,130	●	89,50
740W D20/3 ECO	20	20	90	40	10	1,5°	3				0,200	●	117,50
740W D25/4 ECO	25	25	105	49	10	0,9°	4				0,340	●	134,-



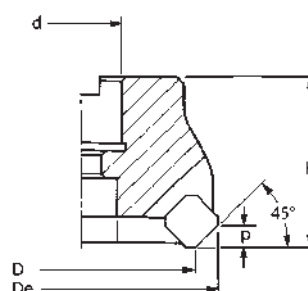
ART. 740 M ECO

ART. 730 M ECO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	d	H	p	β	z						
740M D40/6 ECO	40	16	40	10	-	6	APHT APHX APKT 1003...	VT25	BT08	0,270	●	173,50
740M D50/7 ECO	50	22	40	10	-	7				0,430	●	195,50
730M D40/4 ECO	40	16	40	17	1,8°	4	APHT APHX APKT 1604 ...	VT40	BT15	0,210	●	140,-
730M D50/5 ECO	50	22	40	17	1,0°	5				0,290	●	162,-
730M D63/6 ECO	63	22	40	17	0,7°	6				0,530	●	184,50

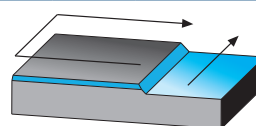
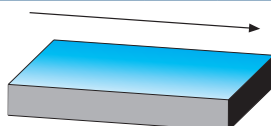


Frese per spianatura 45° | Planfräser 45° | Face milling cutters 45°



ART. 600 M ECO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	D	De	d	H	p	z						
600M D50-12/4 ECO	50	63	22	48	6	4	SEHT SEHX SEKT 1204...	VT50	BT20	0,480	●	112,-
600M D63-12/5 ECO	63	76	22	48	6	5				0,760	●	130,-
600M D80-12/6 ECO	80	93	27	50	6	6				1,270	●	160,-
600M D100-12/6 ECO	100	113	32	50	6	6				1,790	●	180,-



● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

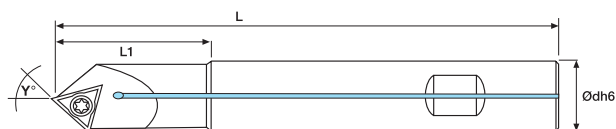
MINIMILL

MINIMILL



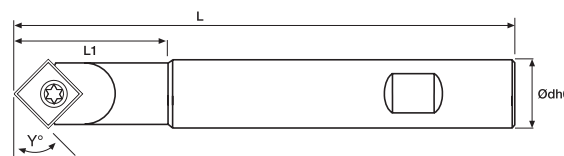
HIGH QUALITY TOOLS





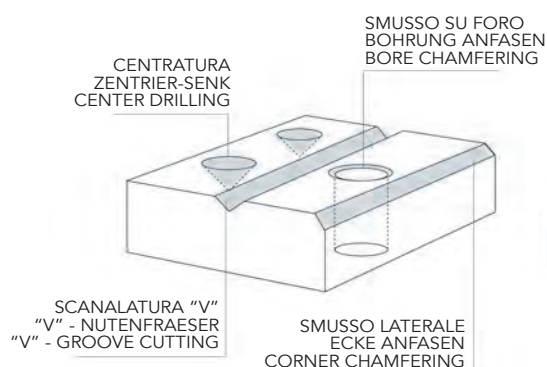
ART. 311 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	Ødh6	DS	L	L1	Y°	Z	D.min	D.max					
311.020 WW	20	0,4 / 0,8	115	40	45°	1	0,4	20	TCMX	VT40	BT15	0,240	● 183,50
311.020 WWL	20	0,4 / 0,8	150	60	45°	1	0,4	20	16T3ZR...			0,320	● 206,-
311.020 WWXL	20	0,4 / 0,8	200	80	45°	1	0,4	20	16T308ZR...			0,430	● 235,-

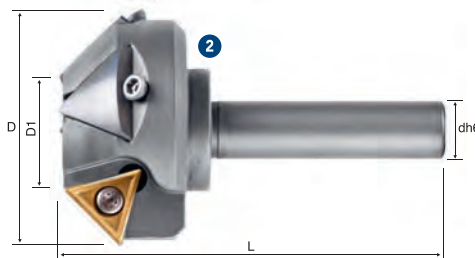
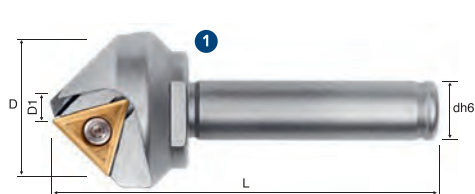


ART. 160 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	Ødh6	DS	L	L1	Y°	Z	D.min	D.max					
160.45 W	16	0,8	120	40	45°	1	0,8	17	SEEX	VT4010	BT15	0,190	● 127,-
160.30 W	16	0,8	120	40	30°	1	0,8	21	12T4			0,200	● 127,-



Fresa per sbavatura 45° | Fasfräser 45° | Chamfering Milling Cutter 45°

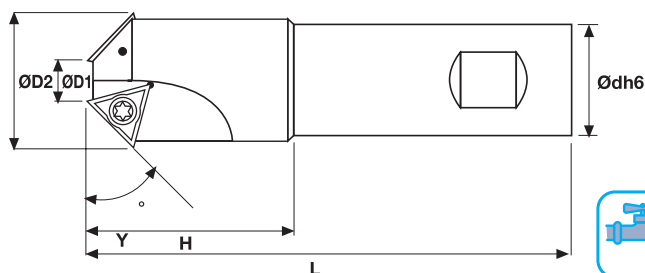
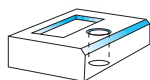


ART. 7745

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	Fig.	ØD	ØD1	L	Ødh6	y°	Z						
7745VT16-C12-0525		1	25	5	78	12	45°	1	TCGX	VT40	BT15	0,140	● 165,-
7745VT16-C12-2545		2	45	25	78	12	45°	1	163504...			0,310	● 289,-

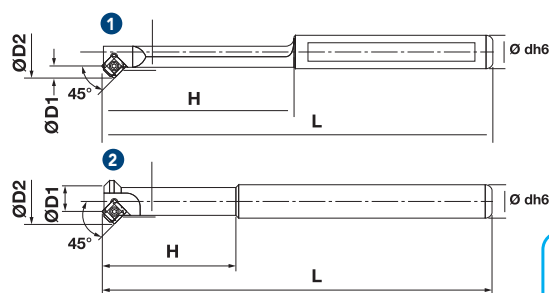
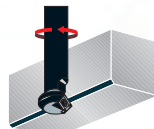
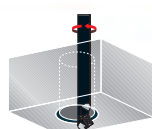
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



ART. 300 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	ØD1	ØD2	L	H	Ødh6	Y°	Z						
300 - 45°													
300.016 WW	1,2	16	70	20	12	45°	1	TCMT 1102...	VT25B	BT08	0,060	●	94,-
300.021 WW	6,2	21	90	35	20	45°	2	TCMT 1102...	VT25B	BT08	0,180	●	128,-
300.032 WW	10,4	32,5	100	42	25	45°	2	TCMT 16T3...	VT40	BT15	0,380	●	207,50
310 - 60°													
310.016 WW	5,4	16	70	20	12	60°	1	TCMT 1102...	VT25B	BT08	0,060	●	94,-
310.027 WW	15,8	26	90	35	20	60°	2	TCMT 1102...	VT25B	BT08	0,180	●	128,-
310.032 WW	20	35	100	39	25	60°	2	TCMT 16T3...	VT40	BT15	0,380	●	207,50
315 - 30°													
315.032 WW	6	32	100	38	25	30°	2	TCMT 16T3...	VT40	BT15	0,380	●	207,50



ART. 320 W

CODICE ORDINE Bestell-Nr. Order No.	Fig.	ØD1	ØD2	L	H	Ødh6	Z					STOCK	PRICELIST €
320.004 WW	1	4	12	80	28	12	1	SCMT 060204	VT25B	BT08	0,060	●	124,-
320.011 WW	2	11	20	80	32	12	2	SCMT 060204	VT25B	BT08	0,070	●	182,50
320.012 WW	1	12	23,7	100	37	20	1	SCMT 09T308	VT40	BT15	0,190	●	115,-
320.016 WW	2	16	28,8	100	32	16	2	SCMT 09T308	VT40	BT15	0,150	●	162,50
320.025 WW	2	30	42,3	100	32	20	3	SCMT 09T308	VT40	BT15	0,270	●	188,50
Serie lunga - Lange Ausführung - Long models													
320.012 WWL	1	12	23,7	200	37	20	1	SCMT 09T308	VT40	BT15	0,420	●	140,-
320.016 WWL	2	16	28,8	200	32	16	2	SCMT 09T308	VT40	BT15	0,300	●	175,-
320.025 WWL	2	30	42,3	200	32	20	3	SCMT 09T308	VT40	BT15	0,480	●	222,50

ART. 321 W

CODICE ORDINE Bestell-Nr. Order No.	Fig.	ØD1	ØD2	L	H	Ødh6	Z					STOCK	PRICELIST €
321.004 WW	1	4	12	80	28	12	1	SPGT SPMT 060304	VT25	BT08	0,060	●	124,-
321.011 WW	2	11	20	80	32	12	2	SPGT SPMT 060304	VT25	BT08	0,070	●	182,50
321.012 WW	1	12	23,7	100	37	20	1	SPGT SPMT 09T308	VT35S	BT15	0,190	●	115,-
321.016 WW	2	16	28,8	100	32	16	2	SPGT SPMT 09T308	VT35S	BT15	0,150	●	162,50
321.025 WW	2	30	42,3	100	32	20	3	SPGT SPMT 09T308	VT35S	BT15	0,270	●	188,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Frese per smussi e svasature registrabile da 10° a 80° | Fasenfräser, Winkelverstellbar von 10° bis 80°
Milling cutters for chamfering-flaring 10° to 80°

Fig. 1



Con cassetta TCMT 16T3...
Mit Kassette TCMT 16T3...
With pocket TCMT 16T3...

Fig. 2



Con cassetta SCMT 1204...
Mit Kassette SCMT 1204...
With pocket SCMT 1204...

ART. 340 W NEW

LE FRESE VENGONO SEMPRE FORNITE CON 2 CASSETTE T16 NEW + S12 NEW COMPRESSE
DIE FRASER WERDEN IMMER MIT 2 KASSETTEN DELIEFERT T16 NEW + S12 NEW
IN THE MILLING CUTTERS ARE ALWAYS INCLUDED 2 POCKETS T16 NEW + S12 NEW



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
	D h6	L	Y	Fig. 1		Fig. 2					
				D.min. Ø	D.max. Ø	D.min. Ø	D.max. Ø	E			
340.020 W NEW	20	95	"	"	"	"	"	"	0,320	●	320,-
340.025 W NEW	25	95	10°	5	32	7,5	30	2,7	0,330	●	320,-
			20°	6	33	10	32	3,6			
			30°	7	34	13	32,5	4,3			
			40°	10	33	16,5	33,5	4,5			
			45°	11	33	17,5	33,5	4,6			
			50°	13	32	19	33,5	4,6			
			60°	16	31	22	33,5	4,3			
			70°	19	29	24,5	33,5	3,8			
340.025 WL NEW	25	145	80°	23	27	27	31	3	0,530	●	347,-
340.025 WXL NEW	25	195	"	"	"	"	"	"	0,720	●	374,-

Fig. 1 Con cassetta TCMT 16T3... Mit Kassette TCMT 16T3... With pocket TCMT 16T3...

Cassetta Pocket	Inserto Insert	Vite inserto Insert screw	Vite cassetta Pocket screw	Chiave Key
T16NEW	TCMT16T3....	VT40	M6-16	BT15

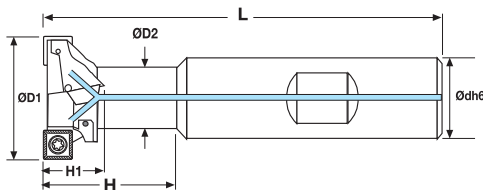
Fig. 2 Con cassetta SCMT 1204... Mit Kassette SCMT 1204... With pocket SCMT 1204...

Cassetta Pocket	Inserto Insert	Vite inserto Insert screw	Vite cassetta Pocket screw	Chiave Key
S12NEW	SCMT1204...	VT40S	M6-16	BT20

● Disponibile - Lieferbar - On stock

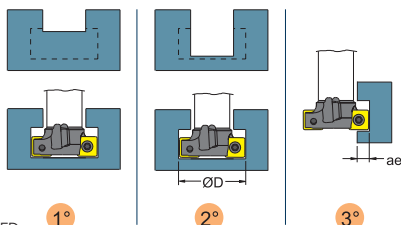
○ A richiesta - Auf Anfrage - On request

Frese per cave a T | Fräser für T-nuten | T slot milling cutter



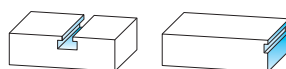
Ve = m/min VELOCITÀ DI TAGLIO - CUTTING SPEED
n = giri/min (min⁻¹) NUMERO DI GIRI - NUMBER OF REVOLUTIONS
fz = mm AVANZAMENTO AL DENTE - TOOTH FEED
fn = mm AVANZAMENTO AL GIRO - FEED / REVOLUTION
Vf = mm/min VELOCITÀ DI AVANZAMENTO - FEED SPEED
Kae = FATTORE DI CORREZIONE - CORRECTION FACTOR
F = FINITURA, LAV. LEGGERA - FINISHING, LIGHT MACHINING
M = LAV. MEDIA, GENERICA - MEDIUM MACHINING, GENERIC
R = SGROSSATURA, LAV. PESANTE - ROUGHING, HEAVY MACHINING
Z = NUMERO DI ELICHE / SCHRAUBENANZAHL / NUMBER OF FLUTES
K = FATTORE D'AVANZAMENTO / VORSCHUBFAKTOR / FACTOR OF FEED

NOTE: - Per cave a "T" secondo norme DIN 650-UNI 4788-ISO 299
 - Für "T" Nuten nach DIN 650-uni 4788-ISO 299 Normen
 - For "T" slot cutters according to DIN 650-UNI4788-ISO 299 norms



	1°	2°	3°		
ae/D	1 100%	0,5 50%	0,2 20%	0,1 10%	0,05 5%
Kae	1	1	1,5	2,1	3

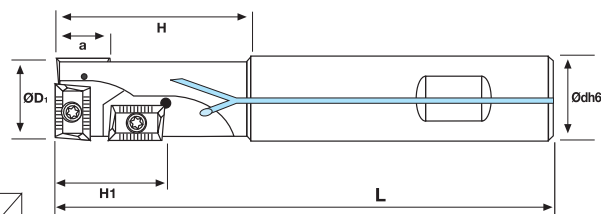
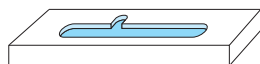
ae/D	0,5-1 50-100%	0,2 20%	0,1 10%	0,05 5%
Vc	Vc (min)-----Vc(max)			
	R-----M-----F			



ART. 250 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)												STOCK	PRICELIST €
	ØD1	ØD2	L	H	H1	Ødh6	K	Z						
250.021 WW	21	11	76	26	9	16	1	2	SPGT SPMT 060304	VT25	BT08	0,100	●	260,-
250.025 WW	25	13	82	31	11	16	2	4				0,100	●	308,50
250.032 WW	32	17	88	38	14	20	2	4	SPGT SPMT 09T308	VT35S	BT15	0,200	●	333,-
250.040 WW	40	21	108	50	17	25	2	4				0,400	●	358,-
250.050 WW	50	27	120	56	22	32	2	4	SPGT SPMT 120408	VT50	BT20	0,670	●	408,-

Frese foranti | Bohrnutfräser | Drilling Endmill

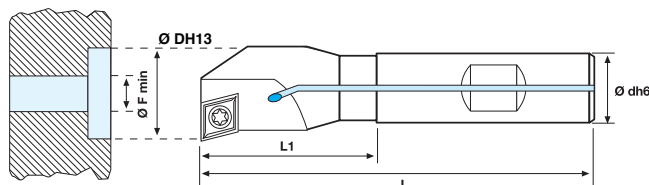


ART. 720 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	ØD1	Ødh6	L	H	H1	a	Z						
720W W D20	20	20	90	35	17	9	3	APKT 1003...	VT25	BT08	0,200	●	187,50
720W W D25	25	25	110	50	19	9	3				0,360	●	224,50
720W W D32	32	32	130	50	30	15	3	APKT 1604...	VT40	BT15	0,720	●	240,50
Serie lunga - Lange Ausführung - Long models													
720W WL D20	20	20	150	98	17	9	3	APKT 1003...	VT25	BT08	0,320	●	218,50
720W WL D25	25	25	150	94	19	9	3				0,500	●	241,50
Serie extra lunga - Extralange Ausführung - Extralong models													
720W WXL D20	20	20	180	125	17	9	3	APKT 1003...	VT25	BT08	0,390	●	233,50
720W WXL D25	25	25	200	140	19	9	3				0,680	●	249,-
720W WXL D32	32	32	220	160	30	15	3	APKT 1604...	VT40	BT15	1,250	●	264,-

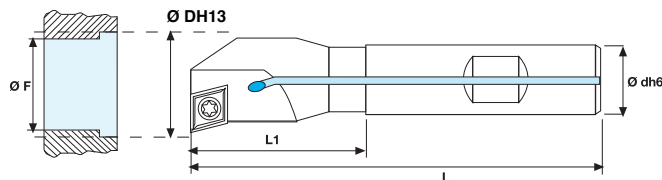
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



ART. 380 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
Ø D	L	L1	Ø dh6	Ø F _{min}	Z							
380W W D10	10	85	15	12	4	1	CCMT 060204	VT25B	BT08	0,060	●	81,-
380W W D11	11	85	15	12	4	1				0,060	●	81,-
380W W D12	12	85	18	12	4	1				0,070	●	81,-
380W W D13	13	85	23	12	5	1				0,070	●	81,-
380W W D14	14	85	23	12	5	1				0,070	●	81,-
380W W D15	15	85	30	12	5	1				0,070	●	81,-
380W W D16	16	85	30	12	5	1				0,070	●	81,-
380W W D17	17	95	30	16	6	1				0,120	●	81,-
380W W D18	18	95	40	16	6	1				0,120	●	96,-
380W W D19	19	95	40	16	6	1				0,130	●	96,-
380W W D20	20	95	40	16	5	1	CCMT 09T304	VT40	BT15	0,140	●	96,-
380W W D21	21	95	42	16	5	1				0,140	●	118,-
380W W D22	22	95	42	16	6	1				0,140	●	118,-
380W W D23	23	95	42	16	6	1				0,170	●	118,-
380W W D24	24	95	42	16	6	1				0,280	●	118,-
380W W D25	25	95	42	16	8	1				0,300	●	118,-
380W W D26	26	120	56	20	8	1				0,300	●	118,-
380W W D27	27	120	56	20	9	1				0,310	●	118,-
380W W D28	28	120	56	20	10	1				0,320	●	118,-
380W W D29	29	120	56	20	11	1				0,320	●	123,-
380W W D30	30	120	56	20	12	1				0,340	●	123,-
380W W D31	31	120	56	20	12	1				0,360	●	123,-
380W W D32	32	120	56	20	13	1				0,360	●	123,-
380W W D33	33	120	56	20	14	1				0,360	●	123,-

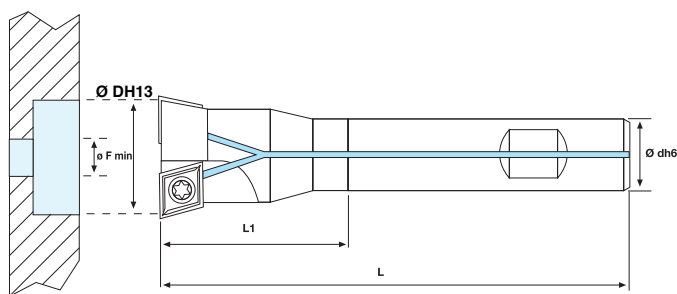


ART. 385 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
Ø D	L	L1	Ø dh6	Ø F _{min}	Z							
385W W D10	9,8	90	23	8	4,5	1	CCMT 060204	VT25B	BT08	0,060	●	89,50
385W W D11	10,8	105	24	10	3,5	1				0,060	●	89,50
385W W D12	11,8	105	25	10	3	1				0,070	●	89,50
385W W D13	12,8	105	26	10	2,5	1				0,070	●	89,50
385W W D14	13,8	110	27	12	3	1				0,070	●	89,50
385W W D15	14,8	120	28	12	3,5	1				0,070	●	89,50
385W W D16	15,8	125	29	12	4	1				0,070	●	89,50
385W W D17	16,8	140	30	16	5	1				0,120	●	89,50
385W W D18	17,8	140	31	16	6	1				0,120	●	106,-
385W W D19	18,8	150	32	16	7	1				0,130	●	106,-
385W W D20	19,8	150	33	16	8	1	CCMT 09T304	VT40	BT15	0,140	●	106,-
385W W D21	20,8	160	34	16	9	1				0,140	●	130,-
385W W D22	21,8	160	35	20	10	1				0,140	●	130,-
385W W D23	22,8	165	36	20	11	1				0,170	●	130,-
385W W D24	23,8	170	37	20	12	1				0,280	●	130,-
385W W D25	24,8	180	38	20	13	1				0,300	●	130,-
385W W D26	25,8	185	39	20	14	1				0,300	●	130,-
385W W D27	26,8	190	40	20	15	1				0,310	●	130,-
385W W D28	27,8	190	41	20	16	1				0,320	●	130,-
385W W D29	28,8	200	42	20	17	1				0,320	●	136,50
385W W D30	29,8	200	43	25	18	1				0,340	●	136,50
385W W D31	30,8	200	44	25	19	1				0,360	●	136,50
385W W D32	31,8	200	45	25	20	1				0,360	●	136,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

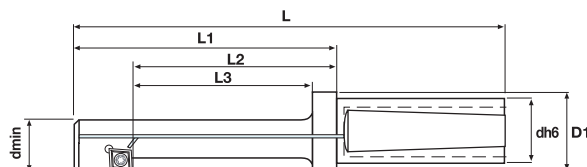


ART. 480 W

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	Ø D	L	L1	Ø dh6	Ø F _{min}	Z						
480W W D15	15	92	30	12	5	2	CCMT 060204	VT25B	BT08		0,070	● 155,50
480W W D16	16	92	30	12	5	2					0,070	● 155,50
480W W D17	17	94	32	16	6	2					0,120	● 155,50
480W W D17,5	17.5	96	40	16	6.5	2					0,120	● 160,50
480W W D18	18	97	41	16	7	2					0,120	● 160,50
480W W D19	19	100	41	16	8	2					0,130	● 160,50
480W W D20	20	102	41	16	9	2					0,140	● 182,50
480W W D21	21	105	41	16	10	2					0,150	● 182,50
480W W D22	22	110	41	16	11	2					0,160	● 192,50
480W W D23	23	112	41	16	12	2					0,170	● 192,50
480W W D24	24	115	41	16	13	2	CCMT 09T304	VT40	BT15		0,180	● 192,50
480W W D25	25	120	40	16	8	2					0,180	● 213,50
480W W D26	26	125	55	20	9	2					0,270	● 213,50
480W W D27	27	128	55	20	10	2					0,300	● 213,50
480W W D28	28	130	55	20	11	2					0,310	● 213,50
480W W D29	29	132	55	20	12	2					0,330	● 224,50
480W W D30	30	134	55	20	13	2					0,340	● 224,50
480W W D31	31	136	55	20	14	2					0,350	● 224,50
480W W D32	32	138	55	20	15	2					0,370	● 224,50
480W W D33	33	140	55	20	16	2					0,390	● 224,50
480W W D34	34	140	60	25	16	2					0,540	● 224,50
480W W D35	35	140	60	25	17	2					0,550	● 224,50
480W W D36	36	140	60	25	18	2					0,560	● 224,50
480W W D37	37	140	60	25	19	2					0,580	● 224,50
480W W D38	38	140	60	25	20	2					0,590	● 224,50
480W W D39	39	140	60	25	21	2					0,610	● 245,50
480W W D40	40	140	60	25	22	2	CCMT 120404	VT50	BT20		0,620	● 245,50
480W W D41	41	140	60	25	23	2					0,640	● 245,50
480W W D42	42	140	60	25	24	2					0,650	● 245,50
480W W D43	43	150	70	25	24	2					0,670	● 289,-
480W W D44	44	150	70	25	24	2					0,690	● 289,-
480W W D45	45	150	70	25	24	2					0,700	● 289,-
480W W D46	46	150	70	25	24	2					0,720	● 298,-
480W W D47	47	150	70	25	24	2					0,740	● 298,-
480W W D48	48	150	70	25	24	2					0,760	● 298,-

● Disponibile - Lieferbar - On stock

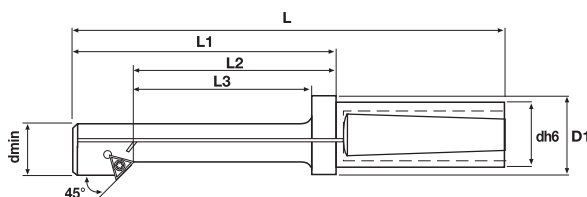
○ A richiesta - Auf Anfrage - On request



ART. 360 W

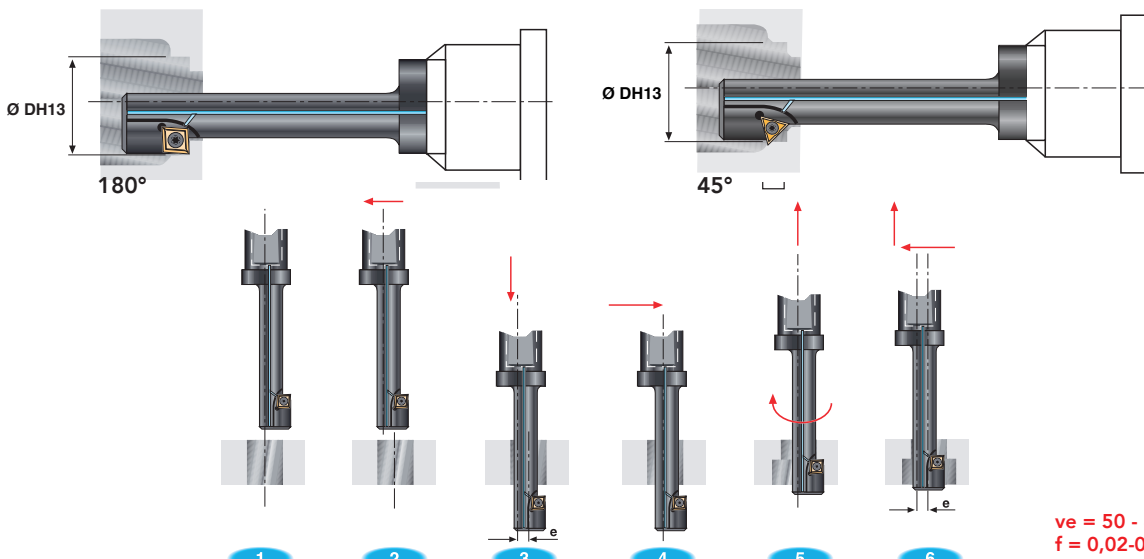
CODICE ORDINE Bestell-Nr. Order No.	D	D _{min}	L	L1	L2	L3	dh6	D1	e				kg	STOCK	PRICELIST €
360W D15	15	8.5	105	55	42	35	20	25	3.5	CPMT 05T104...	VT22	BT07	0,170	●	215,50
360W D18	18	10.5	112	62	47	40	20	25	4	CCMT 060204	VT25B	BT08	0,170	●	215,50
360W W D20	20	13	117	67	52	45	20	25	3.75				0,180	●	215,50
360W W D24	24	15	122	72	57	50	20	25	4.75				0,190	●	228,50
360W W D26	26	17	132	82	67	60	20	25	5				0,210	●	242,50
360W W D30	30	19	142	92	77	65	20	25	6	CCMT 09T304	VT40	BT15	0,250	●	265,-
360W W D33	33	21	152	102	82	75	20	25	6.5				0,270	●	277,50
360W W D36	36	23	173	113	93	85	32	40	7				0,630	●	286,-
360W W D40	40	25	183	123	103	95	32	40	8				0,670	●	312,-
360W W D43	43	30	183	123	103	95	32	40	7	CCMT 120404	VT50	BT20	0,860	●	327,-
360W W D48	48	33	223	163	143	135	32	40	8				1,120	●	336,50
360W W D53	53	36	210	140	/	110	40	/	9				1,420	●	345,-
360W W D57	57	39	220	150	/	120	40	/	9.5				1,620	●	358,-
360W W D66	66	45	245	165	/	135	50	/	11	CCMT 120404	VT50	BT20	2,620	●	384,-
360W W D76	76	52	265	185	/	155	50	/	12.5				3,250	●	424,50

Frese per smusso a tirare 45° | Rückwärtsfas 45° | Back chamfering milling cutter 45°



ART. 370 W

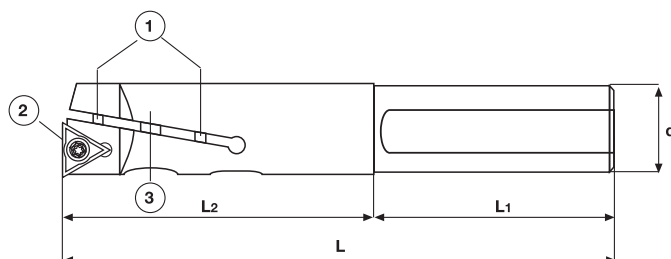
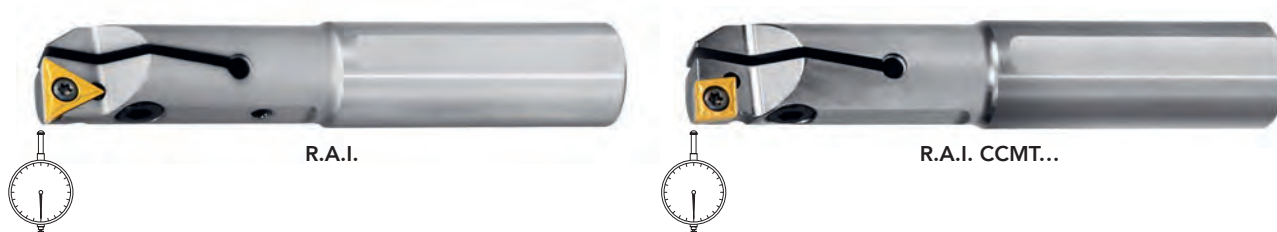
CODICE ORDINE Bestell-Nr. Order No.	D	D _{min}	L	L1	L2	L3	dh6	D1	e				kg	STOCK	PRICELIST €
370W D15	15	10	105	55	42	35	20	25	2.70	TCMT 0802...	VT22	BT07	0,170	●	238,-
370W W D20	20	14	110	60	47	40	20	25	3.20	TCMT 1102...	VT25B	BT08	0,180	●	238,-
370W W D23	23	17	120	70	57	50	20	25	3.20				0,190	●	252,-
370W W D27	27	21	140	90	77	70	20	25	3.20				0,210	●	267,-
370W W D31	31	24	150	100	87	80	20	25	3.70				0,250	●	292,50



ve = 50 - 80 m/min
f = 0,02-0,08 mm/rev

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

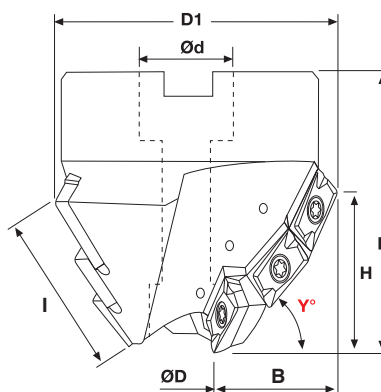


ART. R.A.I.

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						vite regolazione 1 Zugschraube 1 adjust screw 1	vite inserto 2 Wpl.Schraube 2 insert screw 2	vite fissaggio 3 Drukschraube 3 clampscrew 3	inserto Wendeplatte insert	kg	STOCK	PRICELIST €
R.A.I. 06	85	65	20	8	06	07	RE 11	VT24	BL 11	WCMT 0201...	0,020	●	211,50
R.A.I. 07	90	65	25	8	07	08	RE 9	VT20	BL 9	TPGX 0601 ..L	0,020	●	211,50
R.A.I. 08	90	65	25	8	08	10	RE 10	VT20	BL 10	TPGX 0601 ..L	0,030	●	211,50
R.A.I. 10	100	70	30	10	10	12	RE 0	VT20	BL 0	TPGX 0802 ..L	0,070	●	211,50
R.A.I. 12	105	65	40	12	12	15	RE 1	VT20	BL 1	TPGX 0802 ..L	0,100	●	225,50
R.A.I. 15	110	60	50	16	15	20	RE 2	VT20	BL 2	TPGX 0802 ..L	0,170	●	238,50
R.A.I. 20	120	60	60	20	20	25	RE 3	VT25	BL 3	TCMT 1102...	0,270	●	243,50
R.A.I. 25	140	70	70	25	25	30	RE 4	VT40	BL 4	TCMT 16T3...	0,480	●	259,-
R.A.I. 30	160	70	90	25	30	35	RE 5	VT40	BL 5	TCMT 16T3...	0,620	●	271,50
R.A.I. 35	170	70	100	32	35	40	RE 6	VT40	BL 6	TCMT 16T3...	1,050	●	312,-
R.A.I. 40	190	70	120	32	40	45	RE 7	VT40	BL 7	TCMT 16T3...	1,400	●	339,-
R.A.I. 45	220	70	150	32	45	50	RE 8	VT40	BL 8	TCMT 16T3...	2,040	●	393,50
R.A.I. 10 CCMT	100	70	30	10	10	12	RE 1	VT25B	BL 0	CCMT 0602...	0,070	●	211,50
R.A.I. 12 CCMT	105	65	40	12	12	15	RE 1	VT25B	BL 1	CCMT 0602...	0,100	●	225,50
R.A.I. 15 CCMT	110	60	50	16	15	20	RE 2	VT25B	BL 2	CCMT 0602...	0,170	●	238,50
R.A.I. 20 CCMT	120	60	60	20	20	25	RE 3	VT25B	BL 3	CCMT 0602...	0,270	●	243,50
R.A.I. 25 CCMT	140	70	70	25	25	30	RE 4	VT35	BL 4	CCMT 09T3...	0,480	●	259,-
R.A.I. 30 CCMT	160	70	90	25	30	35	RE 5	VT35	BL 5	CCMT 09T3...	0,620	●	271,50
R.A.I. 35 CCMT	170	70	100	32	35	40	RE 6	VT35	BL 6	CCMT 09T3...	1,050	●	312,-
R.A.I. 40 CCMT	190	70	120	32	40	45	RE 7	VT35	BL 7	CCMT 09T3...	1,400	●	339,-
R.A.I. 45 CCMT	220	70	150	32	45	50	RE 8	VT35	BL 8	CCMT 09T3...	2,040	●	393,50
Serie extra lunga - Extralange Ausführung - Extralong models													
R.A.I. 12 SL	130	70	60	12	12	15	RE 1	VT20	BL 1	TPGX 0802 ..L	0,200	○	292,-
R.A.I. 15 SL	140	70	70	16	15	20	RE 2	VT20	BL 2	TPGX 0802 ..L	0,270	○	312,-
R.A.I. 20 SL	150	70	80	20	20	25	RE 3	VT25	BL 3	TCMT 1102...	0,370	○	326,-
R.A.I. 25 SL	170	70	100	25	25	30	RE 4	VT40	BL 4	TCMT 16T3...	0,580	○	339,-
R.A.I. 30 SL	190	70	120	25	30	35	RE 5	VT40	BL 5	TCMT 16T3...	0,720	○	360,-
R.A.I. 35 SL	220	70	150	32	35	40	RE 6	VT40	BL 6	TCMT 16T3...	1,150	○	401,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



ART. FB: 030

15°-20°-30°-40°-45°-60°-75°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	ØD	D1	Ød	L	B	I	Y°	H	Z	K		
FB.030.001 W	17	56	22	50	17,8	27,5	45°	19	9	3	0,470	● 587,-
FB.030.002 W	17	45	16	50	13	27,5	60°	24	9	3	0,280	● 587,-
FB.030.003 W	17	65	22	50	24	27,5	30°	13	9	3	0,600	● 587,-
FB.030.004 W	17	70	22	50	27	27,5	15°	7	9	3	0,770	● 587,-
FB.030.005 W	19	33	16	60	7	27,5	75°	27	9	3	0,270	● 587,-
FB.030.006 W	17	60	22	50	19	27,5	40°	17	9	3	0,520	● 587,-
FB.030.007 W	17	69	22	50	26	27,5	20°	9	9	3	0,700	● 587,-

Disponibile a richiesta anche FB 030 con gradazioni differenti Y°

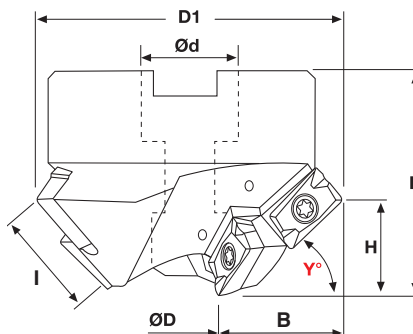
Lieferbar auf Anfrage FB 030 mit verschiedenen Graden Y°

Available on request FB 030 with different grades Y°

K= Fattore d'avanzamento / Vorschubfaktor / Factor of feed

Ø d 16 = VT.FB.030

Ø d 22 = VT.FB.035



ART. FB: 035

15°-20°-30°-40°-45°-50°-60°-75°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	ØD	D1	Ød	L	B	I	Y°	H	Z	K		
FB.035.001 W	35	77,8	27	50	21,4	30	45°	21,5	6	3	0,780	● 587,-
FB.035.002 W	35	65	27	50	15,1	30	60°	26,5	6	3	0,580	● 587,-
FB.035.003 W	35	88	27	50	26,5	30	30°	15,0	6	3	1,000	● 587,-
FB.035.004 W	35	94	27	50	29,5	30	15°	8,0	6	3	1,190	● 587,-
FB.035.005 W	35	50,7	22	60	8	30	75°	29,5	6	3	0,460	● 587,-
FB.035.006 W	35	84	27	50	24,5	30	40°	19	6	3	0,860	● 587,-
FB.035.007 W	35	91	27	50	28,5	30	20°	10	6	3	1,130	● 587,-
FB.035.008 W	35	73	27	50	18	30	50°	23	6	3	0,820	● 587,-

Disponibile a richiesta anche FB 035 con gradazioni differenti Y°

Lieferbar auf Anfrage FB 035 mit verschiedenen Graden Y°

Available on request FB 035 with different grades Y°

K= Fattore d'avanzamento / Vorschubfaktor / Factor of feed

Ø d 22 = VT.FB.035

Ø d 27 = VT.FB.STANDARD

(DIN912 M12X 30)

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

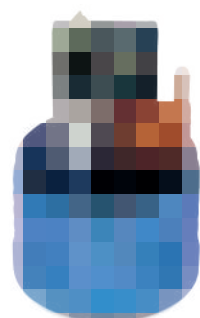
CODICE ORDINE Bestell-Nr. Order No.	SET 300W W - 45°	Frese smussi e svasature Fräser zum fassen Milling cutters for chamfering	kg	STOCK
Contenuto del set - Inhalt pro Set - Set Content				
SET 300W W - 45°				
1	300.016 WW		0,270	●
1	300.021 WW			



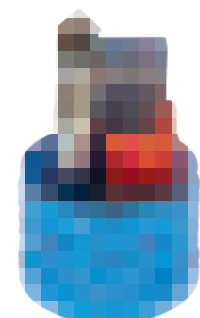
CODICE ORDINE Bestell-Nr. Order No.	SET 310W W - 60°	Frese smussi e svasature Fräser zum fassen Milling cutters for chamfering	kg	STOCK
Contenuto del set - Inhalt pro Set - Set Content				
SET 310W W - 60°				
1	310.016 WW		0,270	●
1	310.027 WW			



CODICE ORDINE Bestell-Nr. Order No.	SET 311W W	Frese per smussi, scanalature a V e centrare 45° Fas-und Zentrierfräser 45° Center drilling, chamfering and V grooving 45°	kg	STOCK
Contenuto del set - Inhalt pro Set - Set Content				
1	311.020 WW		0,330	●
4	TCMX 16T3ZR TiN			



CODICE ORDINE Bestell-Nr. Order No.	SET 160 W 45°	Frese per smussi, scanalature a V e centrare 45° / 30° Fas-und Zentrierfräser 45° / 30° Center drilling, chamfering and V grooving 45° / 30°	kg	STOCK
Contenuto del set - Inhalt pro Set - Set Content				
1	160.45 W		0,250	●
5	SEEX 12T408 TiN			



CODICE ORDINE Bestell-Nr. Order No.	SET 7745	Fresa per sbavatura 45° Fasfräser 45° Chamfering Milling Cutter 45°	kg	STOCK
Contenuto del set - Inhalt pro Set - Set Content				
SET 7745				
1	7745VT16-C12-0525		0,200	●
4	TCGX 163504...			



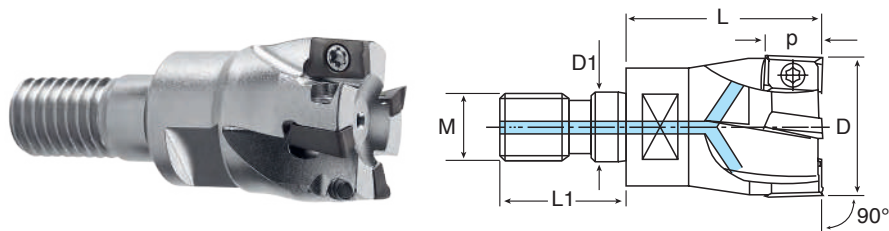
— MOULDMILL —

MOULDMILL



H I G H Q U A L I T Y T O O L S





ART. 741MO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	D1	L	L1	M	p	z							
741MO D10/2 N	10	6,5	16	14,5	M6	5,2	2					0,010	● 140,-
741MO D12/3 N	12	6,5	16	14,5	M6	5,2	3					0,010	● 181,50
741MO D16/4 N	16	8,5	21	17,5	M8	5,2	4					0,020	● 212,50
741MO D20/5 N	20	10,5	26	20	M10	5,2	5					0,050	● 227,50
741MO D25/7 N	25	12,5	30	22	M12	5,2	7					0,100	● 248,50



APKT
APMX
0602...



VT18 06



BT06



0,010

0,010

0,020

0,050

0,100

STOCK

●

●

●

●

●

PRICELIST
€

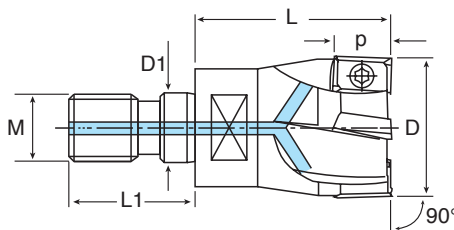
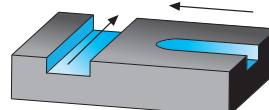
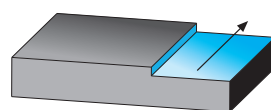
140,-

181,50

212,50

227,50

248,50



ART. 740MO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	D1	L	L1	M	p	β	z						
740MO D10/1	10	6,5	20	14,5	M6	10	11,0°	1				0,010	● 124,-
740MO D12/1	12	6,5	20	14,5	M6	10	9,0°	1				0,010	● 124,-
740MO D16/2	16	8,5	25	17,5	M8	10	3,5°	2				0,020	● 146,-
740MO D20/3	20	10,5	30	20	M10	10	1,5°	3				0,050	● 176,-
740MO D25/3	25	12,5	35	22	M12	10	0,9°	3				0,100	● 186,50
740MO D25/4	25	12,5	35	22	M12	10	0,9°	4				0,900	● 223,50
NEW ▶ 740MO D28/4	28	12,5	35	22	M12	10	0,9°	4				0,120	● 249,-
NEW ▶ 740MO D30/4	30	17	43	24	M16	10	0,6°	4				0,210	● 249,-
740MO D32/5	32	17	43	24	M16	10	0,6°	5				0,220	● 246,50



APHT
APHX
APKT
1003...



VT25



BT08



0,010

0,010

0,020

0,050

0,100

0,900

0,120

0,210

0,220

STOCK

●

●

●

●

●

●

●

●

●

PRICELIST
€

124,-

124,-

146,-

176,-

186,50

223,50

249,-

249,-

246,50

ART. 730MO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
D	D1	L	L1	M	p	β	z						
730MO D32/3	32	17	46	24	M16	17	2,0°	3				0,220	● 173,-
730MO D40/4	40	17	46	24	M16	17	1,5°	4				0,330	● 218,50



APHTAPHX
APKT 1604...



VT40



BT15



0,220

0,330

STOCK

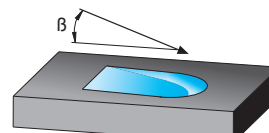
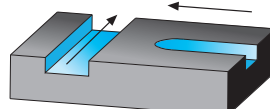
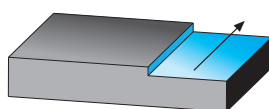
●

●

PRICELIST
€

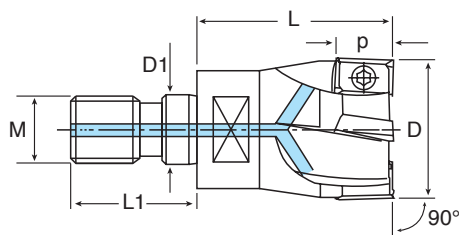
173,-

218,50



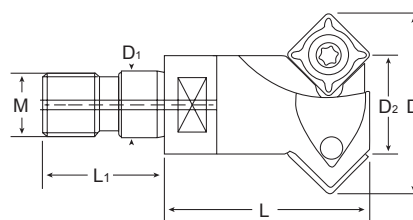
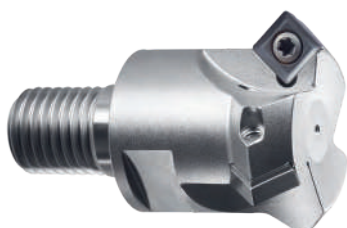
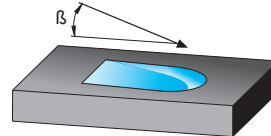
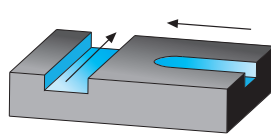
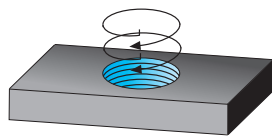
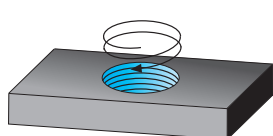
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



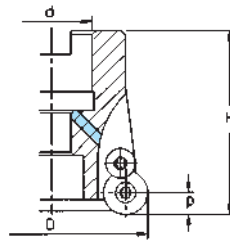
ART. 745MO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	D1	L	L1	M	p	β	z					
745MO D20/3	20	10,5	30	20	M10	10	4,0°	3	LNEX LNKX LNMX 10...	VT 30 745	BT09	0,050	● 171,-
745MO D25/3	25	12,5	35	22	M12	10	3,5°	3				0,100	● 208,50
745MO D32/4	32	17	43	24	M16	10	3,0°	4				0,230	● 240,50



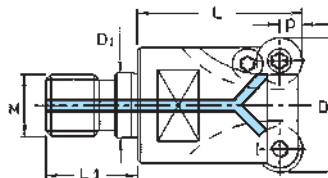
ART. 321 MO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	D	D1	D2	L	L1	M	z				kg		
321MO D12/1	23,7	8,5	12	30	17,5	8	1	SPGT SPMT 09T3...	VT35S	BT15	0,190	●	114,-
321MO D16/2	28,8	10,5	16	30	20	10	2				0,150	●	140,-
321MO D30/3	42,3	17	30	35	24	16	3				0,270	●	181,50



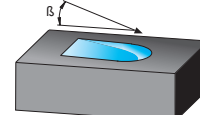
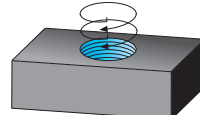
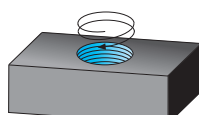
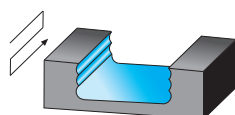
ART. 400M

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																	
	D	d	H	p	β	z												
400M 042-10/6	42	16	44	5	-	6	RD.. 1003...										0,240	● 256,50
400M 052-12/5	52	22	50	6	5,7°	5	RD.. 12T3...										0,360	● 251,50
400M 066-12/6	66	27	50	6	4,1°	6	RD.. 12T3...										0,610	● 256,50
400M 080-12/7	80	27	50	6	3,2°	7	RD.. 12T3...										1,080	● 304,-
400M 052-16/4	52	22	50	8	8,8°	4	RD.. 1604...										0,330	● 251,50
400M 066-16/5	66	27	50	8	6,0°	5	RD.. 1604...										0,500	● 363,50
400M 080-16/6	80	27	50	8	4,5°	6	RD.. 1604...										1,050	● 368,50
400M 100-16/7	100	32	55	8	3,7°	7	RD.. 1604...										1,800	● 405,50
400M 125-16/8	125	40	55	8	2,8°	8	RD.. 1604...										2,300	● 512,50
400M 160-16/9	160	40	55	8	1,8°	9	RD.. 1604...										4,460	● 790,-



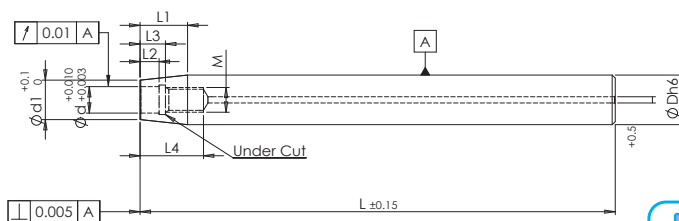
ART. 400MO

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																	
	D	L	M	D1	L1	p	β	z										
400MO D10/2	10	18	M6	6,5	14,5	2,5	28,9°	2	RD.. 0501...								0,010	● 150,-
400MO D20/5	20	30	M10	10,5	20	2,5	6,9°	5	RD.. 0501...								0,060	● 267,-
400MO D12/2	12	18	M6	6,5	14,5	3,5	22,7°	2	RD.. 07T1...								0,010	● 142,-
400MO D15/2	15	23	M8	8,5	17,5	3,5	20,0°	2	RD.. 0702...								0,020	● 142,-
400MO D15/3	15	23	M8	8,5	17,5	3,5	20,0°	3	RD.. 0702...								0,030	● 165,50
400MO D20/4	20	30	M10	10,5	20	3,5	11,0°	4	RD.. 0702...								0,060	● 213,50
400MO D25/5	25	35	M12	12,5	22	3,5	7,3°	5	RD.. 0702...								0,100	● 245,50
400MO D30/5	30	43	M16	17	24	3,5	5,4°	5	RD.. 0702...								0,200	● 272,50
400MO D20/2	20	30	M10	10,5	20	5	39,0°	2	RD.. 1003...								0,050	● 150,-
400MO D25/2	25	35	M12	12,5	22	5	14,3°	2	RD.. 1003...								0,100	● 150,-
400MO D25/3	25	35	M12	12,5	22	5	14,3°	3	RD.. 1003...								0,090	● 165,50
400MO D30/4	30	43	M16	17	24	5	9,3°	4	RD.. 1003...								0,200	● 222,50
400MO D35/4	35	43	M16	17	24	5	7,3°	4	RD.. 1003...								0,200	● 227,50
400MO D35/5	35	43	M16	17	24	5	7,3°	5	RD.. 1003...								0,250	● 277,50
400MO D42/5	42	43	M16	17	24	5	5,4°	5	RD.. 1003...								0,250	● 280,50
400MO D24/2	24	35	M12	12,5	22	6	-	2	RD.. 12T3...								0,100	● 160,50
400MO D35/3	35	43	M16	17	24	6	-	3	RD.. 12T3...								0,200	● 180,-
400MO D42/4	42	43	M16	17	24	6	8,3°	4	RD.. 12T3...								0,250	● 233,-
400MO D32/2	32	43	M16	17	24	8	-	2	RD.. 1604...								0,200	● 180,-



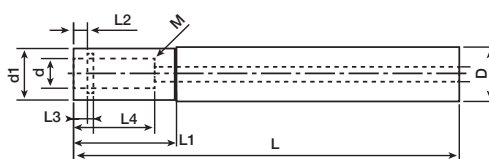
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



ART. PCIMD

CODICE ORDINE Bestell-Nr. Order No.	D	d	d1	L	L1	L2	L3	L4	M	kg	STOCK	PRICELIST €
PCIMD12 060 M06	12	6,5	9,7	60	15	5	8	19	6	0,100	●	327,-
PCIMD12 080 M06	12	6,5	9,7	80	15	5	8	19	6	0,140	●	438,50
PCIMD12 100 M06	12	6,5	9,7	100	15	5	8	19	6	0,200	●	461,50
PCIMD12 150 M06	12	6,5	9,7	150	15	5	8	19	6	0,300	●	536,-
PCIMD16 080 M08	16	8,5	12,7	80	15	6	9	20	8	0,350	●	479,50
PCIMD16 100 M08	16	8,5	12,7	100	15	6	9	20	8	0,350	●	506,-
PCIMD16 120 M08	16	8,5	12,7	120	15	6	9	20	8	0,350	●	610,-
PCIMD16 150 M08	16	8,5	12,7	150	15	6	9	20	8	0,350	●	645,-
PCIMD16 200 M08	16	8,5	12,7	200	15	6	9	20	8	0,600	●	721,50
PCIMD20 100 M10	20	10,5	17,7	100	20	10	13	26	10	0,500	●	802,50
PCIMD20 140 M10	20	10,5	17,7	140	20	10	13	26	10	0,700	●	842,50
PCIMD20 200 M10	20	10,5	17,7	200	20	10	13	26	10	0,900	●	1243,50
PCIMD25 100 M12	25	12,5	20,7	100	30	10	13	26	12	0,500	●	1039,50
PCIMD25 150 M12	25	12,5	20,7	150	30	10	13	26	12	0,500	●	1268,50
PCIMD25 200 M12	25	12,5	20,7	200	30	10	13	26	12	0,900	●	1349,-
PCIMD25 250 M12	25	12,5	20,7	250	30	10	13	26	12	1,000	●	1640,-
PCIMD32 100 M16	32	17	28,7	100	30	10	14	30	16	1,250	●	1438,-
PCIMD32 150 M16	32	17	28,7	150	30	10	14	30	16	1,900	●	2002,50



ART. PCCMD

CODICE ORDINE Bestell-Nr. Order No.	D	d	d1	L	L1	L2	L3	L4	M	kg	STOCK	PRICELIST €
PCCMD10 150 M6	10	6,5	9,8	150	30	5	7	19	6	0,300	○	387,-
PCCMD12 150 M6	12	6,5	10,8	150	27	5	7	19	6	0,300	○	535,-
PCCMD16 150 M8	16	8,5	15	150	27	6	8	20	8	0,350	○	644,-
PCCMD16 200 M8	16	8,5	15	200	31	6	8	20	8	0,600	○	722,50
PCCMD20 200 M10	20	10,5	18	200	36	10	12	24	10	0,900	○	1239,-
PCCMD20 250 M10	20	10,5	18	250	44	10	12	24	10	1,000	○	1331,50
PCCMD25 200 M12	25	12,5	22,5	200	36	10	12	26	12	0,500	○	1348,-
PCCMD25 250 M12	25	12,5	22,5	250	44	10	12	26	12	1,000	○	1640,-
PCCMD32 250 M16	32	17	28,6	250	44	10	13	28	16	2,100	○	2713,50
PCCMD32 300 M16	32	17	28,6	300	52	10	13	28	16	2,300	○	3184,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

MICROTOOLS

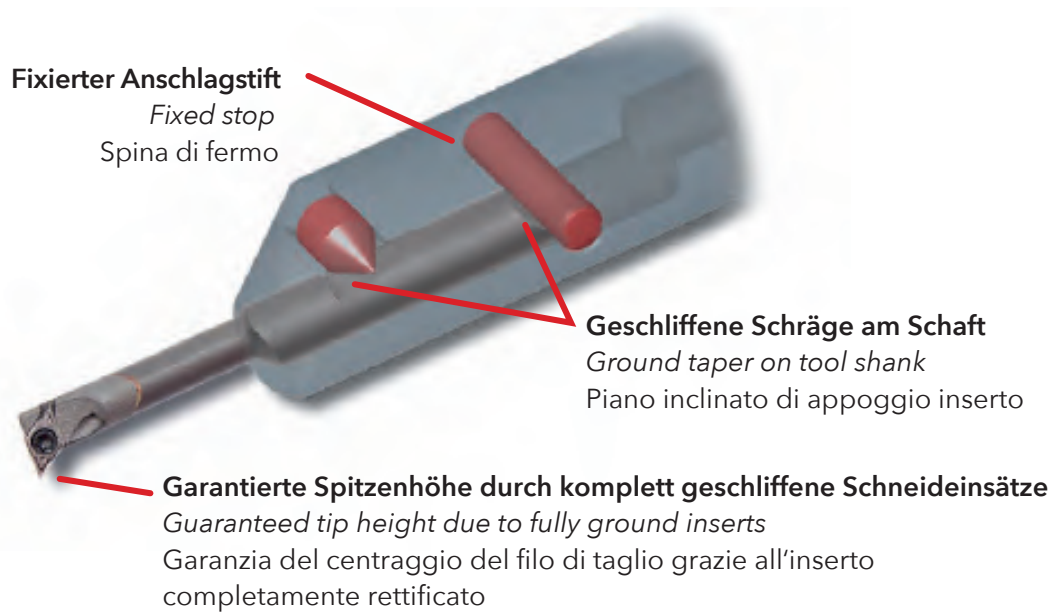
MICROTOOLS

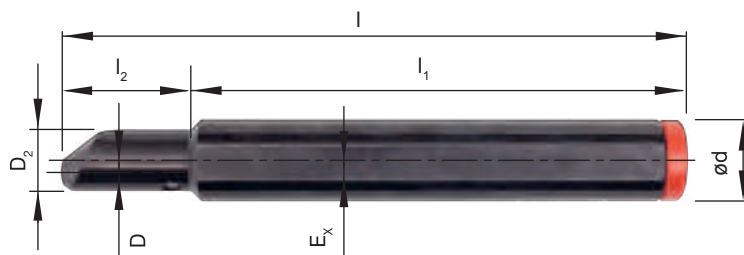


HIGH QUALITY TOOLS

Montage

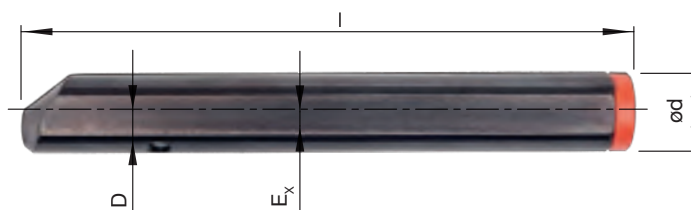
Assembling
Montaggio





NEW HAMS

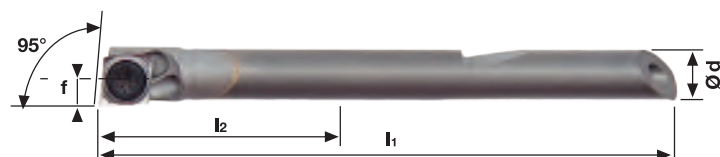
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST
	D	D ₂	d	l	l ₁	l ₂	E _x					€
HAMS 1604R/L	4	12	16	120	95	25	2,35	AS 0043	KVR 16	KP3111	0,150	● 284,50



NEW HAMS

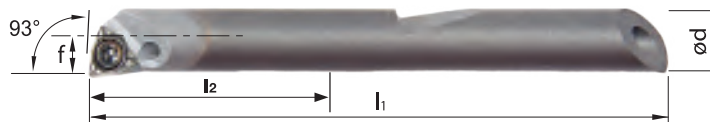
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €
	D	d	l	E _x						
HAMS 1606R/L	6	16	120	2,8	AS 0044	KVR 16	KP1111	0,160	●	284,50
HAMS 1608R/L	8	16	120	2,8				0,160	●	284,50

Bareni per tornitura interna | Bohrstangen für die Innenbearbeitung | Internal boring bars



NEW E-SCLDR/L

CARBIDE	CODICE ORDINE	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST	
	Bestell-Nr.	d	l ₁	l ₂	f	D _{min}							€
	Order No.												
	E04 SCLDR/L 04 AMS	4	46	24	2,4	4,8	CDGT 0401...	VT18B	BT06	0,015	●	202,-	
	E06 SCLDR/L 04 AMS	6	65	37	3,4	6,8				0,030	●	202,-	

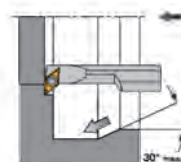
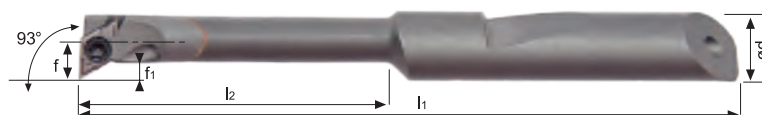


NEW E-SWUCR/L

CARBIDE	E-SWUCR/L											
	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
	E 06 SWUCR/L 02 AMS	6	65	37	3,9	7,8	WCMT WCGT 0201	VT20B	BT06	0,030	●	202,-

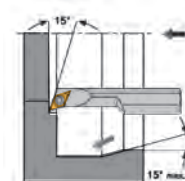
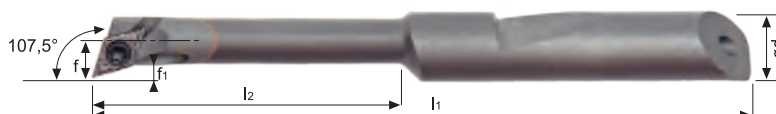
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



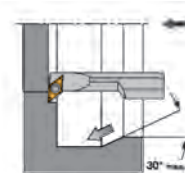
NEW E-SDUCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E0406 SDUCR/L 04 AMS	6	56	26	3	1,5	5,6	DCGT 04T0...	VT1604	BT05	0,022	●	202,-
	E0408 SDUCR/L 04 AMS	8	57	26	3	1,5	5,6				0,022	●	202,-



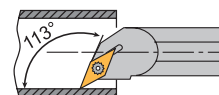
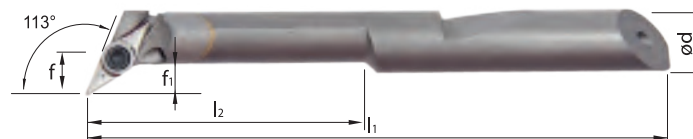
NEW E-SDQCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E0406 SDQCR/L 04 AMS	6	56	26	2,6	1,1	5,2	DCGT 04T0...	VT1604	BT05	0,022	●	202,-
	E0408 SDQCR/L 04 AMS	8	57	26	2,6	1,1	5,2				0,022	●	202,-



NEW E-SVLCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E0406 SVLCR/L 05 AMS	6	56	26	6	3	9,2	VCGT 0501...	VT1604	BT05	0,022	●	202,-
	E0408 SVLCR/L 05 AMS	8	57	26	5	3	9,2				0,031	●	202,-



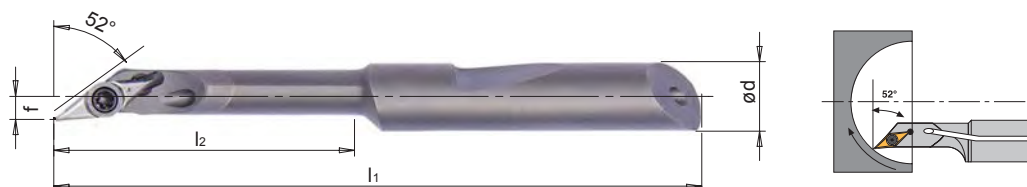
NEW E-SVXCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E0406 SVXCR/L 05 AMS	6	56	26	5	3	8,2	VCGT 0501...	VT1604	BT05	0,022	●	202,-
	E0408 SVXCR/L 05 AMS	8	57	26	5	3	9,2				0,031	●	202,-

● Disponibile - Lieferbar - On stock

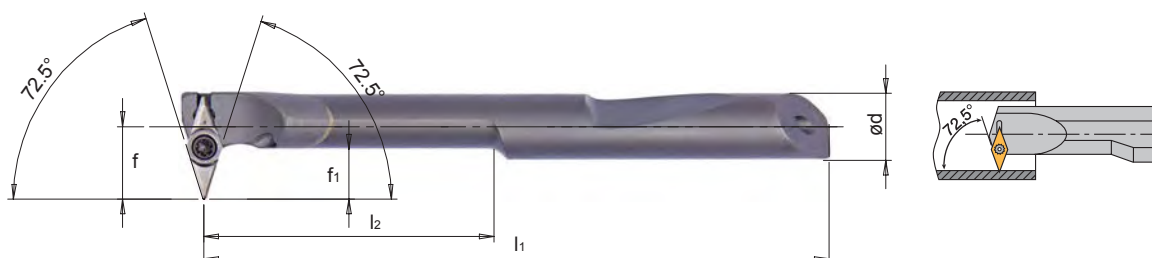
○ A richiesta - Auf Anfrage - On request

NEW E-SVJCR/L



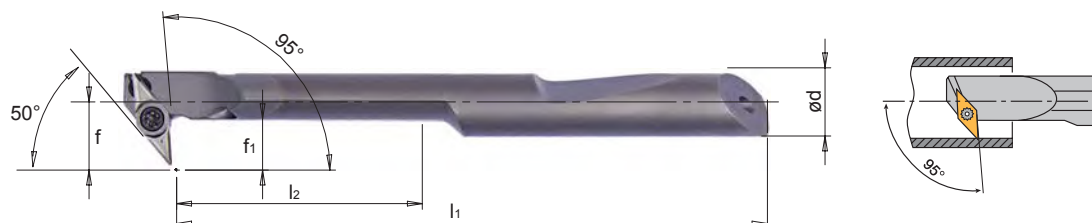
CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
	E0406 SVJCR/L 05 AMS	6	56	26	2	5,5	VCVT 0501...	VT1604	BT05	0,021	●	202,-
	E0408 SVJCR/L 05 AMS	8	57	26	2	5,5				0,028	●	202,-

NEW E-SVVCRL



CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E0406 SVVCRL/L 05 AMS	6	56	26	6,5	4,5	10,3	VCVT 0501...	VT1604	BT05	0,024	●	202,-
	E0408 SVVCRL/L 05 AMS	8	57	26	5,5	3,5	10,2				0,035	●	202,-

NEW E-SV95CR/L



CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E0406 SVL95CR/L 05 AMS	6	56	26	6	4,5	9,2	VCVT 0501...	VT1604	BT05	0,024	●	202,-
	E0408 SVL95CR/L 05 AMS	8	57	26	5	3	9,2				0,037	●	202,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



NEW TURNING 95°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €		
	D _{min}	FL	R	T	L ₁			K15	TiN	TiAlN
GEMCS-D-250401-200.40R	2,5	20	0,1	0,4	22		○	70,-	72,-	72,-
GEMCS-D-300401-200.40R	3,0	20	0,1	0,4	22		○	68,50	70,50	70,50
GEMCS-D-390602-150.40R	3,9	15	0,2	0,6	17		○	62,50	64,50	64,50
GEMCS-D-590802-200.60R	5,9	20	0,2	0,8	22		○	83,-	85,-	85,-
GEMCS-D-590801-150.60R	5,9	15	0,1	0,8	17		○	78,50	80,50	80,50
GEMCS-D-6005015-420.60R	6,0	42	0,15	0,8	44		○	93,50	95,50	95,50



NEW GROOVING

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €		
	D _{min}	W	DE	FL	L ₁			K15	TiN	TiAlN
GEMCS-S-39100800-100.40R	3,6	1	0,8	10	12		○	85,-	87,-	87,-
GEMCS-S-59151800-100.60R	5,9	1,5	1,8	10	12		○	94,50	96,50	96,50
GEMCS-S-69202500-150.80R	6,9	2	2,5	15	17		○	112,50	114,50	114,50
GEMCS-S-79182500-250.80R	7,9	1,8	2,6	25	27		○	112,50	114,50	114,50



NEW CIR-CLIP DIN471/472

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €		
	D _{min}	W	DE	R	FL	L ₁		K15	TiN	TiAlN
GEMCS-472-41139110-150.40R	4,1	1,36	1,1	0,05	15	17	○	82,50	84,50	84,50
GEMCS-472-84119200-200.80R	8,4	1,19	2	0,05	20	22	○	115,50	117,50	117,50
GEMCS-472-84169250-200.80R	8,4	1,69	2,5	0,05	20	22	○	119,50	121,50	121,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



NEW COPYING

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €		
	D _{min}	FL	R	T	L ₁			K15	TiN	TiALN
GEMCS-K-390802-150.40R	3,9	15	0,2	0,8	17		○	62,50	64,50	64,50
GEMCS-K-500502-250.60R	5	25	0,2	0,5	27		○	97,50	99,50	99,50
GEMCS-K-591802-200.60R	5,9	20	0,2	0,5	22		○	81,-	83,-	83,-



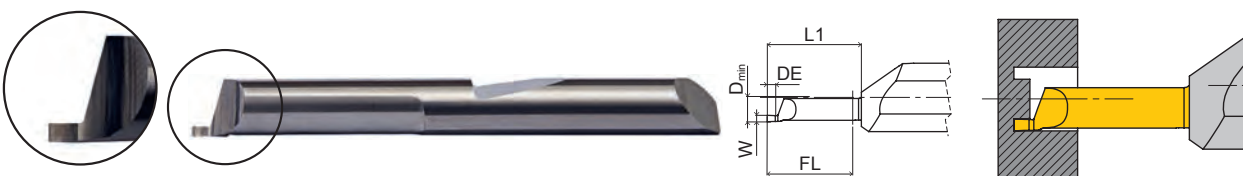
NEW COPYING 45°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €		
	D _{min}	FL	R	T	L ₁			K15	TiN	TiALN
GEMCS-K45-391304-200.40R	3,9	20	0,4	1,3	22		○	74,50	76,50	76,50
GEMCS-K45-400604-150.40R	4	15	0,4	0,6	17		○	67,50	69,50	69,50



NEW THREADING 60°, METRIC PARTIAL PROFILE

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €		
	D _{min}	Th	P	S	FL	L ₁		K15	TiN	TiALN
GEMCS-G-M5-150.40R	4	M5	0,5-1,0	0,7	15	17	○	64,-	66,-	66,-
GEMCS-G-M8-200.60R	6	M6	0,5-1,5	0,8	20	22	○	80,50	82,50	82,50

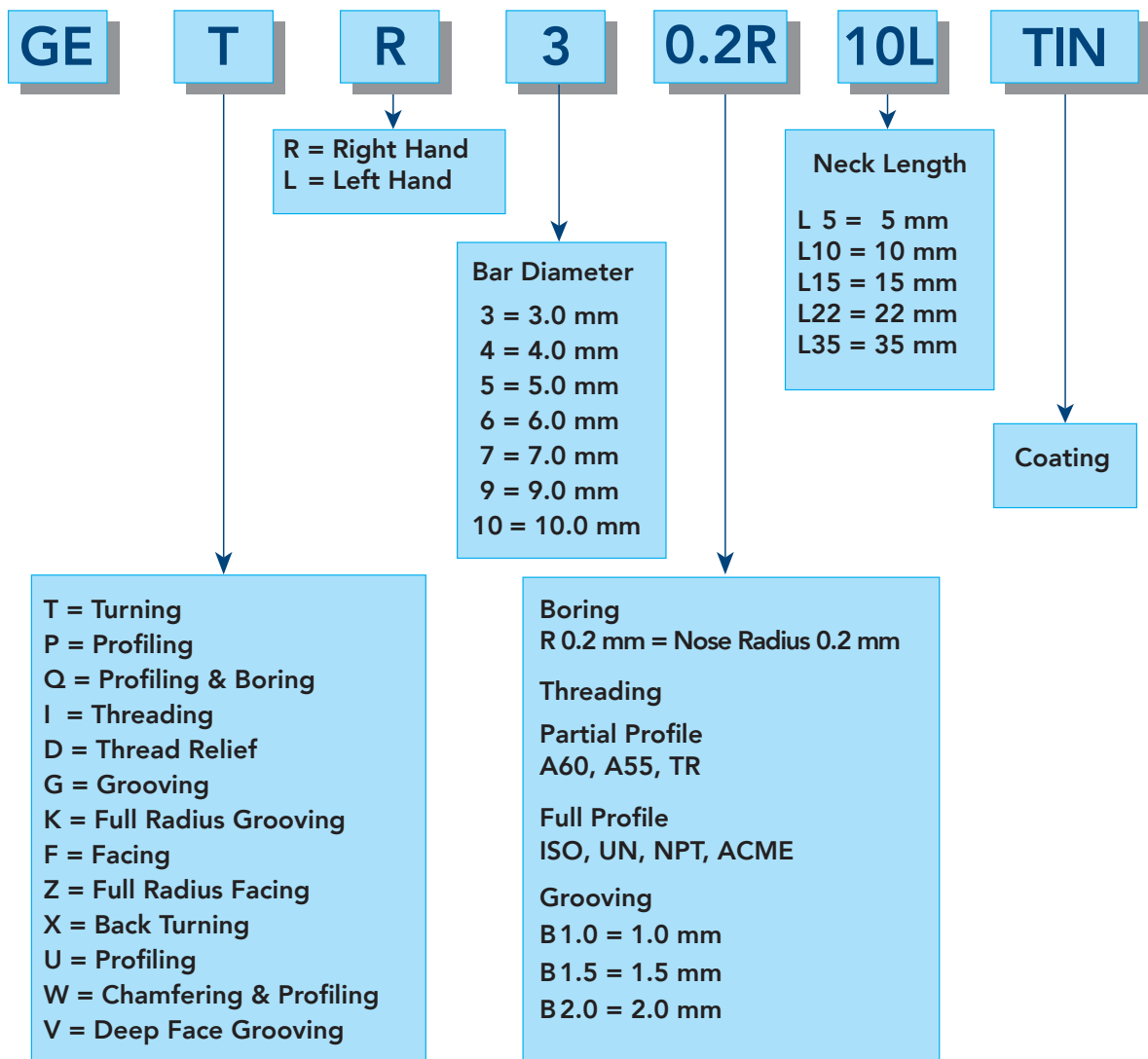
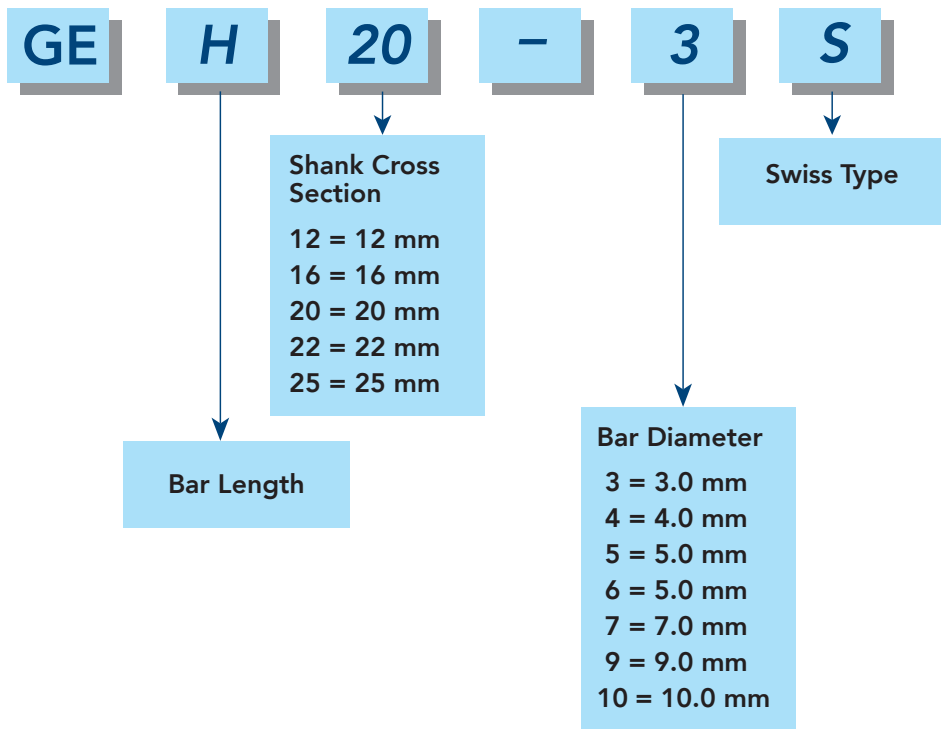


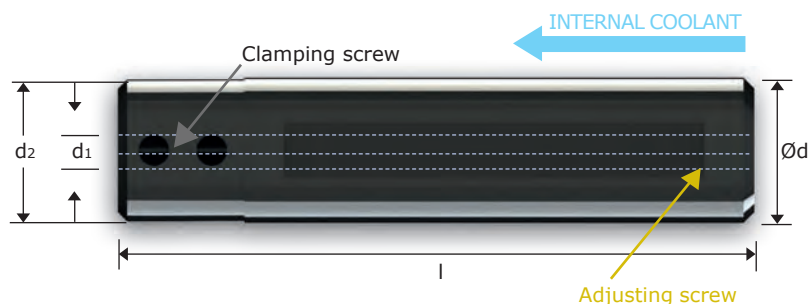
NEW AXIAL GROOVING

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €		
	D _{min}	W	DE	FL	L ₁			K15	TiN	TiALN
GEMCS-A-70152000-200.60R	7	1,5	2	20	22		○	76,-	78,-	78,-
GEMCS-A-90152000-250.80R	9	1,5	2	25	27		○	103,-	105,-	105,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

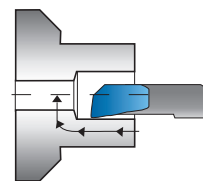
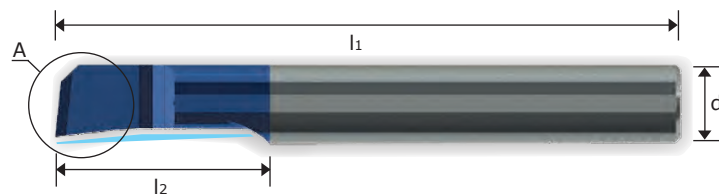
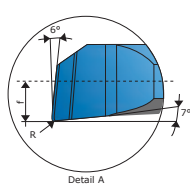




GEH

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				CLAMPING SCREW	ADJUSTING SCREW	KEY	STOCK	PRICELIST €
d	d1	d2	l						
GEH12-3	12	3.0	12	88	S24	S35	K25	○	104,50
GEH16-3S *	16	3.0	20	75	S25	S35S	K25	○	112,-
GEH16-3	16	3.0	20	88	S25	S35	K25	○	112,-
GEH20-3	20	3.0	20	88	S25	S35	K25	○	112,-
GEH22-3	22	3.0	22	88	S25	S35	K25	○	112,-
GEH12-4	12	4.0	12	88	S24	S35	K25	○	104,50
GEH16-4S *	16	4.0	20	75	S25	S35S	K25	○	112,-
GEH16-4	16	4.0	20	88	S25	S35	K25	○	112,-
GEH20-4	20	4.0	20	88	S25	S35	K25	○	112,-
GEH22-4	22	4.0	22	88	S25	S35	K25	○	112,-
GEH12-5	12	5.0	12	88	S24	S35	K25	○	118,-
GEH16-5S *	16	5.0	20	75	S25	S35S	K25	○	118,-
GEH16-5	16	5.0	20	88	S25	S35	K25	○	118,-
GEH20-5	20	5.0	20	88	S25	S35	K25	○	118,-
GEH22-5	22	5.0	22	75	S25	S35	K25	○	118,-
GEH16-6S *	16	6.0	20	75	S25	S35S	K25	○	118,-
GEH16-6	16	6.0	20	88	S25	S35	K25	○	118,-
GEH20-6	20	6.0	20	88	S25	S35	K25	○	118,-
GEH22-6	22	6.0	22	88	S25	S35	K25	○	118,-
GEH16-7	16	7.0	20	88	S25	S35	K25	○	118,-
GEH20-7	20	7.0	20	88	S25	S35	K25	○	118,-
GEH22-7	22	7.0	22	88	S25	S35	K25	○	118,-
GEH16-8	16	8.0	20	88	S25	S35	K25	○	127,-
GEH20-8	20	8.0	20	88	S25	S35	K25	○	127,-
GEH22-8	22	8.0	22	88	S25	S35	K25	○	118,-
GEH16-10	16	10.0	20	88	S25	S35	K25	○	127,-
GEH20-10	20	10.0	20	88	S25	S35	K25	○	138,50
GEH22-10	22	10.0	22	88	S25	S35	K25	○	118,-
GEH25-3	25	3.0	10.8	62	S25	S35M	K25	○	129,50
GEH25-4	25	4.0	10.8	62	S25	S35M	K25	○	129,50
GEH25-5	25	5.0	10.8	62	S25	S35M	K25	○	129,50
GEH25-6	25	6.0	10.8	62	S25	S35M	K25	○	129,50
GEH25-8	25	8.0	10.8	62	S25	S35M	K25	○	129,50

* Can also be used with Swiss Type lathe machines



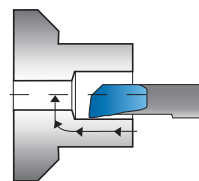
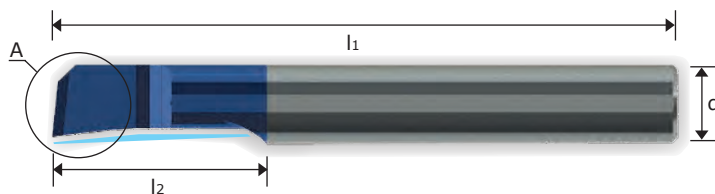
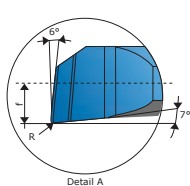
GETRL

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	R	f	D _{min}		K15	TiN	TiALN	
GETRL1-0.05R-4L *	3.0	39	4	0.05	0.5	1.0	○	37,50	39,50	43,50	GEH ... - 3
GETRL1-0.05R-6L	3.0	39	6	0.05	0.5	1.0	○	37,50	39,50	40,50	GEH ... - 3
GETRL1.5-0.1R-6L *	3.0	39	6	0.10	0.7	1.5	○	37,50	39,50	43,50	GEH ... - 3
GETRL2-0.05R-10L *	3.0	39	10	0.05	0.8	2.1	○	36,-	38,-	41,50	GEH ... - 3
GETRL2-0.15R-5L *	3.0	39	5	0.15	0.8	2.1	○	34,50	36,-	39,50	GEH ... - 3
GETRL2-0.15R-10L *	3.0	39	10	0.15	0.8	2.1	○	34,50	36,-	39,50	GEH ... - 3
GETRL3-0.05R-10L	3.0	39	10	0.05	1.3	3.1	○	34,50	36,-	39,50	GEH ... - 3
GETRL3-0.05R-15L	3.0	39	15	0.05	1.3	3.1	○	36,50	38,50	42,50	GEH ... - 3
GETRL3-0.1R-10L	3.0	39	10	0.10	1.3	3.1	○	34,50	36,-	39,50	GEH ... - 3
GETRL3-0.1R-15L	3.0	39	15	0.10	1.3	3.1	○	35,50	38,50	41,-	GEH ... - 3
GETRL3-0.2R-10L	3.0	39	10	0.20	1.3	3.1	○	34,50	36,-	39,50	GEH ... - 3
GETRL3-0.2R-15L	3.0	39	15	0.20	1.3	3.1	○	36,50	38,50	42,50	GEH ... - 3
GETRL4-0.05R-15L	4.0	51	15	0.05	1.7	4.1	○	37,-	39,-	43,-	GEH ... - 3
GETRL4-0.1R-10L	4.0	51	10	0.10	1.7	4.1	○	34,50	36,50	40,-	GEH ... - 4
GETRL4-0.1R-15L	4.0	51	15	0.10	1.7	4.1	○	37,-	39,-	43,-	GEH ... - 4
GETRL4-0.1R-22L	4.0	51	22	0.10	1.7	4.1	○	39,-	41,-	45,-	GEH ... - 4
GETRL4-0.2R-10L	4.0	51	10	0.20	1.7	4.1	○	34,50	36,50	40,-	GEH ... - 4
GETRL4-0.2R-15L	4.0	51	15	0.20	1.7	4.1	○	37,-	39,-	43,-	GEH ... - 4
GETRL4-0.2R-22L	4.0	51	22	0.20	1.7	4.1	○	39,-	41,-	45,-	GEH ... - 4
GETRL4-0.2R-30L	4.0	59	30	0.20	1.7	4.1	○	44,50	47,-	51,50	GEH ... - 4

* Without coolant channel

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



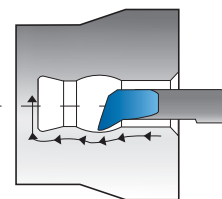
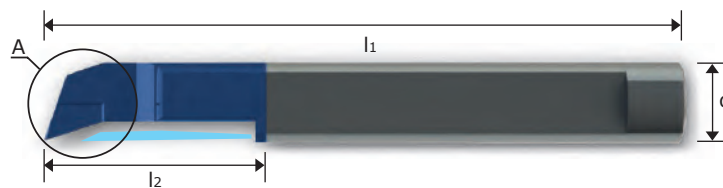
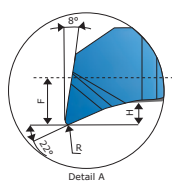
GETR\L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	R	f	D _{min}		K15	TiN	TiAlN	
GETR\L5-0.05R-15L	5.0	51	15	0.05	2.1	5.1	○	34,50	36,50	40,-	GEH ... - 5
GETR\L5-0.1R-15L	5.0	51	15	0.10	2.1	5.1	○	34,50	36,50	40,-	GEH ... - 5
GETR\L5-0.1R-22L	5.0	51	22	0.10	2.1	5.1	○	44,-	46,50	51,-	GEH ... - 5
GETR\L5-0.1R-30L	5.0	76	30	0.10	2.1	5.1	○	50,-	52,50	58,-	GEH ... - 5
GETR\L5-0.2R-15L	5.0	51	15	0.20	2.1	5.1	○	34,50	36,50	40,-	GEH ... - 5
GETR\L5-0.2R-22L	5.0	51	22	0.20	2.1	5.1	○	44,-	46,50	51,-	GEH ... - 5
GETR\L5-0.2R-30L	5.0	76	30	0.20	2.1	5.1	○	50,-	52,50	58,-	GEH ... - 5
GETR\L6-0.05R-15L	6.0	51	15	0.05	2.8	6.1	○	35,-	37,-	40,50	GEH ... - 6
GETR\L6-0.05R-22L	6.0	51	22	0.05	2.8	6.1	○	38,50	40,50	44,50	GEH ... - 6
GETR\L6-0.1R-15L	6.0	51	15	0.10	2.8	6.1	○	35,-	37,-	40,50	GEH ... - 6
GETR\L6-0.1R-22L	6.0	51	22	0.10	2.8	6.1	○	44,50	47,-	51,50	GEH ... - 6
GETR\L6-0.2R-15L	6.0	51	15	0.20	2.8	6.1	○	35,-	37,-	40,50	GEH ... - 6
GETR\L6-0.2R-22L	6.0	51	22	0.20	2.8	6.1	○	44,50	47,-	51,50	GEH ... - 6
GETR\L6-0.2R-30L	6.0	58	30	0.20	2.8	6.1	○	50,-	53,-	58,-	GEH ... - 6
GETR\L6-0.2R-35L	6.0	76	35	0.20	2.8	6.1	○	54,-	56,50	62,50	GEH ... - 6
GETR\L7-0.2R-22L	7.0	62	22	0.20	3.3	7.1	○	47,50	50,-	55,-	GEH ... - 7
GETR\L7-0.2R-30L	7.0	62	30	0.20	3.3	7.1	○	52,50	55,-	60,50	GEH ... - 7
GETR\L8-0.2R-15L	8.0	64	15	0.20	3.8	8.1	○	45,50	47,50	52,50	GEH ... - 8
GETR\L8-0.2R-22L	8.0	64	22	0.20	3.8	8.1	○	50,50	53,-	58,-	GEH ... - 8
GETR\L8-0.2R-35L	8.0	76	35	0.20	3.8	8.1	○	53,50	56,50	62,-	GEH ... - 8
GETR\L10-0.2R-35L	10.0	73	35	0.20	4.8	10.1	○	56,50	59,50	65,50	GEH ... - 10

Order example: GETR4-0.2R-15LTIN

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

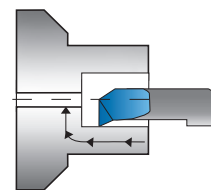
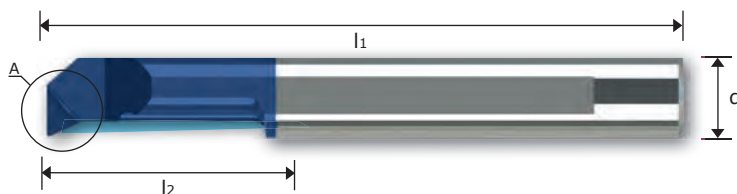
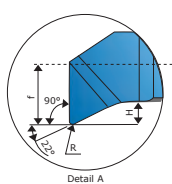


GEPR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	H	R	f	D _{min}		K15	TiN	TiALN	
GEPR/L1-0.05R-4L *	3.0	39	4	0.2	0.05	0.5	1.0	○	37,50	39,50	43,50	GEH ... - 3
GEPR/L1-0.05R-8L	3.0	39	8	0.2	0.05	0.5	1.0	○	41,50	43,50	47,50	GEH ... - 3
GEPR/L1.5-0.05R-10L	3.0	39	10	0.3	0.05	0.7	1.5	○	41,50	43,50	47,50	GEH ... - 3
GEPR/L1.5-0.1R-6L *	3.0	39	6	0.3	0.10	0.7	1.5	○	48,-	53,-	48,-	GEH ... - 3
GEPR/L1.5-0.1R-10L	3.0	39	10	0.3	0.10	0.7	1.5	○	53,-	48,-	56,50	GEH ... - 3
GEPR/L2-0.05R-10L *	3.0	39	10	0.5	0.05	0.8	2.1	○	36,-	38,-	41,50	GEH ... - 3
GEPR/L2-0.1R-10L *	3.0	39	10	0.5	0.10	0.8	2.1	○	36,-	38,-	39,50	GEH ... - 3
GEPR/L2-0.15R-5L *	3.0	39	5	0.5	0.15	0.8	2.1	○	34,50	36,-	39,50	GEH ... - 3
GEPR/L2-0.15R-10L *	3.0	39	10	0.5	0.15	0.8	2.1	○	34,50	36,-	39,50	GEH ... - 3
GEPR/L2-0.15R-15L	3.0	39	15	0.5	0.15	0.8	2.1	○	36,-	38,-	41,50	GEH ... - 3
GEPR/L3-0.05R-10L	3.0	39	10	0.7	0.05	1.3	3.1	○	34,50	36,-	39,50	GEH ... - 3
GEPR/L3-0.05R-15L	3.0	39	15	0.7	0.05	1.3	3.1	○	36,50	38,50	42,50	GEH ... - 3
GEPR/L3-0.1R-15L	3.0	39	15	0.7	0.10	1.3	3.1	○	36,50	38,50	42,50	GEH ... - 3
GEPR/L3-0.1R-22L	3.0	47	22	0.7	0.10	1.3	3.1	○	38,50	40,50	44,50	GEH ... - 3
GEPR/L3-0.2R-10L	3.0	39	10	0.7	0.20	1.3	3.1	○	34,50	36,-	39,50	GEH ... - 3
GEPR/L3-0.2R-15L	3.0	39	15	0.7	0.20	1.3	3.1	○	36,50	38,50	42,50	GEH ... - 3
GEPR/L3-0.2R-22L	3.0	47	22	0.7	0.20	1.3	3.1	○	38,50	40,50	44,50	GEH ... - 3
GEPR/L4-0.1R-10L	4.0	51	10	0.8	0.10	1.7	4.1	○	36,-	39,-	43,-	GEH ... - 4
GEPR/L4-0.1R-15L	4.0	51	15	0.8	0.10	1.7	4.1	○	40,50	43,-	47,-	GEH ... - 4
GEPR/L4-0.1R-22L	4.0	51	22	0.8	0.10	1.7	4.1	○	39,-	41,-	45,-	GEH ... - 4
GEPR/L4-0.2R-10L	4.0	51	10	0.8	0.20	1.7	4.1	○	34,50	36,50	40,-	GEH ... - 4
GEPR/L4-0.2R-15L	4.0	51	15	0.8	0.20	1.7	4.1	○	37,-	39,-	43,-	GEH ... - 4
GEPR/L4-0.2R-22L	4.0	51	22	0.8	0.20	1.7	4.1	○	39,-	41,-	45,-	GEH ... - 4
GEPR/L5-0.1R-22L	5.0	51	22	1.2	0.10	2.1	5.1	○	44,-	46,50	49,-	GEH ... - 5
GEPR/L5-0.1R-30L	5.0	76	30	1.2	0.10	2.1	5.1	○	50,50	53,50	58,50	GEH ... - 5
GEPR/L5-0.2R-10L	5.0	51	10	1.2	0.20	2.1	5.1	○	34,50	36,50	40,-	GEH ... - 5
GEPR/L5-0.2R-15L	5.0	51	15	1.2	0.20	2.1	5.1	○	34,50	36,50	40,-	GEH ... - 5
GEPR/L5-0.2R-22L	5.0	51	22	1.2	0.20	2.1	5.1	○	44,-	46,50	51,-	GEH ... - 5
GEPR/L5-0.2R-30L	5.0	76	30	1.2	0.20	2.1	5.1	○	50,50	53,50	58,50	GEH ... - 5
GEPR/L6-0.2R-15L	6.0	51	15	1.4	0.20	2.8	6.1	○	35,-	37,-	40,50	GEH ... - 6
GEPR/L6-0.2R-22L	6.0	51	22	1.4	0.20	2.8	6.1	○	44,50	47,-	51,50	GEH ... - 6
GEPR/L6-0.2R-30L	6.0	76	30	1.4	0.20	2.8	6.1	○	51,-	54,-	59,-	GEH ... - 6
GEPR/L7-0.2R-22L	7.0	62	22	1.5	0.20	3.3	7.1	○	49,-	51,50	56,50	GEH ... - 7
GEPR/L7-0.2R-30L	7.0	62	30	1.5	0.20	3.3	7.1	○	54,-	57,-	62,50	GEH ... - 7
GEPR/L7-0.2R-35L	7.0	62	35	1.5	0.20	3.3	7.1	○	56,50	59,50	65,50	GEH ... - 7
GEPR/L8-0.2R-15L	8.0	64	15	1.6	0.20	3.8	8.1	○	45,50	47,50	52,50	GEH ... - 8
GEPR/L8-0.2R-22L	8.0	64	22	1.6	0.20	3.8	8.1	○	50,50	53,-	58,-	GEH ... - 8
GEPR/L8-0.2R-35L	8.0	76	35	1.6	0.20	3.8	8.1	○	56,50	59,50	65,50	GEH ... - 8
GEPR/L10-0.2R-35L	10.0	73	35	2.0	0.20	4.8	10.1	○	56,50	59,50	65,50	GEH ... - 10

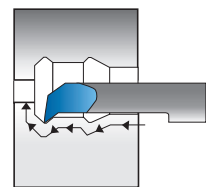
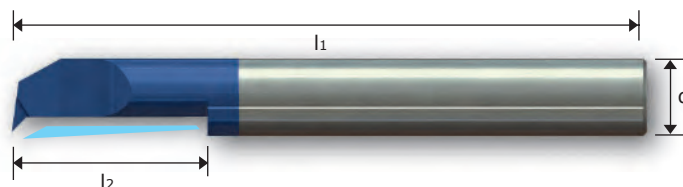
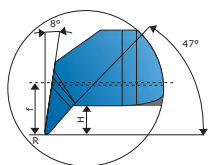
* Without coolant channel

Order example: GEPR5-0.2R-10L TiN



GEUR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	R	f	H	D _{min}		K15	TiN	TiAlN	
GEURL3-0.05R-10L	3.0	39	10	0.05	1.3	0.4	3.1	○	34,50	36,-	39,50	GEH ... - 3
GEURL3-0.05R-15L	3.0	39	15	0.05	1.3	0.4	3.1	○	36,50	38,50	42,50	GEH ... - 3
GEURL4-0.1R-10L	4.0	51	10	0.10	1.7	0.5	4.1	○	34,50	36,50	40,-	GEH ... - 4
GEURL4-0.1R-15L	4.0	51	15	0.10	1.7	0.5	4.1	○	37,-	39,-	43,-	GEH ... - 4
GEURL5-0.15R-15L	5.0	51	15	0.15	2.1	0.7	5.1	○	34,50	36,50	40,-	GEH ... - 5
GEURL5-0.15R-22L	5.0	51	22	0.15	2.1	0.7	5.1	○	44,-	46,50	51,-	GEH ... - 5
GEURL6-0.15R-15L	6.0	51	15	0.15	2.8	0.9	6.1	○	35,-	37,-	40,50	GEH ... - 6
GEURL6-0.15R-22L	6.0	51	22	0.15	2.8	0.9	6.1	○	44,50	47,-	51,50	GEH ... - 6
GEURL8-0.2R-22L	8.0	64	22	0.20	3.8	1.1	8.1	○	50,50	53,-	58,-	GEH ... - 8



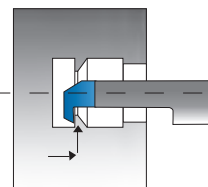
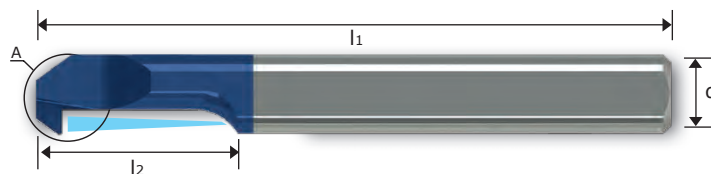
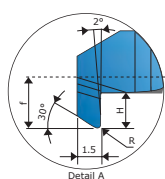
GEQR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	H	R	f	D _{min}		K15	TiN	TiAlN	
GEQR/L4-0.1R-22L	4.0	51	22	0.8	0.10	1.8	4.1	○	39,-	41,-	45,-	GEH ... - 4
GEQR/L4-0.2R-10L	4.0	51	10	0.8	0.20	1.8	4.1	○	34,50	36,50	40,-	GEH ... - 4
GEQR/L4-0.2R-15L	4.0	51	15	0.8	0.20	1.8	4.1	○	37,-	39,-	43,-	GEH ... - 4
GEQR/L4-0.2R-22L	4.0	51	22	0.8	0.20	1.8	4.1	○	39,-	41,-	45,-	GEH ... - 4
GEQR/L5-0.2R-15L	5.0	51	15	1.0	0.20	2.3	5.1	○	34,50	36,50	40,-	GEH ... - 5
GEQR/L5-0.2R-22L	5.0	51	22	1.0	0.20	2.3	5.1	○	44,-	46,50	51,-	GEH ... - 5
GEQR/L6-0.2R-15L	6.0	51	15	1.4	0.20	2.8	6.1	○	35,-	37,-	37,-	GEH ... - 6
GEQR/L6-0.2R-22L	6.0	51	22	1.4	0.20	2.8	6.1	○	44,50	47,-	51,50	GEH ... - 6
GEQR/L6-0.2R-30L	6.0	58	30	1.4	0.20	2.8	6.1	○	51,-	54,-	59,-	GEH ... - 6
GEQR/L8-0.2R-22L	8.0	64	22	1.6	0.20	3.8	8.1	○	50,50	53,-	58,-	GEH ... - 8
GEQR/L8-0.2R-27L	8.0	64	27	2.0	0.20	3.8	8.1	○	53,-	55,50	61,-	GEH ... - 8

Order example: GEQR5-0.2R-15L TiN

● Disponibile - Lieferbar - On stock

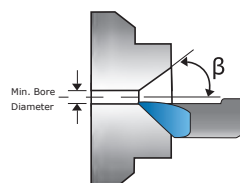
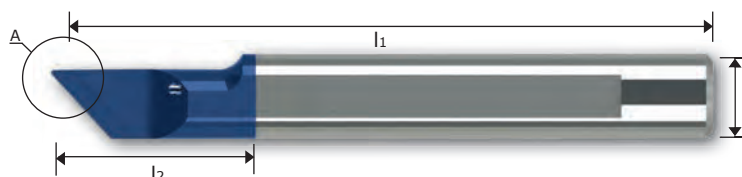
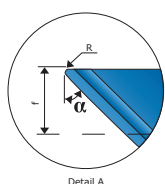
○ A richiesta - Auf Anfrage - On request



GEXR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	H	R	f	D _{min}		K15	TiN	TiALN	
GEXR/L4-0.1R-10L	4.0	51	10	0.5	0.10	1.3	3.1	○	37,-	39,-	41,-	GEH ...-4
GEXR/L4-0.15R-10L	4.0	51	10	0.8	0.15	1.6	4.1	○	51,-	38,50	41,-	GEH ...-4
GEXR/L4-0.15R-15L	4.0	51	15	0.8	0.15	1.6	4.1	○	45,-	44,-	46,50	GEH ...-4
GEXR/L5-0.2R-15L	5.0	51	15	1.0	0.20	2.2	5.1	○	38,50	40,50	44,50	GEH ...-5
GEXR/L5-0.2R-22L	5.0	51	22	1.0	0.20	2.2	5.1	○	44,-	46,50	51,-	GEH ...-5
GEXR/L6-0.2R-15L	6.0	51	15	1.8	0.20	2.8	6.1	○	39,-	41,-	45,-	GEH ...-6
GEXR/L6-0.2R-22L	6.0	51	22	1.8	0.20	2.8	6.1	○	44,50	47,-	51,50	GEH ...-6

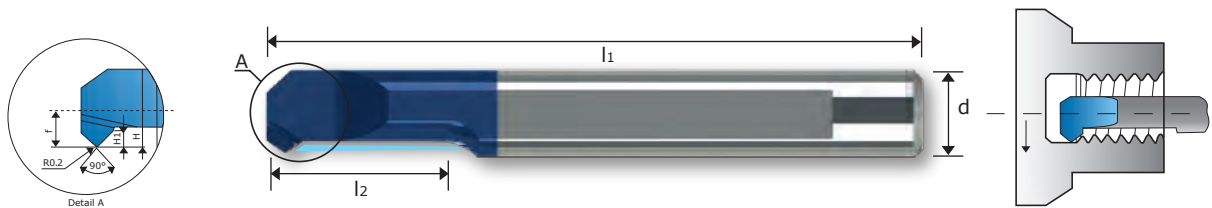
Order example: GEXR4-0.15R-15L TiN



GEWR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	α	β	R	f	D _{min}		K15	TiN	TiALN	
GEWR/L6-0.2R-90A	6.0	51	15.0	45 °	45 °	0.20	2.3	1.0	○	42,50	44,50	49,-	GEH ... - 6
GEWR/L6-0.2R-60A	6.0	51	15.0	60 °	30 °	0.20	2.3	1.0	○	42,50	44,50	49,-	GEH ... - 6
GEWR/L6-0.4R-A90	6.0	51	22.0	45 °	45 °	0.40	2.3	6.0	○	44,50	47,-	51,50	GEH ... - 6
GEWR/L6-0.4R-A60	6.0	51	22.0	60 °	30 °	0.40	2.3	6.0	○	44,50	47,-	51,50	GEH ... - 6

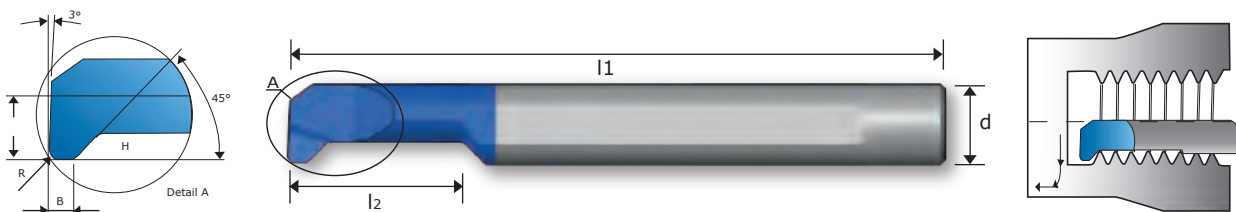
Order example: GEWR6-0.2R-60A TiN



GECL

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	H	H1	R	f	D _{min}		K15	TiN	TiAlN	
GECL3-0.2R-10L	3.0	39	10	0.7	0.3	0.20	1.3	3.1	○	34,50	36,-	39,50	GEH ... - 3
GECL4-0.2R-15L	4.0	51	15	0.8	0.4	0.20	1.7	4.1	○	34,50	36,50	40,-	GEH ... - 4
GECL5-0.2R-15L	5.0	51	15	1.2	0.7	0.20	2.1	5.1	○	35,-	37,-	40,50	GEH ... - 5
GECL6-0.2R-15L	6.0	51	15	1.4	0.7	0.20	2.8	6.1	○	35,50	37,50	41,-	GEH ... - 6
GECL7-0.2R-20L	7.0	62	20	1.5	0.8	0.20	3.3	7.1	○	49,-	51,50	56,50	GEH ... - 7

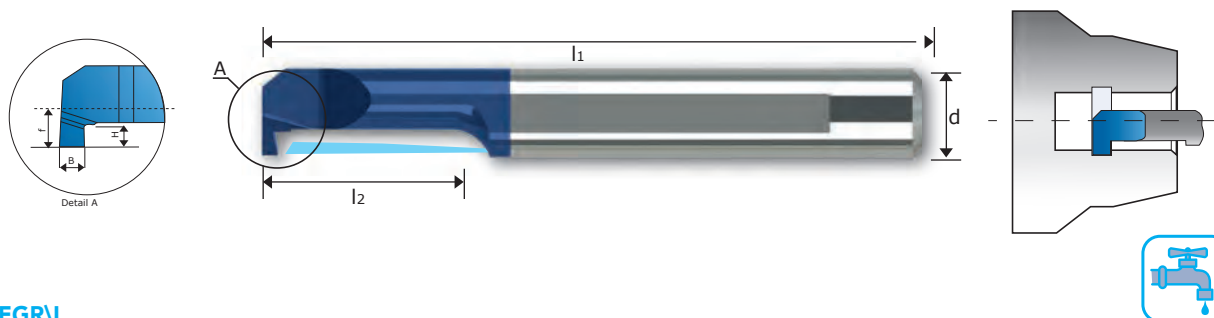
Order example: GECL6-0.2R-15L TiN



GEDR

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	H	B	R	f	D _{min}		K15	TiN	TiAlN	
GEDR4-0.2R-18L	4.0	51	18	0.8	1.5	0.5	1.8	4.1	○	37,-	39,-	43,-	GEH ... - 4
GEDR5-0.2R-24L	5.0	51	24	1.2	1.5	0.5	2.3	5.1	○	44,-	46,50	51,-	GEH ... - 5
GEDR6-0.2R-27L	6.0	58	27	1.4	1.5	0.5	2.8	6.1	○	51,-	54,-	59,-	GEH ... - 6

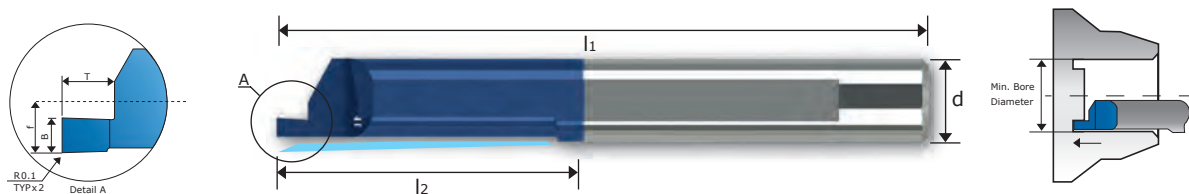
Order example: GEDR5-0.2R-24L TiN



GEGRL

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	f	H	β	D _{min}		K15	TiN	TiAlN	
GEGRL3-0.7B-10L	3.0	39	10	1.3	0.6	0.7	3.1	○	34,50	36,-	40,-	GEH ... - 3
GEGRL4-0.5B-10L	4.0	51	10	1.7	0.5	0.5	4.1	○	35,50	37,-	41,-	GEH ... - 4
GEGRL4-0.7B-10L	4.0	51	10	1.7	0.6	0.7	4.1	○	35,50	37,-	41,-	GEH ... - 4
GEGRL4-1.0B-10L	4.0	51	10	1.7	1.0	1.0	4.1	○	35,50	37,50	41,-	GEH ... - 4
GEGRL4-1.0B-15L	4.0	51	15	1.7	1.0	1.0	4.1	○	37,50	39,50	43,50	GEH ... - 4
GEGRL4-1.5B-10L	4.0	51	10	1.7	1.0	1.5	4.1	○	35,50	37,50	41,-	GEH ... - 4
GEGRL5-1.0B-15L	5.0	51	15	2.3	1.2	1.0	5.1	○	38,50	40,50	44,50	GEH ... - 5
GEGRL5-1.0B-22L	5.0	51	22	2.3	1.2	1.0	5.1	○	41,-	43,-	47,50	GEH ... - 5
GEGRL5-1.5B-15L	5.0	51	15	2.3	1.2	1.5	5.1	○	38,50	40,50	44,50	GEH ... - 5
GEGRL5-1.5B-22L	5.0	51	22	2.3	1.2	1.5	5.1	○	41,-	43,-	47,50	GEH ... - 5
GEGRL5-2.0B-15L	5.0	51	15	2.3	1.2	2.0	5.1	○	38,50	40,50	44,50	GEH ... - 5
GEGRL5-2.0B-22L	5.0	51	22	2.3	1.2	2.0	5.1	○	41,-	43,-	47,50	GEH ... - 5
GEGRL6-1.0B-15L	6.0	51	15	2.8	1.4	1.0	6.1	○	39,-	41,-	45,-	GEH ... - 6
GEGRL6-1.0B-22L	6.0	51	22	2.8	1.4	1.0	6.1	○	42,-	44,-	48,50	GEH ... - 6
GEGRL6-1.5B-15L	6.0	51	15	2.8	1.4	1.5	6.1	○	39,-	41,-	45,-	GEH ... - 6
GEGRL6-1.5B-22L	6.0	51	22	2.8	1.4	1.5	6.1	○	42,-	44,-	48,50	GEH ... - 6
GEGRL6-2.0B-15L	6.0	51	15	2.8	1.4	2.0	6.1	○	39,-	41,-	45,-	GEH ... - 6
GEGRL6-2.0B-22L	6.0	51	22	2.8	1.4	2.0	6.1	○	42,-	44,-	48,50	GEH ... - 6
GEGRL6-1.0B-17L	6.0	51	17	2.8	1.8	1.0	6.1	○	43,-	45,50	50,-	GEH ... - 6
GEGRL6-1.5B-17L	6.0	51	17	2.8	1.8	1.5	6.1	○	43,-	45,50	50,-	GEH ... - 6
GEGRL6-2.0B-17L	6.0	51	17	2.8	1.8	2.0	6.1	○	43,-	45,50	50,-	GEH ... - 6
GEGRL7-1.0B-15L	7.0	62	15	3.3	2.5	1.0	7.1	○	46,-	48,50	53,-	GEH ... - 7
GEGRL7-1.0B-22L	7.0	62	22	3.3	2.5	1.0	7.1	○	46,-	48,50	53,-	GEH ... - 7
GEGRL7-1.0B-30L	7.0	62	30	3.3	2.5	1.0	7.1	○	50,50	53,-	58,50	GEH ... - 7
GEGRL7-1.5B-15L	7.0	62	15	3.3	2.5	1.5	7.1	○	46,-	48,50	53,-	GEH ... - 7
GEGRL7-1.5B-22L	7.0	62	22	3.3	2.5	1.5	7.1	○	46,-	48,50	53,-	GEH ... - 7
GEGRL7-1.5B-30L	7.0	62	30	3.3	2.5	1.5	7.1	○	50,50	53,-	58,50	GEH ... - 7
GEGRL7-2.0B-15L	7.0	62	15	3.3	2.5	2.0	7.1	○	46,-	48,50	53,-	GEH ... - 7
GEGRL7-2.0B-22L	7.0	62	22	3.3	2.5	2.0	7.1	○	50,50	48,50	53,-	GEH ... - 7
GEGRL7-2.0B-30L	7.0	62	30	3.3	2.5	2.0	7.1	○	50,50	53,-	58,50	GEH ... - 7
GEGRL8-1.0B-22L	8.0	64	22	3.8	1.7	1.0	8.1	○	47,-	49,50	54,-	GEH ... - 8
GEGRL8-1.5B-22L	8.0	64	22	3.8	1.7	1.5	8.1	○	47,-	49,50	54,-	GEH ... - 8
GEGRL8-2.0B-22L	8.0	64	22	3.8	2.6	2.0	8.1	○	47,-	49,50	54,-	GEH ... - 8

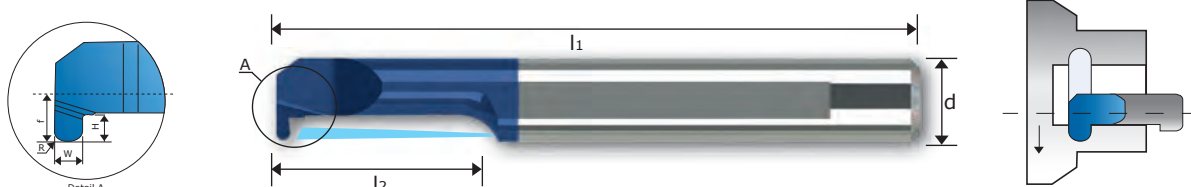
Order example: GEGR8-1.0B-22L TiN



GEFR

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	B	T	f	D min			K15	TiN	TiAlN	
GEFR\4-0.75B-15L	4.0	51	15	0.75	1.2	1.95	5.0	○	○	35,50	37,50	41,-	GEH ...-4
GEFR\4-1.0B-15L	4.0	51	15	1.0	1.5	1.95	5.0	○	○	35,50	37,50	41,-	GEH ...-4
GEFR\4-1.5B-15L	4.0	51	15	1.5	2.8	1.95	5.0	○	○	35,50	37,50	41,-	GEH ...-4
GEFR\5-0.75B-22L	5.0	51	22	0.75	1.2	2.45	6.0	○	○	41,-	43,-	47,50	GEH ...-5
GEFR\5-1.0B-22L	5.0	51	22	1.0	1.5	2.45	6.0	○	○	41,-	43,-	47,50	GEH ...-5
GEFR\5-1.5B-22L	5.0	51	22	1.5	2.5	2.45	6.0	○	○	41,-	43,-	47,50	GEH ...-5
GEFR\5-2.0B-22L	5.0	51	22	2.0	3.8	2.45	6.0	○	○	41,-	43,-	47,50	GEH ...-5
GEFR\6-1.0B-22L	6.0	51	22	1.0	1.5	2.95	8.0	○	○	42,50	44,50	49,-	GEH ...-6
GEFR\6-1.5B-22L	6.0	51	22	1.5	2.5	2.95	8.0	○	○	42,50	44,50	49,-	GEH ...-6
GEFR\6-2.0B-22L	6.0	51	22	2.0	3.0	2.95	8.0	○	○	42,50	44,50	49,-	GEH ...-6
GEFR\6-2.5B-22L	6.0	51	22	2.5	4.8	2.95	8.0	○	○	42,50	44,50	49,-	GEH ...-6
GEFR\6-3.0B-30L	6.0	58	30	3.0	6.0	2.95	8.0	○	○	44,50	49,-	51,50	GEH ...-6
GEFR\8-2.5B-22L	8.0	64	22	2.5	3.5	3.95	10.0	○	○	50,50	53,-	58,50	GEH ...-8

Order example: GEFR6-2.0B-22L TiN



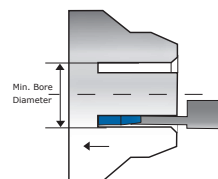
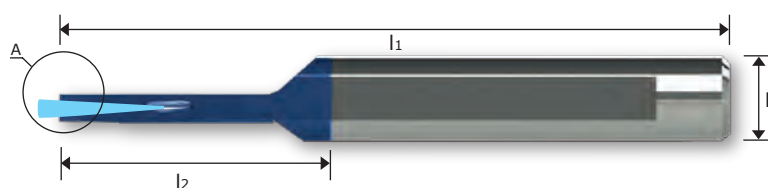
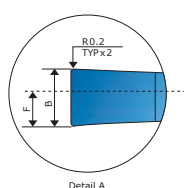
GEKR

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	W	H	R	f	D min		K15	TiN	TiAlN	
GEKR\4-0.5R-10L	4.0	51	10	1.0	1.0	0.50	1.7	4.1	○	35,50	37,50	41,-	GEH ...-4
GEKR\4-0.75R-10L	4.0	51	10	1.5	1.0	0.75	1.7	4.1	○	35,50	37,50	41,-	GEH ...-4
GEKR\5-0.5R-15L	5.0	51	15	1.0	1.2	0.50	2.3	5.1	○	38,50	40,50	44,50	GEH ...-5
GEKR\5-0.75R-15L	5.0	51	15	1.5	1.2	0.75	2.3	5.1	○	38,50	40,50	44,50	GEH ...-5
GEKR\5-1.0R-15L	5.0	51	15	2.0	1.2	1.00	2.3	5.1	○	38,50	40,50	44,50	GEH ...-5
GEKR\6-0.5R-15L	6.0	51	15	1.0	1.6	0.50	2.8	6.1	○	39,-	41,-	45,-	GEH ...-6
GEKR\6-0.75R-15L	6.0	51	15	1.5	1.6	0.75	2.8	6.1	○	39,-	41,-	45,-	GEH ...-6
GEKR\6-1.0R-15L	6.0	51	15	2.0	1.6	1.00	2.8	6.1	○	39,-	41,-	45,-	GEH ...-6
GEKR\7-0.5R-22L	7.0	62	22	1.0	2.5	0.05	3.3	7.1	○	46,-	48,-	53,-	GEH ...-7
GEKR\7-0.75R-15L	7.0	62	22	1.5	2.5	0.75	3.3	7.1	○	46,-	48,-	53,-	GEH ...-7
GEKR\7-1.0R-22L	7.0	62	22	2.5	2.5	1.00	3.3	7.1	○	46,-	53,-	53,-	GEH ...-7

Order example: GEKR7-0.5R-22L TiN

● Disponibile - Lieferbar - On stock

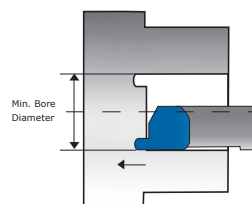
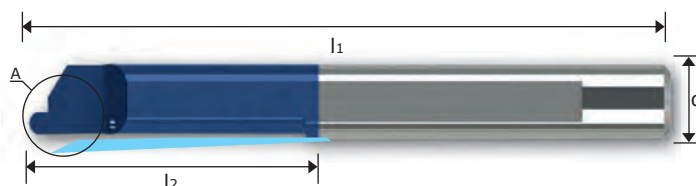
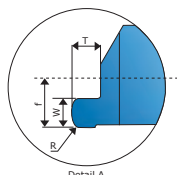
○ A richiesta - Auf Anfrage - On request



GEVR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	B	f	D min		K15	TiN	TiAlN	
GEVR/L6-2.0B-15L	6.0	64	15	2.0	1.7	12.0	○	74,-	77,50	85,50	GEH ...-6
GEVR/L6-2.0B-22L	6.0	64	22	2.0	1.7	12.0	○	79,-	83,-	91,50	GEH ...-6
GEVR/L6-2.5B-22L	6.0	64	22	2.5	2.2	12.0	○	79,-	83,-	91,50	GEH ...-6
GEVR/L8-3.0B-27L	8.0	64	27	3.0	2.5	15.0	○	100,50	105,50	116,-	GEH ...-8
GEVR/L8-3.0B-43L	8.0	80	43	3.0	1.6	15.0	○	120,50	127,-	139,50	GEH ...-8
GEVR/L8-4.0B-43L	8.0	80	43	4.0	1.6	20.0	○	120,50	127,-	139,50	GEH ...-8

Order example: GEVR6-2.0B-22L TiN



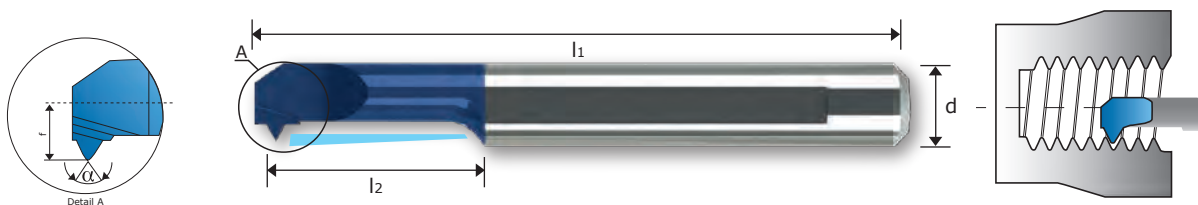
GEZR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	W	T	R	f	D min		K15	TiN	TiAlN	
GEZR/L4-0.5R-15L	4.0	51	15	1.0	1.2	0.50	1.95	5.0	○	35,50	37,50	41,-	GEH ...-4
GEZR/L4-0.75R-15L	4.0	51	15	1.5	1.5	0.75	1.95	5.0	○	35,50	37,50	41,-	GEH ...-4
GEZR/L5-0.5R-22L	5.0	51	22	1.0	1.2	0.50	2.45	6.0	○	41,-	43,-	47,50	GEH ...-5
GEZR/L5-0.75R-22L	5.0	51	22	1.5	1.5	0.75	2.45	6.0	○	41,-	43,-	47,50	GEH ...-5
GEZR/L5-1.0R-22L	5.0	51	22	2.0	2.5	1.00	2.45	6.0	○	41,-	43,-	47,50	GEH ...-5
GEZR/L6-0.5R-22L	6.0	51	22	1.0	1.2	0.50	2.95	8.0	○	42,50	44,50	49,-	GEH ...-6
GEZR/L6-0.75R-22L	6.0	51	22	1.5	1.5	0.75	2.95	8.0	○	42,50	44,50	49,-	GEH ...-6
GEZR/L6-1.0R-22L	6.0	51	22	2.0	2.5	1.00	2.95	8.0	○	42,50	44,50	49,-	GEH ...-6

Order example: GEFR6-2.0B-22L TiN

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



GEIR\L - PARTIAL PROFILE 55°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Pitch Range		STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	α	f	D _{min}	mm	TPI		K15	TiN	TiAlN	
GEIR\L3-A55-15L	3.0	39	15	55	1.4	3.2	0.5 - 1.0	48 - 24	○	40,-	42,-	46,-	GEH ... - 3
GEIR\L4-A55-15L	4.0	51	15	55	1.8	4.1	0.5 - 1.0	48 - 24	○	39,-	41,-	45,-	GEH ... - 4
GEIR\L5-A55-15L	5.0	51	15	55	2.3	5.1	0.5 - 1.25	48 - 20	○	40,-	42,-	45,-	GEH ... - 5
GEIR\L5-A55-22L	5.0	51	22	55	2.3	5.1	0.5 - 1.25	48 - 20	○	42,-	44,-	48,50	GEH ... - 5
GEIR\L6-A55-15L	6.0	51	15	55	2.6	6.0	0.5 - 1.5	48 - 16	○	42,50	42,50	46,50	GEH ... - 6
GEIR\L6-A55-22L	6.0	51	22	55	2.6	6.0	0.5 - 1.5	48 - 16	○	44,50	44,50	49,-	GEH ... - 6

Order example: GEIR6-A55-15L TiN

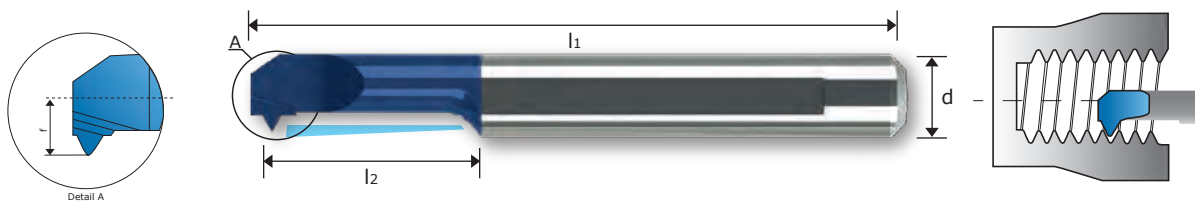


GEIR\L - PARTIAL PROFILE 60°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Pitch Range		STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l1	l2	α	f	D _{min}	mm	TPI		K15	TiN	TiAlN	
GEIR\L1-A60-5L	3.0	39	4.8	60	0.55	1.2	0.5 - 1.0	48 - 24	○	46,-	48,-	53,-	GEH ... - 3
GEIR\L1.5-A60-6L	3.0	39	6.3	60	0.65	1.4	0.5 - 1.0	48 - 24	○	46,-	53,-	53,-	GEH ... - 4
GEIR\L2-A60-8L *	3.0	39	8	60	1.0	2.1	0.5 - 1.25	48 - 20	○	40,-	42,-	46,-	GEH ... - 5
GEIR\L3-A60-15L	3.0	39	15	60	1.4	3.2	0.5 - 1.25	48 - 20	○	40,-	42,-	46,-	GEH ... - 5
GEIR\L4-A60-15L	4.0	51	15	60	1.8	4.1	0.5 - 1.5	48 - 16	○	39,-	41,-	45,-	GEH ... - 6
GEIR\L5-A60-15L	5.0	51	15	60	2.3	5.1	0.5 - 1.0	48 - 24	○	42,-	42,-	46,-	GEH ... - 4
GEIR\L5-A60-22L	5.0	51	22	60	2.3	5.1	0.5 - 1.25	48 - 20	○	42,-	44,-	48,50	GEH ... - 5
GEIR\L6-A60-15L	6.0	51	15	60	2.6	6.0	0.5 - 1.25	48 - 20	○	42,50	42,50	46,50	GEH ... - 5
GEIR\L6-A60-22L	6.0	51	22	60	2.6	6.0	0.5 - 1.5	48 - 16	○	42,-	44,50	49,-	GEH ... - 6
GEIR\L8-A60-22L	8.0	64	22	60	3.6	8.0	0.5 - 1.5	48 - 16	○	48,-	50,50	55,50	GEH ... - 6

* Without coolant channel

Order example: GEIR6-A60-22L TiN



GEIR\L - FULL PROFILE - ISO 60°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	f	D _{min}	Thread		K15	TiN	TiALN	
GEIR\L3-0.5ISO-10L	3.0	39	10	1.0	2.4	M3 x 0.5	○	41,50	44,-	48,50	GEH ... - 3
GEIR\L3-0.5ISO-15L	3.0	39	15	1.4	3.2	M4 x 0.5	○	40,-	42,-	48,50	GEH ... - 3
GEIR\L3-0.7ISO-15L	3.0	39	15	1.4	3.2	M4 x 0.7	○	40,-	42,-	46,-	GEH ... - 3
GEIR\L3-0.75ISO-15L	3.0	39	15	1.4	3.2	M4.5 x 0.75	○	40,-	42,-	46,-	GEH ... - 3
GEIR\L4-0.5ISO-15L	4.0	51	15	1.8	4.1	M5 x 0.5	○	39,-	41,-	45,-	GEH ... - 4
GEIR\L4-0.75ISO-15L	4.0	51	15	1.8	4.1	M5 x 0.75	○	39,-	41,-	45,-	GEH ... - 4
GEIR\L4-0.8ISO-15L	4.0	51	15	1.8	4.1	M5 x 0.8	○	39,-	41,-	45,-	GEH ... - 4
GEIR\L5-1.0ISO-15L	5.0	51	15	2.2	4.9	M6 x 1.0	○	40,-	42,-	46,-	GEH ... - 5
GEIR\L6-1.25ISO-22L	6.0	51	22	2.8	6.1	M8 x 1.25	○	42,-	44,50	49,-	GEH ... - 6

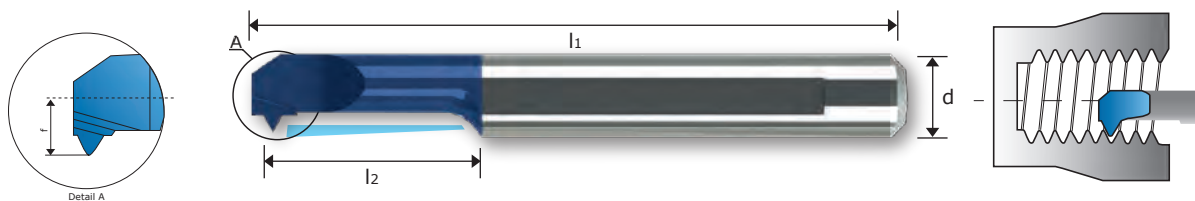
Order example: GEIR5-1.0ISO-15L TiN



GEIR\L - FULL PROFILE - UN 60°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	f	D _{min}	Thread		K15	TiN	TiALN	
GEIR\L3-32UN-L10	3.0	39	10	1.0	2.7	6 - 32 UNC	○	41,50	44,-	48,50	GEH ... - 3
GEIR\L3-36UN-15L	3.0	39	15	1.4	3.2	8 - 36 UNF	○	40,-	42,-	46,-	GEH ... - 3
GEIR\L3-32UN-15L	3.0	39	15	1.4	3.2	8 - 32 UNC	○	40,-	42,-	46,-	GEH ... - 3
GEIR\L4-36UN-15L	4.0	51	15	1.8	4.1	12 - 36 UNS	○	39,-	41,-	45,-	GEH ... - 4
GEIR\L4-32UN-15L	4.0	51	15	1.8	4.1	12 - 32 UNEF	○	39,-	41,-	45,-	GEH ... - 4
GEIR\L5-28UN-15L	5.0	51	15	2.2	4.9	1/4-28 UNF	○	40,-	42,-	46,-	GEH ... - 5
GEIR\L5-20UN-18L	5.0	51	18	2.3	5.0	1/4-20 UNC	○	40,-	42,-	46,-	GEH ... - 5
GEIR\L6-24UN-18L	6.0	51	18	2.8	6.5	5/16-24 UNF	○	42,-	44,50	49,-	GEH ... - 6
GEIR\L6-18UN-18L	6.0	51	18	2.8	6.2	5/16-18 UNC	○	42,-	44,50	49,-	GEH ... - 6

Order example: GEIR5-20UN-18L TiN



GEIR\L - FULL PROFILE - NPT 60°

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Thread Size	STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	f	D _{min}	Pitch TPI			K15	TiN	TiALN	
GEIR\L6-27NPT-15L	6.0	51	15	2.6	5.9	27	1/16x27NPT 1/8x27NPT	○	40,-	42,50	46,50	GEH ... - 6

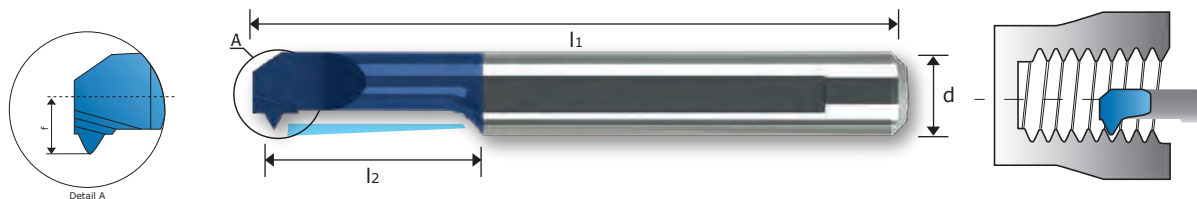
Order example: GEIR6-27NPT-15L TiN



GEIR\L - ACME

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Pitch TPI	Thread Size	STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	α	f	D _{min}				K15	TiN	TiALN	
GEIR\L4-16ACME-15L	4.0	51	15	29	1.8	4.6	16	1/4 x 16	○	43,-	45,-	49,50	GEH ... - 4
GEIR\L6-14ACME-20L	6.0	51	20	29	2.8	6.0	14	5/16 x 14	○	46,50	48,50	53,50	GEH ... - 6
GEIR\L7-12ACME-22L	7.0	62	22	29	3.3	7.2	12	3/8 x 12	○	53,50	62,-	62,-	GEH ... - 7
GEIR\L8-10ACME-30L	8.0	76	30	29	3.8	10.0	10	1/2 x 10	○	67,50	71,-	74,-	GEH ... - 8
GEIR\L10-8ACME-35L	10.0	73	35	29	4.8	12.5	8	5/8 x 8	○	71,50	75,50	83,-	GEH ... - 10
GEIR\L10-6ACME-45L	10.0	105	45	29	4.8	14.6	6	3/4 x 6 - 7/8 x 6	○	79,-	83,-	95,50	GEH ... - 10
GEIR\L10-5ACME-52L	10.0	105	52	29	4.8	20.0	5	1 x 5	○	86,50	105,-	100,-	GEH ... - 10

Order example: GEIR10-8ACME-35L TiN



GEIR\L - Partial Profile Trapez - DIN 103

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €			HOLDER EXAMPLE
	d	l ₁	l ₂	a	f	D _{min}	Pitch in mm	Thread Size		K15	TiN	TiALN	
GEIR\L6-1.5TR-22L	6.0	51	22	30	2.8	6.4	1.5	Tr 8 x 1.5 Tr 9 x 1.5 Tr 10 x 1.5	○	46,50	48,50	53,50	GEH ... - 6
GEIR\L7-2TR-25L	7.0	62	25	30	3.2	6.9	2	Tr 9 x 2 Tr 10 x 2 Tr 11 x 2 Tr 12 x 2	○	59,-	68,50	68,50	GEH ... - 7
GEIR\L10-2TR-35L	10.0	73	35	30	4.8	11.0	2	Tr 14 x 2 Tr 16 x 2 Tr 18 x 2 Tr 20 x 2	○	69,-	72,50	79,50	GEH ... - 10
GEIR\L7-3TR-35L	7.0	62	35	30	3.3	7.5	3	Tr 11 x 3 Tr 12 x 3	○	65,-	68,50	75,-	GEH ... - 7
GEIR\L10-3TR-35L	10.0	73	35	30	4.8	10.5	3	Tr 14 x 3 Tr 22 x 3 Tr 24 x 3 Tr 26 x 3 Tr 28 x 3	○	69,-	72,50	79,50	GEH ... - 10
GEIR\L10-4TR-45L	10.0	105	45	30	4.8	11.5	4	Tr 16 x 4 Tr 18 x 4 Tr 20 x 4	○	75,50	79,50	87,50	GEH ... - 10
GEIR\L10-5TR-55L	10.0	105	55	30	4.8	11.0	5	Tr 22 x 5 Tr 24 x 5 Tr 28 x 5	○	99,-	104,-	114,50	GEH ... - 10

Order example: GEIR10-3TR-35L TiN

Carbide Grades:



TiN (P30 - P50, K25 - K40)

PVD TiN coated grade for low cutting speed.
Works well with a wide range of stainless steels.



TiAlN (K10 - K20)

Sub-micron grade with advanced PVD triple coating. Extremely high heat resistant and smooth cutting operation, for high performance, and normal machining conditions. General purpose for all materials.



Uncoated K15 (K10 - K30)

Uncoated Carbide grade for non ferrous metals, aluminum and cast iron.

Threading Passes

PITCH: in mm in TPI	0.5	0.7	0.8	1.0	1.25	1.5	2-5
	48	36	32	24	20	16	
Number of Passes	6-12	7-14	7-16	8-18	8-20	10-22	20-38

Cutting Speed for Micro Tools

Recommended Feed Rate: 0.01-0.03 mm/rev

ISO	Material		Condition	Cutting Speed m/min		
				TIN	TiAlN	Uncoated
P	Non-Alloy Steel and Cast Steel, Free Cutting Steel	< 0.25%C	Annealed	25 - 50	30 - 80	15 - 30
		≥ 0.25%C	Annealed			
		< 0.55%C	Quenched & Tempered			
		≥0.55%C	Annealed			
			Quenched & Tempered			
	Low Alloy Steel and Cast Steel (less than 5% alloying elements)		Annealed	20 - 25	25 - 50	10 - 20
			Quenched & Tempered			
	High Alloy Steel, Cast Steel and Tool Steel		Annealed	18 - 20	25 - 50	10 - 20
		Quenched & Tempered				
M	Stainless Steel and Cast Steel		Ferritic /Martensitic	25 - 30	30 - 60	15 - 25
			Martensitic			
			Austenitic			
K	Cast Iron Nodular (GGG)		Ferritic / Pearlitic	17 - 23	30 - 80	15 - 30
			Pearlitic			
	Grey Cast Iron (GG)		Ferritic	17 - 23	30 - 80	20 - 40
			Pearlitic			
	Malleable Cast Iron		Ferritic	17 - 23	20 - 50	10 - 20
Pearlitic						
N	Aluminium-Wrought Alloy		Not Cureable	50 - 70	60 - 120	30 - 50
			Cured			
	Aluminum-Cast, Alloyed	<= 12% Si	Not Cureable	30 - 40	50 - 90	20 - 40
			Cured			
		> 12% Si	High Temperature			
	Copper Alloys	> 1% Pb	Free Cutting	22 - 25	30 - 70	20 - 40
			Brass			
			Electrolytic Copper			
Non Metallic		Duroplastics, Fiber Plastics	35 - 45		20 - 40	
		Hard Rubber				
S	High Temp. Alloys, Super Alloys	Fe based	Annealed	15 - 20	15 - 40	10 - 20
			Cured			
		Ni or Co based	Annealed			
			Cured			
			Cast			
	Titanium Alloys		Alpha + Beta Alloys Cured	12 - 18	10 - 30	5 - 15
H	Hardened Steel		Hardened 45-50 HRC	15 - 20	15 - 40	5 - 15
			Hardened 51-55 HRC			
			Hardened 56-62 HRC			
	Chilled Cast Iron		Cast	10 - 14	10 - 30	5 - 15
	Cast Iron		Hardened	8 - 12	10 - 20	15 - 15

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

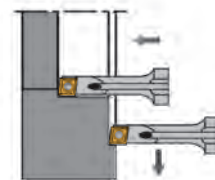
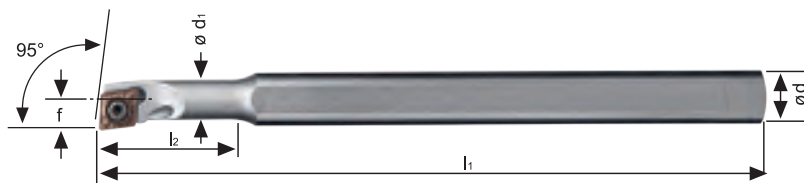
— **MINITOOLS** —

MINITOOLS



H I G H Q U A L I T Y T O O L S





A-SCLCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
STEEL		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	A 0608H SCLCR/L 06	8	6	100	21,5	4,2	8	CCMT CCGT 0602...	VT25B	BT08	0,050	●	80,50
	A 0810J SCLCR/L 06	10	8	110	27	6	11				0,070	●	80,50
	A 1012K SCLCR/L 06	12	10	125	32,5	7	13				0,100	●	90,50
	A 1216M SCLCR/L 06	16	12	150	42	9	16				0,200	●	90,50

AH-SCLCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
HSS		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	AH 0608H SCLCR/L 06	8	6	100	25	4	8,5	CCMT CCGT 0602...	VT25B	BT08	0,050	●	103,50
	AH 0810J SCLCR/L 06	10	8	110	32	6	12				0,070	●	111,-
	AH 1012K SCLCR/L 06	12	10	125	38	7	14				0,100	●	117,-
	AH 1216M SCLCR/L 06	16	12	150	50	9	18				0,200	●	143,50

A-SCLDR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
STEEL		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	A 0408H SCLDR/L 04	8	4	100	16	2,4	4,8	CDGT0401...	VT18B	BT06	0,030	●	67,-
	A 0508H SCLDR/L 04	8	5	100	20	2,9	5,8				0,040	●	69,50
	A 0608H SCLDR/L 04	8	6	100	24	3,4	6,8				0,050	●	70,50

E-SCLDR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
CARBIDE		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	E 0408H SCLDR/L 04	8	4	100	24	2,4	4,8	CDGT0401...	VT18B	BT06	0,040	●	186,-
	E 0508H SCLDR/L 04	8	5	100	30	2,9	5,8				0,040	●	186,-
	E 0608H SCLDR/L 04	8	6	100	36	3,4	6,8				0,050	●	186,-

A-SCUPR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
STEEL		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	A 0608H SCUPR/L 05	8	6	100	20	4,5	8	CPMT CPGT 05T1...	VT22B	BT06	0,050	●	67,-
	A 0810J SCUPR/L 05	10	8	110	26	6	11				0,070	●	69,50
	A 1012K SCUPR/L 05	12	10	125	32	7	13				0,100	●	71,50
	A 1216M SCUPR/L 05	16	12	150	40	9	16				0,200	●	83,50

E-SCUPR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
CARBIDE		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	E 0608H SCUPR/L 05	8	6	100	28	4,5	8	CPMT CPGT 05T1...	VT22B	BT06	0,050	●	186,-
	E 0810J SCUPR/L 05	10	8	110	36	6	11				0,090	●	202,50
	E 1012K SCUPR/L 05	12	10	125	44	7	13				0,170	●	261,50
	E 1216M SCUPR/L 05	16	12	150	55	9	16				0,300	●	420,50

A-SCXPR/L

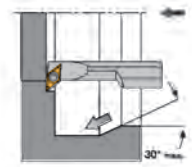
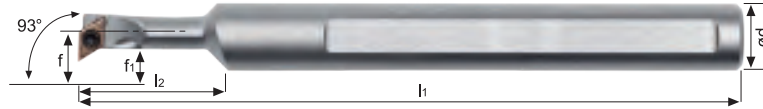
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STEEL		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	A 0608H SCXPR/L 05	8	6	100	20	4,5	8,5	CPMT CPGT 05T1...	VT22B	BT06	0,050	●	67,-
	A 0810J SCXPR/L 05	10	8	110	26	6	11				0,070	●	69,50
	A 1012K SCXPR/L 05	12	10	125	32	7	13				0,100	●	71,50
	A 1216M SCXPR/L 05	16	12	150	40	9	16				0,200	●	83,50

E-SCXPR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
CARBIDE		d	d ₁	l ₁	l ₂	f	D _{min}				kg		
	E 0608H SCXPR/L 05	8	6	100	28	4,5	8,5	CPMT CPGT 05T1...	VT22B	BT06	0,050	●	186,-
	E 0810J SCXPR/L 05	10	8	110	36	6	11				0,090	●	202,50
	E 1012K SCXPR/L 05	12	10	125	44	7	13				0,170	●	261,50
	E 1216M SCXPR/L 05	16	12	150	55	9	16				0,300	●	420,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-SDUCR/L

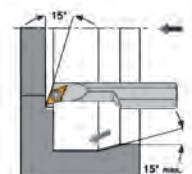
STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l1	l2	f	f1	D _{min}						
	A 0408F SDUCR/L 04	8	80	15	3	1,5	5,6	DCGT 04T0...	VT1604	BT05	0,030	●	90,50
	A 0810H SDUCR/L 07	10	100	22,5	6,5	4,4	12,5	DCMT DCGT 0702...	VT25B	BT08	0,070	●	80,50
	A 1012K SDUCR/L 07	12	125	27,5	9	5,9	15,5				0,100	●	86,50
	A 1216M SDUCR/L 07	16	150	40,5	11	4,9	18				0,200	●	91,-

AH-SDUCR/L

HSS	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l1	l2	f	f1	D _{min}						
	AH 0810H SDUCR/L 07	10	100	22	7	5	12,5	DCMT DCGT 0702...	VT25B	BT08	0,070	●	118,50
	AH 1012K SDUCR/L 07	12	125	28	9	5	15,5				0,100	●	131,50
	AH 1216M SDUCR/L 07	16	150	36	11	5	19,5				0,200	●	149,-

E-SDUCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l1	l2	f	f1	D _{min}						
	E 0408F SDUCR/L 04	8	80	26	3	1,5	5,6	DCGT 04T0...	VT1604	BT05	0,042	●	202,-

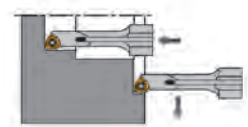
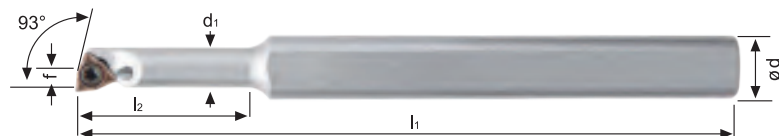


A-SDQCR/L

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l1	l2	f	f1	D _{min}						
	A 0408F SDQCR/L 04	8	80	15	2,6	1,1	5,2	DCGT 04T0...	VT1604	BT05	0,030	●	90,50
	A 0810H SDQCR/L 07	10	100	22,4	6,4	3	12,5	DCMT DCGT 0702...	VT25B	BT08	0,070	●	80,50
	A 1012K SDQCR/L 07	12	125	27,5	9	4	15,5				0,100	●	86,50
	A 1216M SDQCR/L 07	16	150	39,5	11	5	19,5				0,200	●	91,-

E-SDQCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l1	l2	f	f1	D _{min}						
	E 0408F SDQCR/L 04	8	80	26	2,6	1,1	5,2	DCGT 04T0...	VT1604	BT05	0,042	●	202,-



A-SWUCR/L

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	d1	l1	l2	f	D _{min}						
	A 0508H SWUCR/L 02	8	5	100	18	2,9	5,8	WCMT WCGT 0201...	VT20B	BT06	0,040	●	77,50
	A 0608H SWUCR/L 02	8	6	100	24	3,9	7,8				0,050	●	77,50

AH-SWUCR/L

HSS	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	d1	l1	l2	f	D _{min}						
	AH 0508H SWUCR/L 02	8	5	100	18	2,9	5,8	WCMT WCGT 0201...	VT20B	BT06	0,040	●	113,50
	AH 0608H SWUCR/L 02	8	6	100	24	3,9	7,8				0,050	●	113,50

E-SWUCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	d1	l1	l2	f	D _{min}						
	E 0508H SWUCR/L 02	8	5	100	24	2,9	5,8	WCMT WCGT 0201...	VT20B	BT06	0,040	●	223,-
	E 0608H SWUCR/L 02	8	6	100	32	3,9	7,8				0,050	●	223,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-SCLDR/L

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
	A 04E SCLDR/L 04	4	70	-	2,4	4,8					0,030 ●	71,50
	A 05E SCLDR/L 04	5	70	-	2,9	5,8	CDGT 0401...	VT18B	BT06		0,040 ●	71,50
	A 06F SCLDR/L 04	6	80	-	3,4	6,8					0,050 ●	74,-

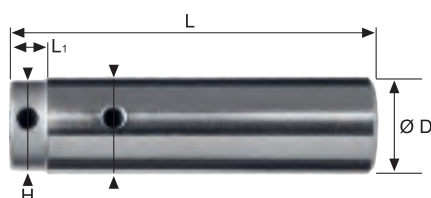
E-SCLDR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
	E 04F SCLDR/L 04	4	80	-	2,4	4,8	CDGT 0401...	VT18B	BT06	0,030	●	144,-
	E 05F SCLDR/L 04	5	80	-	2,9	5,8				0,040	●	144,-
E 06G SCLDR/L 04	6	95	-	3,4	6,8				0,050	●	144,-	



E-SWUCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
	E 05F SWUCR/L 02	5	85	-	2,9	5,8	WCMT WCGT 0201...	VT20B	BT06	0,040	●	144,-
	E 06G SWUCR/L 02	6	95	-	3,9	7,8				0,050	●	144,-

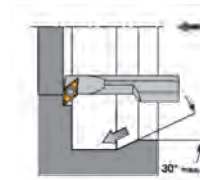
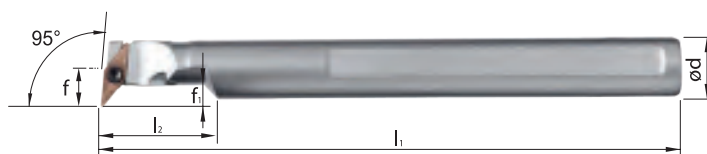


MINI COLLET

CODICE ORDINE Bestell-Nr. Order No.	Ød	DIMENSIONI Abmessungen Dimensions (mm.)					STOCK	PRICELIST €
		ØD	L	L1	H			
SC 04-16	4						0,010 ●	112,50
SC 05-16	5	16	80	6	15		0,010 ●	112,50
SC 06-16	6						0,010 ●	112,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

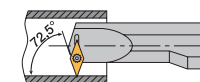
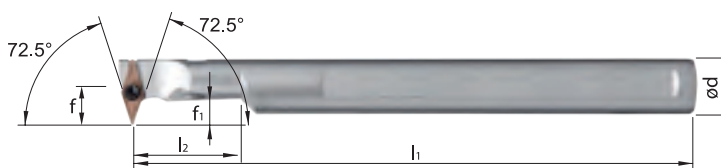


A-SVLCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
STEEL	A 08F SVLCR/L 05	8	80	15	5	3	9,2	VCMT VCGT 0702...	VT1604	BT05	0,040	●	67,-
	A 10H SVLCR/L 07	10	100	22	7	5	12,5				0,080	●	69,50
	A 12K SVLCR/L 07	12	125	28	9	6	15,5				0,120	●	71,50
	A 16M SVLCR/L 07	16	150	36	11	5	19,5				0,250	●	83,50

E-SVLCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
CARBIDE	E 08F SVLCR/L 05	8	80	26	5	3	9,2	VCMT VCGT 0702...	VT1604	BT05	0,070	●	193,-
	E 10H SVLCR/L 07	10	100	32	7	5	12,5				0,170	●	196,50
	E 12K SVLCR/L 07	12	125	40	9	6	15,5				0,300	●	261,50
	E 16M SVLCR/L 07	16	150	55	11	5	19,5				0,500	●	434,50



A-SVVCRL

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
STEEL	A 08F SVVCRL/L 05	8	80	15	5,5	3,5	10,2	VCMT VCGT 0702...	VT1604	BT05	0,040	●	67,-
	A 10H SVVCRL/L 07	10	100	22	8	6	13,5				0,080	●	69,50
	A 12K SVVCRL/L 07	12	125	28	9	6	15,5				0,120	●	71,50
	A 16M SVVCRL/L 07	16	150	36	11	6	19,5				0,250	●	83,50
	A 16M SVVCRL/L 11	16	150	40	13,9	9,5	23	VCMT VCGT 1103...	VT25B	BT08	0,250	●	139,-
	A 20Q SVVCRL/L 11	20	180	50	13,9	9,5	25				0,400	●	145,-
NEW	A 25R SVVCRL/L 16	25	200	62,5	19,9	13	34	VCMT VCGT 1604...	VT40B	BT15	0,690	●	159,-

E-SVVCRL

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
CARBIDE	E 08F SVVCRL/L 05	8	80	26	5,5	3,5	10,2	VCMT VCGT 0702...	VT1604	BT05	0,070	●	193,-
	E 10H SVVCRL/L 07	10	100	32	8	6	13,5				0,170	●	196,50
	E 12K SVVCRL/L 07	12	125	40	9	6	15,5				0,300	●	261,50
	E 16M SVVCRL/L 07	16	150	55	11	6	19,5				0,500	●	434,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-SV95CR/L

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	A 08F SV95CR/L 05	8	80	15	5	3	9,2	VCMT VCGT 0702...	VT1604	BT05	0,040	●	116,-
	A 10H SV95CR/L 07	10	100	22	7	5	12,5				0,080	●	116,-
	A 12K SV95CR/L 07	12	125	28	9	6	15,5				0,120	●	116,-
	A 16M SV95CR/L 07	16	150	36	11	5	19,5				0,250	●	117,-

E-SV95CR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E 08F SV95CR/L 05	8	80	26	5	3	9,2	VCMT VCGT 0702...	VT1604	BT05	0,070	●	201,-
	E 10H SV95CR/L 07	10	100	32	7	5	12,5				0,170	●	206,50
	E 12K SV95CR/L 07	12	125	40	9	6	15,5				0,300	●	264,-
	E 16M SV95CR/L 07	16	150	55	11	8	19,5				0,500	●	494,-

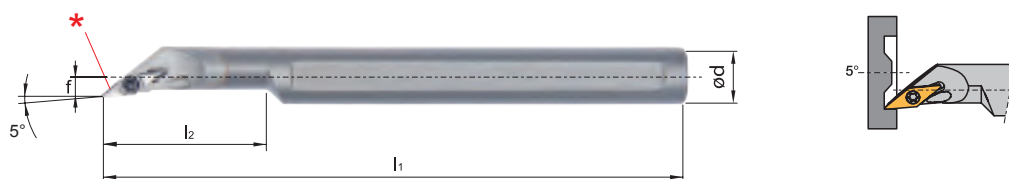


A-SVXCR/L

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	A 08F SVXCR/L 05	8	80	15	5	3	9,2	VCMT VCGT 0702...	VT1604	BT05	0,040	●	67,-
	A 10H SVXCR/L 07	10	100	22	7	3	12,5				0,080	●	69,50
	A 12K SVXCR/L 07	12	125	28	9	3	15,5				0,120	●	71,50
	A 16M SVXCR/L 07	16	150	36	11	3	19,5				0,250	●	83,50

E-SVXCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	l ₂	f	f ₁	D _{min}						
	E 08F SVXCR/L 05	8	80	26	5	3	9,2	VCMT VCGT 0702...	VT1604	BT05	0,070	●	193,-
	E 10H SVXCR/L 07	10	100	32	7	3	12,5				0,170	●	196,50
	E 12K SVXCR/L 07	12	125	40	9	3	15,5				0,300	●	261,50
	E 16M SVXCR/L 07	16	150	55	11	3	19,5				0,500	●	434,50



NEW A-SVOCR/L

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
	A 08F SVOCR/L 05	8	80	15	3	8,0	VCGT 0501...	VT1604	BT05	0,040	●	116,-
	A 10H SVOCR/L 07	10	100	-	5,5	11	VCMT VCGT 0702...	VT20	BT06	0,080	●	116,-

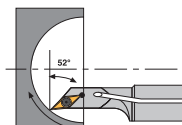
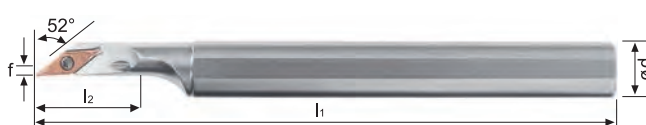
NEW E-SVOCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
	E 08F SVOCR/L 05	8	80	15	3	8,0	VCGT 0501...	VT1604	BT05	0,050	●	201,-
	E 10H SVOCR/L 07	10	100	-	5,5	11	VCMT VCGT 0702...	VT20	BT06	0,100	●	206,50

* Attenzione: non usare il tagliente secondario per la lavorazione!
Achtung: Sekundärschneide nicht für Bearbeitung geeignet!
Caution: Do not use secondary cutting edge for machining!

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

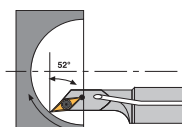
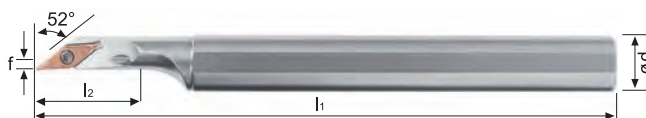


NEW A-SVJBR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
STEEL	A 16M SVJBR/L 11	16	150	31,4	2	22	VBMT 1103...	VT25B	BT08	0,250	●	117,-
	A 20Q SVJBR/L 11	20	180	38	2	24				0,500	●	118,-
	A 25R SVJBR/L 16	25	200	44	4,6	28	VBMT 1604...	VT40B	BT15	0,700	●	138,50

NEW E-SVJBR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
CARBIDE	E16R SVJBR/L 11	16	200	31,4	2	22	VBMT 1103...	VT25B	BT08	0,500	○	494,-
	E20S SVJBR/L 11	20	250	38	2	24				1,000	○	827,-
	E25S SVJBR/L 16	25	250	44	4,6	28	VBMT 1604...	VT40B	BT15	1,800	○	1344,50



A-SVJCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
STEEL	A 08F SVJCR/L 05	8	80	15	3	8	VCGT 0501...	VT1604	BT05	0,040	●	116,-
	A 10K SVJCR/L 07	10	125	18	1,5	13	VCMT VCGT 0702...	VT20	BT06	0,080	●	116,-
	A 12L SVJCR/L 07	12	140	18	2	13				0,120	●	116,-
	A 16M SVJCR/L 11	16	150	31,4	2	22	VCMT VCGT 1103...	VT25B	BT08	0,250	●	117,-
	A 20Q SVJCR/L 11	20	180	38	2	24				0,500	●	118,-
	A 25R SVJCR/L 16	25	200	44	4,6	28	VCMT VCGT 1604...	VT40B	BT15	0,700	●	138,50

AH-SVJCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
HSS	AH 16M SVJCR/L 11	16	150	30	4,6	22	VCMT VCGT 1103...	VT25B	BT08	0,250	●	209,50
	AH 20Q SVJCR/L 11	20	180	38	4,6	25				0,500	●	230,50
	AH 25R SVJCR/L 16	25	200	44	4,6	28	VCMT VCGT 1604...	VT40B	BT15	0,700	●	320,-

E-SVJCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}						
CARBIDE	E08F SVJCR/L 05	8	80	26	3	8	VCGT 0501...	VT1604	BT05	0,090	●	201,-
	E10K SVJCR/L 07	10	125	18	1,5	13	VCMT VCGT 0702...	VT20	BT06	0,170	●	206,50
	E12M SVJCR/L 07	12	150	18	2	13				0,300	●	264,-
	E16R SVJCR/L 11	16	200	31,4	2	22	VCMT VCGT 1103...	VT25B	BT08	0,500	●	494,-
	E20S SVJCR/L 11	20	250	38	2	24				1,000	●	827,-
	E25S SVJCR/L 16	25	250	44	4,6	28	VCMT VCGT 1604...	VT40B	BT15	1,800	●	1344,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-SCLCR/L

STEEL	CODICE ORDINE Bestell.-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}									
	A 08H SCLCR/L 06	8	100	17,8	6	10	CCMT CCGT 0602...						0,040 ●	80,50
	A 10K SCLCR/L 06	10	125	17,7	7	12				VT25B	BT08	0,080 ●	80,50	
	A 12L SCLCR/L 06	12	140	24,2	9	16						0,140 ●	80,50	
	A 16Q SCLCR/L 09	16	180	26,7	11	20	CCMT CCGT 09T3...						0,250 ●	93,-
	A 20R SCLCR/L 09	20	200	36,7	13	25				VT40B	BT15	0,500 ●	104,-	
	A 25R SCLCR/L 12	25	200	40	17	32					VT50	BT20	0,700 ●	138,50
	A 32S SCLCR/L 12	32	250	30	22	40	CCMT CCGT 1204...	US1221	GBS1221	SS1221	BT15		1,400 ●	223,50
	A 40T SCLCR/L 12	40	300	31	27	49							2,700 ●	277,50

AH-SCLCR/L

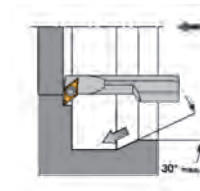
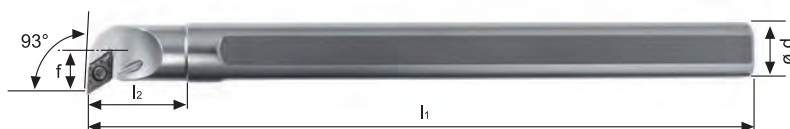
HSS	CODICE ORDINE Bestell.-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}									
	AH 0410H SCLCR/L 03	10	100	24	2,5	5	CCGT 0301...		VT16	BT06	0,030	●	166,-	
	AH 0610H SCLCR/L 03	10	100	24	2,5	7					0,040	●	168,-	
	AH 08K SCLCR/L 06	8	125	20	5	10	CCMT CCGT 0602...		VT25B	BT08	0,040	●	123,-	
	AH 10K SCLCR/L 06	10	125	20	6	12					0,080	●	124,-	
	AH 12M SCLCR/L 06	12	150	20	7	14					0,120	●	143,50	
	AH 16Q SCLCR/L 09	16	180	27	9	18	CCMT CCGT 09T3...		VT40B	BT15	0,250	●	209,50	
	AH 20R SCLCR/L 09	20	200	27	11	23					0,500	●	230,50	
	AH 25R SCLCR/L 12	25	200	40	15,5	28					CCMT CCGT 1204...		VT50	BT20

E-SCLCR/L

CARBIDE	CODICE ORDINE Bestell.-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}									
	E 04G SCLCR/L 03	4	90	10	2,5	5				VT16		0,030 ●	217,-	
	E 05H SCLCR/L 03	5	100	10	3	6	CCGT 0301...			BFTX 01604N	BT06	0,040 ●	217,-	
	E 06J SCLCR/L 03	6	110	10	3,5	7						0,050 ●	223,-	
	E 08K SCLCR/L 06	8	125	10	5	10						0,090 ●	190,-	
	E 10K SCLCR/L 06	10	125	10	6	12	CCMT CCGT 0602...			VT25B	BT08	0,170 ●	193,-	
	E 12M SCLCR/L 06	12	150	10	8	14						0,300 ●	210,50	
	E 16R SCLCR/L 09	16	200	16	10	18	CCMT CCGT 09T3...			VT40B	BT15	0,500 ●	368,-	
	E 20S SCLCR/L 09	20	250	16	12	23						1,000 ●	798,50	
	E 25S SCLCR/L 12	25	250	16	15	30	CCMT CCGT 1204...			VT50	BT20	1,800 ●	1210,-	
	E 32U SCLCR/L 12	32	350	26	22	39		US1221	GBS1221	SS1221	BT15	3,700 ○	2080,-	

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-SDUCR/L

STEEL	CODICE ORDINE Bestell-/Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}								
	A 10K SDUCR/L 07	10	125	15	7	13,5						0,080 ●	80,50
	A 12L SDUCR/L 07	12	140	20	9	16	DCMT DCGT 0702...			VT25B	BT08	0,120 ●	80,50
	A 16Q SDUCR/L 07	16	180	27	11	20						0,250 ●	93,-
	A 20R SDUCR/L 11	20	200	33,8	13	25						0,500 ●	104,-
	A 25R SDUCR/L 11	25	200	35,8	17	32	DCMT DCGT 11T3...			VT40B	BT15	0,700 ●	138,50
	A 32S SDUCR/L 11	32	250	18,5	22	40						1,400 ●	223,50
	A 40T SDUCR/L 11	40	300	18,5	27	49	DCMT DCGT 11T3...	US2311	GBS1111	SS1111	BT15	2,700 ●	277,50

AH-SDUCR/L

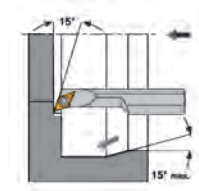
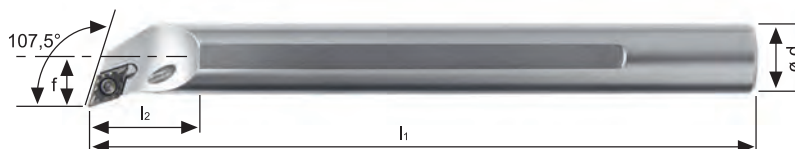
HSS DRUCKE													
HSS	CODICE ORDINE Bestell-/Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}								
	AH 08K SDUCR/L 07	8	125	20	7,5	13,5						0,040 ● 123,-	
	AH 10K SDUCR/L 07	10	125	20	9	14	DCMT DCGT 0702...						0,080 ● 124,-
	AH 12M SDUCR/L 07	12	150	25	8	16		VT25B	BT08	0,120 ● 143,50			
	AH 16Q SDUCR/L 07	16	180	25	10	20				0,250 ● 209,50			
	AH 20R SDUCR/L 11	20	200	30	16	26	DCMT DCGT 11T3...						0,500 ● 230,50
	AH 25R SDUCR/L 11	25	200	40	16	32		VT40B	BT15	0,700 ● 320,-			

E-SDUCR/L

CARBIDE	CODICE ORDINE Bestell-/Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}									
	E 08K SDUCR/L 07	8	125	10	7,5	12,5						0,090 ●	200,50	
	E 10K SDUCR/L 07	10	125	10	7	13	DCMT DCGT 0702...						0,170 ●	200,50
	E 12M SDUCR/L 07	12	150	12,5	9	16		VT25B	BT08	0,300 ●	223,-			
	E 16R SDUCR/L 07	16	200	16,5	11	20							0,500 ●	368,-
	E 20S SDUCR/L 11	20	250	20,5	12,5	25	DCMT DCGT 11T3...						1,000 ●	798,50
	E 25S SDUCR/L 11	25	250	26	16	32		VT40B	BT15	1,800 ●	1210,-			

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-SDQCR/L

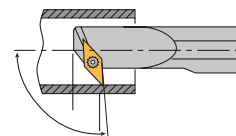
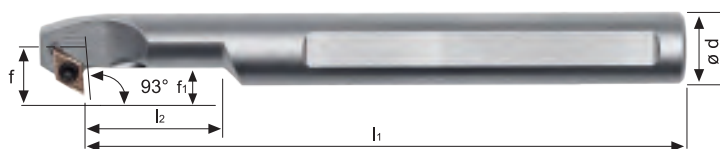
STEEL	CODICE ORDINE Bestell-/Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l1	l2	f	D _{min}						
	A 10K SDQCR/L 07	10	125	16	7	14					0,080	● 80,50
	A 12L SDQCR/L 07	12	140	20	9	17					0,120	● 80,50
	A 16Q SDQCR/L 07	16	180	25	11	22					0,250	● 93,-
	A 20R SDQCR/L 11	20	200	32	13	26					0,500	● 104,-
	A 25R SDQCR/L 11	25	200	40	17	31,5					0,700	● 138,50
	A 32S SDQCR/L 11	32	250	33,5	22	40					1,400	● 223,50
	A 40T SDQCR/L 11	40	300	50	27	49					2,700	● 277,50

AH-SDQCR/L

HSS	CODICE ORDINE Bestell-/Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l1	l2	f	D _{min}						
	AH 08K SDQCR/L07	8	125	20	8	12					0,040	● 123,-
	AH 10K SDQCR/L07	10	125	20	7	13					0,080	● 124,-
	AH 12M SDQCR/L 07	12	150	20	8,5	16					0,120	● 143,50
	AH 16Q SDQCR/L 07	16	180	30	10	20					0,250	● 209,50
	AH 20R SDQCR/L 11	20	200	40	12,5	25					0,500	● 230,50
	AH 25R SDQCR/L 11	25	200	40	16	32					0,700	● 320,-

E-SDQCR/L

CARBIDE	CODICE ORDINE Bestell-/Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l1	l2	f	D _{min}						
	E 08K SDQCR/L 07	8	125	10	7	12,5					0,090	● 200,50
	E 10K SDQCR/L 07	10	125	10	7	13					0,170	● 200,50
	E 12M SDQCR/L 07	12	150	12,5	8,5	16					0,300	● 223,-
	E 16R SDQCR/L 07	16	200	16,5	10	20					0,500	● 368,-
	E 20S SDQCR/L 11	20	250	13	12,5	25					1,000	● 798,50
	E 25S SDQCR/L 11	25	250	17	16	32					1,800	● 1210,-

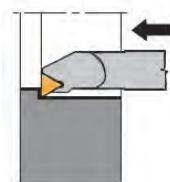
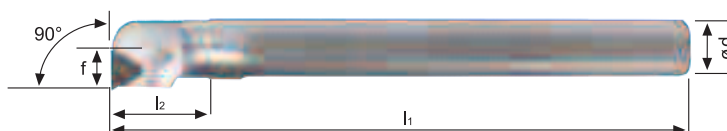


A-SDXCR/L

STEEL	CODICE ORDINE Bestell-/Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l1	l2	f	f1	D _{min}						
	A 08F SDXCR/L 04	8	80	15	5	3	9,20					0,040	● 117,-
	A 10H SDXCR/L 04	10	100	22	7	5	12,50					0,060	● 117,-
	A 12L SDXCR/L 07	12	140	25	9	4,3	17					0,120	● 117,-
	A 16Q SDXCR/L 07	16	180	33	11	4,3	21					0,300	● 117,-
	A 20R SDXCR/L 11	20	200	40	13		25					0,460	● 117,-
	A 25R SDXCR/L 11	25	200	50	17		31,5					0,740	● 134,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-STFCR/L

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}								
	A 10K STFCR/L 11	10	125	22,8	7	13						0,080 ●	80,50
	A 12L STFCR/L 11	12	140	26,5	9	16						0,120 ●	80,50
	A 16Q STFCR/L 11	16	180	26,7	11	20						0,250 ●	93,-
	A 20R STFCR/L 16	20	200	36,6	13	25						0,500 ●	104,-
	A 25R STFCR/L 16	25	200	41	17	32						0,700 ●	138,50
	A 32S STFCR/L 16	32	250	34,6	21,9	40	TCMT TCGT 16T3...	US5511	GBS1111	SS1111	BT15	1,400 ●	223,50
	A 40T STFCR/L 16	40	300	37,5	27	49						2,700 ●	277,50

AH-STFCR/L

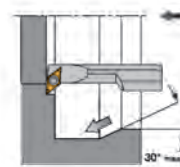
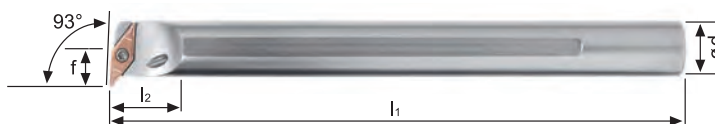
HSS	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}								
	AH 10K STFCR/L 11	10	125	16	7	12						0,080 ●	124,-
	AH 12M STFCR/L 11	12	150	20	9	14						0,120 ●	143,50
	AH 16Q STFCR/L 11	16	180	25	11	18						0,250 ●	209,50
	AH 20R STFCR/L 11	20	200	32	13	23	TCMT TCGT 16T3...		VT40B	BT15		0,500 ●	230,50
	AH 25R STFCR/L 16	25	200	40	17	28						0,700 ●	317,-

E-STFCR/L

CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	d	l ₁	l ₂	f	D _{min}								
	E 10K STFCR/L 11	10	125	16	6	12						0,170 ●	210,50
	E 12M STFCR/L 11	12	150	20	8	15						0,300 ●	223,-
	E 16R STFCR/L 11	16	200	25	10	19						0,500 ●	368,-
	E 20S STFCR/L 16	20	250	32	12	24	TCMT TCGT 16T3...		VT40B	BT15		1,000 ●	798,50
	E 25S STFCR/L 16	25	250	40	13,5	27						1,800 ●	1210,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



A-SVUBR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}								
STEEL	A 16Q SVUBR/L 11	16	180	16,5	11	21	VBMT VBGT 1103...			VT25B	BT08	0,250	●	112,50
	A 20R SVUBR/L 11	20	200	20,5	13	24						0,500	●	117,50
	A 25R SVUBR/L 16	25	200	25,5	17	32	VBMT VBGT 1604...	US6522	GBS1111	SS1111	BT15	0,700	●	139,-
	A 32S SVUBR/L 16	32	250	33,5	22	40						1,400	●	229,-
	A 40T SVUBR/L 16	40	300	40	27	49						2,700	●	277,50

E-SVUBR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}								
CARBIDE	E 16R SVUBR/L 11	16	200	16,5	11	21	VBMT VBGT 1103...			VT25B	BT08	0,500	●	368,-
	E 20S SVUBR/L 11	20	250	20,5	13	25						1,000	●	798,50
	E 25S SVUBR/L 11	25	250	23	17	31,5						1,800	●	1227,-

A-SVUCR/L

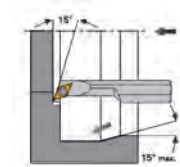
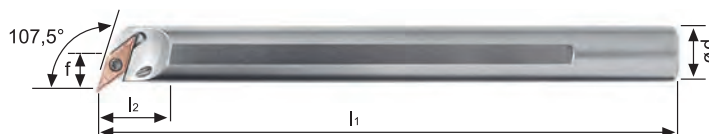
	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}								
STEEL	A 16Q SVUCR/L 11	16	180	16,5	11	21	VCMT VCGT 1103...			VT25B	BT08	0,250	●	112,50
	A 20R SVUCR/L 11	20	200	20,5	13	25						0,500	●	117,50
	A 25R SVUCR/L 16	25	200	25,5	17	32	VCMT VCGT 1604...	US6522	GBS1111	SS1111	BT15	0,700	●	139,-
	A 32S SVUCR/L 16	32	250	33,5	22	40						1,400	●	229,-
	A 40T SVUCR/L 16	40	300	40	27	49						2,700	●	277,50

AH-SVUCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}								
HSS	AH 16Q SVUCR/L 11	16	180	20	11	21	VCMT VCGT 1103...			VT25B	BT08	0,250	●	269,-
	AH 20R SVUCR/L 11	20	200	24	13	25						0,500	●	360,50
	AH 25R SVUCR/L 16	25	200	25,5	17	31,5				VT40B	BT15	0,700	●	396,-

E-SVUCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}								
CARBIDE	E 16R SVUCR/L 11	16	200	16,5	11	21	VCMT VCGT 1103...			VT25B	BT08	0,500	●	368,-
	E 20S SVUCR/L 11	20	250	20,5	13	25						1,000	●	798,50
	E 25S SVUCR/L 11	25	250	23	17	31,5						1,800	●	1227,-



A-SVQBR/L

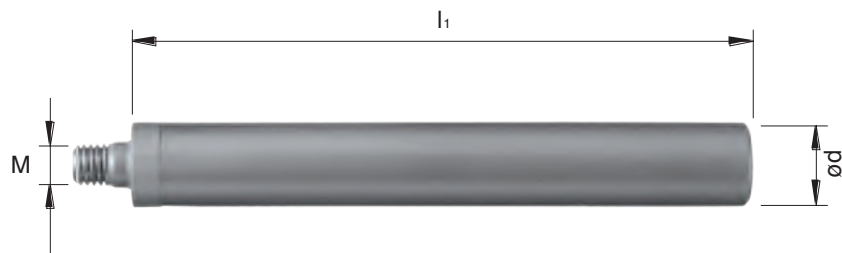
	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}								
STEEL	A 16Q SVQBR/L 11	16	180	16,5	11	21	VBMT 1103...			VT25B	BT08	0,080	●	112,50
	A 20R SVQBR/L 11	20	200	20,5	13	25						0,120	●	117,50
	A 25R SVQBR/L 16	25	200	40	17	32	VBMT 1604...			VT40B	BT15	0,250	●	139,-

A-SVQCR/L

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
		d	l ₁	l ₂	f	D _{min}								
STEEL	A 16Q SVQCR/L 11	16	180	16,5	11	21	VCMT VCGT 1103			VT25B	BT08	0,250	●	112,50
	A 20R SVQCR/L 11	20	200	26,1	13	24						0,500	●	117,50
	A 25R SVQCR/L 16	25	200	43	17	31,5	VCMT VCGT 1604...	US6522	GBS1111	SS1111	BT15	0,700	●	139,-
	A 32S SVQCR/L 16	32	250	33,5	22	40						1,400	●	229,-
	A 40T SVQCR/L 16	40	300	40	27	49						2,700	●	277,50

● Disponibile - Lieferbar - On stock

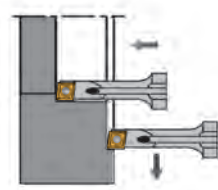
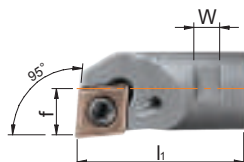
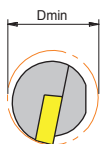
○ A richiesta - Auf Anfrage - On request



NEW E..K

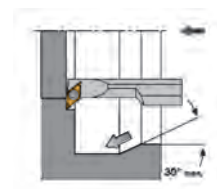
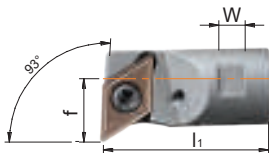
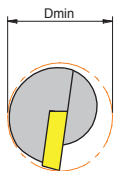
CARBIDE	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)			kg	STOCK	PRICELIST €
		d	l ₁	M			
	E08K M4 R	8	104	M4	0,070	●	180,-
	E10K M5 R	10	103	M5	0,110	●	199,-
	E12M M6 R	12	127	M6	0,180	●	225,-
	E16R M8 R	16	174	M8	0,500	●	420,-

Testina filettata | Köpfe mit Gewinde | Heads with thread connection



NEW A-SCLCR

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	f	W	D _{min}							
	A 08 SCLCR 06	8	21	5	3,5	10	CCMT CCGT 0602...	VT25B	BT08	CBH 0816	0,008	●	99,-
	A 10 SCLCR 06	10	22	6	3,5	12					0,010	●	99,-
	A 12 SCLCR 06	12	23	7	3,5	16					0,014	●	99,-
A 16 SCLCR 09	16	26	9	3,5	20	CCMT CCGT 09T3...	VT40B	BT15	0,030		●	109,-	

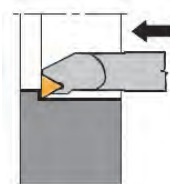
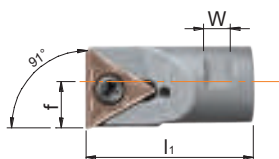
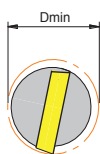


NEW A-SDUCR

STEEL	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
		d	l ₁	f	W	D _{min}							
	A 08 SDUCR 07	8	21	9	3,5	13	DCMT DCGT 0702...	VT25B	BT08	CBH 0816	0,008	●	99,-
	A 10 SDUCR 07	10	22	9	3,5	14					0,010	●	99,-
	A 12 SDUCR 07	12	23	10	3,5	16					0,014	●	99,-
A 16 SDUCR 07	16	26	11,3	3,5	20	0,030					●	109,-	

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



NEW

A-STFCR

	CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		d	l1	f	W	Dmin						
STEEL	A 08 STFCR 08	8	21	5	3,5	10	TCMT 0802...	VT20	BT06		0,008 ●	99,-
	A 10 STFCR 11	10	22	6	3,5	12	TCMT TCGT 1102...	VT25B	BT08	CBH 0816	0,010 ●	99,-
	A 12 STFCR 11	12	23	7	3,5	14					0,014 ●	99,-
	A 16 STFCR 11	16	26	9	3,5	18					0,030 ●	109,-

Set Bareno MD + Testine | VHM Schaft + Einschrauben-Köpfe Satz |
Carbide shank + heads with thread connection set

NEW



SET E08K-R SC06.SD07.ST08

No. 1 E08K M4 R
No. 1 A08 SCLCR 06
No. 1 A08 SDUCR 07
No. 1 A08 STFCR 08

SET E10K-R SC06.SD07.ST11

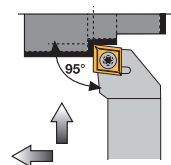
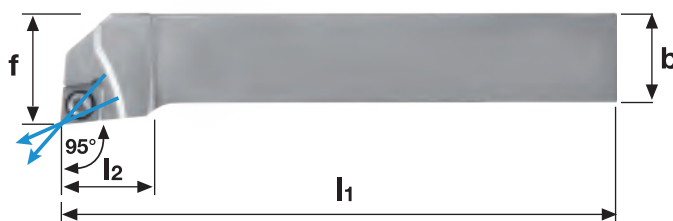
No. 1 E10K M5 R
No. 1 A10 SCLCR 06
No. 1 A10 SDUCR 07
No. 1 A10 STFCR 11

SET E12M-R SC06.SD07.ST11

No. 1 E12M M6 R
No. 1 A12 SCLCR 06
No. 1 A12 SDUCR 07
No. 1 A12 STFCR 11

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



INCLUDING FREE

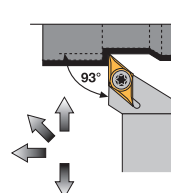
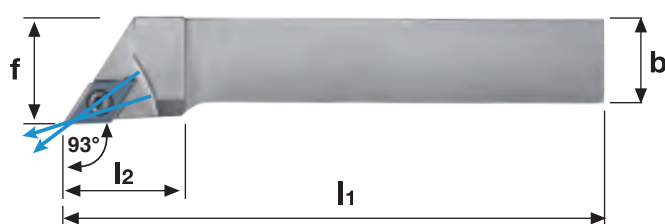


NO SEPARATE SALE



SCLCR/L Stelo in acciaio | *Stahlschaft* | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI <i>Abmessungen</i> Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SCLCR/L1616 H09 - IK G1/8	16	16	16	100	17	20	CCMT CCGT 09T3...	US1111	GBS1111	SS1111	BT15	0,235	● 216,50
SCLCR/L2020 K09 - IK G1/8	20	20	20	125	17	25						0,420	● 223,50
SCLCR/L2525 M12 - IK G1/8	25	25	25	150	20	32	CCMT CCGT 1204...	US1221	GBS1221	SS1221		0,770	● 235,-



INCLUDING FREE



NO SEPARATE SALE

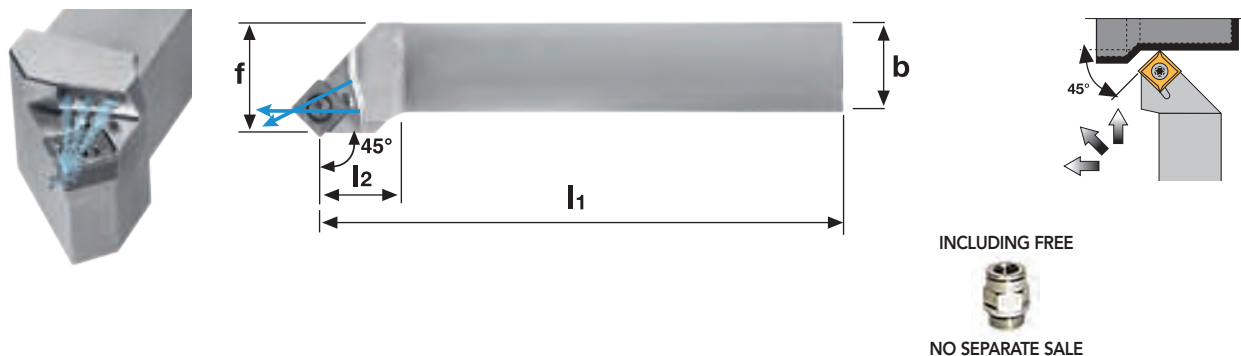


SDJCR/L Stelo in acciaio | *Stahlschaft* | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI <i>Abmessungen</i> Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SDJCR/L1616 H11 - IK G1/8	16	16	16	100	20	20	DCMT DCGT 11T3...	US2311	GBS1111	SS1111	BT15	0,230	● 216,50
SDJCR/L2020 K11 - IK G1/8	20	20	20	125	24	25						0,408	● 223,50
SDJCR/L2525 M11 - IK G1/8	25	25	25	150	27	32						0,735	● 235,-

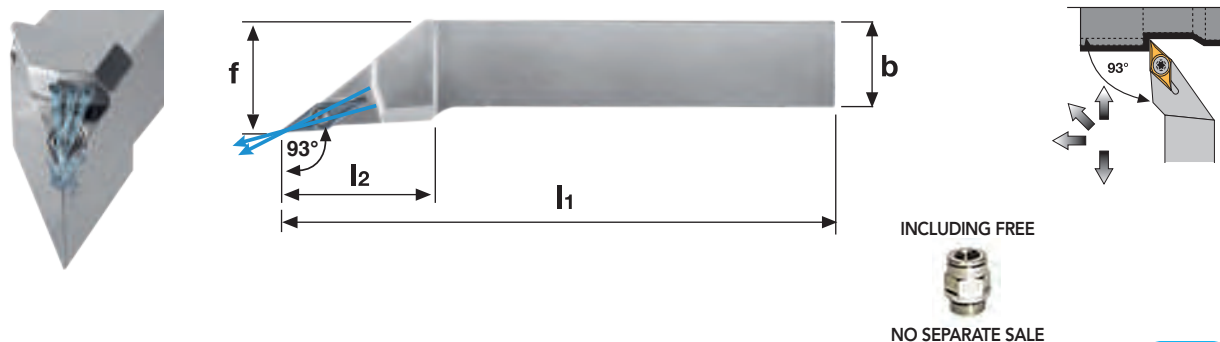
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



SSSCR/L Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						SCMT SCGT 09T3...	US4111	GBS1111	SS1111	BT15	0,235	●	216,50
	h1	h2	b	l1	l2	f								
SSSCR/L 1616 H09 - IK G1/8	16	16	16	100	20	20								
SSSCR/L 2020 K09 - IK G1/8	20	20	20	125	20	25						0,420	●	223,50
SSSCR/L 2525 M12 - IK G1/8	25	25	25	150	25	32	SCMT SCGT 1204...	US4221	GBS1221	SS1221	BT15	0,770	●	235,-

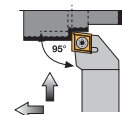
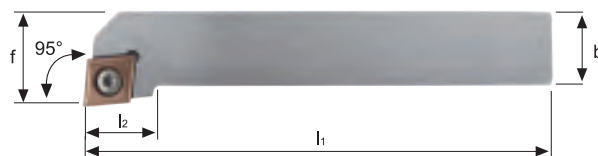


SVJCR/L Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						VCMT VCGT 1103...	US6522	GBS1111	SS1111	BT15	0,203	●	216,50
	h1	h2	b	l1	l2	f								
SVJCR/L 1616 H11 - IK G1/8	16	16	16	100	21,5	20								
SVJCR/L 2020 K11 - IK G1/8	20	20	20	125	23	25						0,373	●	223,50
SVJCR/L 2020 K16 - IK G1/8	20	20	20	125	29,5	25						0,380	●	223,50
SVJCR/L 2525 M16 - IK G1/8	25	25	25	150	32,5	32	VCMT VCGT 1604...	US6522	GBS1111	SS1111	BT15	0,677	●	235,-

● Disponibile - Lieferbar - On stock

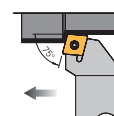
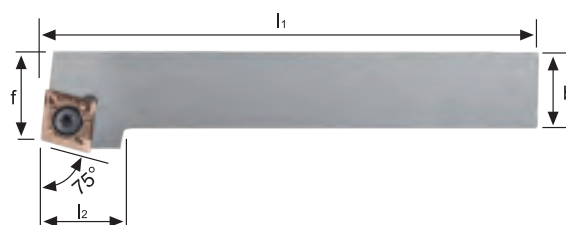
○ A richiesta - Auf Anfrage - On request



SCLCR/L

Stelo in acciaio | Stahlschaft | Steelshank

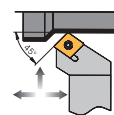
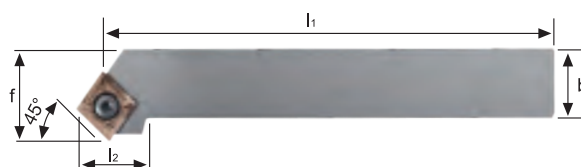
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																
	h ₁	h ₂	b	l ₁	l ₂	f											
SCLCR/L 0808 D06	8	8	8	60	9	10	CCMT CCGT 0602...				SS1751	BT08	0,040	●	68,50		
SCLCR/L 1010 E06	10	10	10	70	10	12							0,060	●	68,50		
SCLCR/L 1212 F09	12	12	12	80	17	16					SS1111		0,090	●	68,50		
SCLCR/L 1616 H09	16	16	16	100	17	20	CCMT CCGT 09T3...	US1111	GBS1111	SS1111			0,220	●	80,50		
SCLCR/L 2020 K09	20	20	20	125	18	25							0,420	●	82,50		
SCLCR/L 2525 M09	25	25	25	150	19	32							0,740	●	91,-		
SCLCR/L 1616 H12	16	16	16	100	20	20	CCMT CCGT 1204...	US1221	GBS1221	SS1221			0,220	●	80,50		
SCLCR/L 2020 K12	20	20	20	125	20	25							0,420	●	82,50		
SCLCR/L 2525 M12	25	25	25	150	20	32							0,740	●	91,-		



SCRCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																
	h ₁	h ₂	b	l ₁	l ₂	f											
SCRCR/L 0808 D06	8	8	8	60	14	9	CCMT CCGT 0602...				SS1751	BT08	0,040	●	68,50		
SCRCR/L 1010 E06	10	10	10	70	14	11							0,060	●	68,50		
SCRCR/L 1212 F09	12	12	12	80	20	13	CCMT CCGT 09T3...	US1111	GBS1111	SS1111			0,090	●	68,50		
SCRCR/L 1616 H09	16	16	16	100	20	17							0,220	●	80,50		
SCRCR/L 2020 K09	20	20	20	125	21	22							0,420	●	82,50		
SCRCR/L 1616 H12	16	16	16	100	24	17	CCMT CCGT 1204...	US1221	GBS1221	SS1221			0,220	●	80,50		
SCRCR/L 2020 K12	20	20	20	125	24	22							0,420	●	82,50		
SCRCR/L 2525 M12	25	25	25	150	24	27							0,740	●	91,-		



SCSCLR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																
	h ₁	h ₂	b	l ₁	l ₂	f											
SCSCLR/L 0808 D06	8	8	8	60	12	10	CCMT CCGT 0602...				SS1751	BT08	0,040	●	68,50		
SCSCLR/L 1010 E06	10	10	10	70	12	12							0,060	●	68,50		
SCSCLR/L 1212 F09	12	12	12	80	19	16	CCMT CCGT 09T3...	US1111	GBS1111	SS1111			0,090	●	68,50		
SCSCLR/L 1616 H09	16	16	16	100	20	20							0,220	●	80,50		
SCSCLR/L 2020 K09	20	20	20	125	22	25							0,420	●	82,50		
SCSCLR/L 1616 H12	16	16	16	100	22	20	CCMT CCGT 1204...	US1221	GBS1221	SS1221			0,220	●	80,50		
SCSCLR/L 2020 K12	20	20	20	125	24	25							0,420	●	82,50		
SCSCLR/L 2525 M12	25	25	25	150	27	32							0,740	●	91,-		

● Disponibile - Lieferbar - On stock

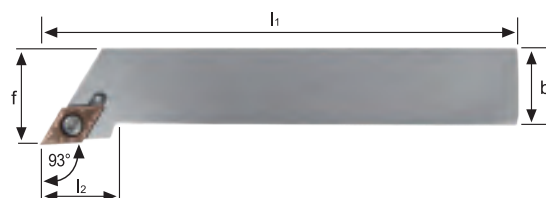
○ A richiesta - Auf Anfrage - On request



SDHCR/L

Stelo in acciaio | Stahlschaft | Steelshank

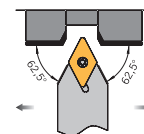
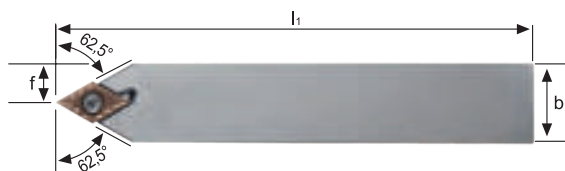
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SDHCR/L 1010 E07	10	10	10	70	7,2	12	DCMT DCGT 0702...					0,060	● 68,50
SDHCR/L 1212 F07	12	12	12	80	12	16						0,090	● 68,50
SDHCR/L 1616 H11	16	16	16	100	11,6	20	DCMT DCGT 11T3...					0,220	● 80,50
SDHCR/L 2020 K11	20	20	20	125	14,7	25		US2311	GBS1111	SS1111	BT15	0,420	● 82,50
SDHCR/L 2525 M11	25	25	25	150	21	32						0,740	● 91,-



SDJCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SDJCR/L 0808 D07	8	8	8	60	12,8	10	DCMT DCGT 0702...					0,040	● 68,50
SDJCR/L 1010 E07	10	10	10	70	12,8	12						0,060	● 68,50
SDJCR/L 1212 F07	12	12	12	80	17	16						0,090	● 68,50
SDJCR/L 1616 H11	16	16	16	100	20	20	DCMT DCGT 11T3...					0,220	● 80,50
SDJCR/L 2020 K11	20	20	20	125	24	25		US2311	GBS1111	SS1111	BT15	0,420	● 82,50
SDJCR/L 2525 M11	25	25	25	150	27	32						0,740	● 91,-



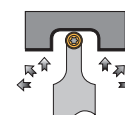
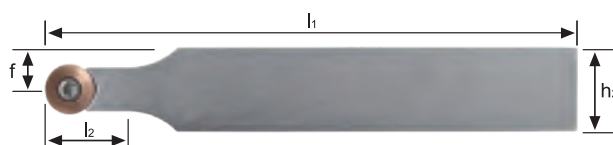
SDNCN

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SDNCN 0808 D07	8	8	8	60		4	DCMT DCGT 0702...					0,040	● 68,50
SDNCN 1010 E07	10	10	10	70		5						0,060	● 68,50
SDNCN 1212 F07	12	12	12	80		6						0,090	● 68,50
SDNCN 1616 H11	16	16	16	100		8	DCMT DCGT 11T3...					0,220	● 80,50
SDNCN 2020 K11	20	20	20	125		10		US2311	GBS1111	SS1111	BT15	0,420	● 82,50
SDNCN 2525 M11	25	25	25	150		12,5						0,740	● 91,-

● Disponibile - Lieferbar - On stock

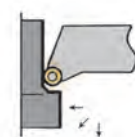
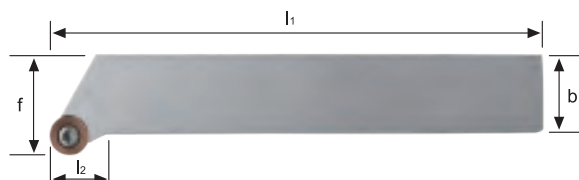
○ A richiesta - Auf Anfrage - On request



SRDCN

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	l ₁	l ₂	f								
SRDCN 1212 F06	12	12	80	12,4	6							0,090 ●	77,-
SRDCN 1616 H06	16	16	100	12,4	8	RCMT RCGT 0602...				SS1751		0,220 ●	86,50
SRDCN 2020 K06	20	20	125	12,4	10							0,420 ●	99,-
SRDCN 2525 M06	25	25	150	12,4	12,5					BT08		0,740 ●	111,50
SRDCN 1616 H08	16	16	100	16,4	8	RCMT RCGT 0803...				SS8831		0,220 ●	86,50
SRDCN 2020 K08	20	20	125	16,4	10							0,420 ●	101,-
SRDCN 2525 M08	25	25	150	16,4	12,5							0,740 ●	111,50
SRDCN 1616 H10	16	16	100	20,3	8	RCMT RCGT 1003...						0,220 ●	86,50
SRDCN 2020 K10	20	20	125	20,3	10		US3431	GBS1111				0,420 ●	101,-
SRDCN 2525 M10	25	25	150	20,3	12,5					SS1111	BT15	0,740 ●	111,50
SRDCN 2020 K12	20	20	125	20,3	10	RCMT RCGT 1204...						0,420 ●	101,-
SRDCN 2525 M12	25	25	150	20,3	12,5		US3450	GBS1111				0,740 ●	111,50



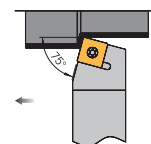
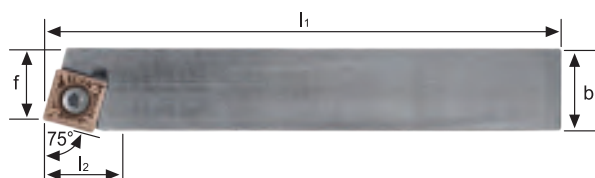
SRGCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI <i>Abmessungen</i> Dimensions (mm.)												STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f								
SRGCR/L 1212 F06	12	12	12	80	13,8	16	RCMT RCGT 0602...		SS1751		BT08	0,090	●	80,50
SRGCR/L 1616 H06	16	16	16	100	13,8	20						0,220	●	91,-
SRGCR/L 2020 K06	20	20	20	125	15,3	25						0,420	●	101,-
SRGCR/L 2525 M06	25	25	25	150	18,8	32						0,740	●	117,50
SRGCR/L 1616 H08	16	16	16	100	14,7	20	RCMT RCGT 0803...		SS8831			0,220	●	91,-
SRGCR/L 2020 K08	20	20	20	125	16,4	25						0,420	●	106,-
SRGCR/L 2525 M08	25	25	25	150	19,8	32						0,740	●	117,50
SRGCR/L 1616 H10	16	16	16	100	15,5	20	RCMT RCGT 1003...	US3431	GBS111	SS1111	BT15	0,220	●	91,-
SRGCR/L 2020 K10	20	20	20	125	17,2	25						0,420	●	106,-
SRGCR/L 2525 M10	25	25	25	150	20,7	32						0,740	●	117,50

● Disponibile - Lieferbar - On stock

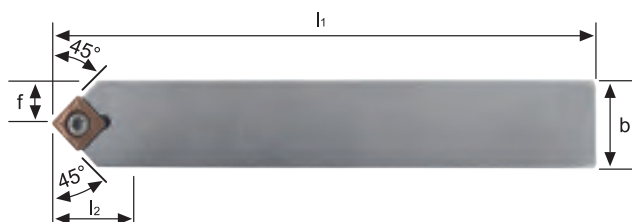
○ A richiesta - Auf Anfrage - On request



SSBCE/L

Stelo in acciaio | Stahlschaft | Steelshank

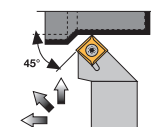
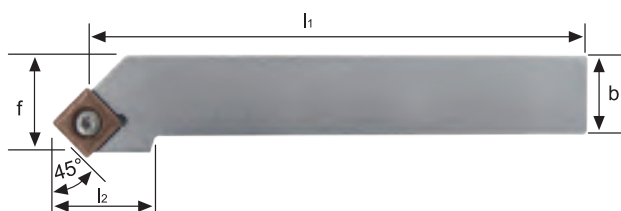
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SSBCE/L 1616 H09	16	16	16	100	20	13	SCMT SCGT 09T3...	US4111	GBS1111	SS1111		0,220 ●	80,50
SSBCE/L 2020 K12	20	20	20	125	20	17	SCMT SCGT 1204...	US4221	GBS1221	SS1221	BT15	0,420 ●	82,50
SSBCE/L 2525 M12	25	25	25	150	20	22						0,740 ●	91,-



SSDCN

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SSDCN 1212 F09	12	12	12	80	16	6						0,090 ●	69,50
SSDCN 1616 H09	16	16	16	100	20	8	SCMT SCGT 09T3...	US4111	GBS1111	SS1111		0,220 ●	80,50
SSDCN 2020 K09	20	20	20	125	20	10					BT15	0,420 ●	91,-
SSDCN 1616 H12	16	16	16	100	25	8	SCMT SCGT 1204...	US4221	GBS1221	SS1221		0,220 ●	85,50
SSDCN 2020 K12	20	20	20	125	25	10						0,420 ●	91,-
SSDCN 2525 M12	25	25	25	150	25	12,5						0,740 ●	96,-



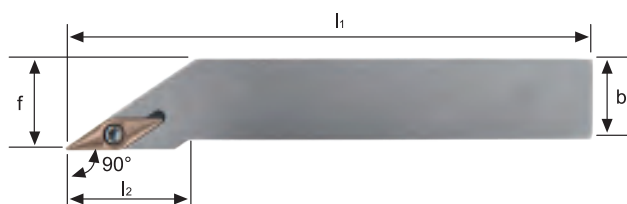
SSSCE/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SSSCE/L 0808 D09	8	8	8	60	21	13				SS1114		0,040 ●	68,50
SSSCE/L 1010 E09	10	10	10	70	21	14						0,060 ●	68,50
SSSCE/L 1212 F09	12	12	12	80	17	16	SCMT SCGT 09T3...					0,090 ●	68,50
SSSCE/L 1616 H09	16	16	16	100	20	20		US4111	GBS1111	SS1111		0,220 ●	80,50
SSSCE/L 2020 K09	20	20	20	125	20	25					BT15	0,420 ●	82,50
SSSCE/L 1616 H12	16	16	16	100	18	20	SCMT SCGT 1204...	US4221	GBS1221	SS1221		0,220 ●	80,50
SSSCE/L 2020 K12	20	20	20	125	26,7	25						0,420 ●	82,50
SSSCE/L 2525 M12	25	25	25	150	25	32						0,740 ●	91,-

● Disponibile - Lieferbar - On stock

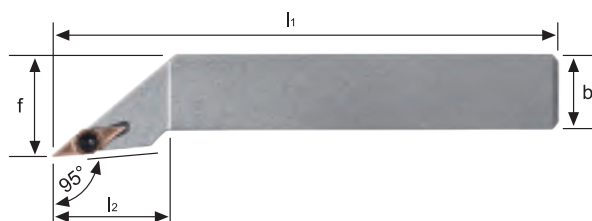
○ A richiesta - Auf Anfrage - On request



SVGCR/L

Stelo in acciaio | Stahlschaft | Steelshank

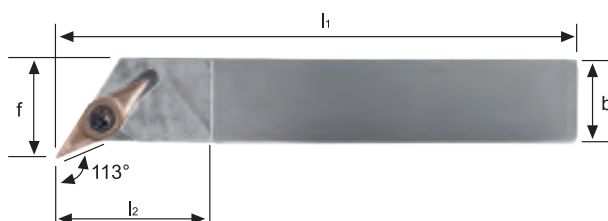
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																	
	h ₁	h ₂	b	l ₁	l ₂	f												
SVGCR/L 0808 K07	8	8	8	125	15	8,5										0,040	●	62,50
SVGCR/L 1010 M07	10	10	10	150	15	10,5	VCMT VCGT 0702...							VT20	BT06	0,060	●	67,-
SVGCR/L 1212 M07	12	12	12	150	18	12,5										0,090	●	71,50



SVLCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																	
	h ₁	h ₂	b	l ₁	l ₂	f												
SVLCR/L 0808 D07	8	8	8	60	15	10										0,040	●	62,50
SVLCR/L 1010 E07	10	10	10	70	15	12	VCMT VCGT 0702...							VT20	BT06	0,060	●	67,-
SVLCR/L 1212 F07	12	12	12	80	18	16										0,090	●	71,50



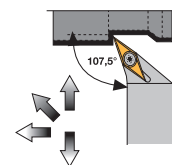
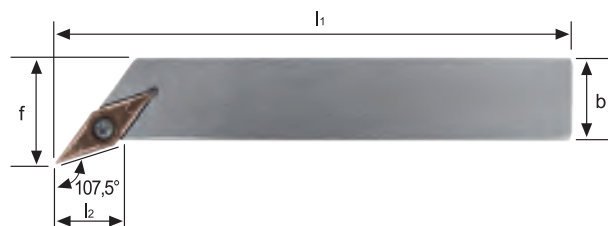
SVXCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)																	
	h ₁	h ₂	b	l ₁	l ₂	f												
SVXCR/L 0808 D07	8	8	8	60	15	10										0,040	●	62,50
SVXCR/L 1010 E07	10	10	10	70	15	12	VCMT VCGT 0702...							VT20	BT06	0,060	●	67,-
SVXCR/L 1212 F07	12	12	12	80	18	16										0,090	●	71,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



SVHBR/L

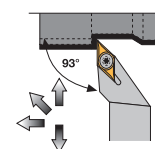
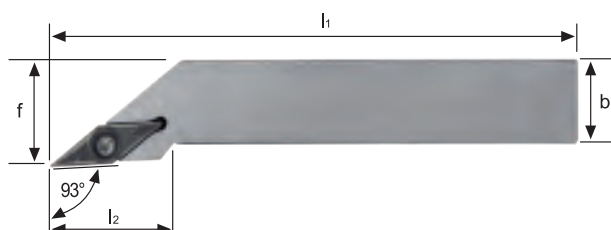
Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SVHBR/L 1212 F11	12	12	12	80	13,4	16	VBMT 1103...			SS1751	BT08	0,090	● 83,50
SVHBR/L 1616 H11	16	16	16	100	13,4	20						0,220	● 83,50
SVHBR/L 2020 K11	20	20	20	125	16,6	25						0,420	● 90,-
SVHBR/L 2020 K16	20	20	20	125	15,9	25	VBMT 1604...	US6522	GBS1111	SS1111	BT15	0,420	● 99,-
SVHBR/L 2525 M16	25	25	25	150	20,6	32						0,740	● 111,50

SVHCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SVHCR/L 1212 F11	12	12	12	80	13,4	16	VCMT VCGT 1103...			SS1751	BT08	0,090	● 83,50
SVHCR/L 1616 H11	16	16	16	100	13,4	20						0,220	● 83,50
SVHCR/L 2020 K11	20	20	20	125	16,6	25						0,420	● 90,-
SVHCR/L 2525 M11	25	25	25	150	22,9	32	VCMT VCGT 1604...					0,740	● 99,-
SVHCR/L 2020 K16	20	20	20	125	15,2	25						0,420	● 99,-
SVHCR/L 2525 M16	25	25	25	150	23,5	32						0,740	● 111,50



SVJBR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SVJBR/L 1212 F11	12	12	12	80	21,5	16	VBMT 1103...			SS1751	BT08	0,090	● 83,50
SVJBR/L 1616 H11	16	16	16	100	21,5	20						0,220	● 83,50
SVJBR/L 2020 K11	20	20	20	125	23	25						0,420	● 90,-
SVJBR/L 2020 K16	20	20	20	125	29,5	25	VBMT 1604...	US6522	GBS1111	SS1111	BT15	0,420	● 90,-
SVJBR/L 2525 M16	25	25	25	150	33	32						0,740	● 111,50

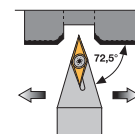
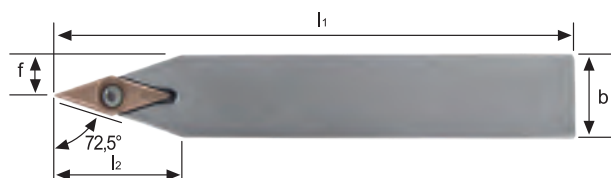
SVJCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f							
SVJCR/L 1212 F11	12	12	12	80	21,5	16	VCMT VCGT 1103...			SS1751	BT08	0,090	● 83,50
SVJCR/L 1616 H11	16	16	16	100	21,5	20						0,220	● 83,50
SVJCR/L 2020 K11	20	20	20	125	24	25						0,420	● 90,-
SVJCR/L 2525 M11	25	25	25	150	26	32	VCMT VCGT 1604...					0,740	● 99,-
SVJCR/L 2020 K16	20	20	20	125	29,5	25						0,420	● 90,-
SVJCR/L 2525 M16	25	25	25	150	32,5	32						0,740	● 99,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



SVVBN

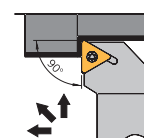
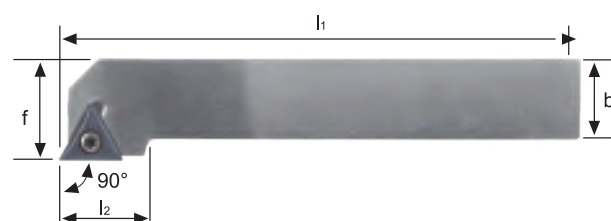
Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)												STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f								
SVVBN 1212 F11	12	12	12	80	18,5	6							0,090 ●	75,-
SVVBN 1616 H11	16	16	16	100	24,7	8	VBMT 1103...						0,220 ●	80,50
SVVBN 2020 K11	20	20	20	125	32	10				SS1751	BT08		0,420 ●	82,50
SVVBN 2525 M11	25	25	25	150	38,9	12,5							0,740 ●	91,-
SVVBN 2020 K16	20	20	20	125	30,7	10	VBMT 1604...	US6522	GBS1111	SS1111	BT15		0,420 ●	90,-
SVVBN 2525 M16	25	25	25	150	38,8	12,5							0,740 ●	99,-

SVVCN

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)												STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f								
SVVCN 0808 K07	8	8	8	125	15	4	VCMT VCGT 0702...						0,040 ●	62,50
SVVCN 1010 M07	10	10	10	150	15	5							0,060 ●	67,-
SVVCN 1212 M07	12	12	12	150	18	6							0,090 ●	71,50
SVVCN 1212 F11	12	12	12	80	18,4	6	VCMT VCGT 1103...						0,090 ●	75,-
SVVCN 1616 H11	16	16	16	100	24,7	8							0,220 ●	80,50
SVVCN 2020 K11	20	20	20	125	31,3	10				SS1751	BT08		0,420 ●	82,50
SVVCN 2525 M11	25	25	25	150	39	12,5							0,740 ●	91,-
SVVCN 2020 K16	20	20	20	125	31,1	10	VCMT VCGT 1604...	US6522	GBS1111	SS1111	BT15		0,420 ●	90,-
SVVCN 2525 M16	25	25	25	150	38,2	12,5							0,740 ●	99,-



STGCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)												STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f								
STGCR/L 1212 F11	12	12	12	80	19	16	TCMT 1102						0,090 ●	68,50
NEW STGCR/L 1616 H11	16	16	16	100	19	20				SS1751	BT08		0,220 ●	80,50
STGCR/L 1616 H16	16	16	16	100	22	20	TCMT TCGT 16T3...	US5511	GBS1111	SS1111	BT15		0,220 ●	80,50
STGCR/L 2020 K16	20	20	20	125	22	25							0,420 ●	91,-
STGCR/L 2525 M16	25	25	25	150	23	32							0,740 ●	96,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



NEW SCACR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	f							
SCACR/L 0808 X06-A	8	8	8	115	8,0	CCMT CCGT 0602..			SS1751	BT08	0,060	● 79,-
SCACR/L 1010 X06-A	10	10	10	115	10,0						0,100	● 80,-
SCACR/L 1212 X06-A	12	12	12	130	12,0						0,150	● 82,-
SCACR/L 1212 X09-A	12	12	12	130	12,0	CCMT CCGT 09T3..			VT40B	BT15	0,150	● 82,-
SCACR/L 1616 X09-A	16	16	16	130	16,0						0,260	● 85,-



NEW SDACR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	f							
SDACR/L 0808 X07-A	8	8	8	115	8,0	DCMT DCGT 0702..			SS1751	BT08	0,060	● 79,-
SDACR/L 1010 X07-A	10	10	10	115	10,0						0,090	● 80,-
SDACR/L 1212 X07-A	12	12	12	130	12,0						0,150	● 82,-
SDACR/L 1616 X07-A	16	16	16	130	16,0	DCMT DCGT 11T3..			VT40B	BT15	0,250	● 85,-
SDACR/L 1212 X11-A	12	12	12	130	12,0						0,150	● 82,-
SDACR/L 1616 X11-A	16	16	16	130	16,0						0,250	● 85,-



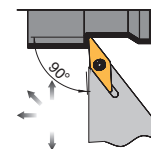
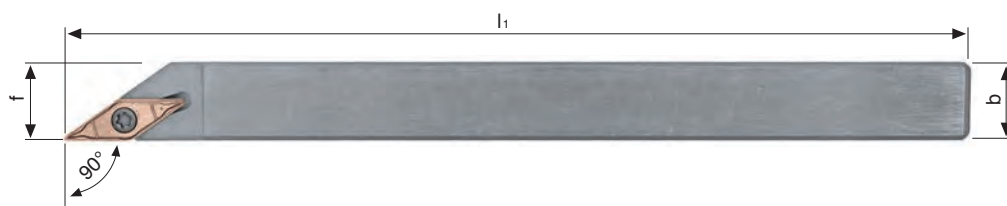
NEW SDNCN

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	f							
SDNCN 1010 X07-A	10	10	10	115	5,0	DCMT DCGT 0702..			SS1751	BT08	0,090	● 80,-
SDNCN 1212 X11-A	12	12	12	130	6,0						0,150	● 82,-
SDNCN 1616 X11-A	16	16	16	130	8,0	DCMT DCGT 11T3..			VT40B	BT15	0,250	● 85,-

● Disponibile - Lieferbar - On stock

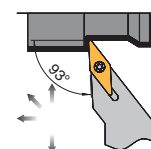
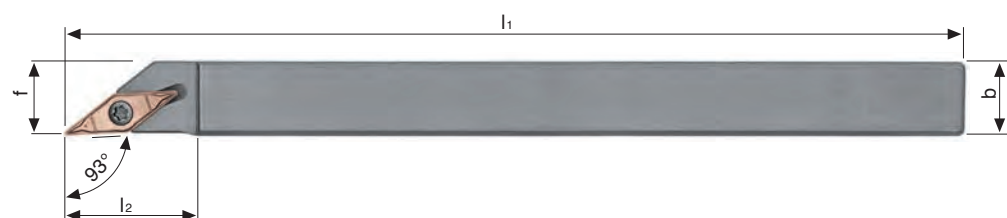
○ A richiesta - Auf Anfrage - On request



NEW SVACR/L

Stelo in acciaio | Stahlschaft | Steelshank

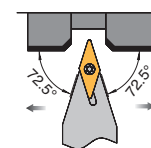
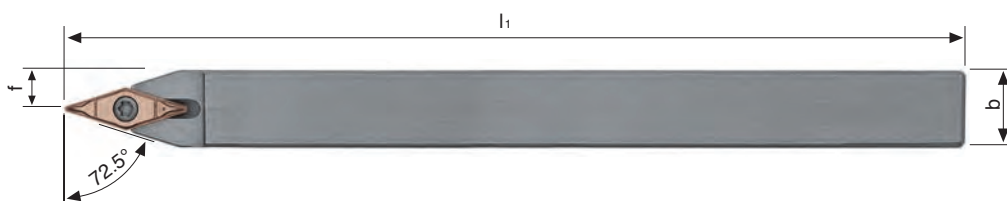
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	h ₁	h ₂	b	l ₁	f							
SVACR/L 0808 X11-A	8	8	8	115	8,0	VCMT VCGT 1103..	SS1751	BT08			0,060	● 79,-
SVACR/L 1010 X11-A	10	10	10	115	10,0						0,090	● 80,-
SVACR/L 1212 X11-A	12	12	12	130	12,0						0,150	● 82,-
SVACR/L 1616 X11-A	16	16	16	130	16,0	VCMT VCGT 1604..	VT40B	BT15			0,250	● 85,-
SVACR/L 1212 X16-A	12	12	12	130	12,0						0,140	● 82,-
SVACR/L 1616 X16-A	16	16	16	130	16,0						0,240	● 85,-



NEW SVJCR/L

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	f							
SVJCR/L 0808 X11-A	8	8	8	115	8,0	VCMT VCGT 1103..	SS1751	BT08			0,060	● 79,-
SVJCR/L 1010 X11-A	10	10	10	115	10,0						0,090	● 80,-
SVJCR/L 1212 X11-A	12	12	12	130	12,0						0,150	● 82,-
SVJCR/L 1616 X11-A	16	16	16	130	16,0	VCMT VCGT 1604..	VT40B	BT15			0,250	● 85,-
SVJCR/L 1212 X16-A	12	12	12	130	12,0						0,150	● 82,-
SVJCR/L 1616 X16-A	16	16	16	130	16,0						0,240	● 85,-



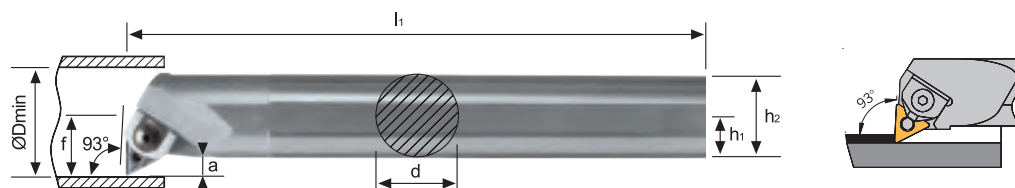
NEW SVVCN

Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)										STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	f							
SVVCN 1010 X11-A	10	10	10	115	5,0	VCMT VCGT 1103..	SS1751	BT08			0,100	● 80,-
SVVCN 1212 X11-A	12	12	12	130	6,0						0,150	● 82,-
SVVCN 1616 X11-A	16	16	16	130	8,0						0,250	● 85,-
SVVCN 1212 X16-A	12	12	12	130	6,0	VCMT VCGT 1604..	VT40B	BT15			0,150	● 82,-
SVVCN 1616 X16-A	16	16	16	130	8,0						0,240	● 85,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



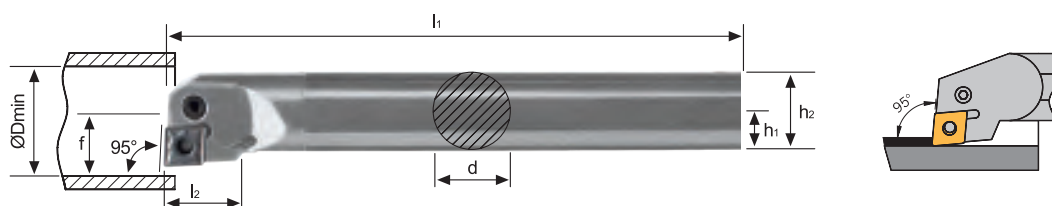
A-MTFNR/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	d	h1	h2	l1	f	a	D _{min}				
A32S MTFNR/L 16	32	15	30	250	22	5,9	44	TN... 1604...	1,400	●	283,50
A40T MTFNR/L 16	40	18	36	300	27	6,9	54		2,700	●	336,50

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Staffa Klemme Clamp	Staffa cuneo Keilstück Wedge	Supporto Unterlage Support pad	Spina elastica Spannstift Clamping pin
... MTFNR/L 16	GS1	P1	E1	G1



A-PCLNR/L

Stelo in acciaio | Stahlschaft | Steel shank

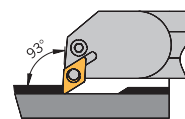
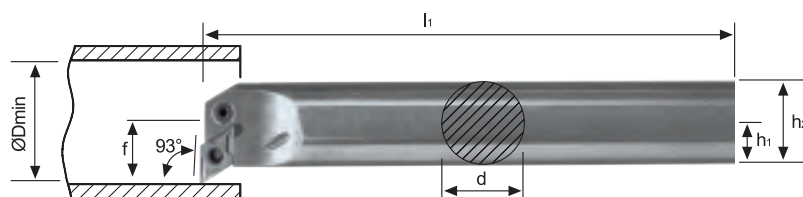
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	d	h1	h2	l1	l2	f	D _{min}				
A16M PCLNR/L 09	16	8	15,5	150	21	11	20	CN... 0903...	0,250	○	156,-
A20Q PCLNR/L 09	20	10	19	180	21	13	25		0,500	○	186,50
A25R PCLNR/L 09	25	12,5	24	200	21	17	32		0,700	○	238,50
A25R PCLNR/L 12	25	12,5	24	200	21	17	32	CN... 1204...	0,700	●	238,50
A32S PCLNR/L 12	32	16	31	250	24,1	22	40		1,400	●	264,-
A40T PCLNR/L 12	40	20	38,5	300	24,1	27	49		2,700	●	305,50

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
... 16/20... PCLN R/L 09	-	HP 1118	SP 1118	-	-
... 25... PCLN R/L 09	UP 1115	HP 4751	SP 3111	RP 3112	MP 3111
... 25... PCLN R/L 12	UP 1111	HP 1111	SP 1114	RP 1111	MP 1111
... 32-40... PCLN R/L 12	UP 1111	HP 1111	SP 1111	RP 1111	MP 1111

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



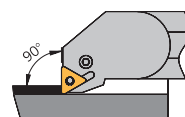
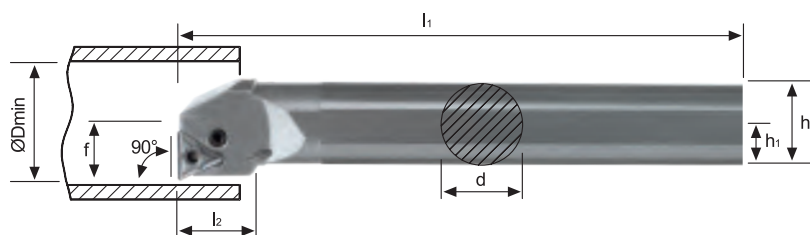
A-PDUNR/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
A20Q PDUNR/L 11	20	10	19	180	16	27	DN... 1104...	0,500	○	191,50
A25R PDUNR/L 11	25	12,5	24	200	18,5	32		0,700	○	233,-
A32S PDUNR/L 15	32	16	31	250	22	40	DN... 1506...	1,400	●	261,50
A40T PDUNR/L 15	40	20	38,5	300	27	49		2,700	○	305,50

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
...20... PDUN R/L 11	-	HP 2012	SP 3112	-	-
...25... PDUN R/L 11	UP 2011	HP 2011	SP 3111	RP 3112	MP 3111
...32-40... PDUN R/L 15	UP 2421	HP 2421	SP 1111	RP 1111	MP 1111



A-PTFNR/L

Stelo in acciaio | Stahlschaft | Steel shank

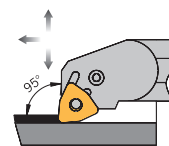
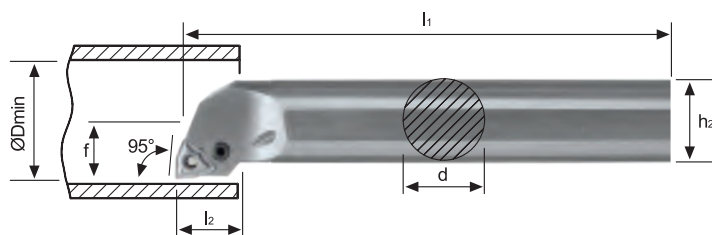
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
A20Q PTFNR/L 11	20	10	19	180	14	13	25	TN... 1103...	0,500	●	191,50
A25R PTFNR/L 16	25	12,5	24	200	17,5	17	32	TN... 1604...	0,700	●	233,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
...20... PTFNR/L 11	-	HP 6051	SP 5751	-	-
...25... PTFNR/L 16	UP 6211	HP 4751	SP 3111	RP 3112	MP 3111

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



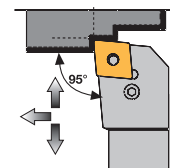
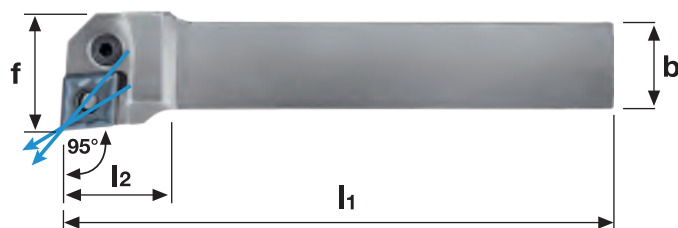
A-PWLN/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	d	h ₂	l ₁	l ₂	f	D _{min}				
A16M PWLN/L 06	16	15,5	150	17,5	11	21	WN... 0604...	0,250	○	156,-
A20Q PWLN/L 06	20	19	180	19,5	13	25		0,500	○	191,50
A25R PWLN/L 06	25	24	200	19,5	17	32		0,700	○	233,-
A32S PWLN/L 08	32	31	250	26	22	40	WN...0804...	1,400	●	261,50

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
... 16-20... PWLN/L 06	-	HP 4753	SP 3113	-	-
... 25... PWLN/L 06	UP 71111	HP 4751	SP 3111	RP 3112	MP 3111
... 32... PWLN/L 08	UP 71011	HP 1111	SP 1111	RP 1111	MP 1111



INCLUDING FREE

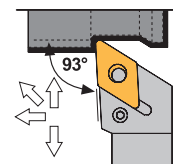
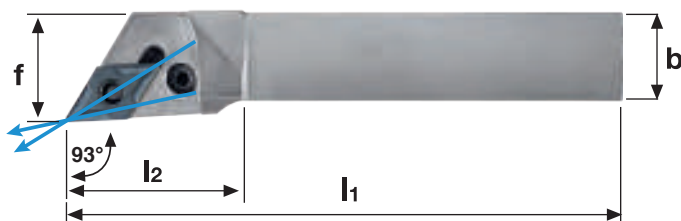


NO SEPARATE SALE



PCLNR/L Stelo in acciaio | *Stahlschaft* | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f		
PCLNR/L 1616 H12 - IK G1/8	16	16	16	100	26,1	20	0,254 ●	220,50
PCLNR/L 2020 K12 - IK G1/8	20	20	20	125	27,4	25	0,428 ●	230,50
PCLNR/L 2525 M12 - IK G1/8	25	25	25	150	28	32	0,751 ●	248,-



INCLUDING FREE



NO SEPARATE SALE

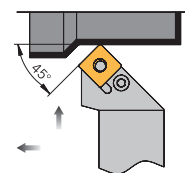
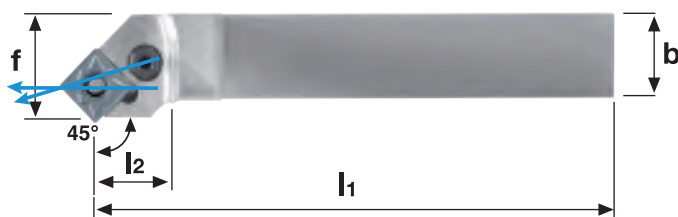


PDJNR/L Stelo in acciaio | *Stahlschaft* | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f		
PDJNR/L 1616 H11 - IK G1/8	16	16	16	100	30	20	0,220 ●	220,50
PDJNR/L 2020 K15 - IK G1/8	20	20	20	125	30	25	0,411 ●	230,50
PDJNR/L 2525 M15 - IK G1/8	25	25	25	150	30	32	0,737 ●	248,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



INCLUDING FREE



NO SEPARATE SALE



PSSNR/L Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f		
PSSNR/L 2020 K12 - IK G1/8	20	20	20	125	29,4	25	0,430	● 230,50
PSSNR/L 2525 M12 - IK G1/8	25	25	25	150	29,3	32	0,760	● 248,-

SNMG
1204...

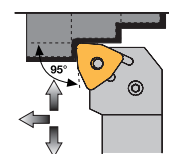
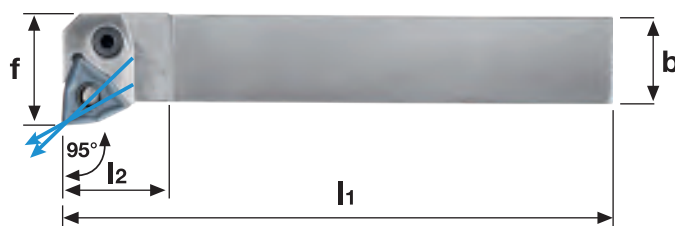
UP
5112

HP
1111

SP
1111

RP
1111

MP
1111



INCLUDING FREE



NO SEPARATE SALE



PWNLR/L Stelo in acciaio | Stahlschaft | Steelshank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f		
PWNLR/L 2020 K08 - IK G1/8	20	20	20	125	25	25	0,420	● 230,50
PWNLR/L 2525 M08 - IK G1/8	25	25	25	150	25	32	0,767	● 248,-

WNMG
0804...

UP
71011

HP
1111

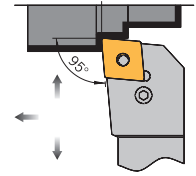
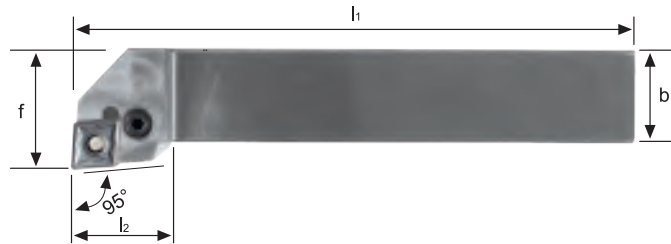
SP
1111

RP
1111

MP
1111

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



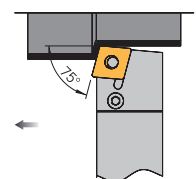
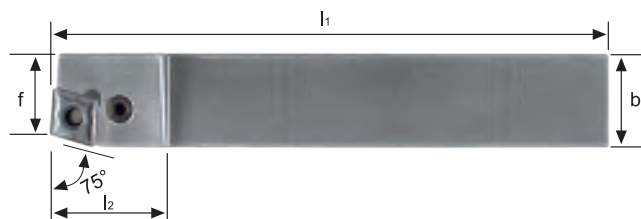
PCLNR/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	h1	h2	b	l1	l2	f				
PCLNR/L 1616 H09	16	16	16	100	23	20,3	CN...0903...	0,220	○	96,-
PCLNR/L 1616 H12	16	16	16	100	26,1	20,3	CN...1204...	0,220	●	96,-
PCLNR/L 2020 K09	20	20	20	125	26	25,3	CN...0903...	0,420	○	98,-
PCLNR/L 2020 K12	20	20	20	125	27,5	25,3	CN...1204...	0,420	●	98,-
PCLNR/L 2525 M09	25	25	25	150	28	32,3	CN...0903...	0,740	○	101,-
PCLNR/L 2525 M12	25	25	25	150	28,1	32,3	CN...1204...	0,740	●	101,-
PCLNR/L 2525 M16	25	25	25	150	32,7	32,3	CN...1606...	0,740	○	101,-
PCLNR/L 3225 P12	32	32	25	170	31,2	32,3	CN...1204...	1,300	●	117,50
PCLNR/L 3232 P16	32	32	32	170	40	40,3	CN...1606...	1,300	○	124,-
PCLNR/L 3232 P19	32	32	32	170	38,2	40,3	CN...1906...	1,300	○	124,-
PCLNR/L 4040 S19	40	40	40	250	40	50,3		1,700	○	175,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
PC... R/L... 09	UP 1115	HP 4751	SP 3111	RP 3112	MP 3111
PC... R/L... 12	UP 1111	HP 1111	SP 1111	RP 1111	MP 1111
PC... R/L... 16	UP 1221	HP 1221	SP 1221	RP 1221	MP 1221
PC... R/L... 19	UP 1321	HP 1321	SP 1321	RP 1321	MP 1321



PCBNR/L

Stelo in acciaio | Stahlschaft | Steel shank

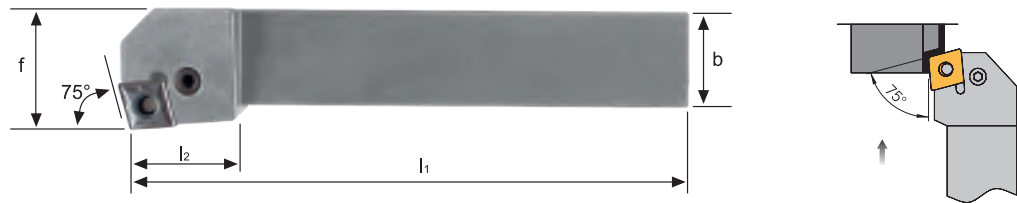
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	h1	h2	b	l1	l2	f				
PCBNR/L 2525 M12	25	25	25	150	27,7	22	CN...1204...	0,740	●	101,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
PC... R/L... 12	UP 1111	HP 1111	SP 1111	RP 1111	MP 1111

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



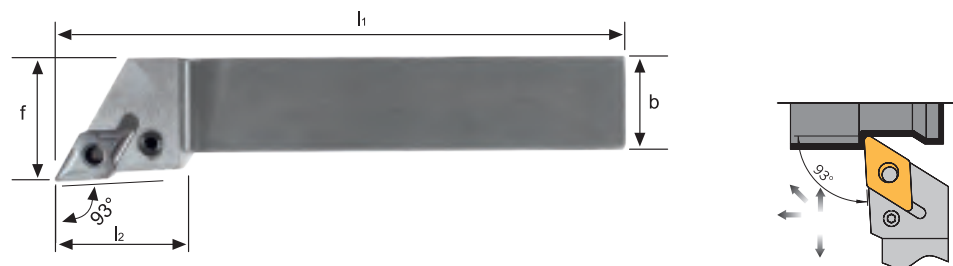
PCKNR/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert		STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f				
PCKNR/L 2020 K12	20	20	125	27,4	25	25	CN... 1204...	0,420	●	101,-
PCKNR/L 2525 M12	25	25	150	28	25	32		0,740	●	101,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
PC... R/L... 12	UP 1111	HP 1111	SP 1111	RP 1111	MP 1111



PDJNR/L

Stelo in acciaio | Stahlschaft | Steel shank

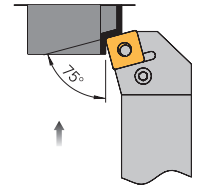
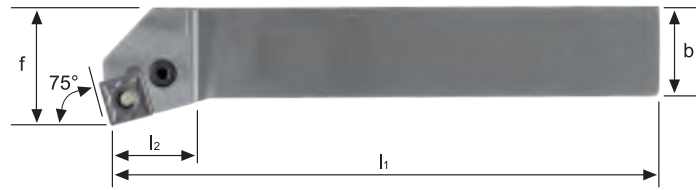
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert		STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f				
PDJNR/L 1616 H11	16	16	16	100	30	20,2	DN... 1104...	0,220	○	96,-
PDJNR/L 2020 K11	20	20	20	125	30	25,2		0,420	○	104,-
PDJNR/L 2020 K15	20	20	20	125	35,4	25,2	DN... 1506...	0,420	●	104,-
PDJNR/L 2525 M11	25	25	25	150	30	32,2	DN... 1104...	0,740	○	104,-
PDJNR/L 2525 M15	25	25	25	150	35,4	32,2	DN... 1506...	0,740	●	104,-
PDJNR/L 3225 P11	32	32	25	170	29,8	32,2	DN... 1104...	1,300	○	116,50
PDJNR/L 3232 P15	32	32	32	170	35,4	40,2	DN... 1506...	1,300	●	136,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
PD... R/L... 11	UP 2011	HP 2011	SP 3111	RP 3112	MP 3111
PD... R/L... 15	UP 2421	HP 2421	SP 1111	RP 1111	MP 1111

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



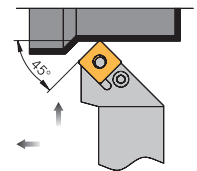
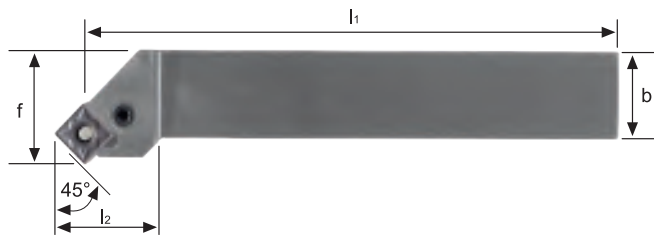
PSKNR/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	h1	h2	b	l1	l2	f				
PSKNR/L 2020 K12	20	20	20	125	20,7	25,3	SN... 1204...	0,420	●	104,-
PSKNR/L 2525 M12	25	25	25	150	24	32,3		0,740	●	104,-
PSKNR/L 2525 M15	25	25	25	150	24,8	32,3	SN... 1506...	0,740	○	104,-
PSKNR/L 3232 P15	32	32	32	170	27,6	40,1		1,300	○	136,-
PSKNR/L 3232 P19	32	32	32	170	37,4	40,3	SN... 1906...	1,300	○	136,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
PS... R/L... 12	UP 5112	HP 1111	SP 1111	RP 1111	MP 1111
PS... R/L... 15	UP 5421	HP 1221	SP 1221	RP 1221	MP 1221
PS... R/L... 19	UP 5321	HP 1321	SP 1321	RP 1321	MP 1321



PSSNR/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	h1	h2	b	l1	l2	f				
PSSNR/L 2020 K12	20	20	20	125	29,4	25,3	SN... 1204...	0,420	●	104,-
PSSNR/L 2525 M12	25	25	25	150	29,3	32,3		0,740	●	104,-
PSSNR/L 2525 M15	25	25	25	150	32,5	32,3	SN... 1506...	0,740	○	104,-
PSSNR/L 3232 P15	32	32	32	170	32,5	40,3		1,300	○	136,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
PS... R/L... 12	UP 5112	HP 1111	SP 1111	RP 1111	MP 1111
PS... R/L... 15	UP 5421	HP 1221	SP 1221	RP 1221	MP 1221

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



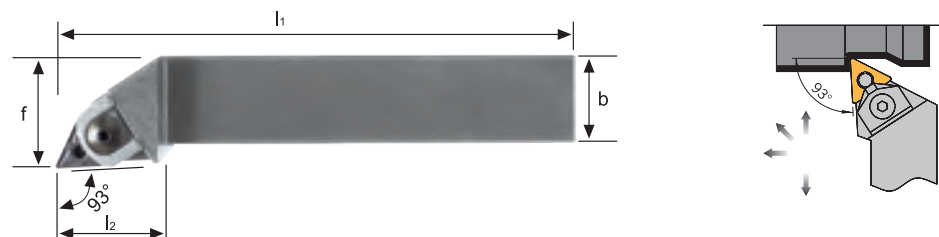
PWLNR/L

Stelo in acciaio | Stahlschaft | Steel shank

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f				
PWLNR/L 1616 H06	16	16	16	100	20	23	WN... 0604...	0,220	○	96,-
PWLNR/L 2020 K06	20	20	20	125	22	25	WN... 0804...	0,420	○	104,-
PWLNR/L 2020 K08	20	20	20	125	22	25	WN... 0804...	0,420	●	104,-
PWLNR/L 2525 M06	25	25	25	150	22,4	32	WN... 0604...	0,740	○	104,-
PWLNR/L 2525 M08	25	25	25	150	22,4	32	WN... 0804...	0,740	●	104,-
PWLNR/L 3225 P08	32	32	25	170	22	32	WN... 0804...	1,300	●	116,50

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Supporto Unterlage Support pad	Leva Hebel Lever	Vite di fissaggio Klemmschraube Clamping screw	Spina supporto Rohrstift Shim pin	Punzone Montagedorn Shim pin punch
PW... R/L... 06	UP 71111	HP 4751	SP 3111	RP 3112	MP 3111
PW... R/L... 08	UP 71011	HP 1111	SP 1111	RP 1111	MP 1111



MTJNR/L

Stelo in acciaio | Stahlschaft | Steel shank

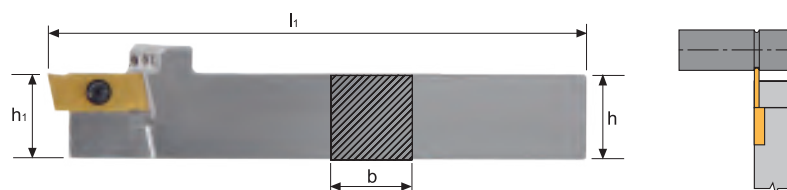
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)						Inserto Wendeschneidplatte Indexable insert	kg	STOCK	PRICELIST €
	h ₁	h ₂	b	l ₁	l ₂	f				
MTJNR/L 2020 K16	20	20	20	125	35	25	TN... 1604...	0,420	●	98,-
MTJNR/L 2525 M16	25	25	25	150	32	32	TN... 1604...	0,740	●	107,-

Ricambi | Ersatzteile | Spare parts

PER ARTICOLO Für Artikel-Nr. For Article No.	Staffa ¹ Klemme Clamp	Staffa cuneo ¹ Keilstück Wedge	Supporto Unterlage Support pad	Spina Passstift Pin
MT... R/L... 16	GS1	P1	E1	G1

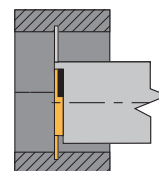
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

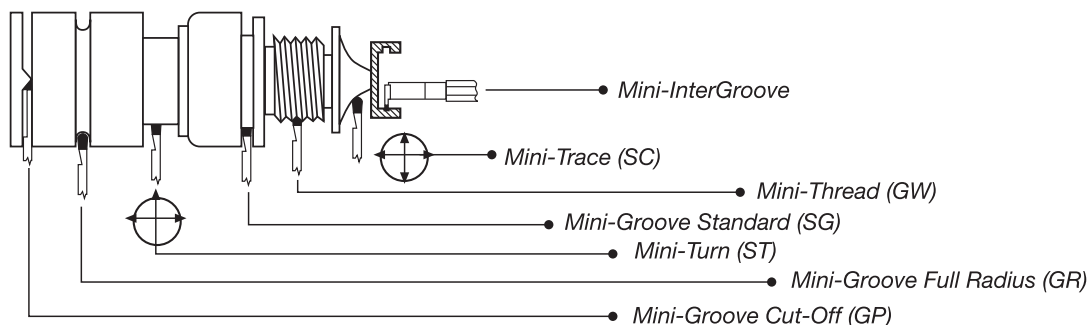


CODICE ORDINE Bestell-Nr. Order No.		DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €
		h ₁	h	b	l ₁						
THE-7-1010 R/LIK G1/8		10	10	10	120	GIE... GP-ST-SG-GR-GW	VT 30-G	BT08	0,060	○	202,-
THE-7-1212 R/LIK G1/8		12	12	12	120				0,090	○	202,-
THE-7-1616 R/LIK G1/8		16	16	16	120				0,220	○	228,50
THE-7-0808 R/L	08	08	08	100	0,040				○	151,50	
THE-7-1010 R/L	10	10	10	120	0,060				●	151,50	
THE-7-1212 R/L	12	12	12	120	0,090				●	151,50	
THE-7-1616 R/L	16	16	16	120	0,220				●	165,50	
THE-7-2020 R/L	20	20	20	120	0,420				●	229,-	
THE-7-2525 R/L	25	25	25	120	0,740	○	241,50				
Utensili per macchine svizzere											
THS-7-0808 R/L		08	08	08	140	GIE... GP-ST-SG-GR-GW	VT 30-G	BT08	0,040	○	210,50
THS-7-1010 R/L		10	10	10	150				0,060	○	210,50

Technical drawing of a shaft-hub assembly. The side view shows a shaft of diameter $\varnothing d$ inserted into a hub. The hub has a total height H . The shaft is secured with a pin of length f . The dimensions l_1 , l_2 , and l_3 are indicated along the shaft. The end view shows the shaft diameter $\varnothing d$ and the minimum diameter D_{min} of the hub bore.



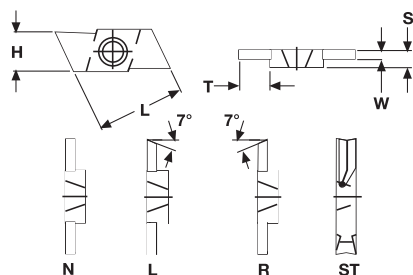
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
ØD	Ød	f	H	l ₁	l ₂	l ₃							
THI-7-20 R/L	38,1	20	13,34	195	140	25	50	GIE- GP-ST-SG-GR-GW	VT 30-G	BT08	0,220	●	255,-
THI-7-25 R/L	38,1	25	13,34	195	150	32	63				0,420	○	277,50
THI-7-32 R/L	38,1	32	13,34	195	150	32	63				0,740	○	292,50



- A richiesta – Auf Anfrage – On request

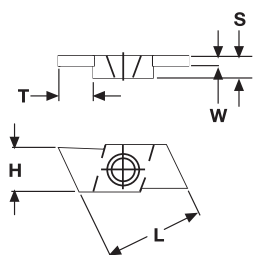
GIE

Inserti per scanalatura e taglio - Drehen und Stechen - Grooving and Turning



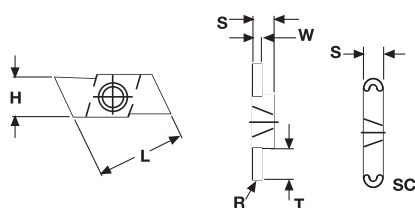
Articolo - Artikel	W ⁺⁰² ₋₀	T	H	S	L	TIN	PRICELIST €
GIE-7-GP-1,0 R/L N	1	6	7	2	17	○	45,10
GIE-7-GP-1,0 R/L R/L	1	6	7	2	17	○	45,10
GIE-7-GP-1,5 R/L N	1,5	6	7	2	17	○	45,10
GIE-7-GP-1,5 R/L R/L	1,5	6	7	2	17	○	45,10
GIE-7-GP-2 R/L N	2	6	7	2	17	○	45,10
GIE-7-GP-2 R/L R/L	2	6	7	2	17	○	45,10
GIE-7-ST-3,0 R/L	3,17	6	7	3,17	17	○	49,-

Inserti per scanalatura per anelli - Stechen - Grooving



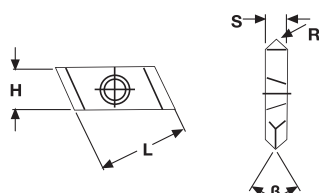
Articolo - Artikel	W ⁺⁰² ₋₀	T	H	S	L	TIN	PRICELIST €
GIE-7-SG-0,5 R/L	0,5	2,54	7	2	17	●	45,10
GIE-7-SG-0,7 R/L	0,7	2,54	7	2	17	●	45,10
GIE-7-SG-0,8 R/L	0,8	2,54	7	2	17	●	45,10
GIE-7-SG-0,9 R/L	0,9	2,54	7	2	17	●	45,10
GIE-7-SG-1,1 R/L	1,1	6	7	2	17	●	45,10
GIE-7-SG-1,3 R/L	1,3	6	7	2	17	●	45,10
GIE-7-SG-1,6 R/L	1,6	6	7	2	17	●	45,10
GIE-7-SG-1,85 R/L	1,85	6	7	2	17	●	45,10

Inserti per scanalatura raggiata e profilatura - Vollradiusaustrohung - Full radius execution



Articolo - Artikel	W ⁺⁰² ₋₀	B	T	H	S	L	TIN	PRICELIST €
GIE-7-GR-1 R/L	1	0,5	6	7	2	17	○	45,10
GIE-7-GR-1,5 R/L	1,5	0,75	6	7	2	17	○	45,10
GIE-7-GR-2 R/L	2	1	6	7	2	17	○	45,10
GIE-7-SC-3 R/L	3,17	1,585	6	7	3,17	17	○	45,10

Inserti per filettare - Gewindedrehen - Threading

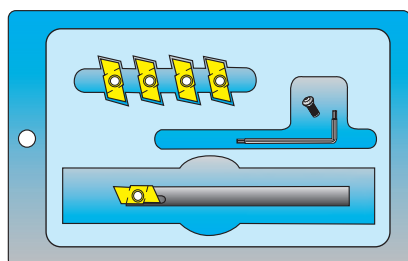


Articolo - Artikel	B	R	H	S	L	TIN	PRICELIST €
GIE-7-GW-60 R/L	60°	0,1	7	2	17	○	45,10
GIE-7-GW-55 R/L	55°	0,12	7	2	17	○	45,10

SET MINI GROOVE

CODICE
ORDINE
Bestell-Nr.
Order No.

SET 05-GIE



Contenuto del Set
Inhalt pro Set
Set Content



TIN

PRICELIST
€

N° 1 UTENSILE THE-7-1212-R
N° 1 INSERTO GIE-7-SG-0,9 LTIN
N° 1 INSERTO GIE-7-SG-1,1 LTIN
N° 1 INSERTO GIE-7-SG-1,3 LTIN
N° 1 INSERTO GIE-7-SG-1,6 LTIN
N° 1 INSERTO GIE-7-SG-1,85 LTIN

0,170

●

358,50

(*) SG = scanalatura standard GP = scanalatura e taglio GR = scanalatura raggiata GW = filettatura ST = tornitura SC = profilatura
SG = standard grooving GP = grooving and cutoff GR = grooving full radius GW = threading ST = turning SC = tracing

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



SET A - SCLCR/L 06

No. 1 A 0608H SCLCR/L 06
No. 1 A 0810J SCLCR/L 06
No. 1 A 1012K SCLCR/L 06
No. 1 A 1216M SCLCR/L 06



SET A - SDUCR/L 07

No. 1 A 0810H SDUCR/L 07
No. 1 A 1012K SDUCR/L 07
No. 1 A 1216M SDUCR/L 07



SET A - SDQCR/L 07

No. 1 A 0810H SDQCR/L 07
No. 1 A 1012K SDQCR/L 07
No. 1 A 1216M SDQCR/L 07



SET A - SWUCR/L 02

No. 1 A 0508H SWUCR/L 02
No. 1 A 0608H SWUCR/L 02



SET AH - SCLCR/L 06

No. 1 AH 0608H SCLCR/L 06
No. 1 AH 0810J SCLCR/L 06
No. 1 AH 1012K SCLCR/L 06
No. 1 AH 1216M SCLCR/L 06



SET AH - SDUCR/L 07

No. 1 AH 0810H SDUCR/L 07
No. 1 AH 1012K SDUCR/L 07
No. 1 AH 1216M SDUCR/L 07



SET E SV.CR/L 05 + 20 WP 05

No. 1 E08F SVLCR/L 05
No. 1 E08F SVXCR/L 05
No. 1 E08F SVVCR/L 05
No. 1 E08F SV95CR/L 05
No. 10 VCGT 050102 FN-ALU K15
No. 10 VCGT 050102 EN-PM1 K400



SET E SV.CR/L 07 + 20 WP VC07

No. 1 E10H SVLCR/L 07
No. 1 E10H SVXCR/L 07
No. 1 E10H SVVCR/L 07
No. 1 E10H SV95CR/L 07
No. 10 VCGT 070202FN-ALU K15
No. 10 VCMT 070202EN-PM1 K400



SET E SCLCR/L 06

No. 1 E08K SCLCR/L 06
No. 1 E10K SCLCR/L 06
No. 1 E12M SCLCR/L 06



SET E SDUCR/L 07

No. 1 E10K SDUCR/L 07
No. 1 E12M SDUCR/L 07



SET C SCLCR/L 03

No. 1 C04G SCLCR/L 03
No. 1 C05H SCLCR/L 03
No. 1 E06J SCLCR/L 03



SET E - SWUCR/L 02

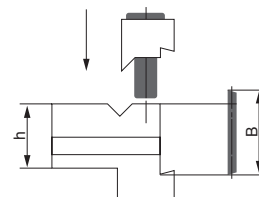
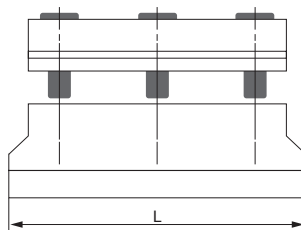
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No. 1 E 0608H SWUCR/L 02

GROOVING



HIGH QUALITY TOOLS



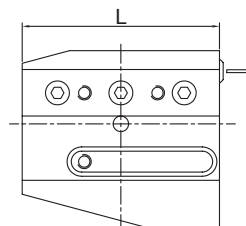
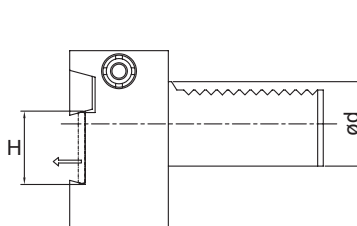


NEW GETB

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				STOCK	PRICELIST €
	h	L	B	kg		
GETB 1910	10	76	19	0,200	●	258,-
GETB 1912	12	76	19	0,250	●	258,-
GETB 1916	16	76	19	0,300	●	258,-
GETB 2620	20	87	26	0,600	●	266,-
GETB 2625	25	87	26	0,700	●	285,-
GETB 3220	20	100	32	0,800	●	270,-
GETB 3225	25	110	32	1,000	●	290,-
GETB 3232	32	120	32	1,300	●	295,-

GROOVING

Base VDI con lubrificazione | VDI Grundhalter mit IK | VDI Tool holder with IC



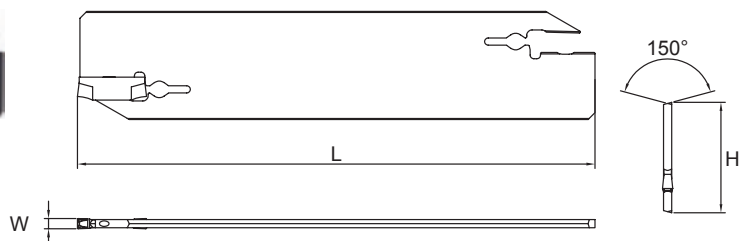
NEW GEGB



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				STOCK	PRICELIST €
	ø d	L	H	kg		
GEGB VDI30/26 COOL	30	70	26	1,300	●	996,-
GEGB VDI30/32 COOL	30	70	32	1,300	●	996,-
GEGB VDI40/32 COOL	40	85	32	2,150	●	996,-

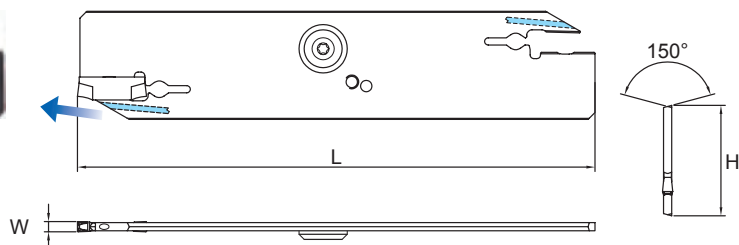
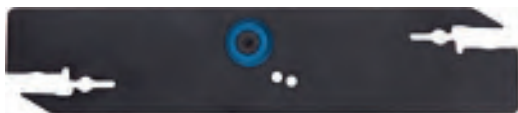
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



NEW GECB

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)					STOCK	PRICELIST €
	W	H	L				
GECB 1920 S	2,0	19	86	GELCG..192002...	0,040	●	119,-
GECB 2620 S	2,0	26	110		0,050	●	128,-
GECB 2630 S	3,0	26	110	GELCG..193002...	0,060	●	128,-
GECB 3230 S	3,0	32	150		0,090	●	144,-
GECB 2640 S	4,0	26	110	GELCG..234002...	0,100	●	128,-
GECB 3240 S	4,0	32	150		0,100	●	144,-



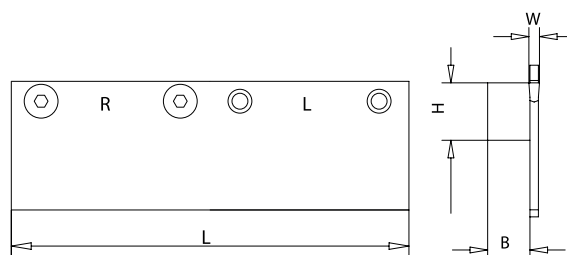
NEW GECB COOL



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €
	W	H	L							
GECB 2620 S COOL	2,0	26	110	VT40SL	GESL	BT15	GELCG..192002...	0,050	●	246,-
GECB 2630 S COOL	3,0	26	110				GELCG..193002...	0,060	●	246,-
GECB 3230 S COOL	3,0	32	150				GELCG..193002...	0,090	●	268,-
GECB 2640 S COOL	4,0	26	110				GELCG..234002...	0,100	●	246,-
GECB 3240 S COOL	4,0	32	150				GELCG..234002...	0,100	●	268,-

● Disponibile - Lieferbar - On stock

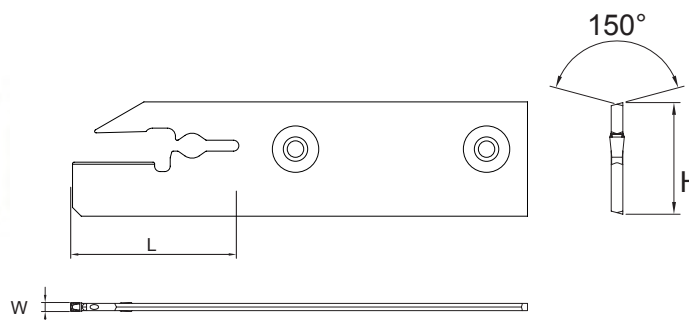
○ A richiesta - Auf Anfrage - On request



NEW GEBHM

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)			Scanalatura consigliata Empfohlene Stechbreite				STOCK	PRICELIST €
	H	B	L						
GEBHM1010N	10	10	100	2	VT50 BHM	3.00mm	0,080	●	130,-
GEBHM1212N	12	12	100	2			0,110	●	135,-
GEBHM1616N	16	16	100	2 / 3			0,200	●	139,-
GEBHM2020N	20	20	100	2 / 3 / 4			0,300	●	149,-
GEBHM2525N	25	25	100	2 / 3 / 4			0,400	●	175,-

Lama | Stechschwerter | Blade



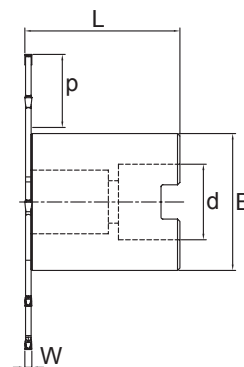
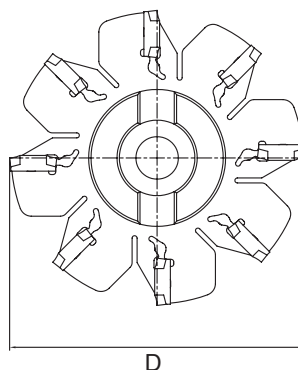
NEW GECBM

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				STOCK	PRICELIST €
	W	L				
GECBM2N	2,0	20	GELCG..192002...	0,030	●	84,-
GECBM3N	3,0	25	GELCG..193002...	0,040	●	84,-
GECBM4N	4,0	30	GELCG..234002...	0,050	●	84,-



● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



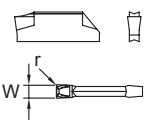
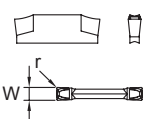
NEW GEDM

CODICE ORDINE Bestell-Nr. Order No.	Ø D	L	W	p	Ø B	d	Z			STOCK	PRICELIST €
GEDM 08020 Z4 ST *	80	39,9	2,0	25	29	M16	4			●	1058,-
GEDM 10020 Z6 SA	100	51,9	2,0	28	40	22	6			●	1221,-
GEDM 12520 Z8 SA	125	51,9	2,0	36	48	27	8			●	1319,-
GEDM 16020 Z10 SA	160	64,9	2,0	39	80	40	10			●	1566,-
GEDM 08030 Z4 ST *	80	40,7	3,0	25	29	M16	4			●	1081,-
GEDM 10030 Z6 SA	100	52,7	3,0	28	40	22	6			●	1242,-
GEDM 12530 Z8 SA	125	52,7	3,0	36	48	27	8			●	1350,-
GEDM 16030 Z10 SA	160	65,7	3,0	39	80	40	10			●	1594,-
GEDM 12540 Z6 SA	125	53,5	4,0	37,5	48	27	6			●	1296,-
GEDM 16040 Z8 SA	160	66,5	4,0	39	80	40	8			●	1472,-

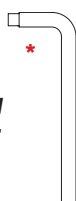
* Gambo filettato
Schaftausführung Gewinde
Threaded shank

Inserti | Wechselplatten | Inserts

Inserto unico per tutto il programma | Ein Wendeplatte fuer gesamtes Programm | One insert for whole programme

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions			Denominazione Bezeichnung Designation	Alu Beschichtet K15X	Rivestiti Beschichtet Coated						CERMET	
		W	r	Taglienti Schneide Cutting edge			P200	P300	K300	K400	TIN PVD	TIALN PVD	X99	X55
		2,0	0,2	1	GELCGS 192002	● 15,-		● 15,-	● 15,-					
		3,0	0,2	1	GELCGS 193002	● 16,-		● 16,-	● 16,-					
		4,0	0,2	1	GELCGS 234002	● 17,-		● 17,-	● 17,-					
		2,0	0,2	2	GELCGD 192002	● 18,-		● 18,-	● 18,-					
		3,0	0,2	2	GELCGD 193002	● 19,-		● 19,-	● 19,-					
		4,0	0,2	2	GELCGD 234002	● 20,-		● 20,-	● 20,-					

Chiave
Schlüssel
Spanner



CODICE ORDINE
Bestell-Nr.
Order No.

PRICELIST
€

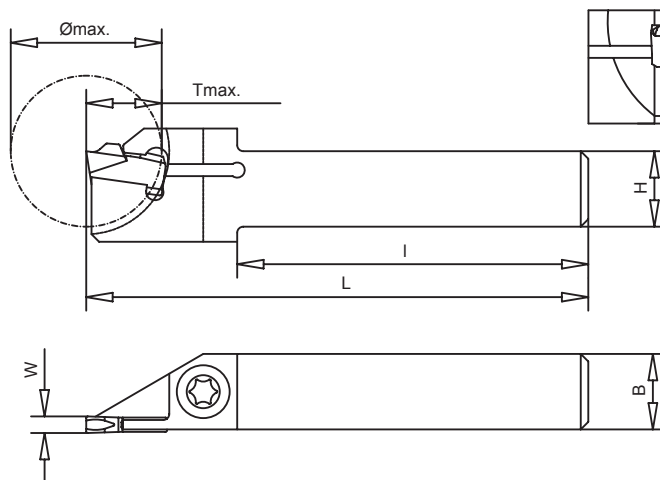
GE KEY

15,50

* Chiave non inclusa. Da ordinare separatamente.
Schlüssel nicht eingeschlossen. Separat bestellen.
Key not included. To be ordered separately.

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



NEW GETHSR/L

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				Scanalatura Stechbreite	Ø max					STOCK	PRICELIST €
	H	B	L	I								
GETHSR0808-1.6	8	8	130	110	1.6	20					0,050	○ 186,-
GETHSL0808-1.6	8	8	130	110	1.6	20	GETCISN	VT40 THS	BT15		0,050	○ 186,-
GETHSR1010-1.6	10	10	130	110	1.6	20	GETCISR6°				0,070	○ 190,-
GETHSL1010-1.6	10	10	130	110	1.6	20	GETCISL6°				0,070	○ 190,-
GETHSR1212-1.6	12	12	130	110	1.6	20	1.6...				0,160	○ 194,-
GETHSL1212-1.6	12	12	130	110	1.6	20					0,160	○ 194,-
GETHSR1010-2.2	10	10	130	110	2.2	20	GETCISN	VT50 THS	BT20		0,070	○ 190,-
GETHSL1010-2.2	10	10	130	110	2.2	20	GETCISR6°				0,070	○ 190,-
GETHSR1212-2.2	12	12	130	110	2.2	20	GETCISL6°				0,160	○ 194,-
GETHSL1212-2.2	12	12	130	110	2.2	20	2.2...				0,160	○ 194,-

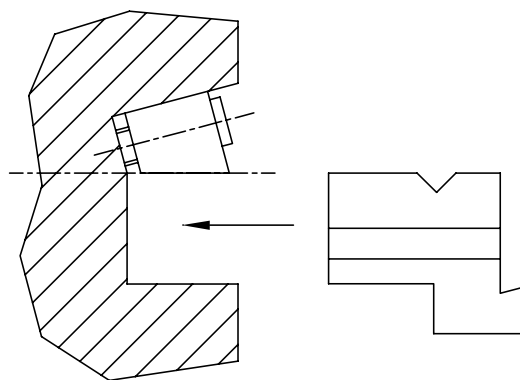


Inserti | Wechselplatten | Inserts

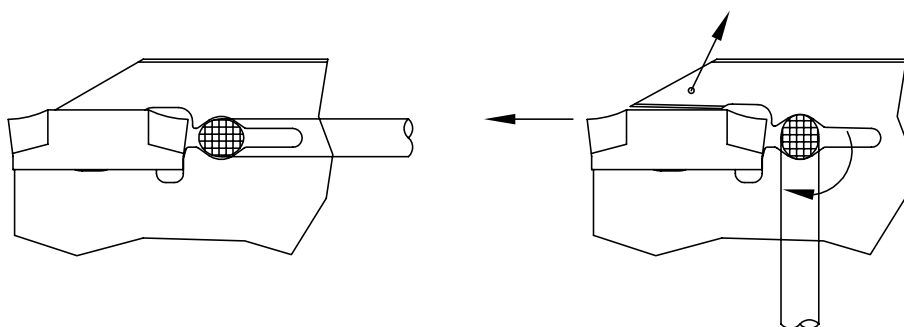
CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions		Denominazione Bezeichnung Designation	Alu Beschichtet	Rivestiti Beschichtet Coated						CERMET	
		W	r			P200	P300	K300	K400	TIN PVD	TIALN PVD	X99	X55
		1,6	0,15	GETCISN1.6				○ 17,-					
		2,2	0,2	GETCISN2.2				○ 18,-					
		1,6	0,03	GETCISR6°-1.6				○ 17,-					
		2,2	0,03	GETCISR6°-2.2				○ 18,-					
		1,6	0,03	GETCISL6°-1.6				○ 17,-					
		2,2	0,03	GETCISL6°-2.2				○ 18,-					

● Disponibile - Lieferbar - On stock

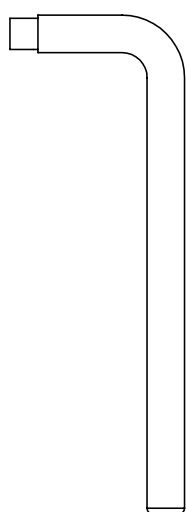
○ A richiesta - Auf Anfrage - On request



base holder assembly instruction



instruction for changing the inserts



assembly-key

MC DRILLS



HIGH QUALITY TOOLS

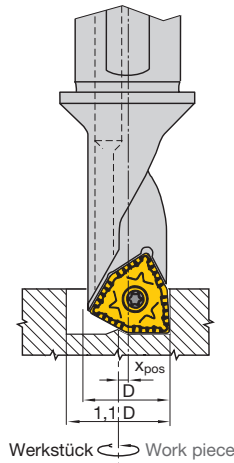
Punte ad Inserti Multifunzione | Multifunktion Wendeplattenvollbohrer | Multi-function Indexable insert Drilling Tool

Technische Hinweise Technical hints

Weitere Konstruktionsmerkmale und Vorteile
Additional features and application possibilities

Nebenschneide einsetzbar
Secondary cutting edge can be used

Bohren ins Volle außer der Mitte, positiver Versatz Drilling off center, positive offset



X_{pos} : Versatz aus der Mitte positiv
Offset, positive

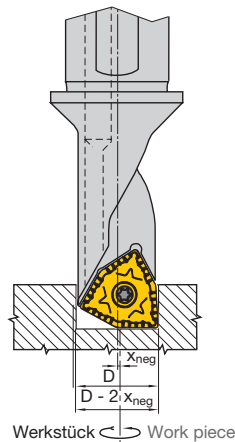
D: Nenndurchmesser Werkzeug
Nominal tool diameter

Stahl
Steel $X_{pos} = \frac{(1,1 \times D) - D}{2}$

Aluminium
Aluminium $X_{pos} = \frac{(1,5 \times D) - D}{2}$

Werkzeug Tool	D	Stahl Steel		Aluminium Aluminium	
		D_{max}	x_{pos}	D_{max}	x_{pos}
2,25D/1,50D					
PTR/L 08 -x,xxD- 04	08H13	8,8	0,40	12,0	2,00
PTR/L 10 -x,xxD- 05	10H13	11,0	0,50	15,0	2,50
PTR/L 11 -x,xxD- 06	11H13	12,1	0,55	16,5	2,75
PTR/L 15 -x,xxD- 07	15H13	16,5	0,75	22,5	3,75
PTR/L 18 -x,xxD- 09	18H13	19,8	0,90	27,0	4,50
PTR/L 20 -x,xxD- 10	20H13	22,0	1,00	30,0	5,00
PTR/L 26 -x,xxD- 13	26H13	28,6	1,30	39,0	6,50

Bohren ins Volle außer der Mitte, negativer Versatz Drilling off center, negative offset



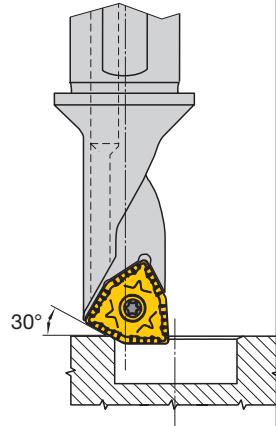
X_{neg} : Versatz aus der Mitte negativ
Offset, negative

D: Nenndurchmesser Werkzeug
Nominal tool diameter

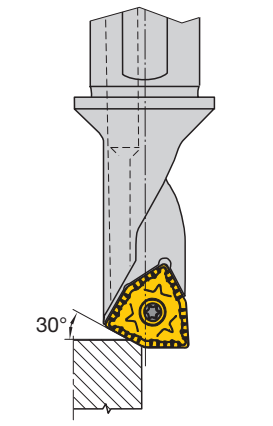
$$X_{neg} = \frac{D_{min} - D}{2}$$

Werkzeug Tool	D	D_{min}	x_{neg}
2,25D/1,50D			
PTR/L 08 -x,xxD- 04	08H13	7,8	0,10
PTR/L 10 -x,xxD- 05	10H13	9,8	0,10
PTR/L 11 -x,xxD- 06	11H13	10,8	0,10
PTR/L 15 -x,xxD- 07	15H13	14,7	0,15
PTR/L 18 -x,xxD- 09	18H13	17,7	0,15
PTR/L 20 -x,xxD- 10	20H13	19,7	0,15
PTR/L 26 -x,xxD- 13	26H13	25,7	0,15

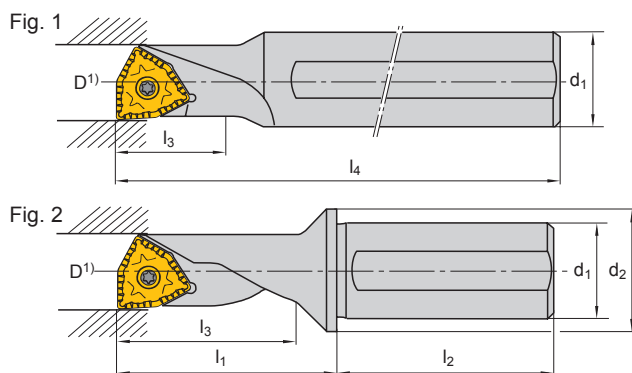
Anfasen innen Internal chamfering



Anfasen außen External chamfering



Punte ad Inserti Multifunzione | Multifunktion Wendeplattenvollbohrer | Multi-function Indexable insert Drilling Tool



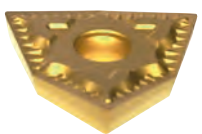
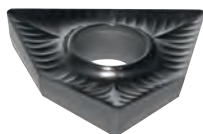
ART. PTR/L

CODICE ORDINE Bestell-Nr. Order No.	Fig.	D ¹⁾	d ₁	d ₂	l ₁	l ₂	l ₃	l ₄			STOCK	PRICELIST €
PTR/L 08 - 1,50D-04	1	8	12	-	-	-	12,0	80	WCHX 04...	0,030	●	219,50
PTR/L 08 - 2,25D-04	2	8	10	12	22,5	38	18,0	-	WCHX 04...	0,050	●	232,-
PTR/L 10 - 1,50D-05	1	10	12	-	-	-	15,0	90	WCHX 05...	0,040	●	223,50
PTR/L 10 - 2,25D-05	2	10	12	16	28	42	22,5	-	WCHX 05...	0,060	●	241,50
PTR/L 11 - 1,50D-06	1	11	16	-	-	-	16,5	100	WCHX 06...	0,080	●	223,50
PTR/L 11 - 2,25D-06	2	11	16	20	32	45	24,75	-	WCHX 06...	0,130	●	241,50
PTR/L 15 - 1,50D-07	1	15	20	-	-	-	22,5	125	WCHX 07...	0,150	●	263,50
PTR/L 15 - 2,25D-07	2	15	20	25	43	50	33,75	-	WCHX 07...	0,240	●	272,50
PTR/L 18 - 1,50D-09	1	18	25	-	-	-	27,0	135	WCHX 09...	0,280	●	267,50
PTR/L 18 - 2,25D-09	2	18	25	32	53	56	40,5	-	WCHX 09...	0,400	●	285,50
PTR/L 20 - 1,50D-10	1	20	25	-	-	-	30,0	150	WCHX 10...	0,290	●	272,50
PTR/L 20 - 2,25D-10	2	20	25	32	56	56	45,0	-	WCHX 10...	0,460	●	285,50
PTR/L 26 - 1,50D-13	1	26	32	-	-	-	39,0	180	WCHX 13...	0,570	●	342,50
PTR/L 26 - 2,25D-13	2	26	32	40	73	60	58,5	-	WCHX 13...	0,910	●	364,-

Ricambi | Ersatzteile | Spare parts

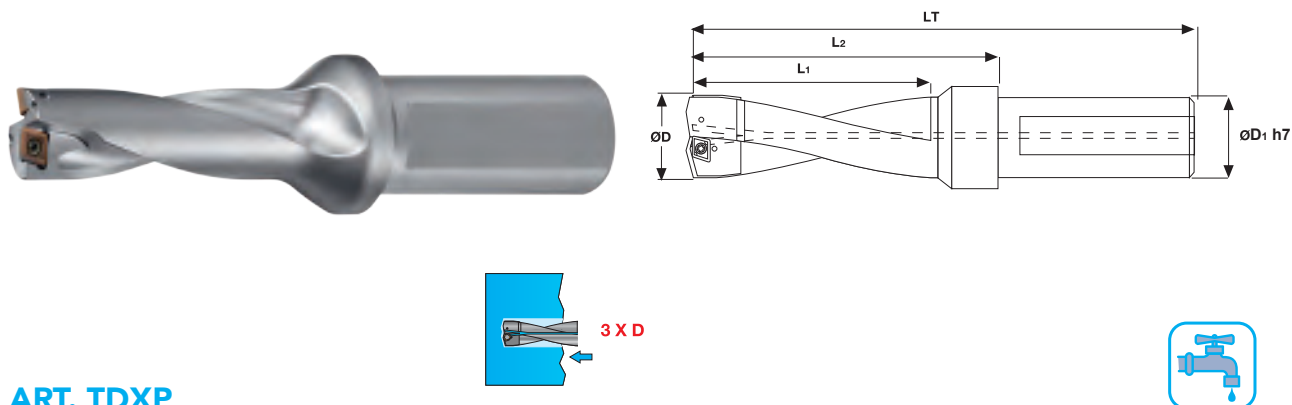
PER ARTICOLO Für Artikel-Nr. For Article No.			Torx Torx Torx	Momento torsione Anzugsmoment Torque [Ncm]
PTR/L 08	A02-20033	V04-T0600	06	62
PTR/L 10	A13-25042	V04-T0800	08	128
PTR/L 11	A13-25050	V04-T0800	08	128
PTR/L 15	A13-30073	V04-T0800	08	180
PTR/L 18	A02-35082	V04-T1500	15	345
PTR/L 20	A06-50088	V04-T2000	20	1020
PTR/L 26	A02-60120	V04-T2500	25	1750

Inserti | Wendeplatten | Inserts

P300	K400	K15
		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

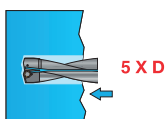
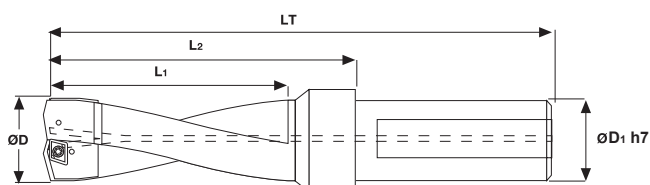


ART. TDXP

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)					STOCK	PRICELIST €
	ØD	ØD1	LT	L1	L2		
TDXP 140-30 R	14	20	104	43	60	BT06	0,380 ● 354,-
TDXP 150-30 R	15	20	107	46	63		0,380 ● 354,-
TDXP 160-30 R	16	20	110	49	66		0,380 ● 354,-
TDXP 170-30 R	17	20	113	52	69		0,380 ● 354,-
TDXP 180-30 R	18	20	116	55	72		0,380 ● 354,-
TDXP 190-30 R	19	25	134	58	78	BT07	0,380 ● 354,-
TDXP 200-30 R	20	25	137	61	81		0,390 ● 354,-
TDXP 210-30 R	21	25	140	64	84		0,410 ● 354,-
TDXP 220-30 R	22	25	143	67	87		0,410 ● 354,-
TDXP 230-30 R	23	25	146	70	90		0,420 ● 368,-
TDXP 240-30 R	24	25	149	73	93	BT08	0,420 ● 382,-
TDXP 250-30 R	25	25	152	76	96		0,460 ● 382,-
TDXP 260-30 R	26	25	155	79	99		0,480 ● 382,-
TDXP 270-30 R	27	25	158	82	102		0,500 ● 382,-
TDXP 280-30 R	28	25	161	85	105		0,530 ● 382,-
TDXP 290-30 R	29	32	170	88	110	BT15	0,550 ● 382,-
TDXP 300-30 R	30	32	173	91	113		0,850 ● 415,-
TDXP 310-30 R	31	32	176	94	116		0,870 ● 415,-
TDXP 320-30 R	32	32	179	97	119		0,880 ● 415,-
TDXP 330-30 R	33	32	182	100	122		0,910 ● 415,-
TDXP 340-30 R	34	32	185	103	125	BT20	0,950 ● 415,-
TDXP 350-30 R	35	32	188	106	128		0,980 ● 433,-
TDXP 360-30 R	36	32	191	109	131		1,020 ● 484,50
TDXP 370-30 R	37	32	194	112	134		1,060 ● 484,50
TDXP 380-30 R	38	32	197	115	137		1,090 ● 484,50
TDXP 390-30 R	39	32	200	118	140	BT25	1,130 ● 484,50
TDXP 400-30 R	40	32	203	121	143		1,180 ● 484,50
TDXP 410-30 R	41	32	206	124	146		1,230 ● 484,50
TDXP 420-30 R	42	40	220	127	150		1,270 ● 484,50
TDXP 430-30 R	43	40	223	130	153		1,310 ● 484,50
TDXP 440-30 R	44	40	226	133	156	BT25	1,350 ● 522,-
TDXP 450-30 R	45	40	229	136	159		1,910 ● 522,-
TDXP 460-30 R	46	40	240	139	170		1,930 ● 522,-
TDXP 470-30 R	47	40	243	141	173		2,020 ● 522,-
TDXP 480-30 R	48	40	246	144	176		2,090 ● 545,50
TDXP 490-30 R	49	40	249	147	179	BT25	2,120 ● 545,50
TDXP 500-30 R	50	40	252	150	182		2,220 ● 545,50
TDXP 510-30 R	51	40	255	153	185		2,270 ● 545,50
TDXP 520-30 R	52	40	258	156	188		2,320 ● 545,50
TDXP 530-30 R	53	40	261	159	191		2,520 ● 545,50
TDXP 540-30 R	54	40	264	162	194	BT25	2,570 ● 545,50
TDXP 550-30 R	55	40	267	165	197		2,820 ● 545,50

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

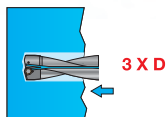
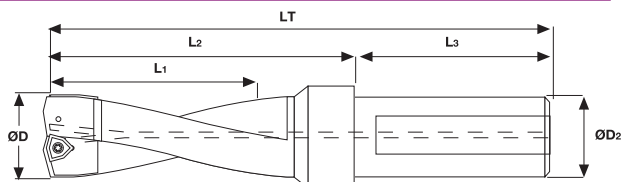


ART. TDXP

CODICE ORDINE Bestell-Nr. Order No.		DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
		ØD	ØD ₁	LT	L ₁	L ₂						
5 X D	TDXP 140-50 R	14	20	132	71	88	XPMT 042004 ...	BFTX 01604N	BT06	0,420	●	405,50
	TDXP 150-50 R	15	20	137	76	93				0,420	●	405,50
	TDXP 160-50 R	16	20	142	81	98	XPMT 052804 ...	BFTX 0204N		0,420	●	405,50
	TDXP 170-50 R	17	20	147	86	103				0,420	●	405,50
	TDXP 180-50 R	18	20	152	91	108	BT07	0,420		●	405,50	
	TDXP 190-50 R	19	25	172	96	116		0,420	●	405,50		
	TDXP 200-50 R	20	25	177	101	121		XPMT 063306 ...	BFTX 02206N	0,500	●	405,50
	TDXP 210-50 R	21	25	182	106	126				0,550	●	405,50
	TDXP 220-50 R	22	25	187	111	131		BT08	0,550	●	405,50	
	TDXP 230-50 R	23	25	192	116	136	0,570		●	419,50		
	TDXP 240-50 R	24	25	197	121	141	XPMT 074006 ...		BFTX 02506N	0,570	●	437,50
	TDXP 250-50 R	25	25	202	126	146				0,590	●	437,50
	TDXP 260-50 R	26	25	207	131	151	BT15		0,600	●	437,50	
	TDXP 270-50 R	27	25	212	136	156		0,620	●	437,50		
	TDXP 280-50 R	28	25	217	141	161		XPMT 094508 ...	BFTX 03584	0,650	●	437,50
	TDXP 290-50 R	29	32	228	146	168				0,670	●	437,50
	TDXP 300-50 R	30	32	233	151	173		BT20	0,950	●	475,50	
	TDXP 310-50 R	31	32	238	156	178	XPMT 094508 ...		BFTX 03584	0,970	●	475,50
	TDXP 320-50 R	32	32	243	161	183				0,990	●	475,50
	TDXP 330-50 R	33	32	248	166	188	BT25		1,000	●	475,50	
	TDXP 340-50 R	34	32	253	171	193			1,050	●	475,50	
	TDXP 350-50 R	35	32	258	176	198		XPMT 125812 ...	BFTX 0511N	1,100	●	494,-
	TDXP 360-50 R	36	32	263	181	203				1,300	●	544,-
	TDXP 370-50 R	37	32	268	186	208		BT20	1,300	●	544,-	
	TDXP 380-50 R	38	32	273	191	213	XPMT 125812 ...		BFTX 0511N	1,400	●	544,-
	TDXP 390-50 R	39	32	278	196	218				1,400	●	544,-
	TDXP 400-50 R	40	32	283	201	223	BT20		1,500	●	544,-	
	TDXP 410-50 R	41	32	288	206	228			XPMT 125812 ...	BFTX 0511N	1,600	●
	TDXP 420-50 R	42	40	304	211	234		1,600			●	544,-
	TDXP 430-50 R	43	40	309	216	239		BT25	1,600	●	544,-	
	TDXP 440-50 R	44	40	314	221	244			XPMT 156812 ...	BFTX 0615N	1,700	●
	TDXP 450-50 R	45	40	319	226	249	1,700				●	585,-
	TDXP 460-50 R	46	40	332	231	262	BT25		2,400	●	585,-	
TDXP 470-50 R	47	40	337	235	267	XPMT 156812 ...			BFTX 0615N	2,400	●	585,-
TDXP 480-50 R	48	40	342	240	272			2,500		●	585,-	
TDXP 490-50 R	49	40	347	247	277	BT25		2,600	●	612,50		
TDXP 500-50 R	50	40	352	250	282			XPMT 156812 ...	BFTX 0615N	2,600	●	612,50
TDXP 510-50 R	51	40	357	255	287		2,800			●	612,50	
TDXP 520-50 R	52	40	362	260	292		BT25	2,800	●	612,50		
TDXP 530-50 R	53	40	367	265	297			XPMT 156812 ...	BFTX 0615N	2,900	●	612,50
TDXP 540-50 R	54	40	372	270	302	3,100				●	612,50	
TDXP 550-50 R	55	40	377	275	307	BT25		3,200	●	612,50		
TDXP 560-50 R	56	40	382	280	312			XPMT 156812 ...	BFTX 0615N	3,200	●	612,50
TDXP 570-50 R	57	40	387	285	317		3,500			●	612,50	

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request



ART. TD

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							STOCK	PRICELIST €
	ØD	ØD1	ØD2	LT	L1	L2	L3		
TD 150-30 R	15	37	20	115	45	65	50	0,380	○ 334,50
TD 155-30 R	15,5	37	20	120	50	70	50	0,380	○ 334,50
TD 160-30 R	16	37	20	120	50	70	50	0,380	○ 334,50
TD 170-30 R	17	37	20	125	55	75	50	0,380	○ 334,50
TD 175-30 R	17,5	37	20	130	60	80	50	0,380	○ 334,50
TD 180-30 R	18	37	20	130	60	80	50	0,380	○ 334,50
TD 185-30 R	18,5	37	20	130	60	80	50	0,380	○ 334,50
TD 190-30 R	19	37	20	130	60	80	50	0,380	○ 334,50
TD 195-30 R	19,5	37	20	135	65	85	50	0,390	○ 334,50
TD 200-30 R	20	37	20	135	65	85	50	0,390	○ 334,50
TD 210-30 R	21	37	25	151	75	95	56	0,410	○ 364,-
TD 220-30 R	22	37	25	151	75	95	56	0,410	○ 364,-
TD 230-30 R	23	37	25	151	75	95	56	0,420	○ 364,-
TD 240-30 R	24	37	25	156	80	100	56	0,420	○ 364,-
TD 250-30 R	25	37	25	156	80	100	56	0,460	○ 364,-
TD 260-30 R	26	37	25	166	90	110	56	0,480	○ 392,-
TD 270-30 R	27	37	25	166	90	110	56	0,500	○ 392,-
TD 280-30 R	28	37	25	166	90	110	56	0,530	○ 392,-
TD 290-30 R	29	37	25	171	95	115	56	0,550	○ 392,-
TD 300-30 R	30	37	25	171	95	115	56	0,850	○ 392,-
TD 310-30 R	31	49	32	186	105	130	56	0,870	○ 427,-
TD 320-30 R	32	49	32	186	105	130	56	0,880	○ 427,-
TD 330-30 R	33	49	32	186	105	130	56	0,910	○ 427,-
TD 340-30 R	34	49	32	191	110	135	56	0,950	○ 427,-
TD 350-30 R	35	49	32	191	110	135	56	0,980	○ 427,-
TD 360-30 R	36	49	32	201	120	145	56	1,020	○ 427,-
TD 370-30 R	37	49	32	201	120	145	56	1,060	○ 447,-
TD 380-30 R	38	49	32	201	120	145	56	1,090	○ 447,-
TD 390-30 R	39	49	32	211	130	155	56	1,130	○ 447,-
TD 400-30 R	40	49	32	211	130	155	56	1,180	○ 447,-
TD 410-30 R	41	49	32	211	130	155	56	1,230	○ 447,-
TD 420-30 R	42	54	40	235	140	165	70	1,270	○ 484,-
TD 430-30 R	43	54	40	235	140	165	70	1,310	○ 484,-
TD 440-30 R	44	54	40	235	140	165	70	1,350	○ 484,-
TD 450-30 R	45	54	40	245	150	175	70	1,910	○ 484,-
TD 460-30 R	46	54	40	245	150	175	70	1,930	○ 484,-
TD 470-30 R	47	54	40	245	150	175	70	2,020	○ 484,-
TD 480-30 R	48	54	40	255	160	185	70	2,090	○ 484,-
TD 490-30 R	49	54	40	255	160	185	70	2,120	○ 539,-
TD 500-30 R	50	59	40	255	160	185	70	2,220	○ 539,-
TD 510-30 R	51	59	40	265	170	195	70	2,270	○ 539,-
TD 520-30 R	52	59	40	265	170	195	70	2,320	○ 539,-
TD 530-30 R	53	59	40	265	170	195	70	2,520	○ 539,-
TD 540-30 R	54	59	40	275	180	205	70	2,570	○ 539,-
TD 550-30 R	55	59	40	275	180	205	70	2,820	○ 539,-
TD 560-30 R	56	59	40	275	180	205	70	2,920	○ 539,-
TD 570-30 R	57	59	40	285	190	215	70	3,020	○ 539,-
TD 580-30 R	58	59	40	285	190	215	70	3,120	○ 539,-

● Disponibile - Lieferbar - On stock

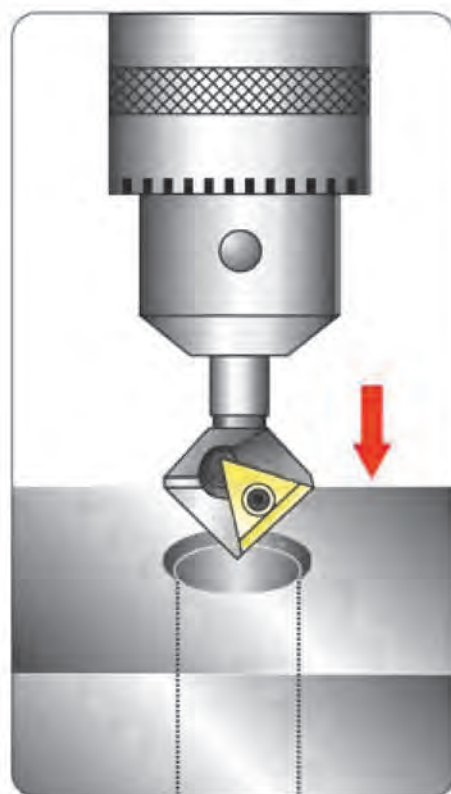
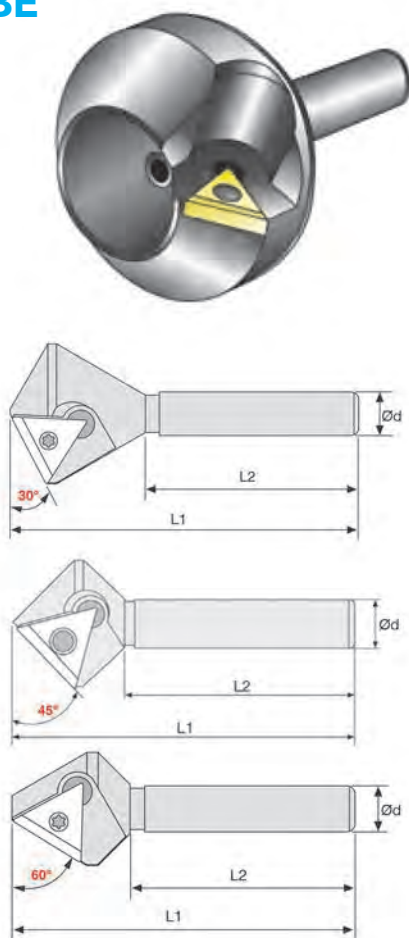
○ A richiesta - Auf Anfrage - On request

NICECUT

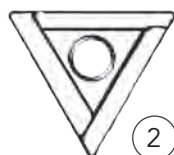
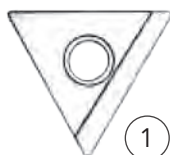


HIGH QUALITY TOOLS

MENTRUBE



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)											STOCK	PRICELIST €
	Angolo Winwel angle	MIN DIAM.	MAX DIAM.	L1	L2	Ø d							
BM3029T	30°	6	29	74	45	10	TM32 GUR... TM32 GSR...	M -1	MA -1			0,110 ●	309,-
BM4524T	45°	5	24	67	45	10						0,070 ●	231,-
BM4538T	45°	19	38	75	50	12						0,230 ●	278,50
BM4552T	45°	33	52	80	55	13						0,410 ●	348,50
BM4566T	45°	47	66	80	55	13						0,660 ●	473,50
BM6021T	60°	7	21	69	45	10						0,070 ●	298,50



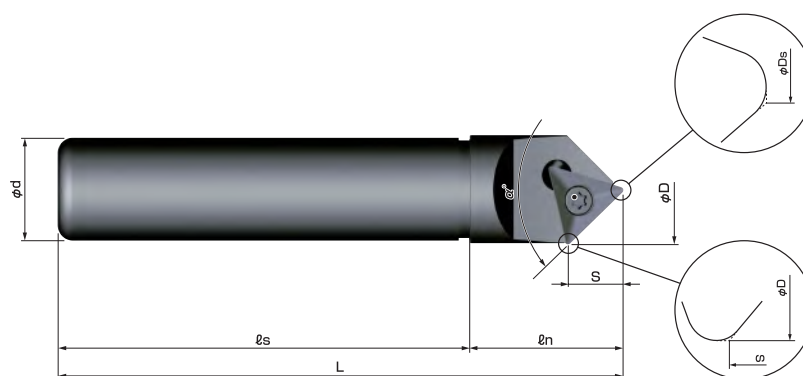
CODICE ORDINE Bestell-Nr. Order No.	FIG.	NR. TAGLIENTI SCHNITTKANTEN NO. OF CORNERS
TM32 GUR HSS...	1	2
TM32 GSR HSS...	2	6

VELOCITÀ CONSIGLIATE SCHNITTDATEN RECOMMENDED SPEED			
CODICE ORDINE Bestell-Nr. Order No.	MIN DIAM.	MAX DIAM.	RPM
BM3029T	6	29	500-350
BM4524T	5	24	500-350
BM4538T	19	38	350-200
BM4552T	33	52	200-150
BM4566T	47	68	150-100
BM6021T	7	21	500-350

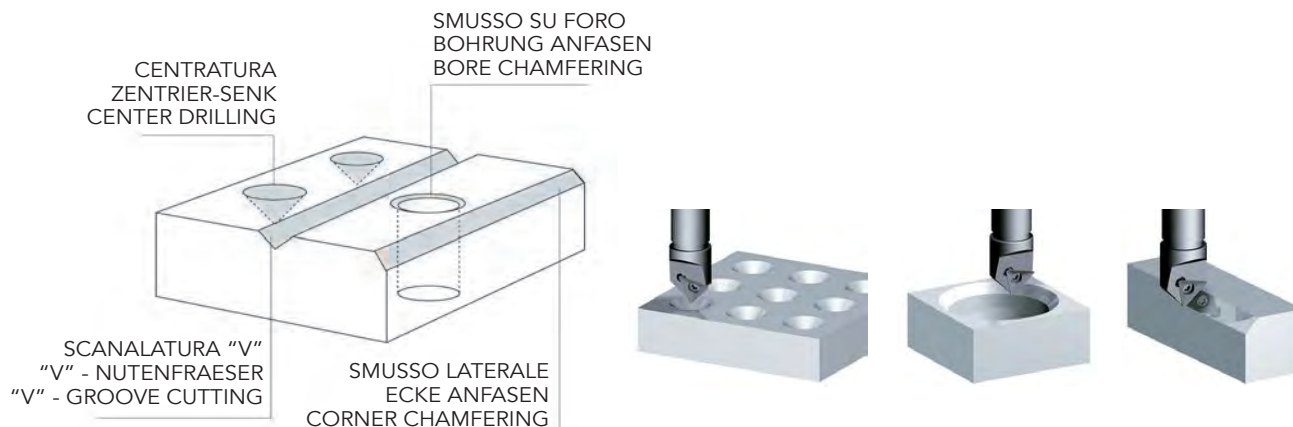
MOMIMEN



CODICE ORDINE Bestell-Nr. Order No.	Angolo Winwel angle	DIMENSIONI Abmessungen Dimensions (mm.)												STOCK	PRICELIST €
		L1	L2	L3	Ø D	Ø d	MIN DIAM.	MAX DIAM.							
SCM1045C	90°	105	72	33	10	8	0,6	8	C22 GUX...	L-13	N-5		0,070	●	268,-
SCM1045CL	90°	165	132	33	10	8	0,6	8	C22 GUX...						334,50
SC1245C	90°	110	82	28	12	13	0,6	13	C32 GUX...	L-6	K-3		0,110	●	304,-
SC1645C	90°	110	82	28	16	13	0,6	13	C32 GUX...						304,-
SC1630C	118°	110	82	28	16	16	0,6	16	C32 GUX ...						304,-
SC1660DS	60°	150	95	55	16	12	0,6	12	DCET 11X304...	L-15	N-6		0,170	●	417,50



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)													STOCK	PRICELIST €
	Ø D	Ø Ds	Ø d	L	Ls	Ln	S	α°							
EMS1045T	10,3	0,88	10	95	80	15	4,7	90°	TXMT 080206...	L-18	N-4		0,100	○	206,-
EMM1245T	14,2	0,88	12	100	80	20	6,7	90°	TXMT 110306...	L-13	N-5		0,120	○	295,-
EML2045T	22	0,88	20	110	80	30	10,5	90°	TXMT 16T306...	L-15	N-7		0,200	○	378,50
EMD3245T	37,1	1,2	32	150	110	40	18	90°	TXMT 270506...	L-16	BT20		0,250	○	205,-

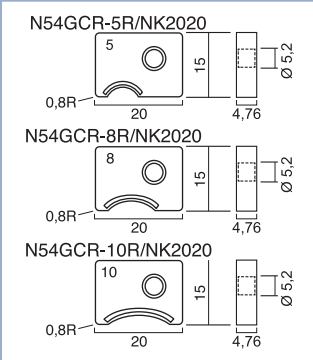
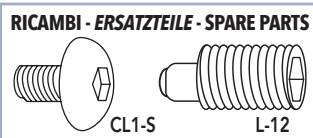
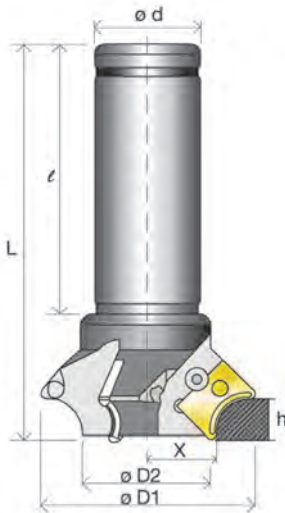


● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Frese ad inserti per raggi convessi | Radien Anfräser mit Wendepplatten Indexable round chamfering milling-cutters

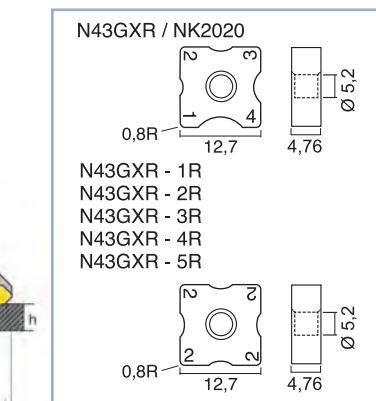
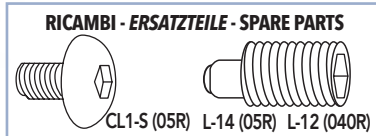
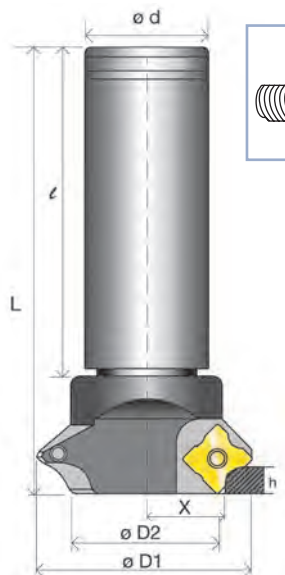
R-NUBOR



CODICE ORDINE Bestell-Nr. Order No.	Z	Ø D1	Ø D2	Ø d	L	/	kg	STOCK	PRICELIST €
NK32-70R	3	70	42	32	130	90	1,000	●	900,-
NK32-70RL200	3	70	42	32	200	150	1,000	●	1147,-
NK25-10R	1	35	8,9	25	120	80	0,600	●	381,50

	R	X	h
N54GCR-5R NK2020	5	22,78	6,79
N54GCR-8R NK2020	8	22,8	9,63
N54GCR-10R NK2020	10	22,7	11,76
N54GCR-6R NK2020	6	22,8	6,8
N54GCR-7R NK2020	7	22,8	9,7
N54GCR-9R NK2020	9	22,7	11,5

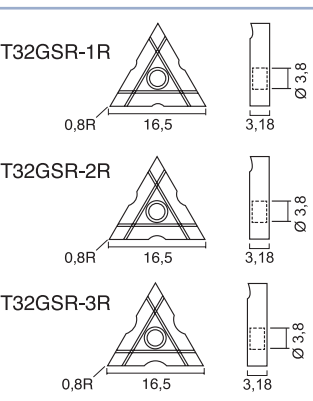
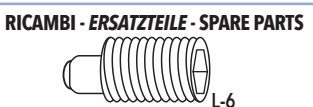
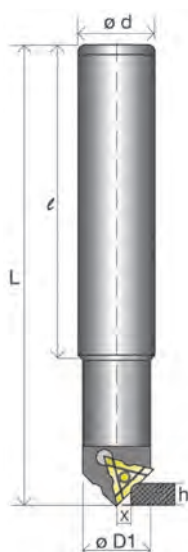
PARAMETRI DI LAVORO - CUTTING DATAS		
MATERIAL	RPM	FEED
STEEL	1200 ~ 2000	200 ~ 400 mm/1'
CAST IRON	900 ~ 1200	150 ~ 300 mm/1'
ALU	1500 ~ 3000	300 ~ 500 mm/1'



CODICE ORDINE Bestell-Nr. Order No.	Z	Ø D1	Ø D2	Ø d	L	/	kg	STOCK	PRICELIST €
NK25-05R	1	26	-	25	130	90	0,420	●	383,50
NK20-40R-2	2	56	39,3	20	115	85	0,480	●	814,50
NK25-40R-3	3	56	39,3	25	115	85	0,800	●	845,-
NK32-40R-3	3	56	39,3	32	115	85	1,000	●	814,50

	R	X	h
N43GXR-1R NK2020	1	23,27	4,66
N43GXR-2R NK2020	2	22,77	5,07
N43GXR-3R NK2020	3	22,27	5,58
N43GXR-4R NK2020	4	21,81	6,08
N43GXR-5R NK2020	5	21,2	6,5
N43GXR NK2020	1-2-3-4	21,81	6,08

PARAMETRI DI LAVORO - CUTTING DATAS		
MATERIAL	RPM	FEED
STEEL	1500 ~ 2500	300 ~ 500 mm/1'
CAST IRON	1100 ~ 1500	150 ~ 300 mm/1'
ALU	1700 ~ 3500	300 ~ 500 mm/1'



CODICE ORDINE Bestell-Nr. Order No.	Z	Ø D1	Ø D2	Ø d	L	/	kg	STOCK	PRICELIST €
CR25-05T	1	25	-	25	150	100	0,530	●	294,50

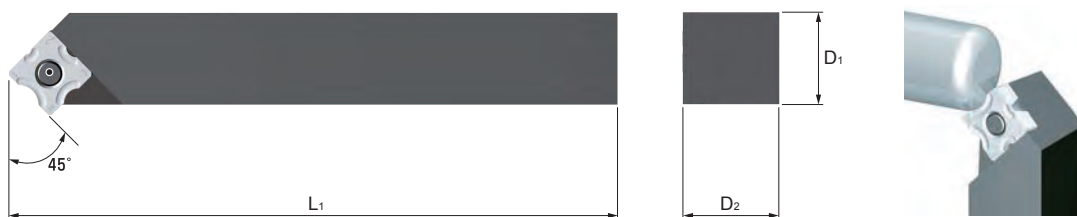
	R	X	h
T32GSR-1R NK2020	1	6,52	6,02
T32GSR-2R NK2020	2	6,05	6,53
T32GSR-3R NK2020	3	5,61	7,01

PARAMETRI DI LAVORO - CUTTING DATAS		
MATERIAL	RPM	FEED
STEEL	2500 ~ 400	200 ~ 400 mm/1'
CAST IRON	1800 ~ 3000	150 ~ 300 mm/1'
ALU	3000 ~ 5000	300 ~ 600 mm/1'

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

R-BIT 20XR



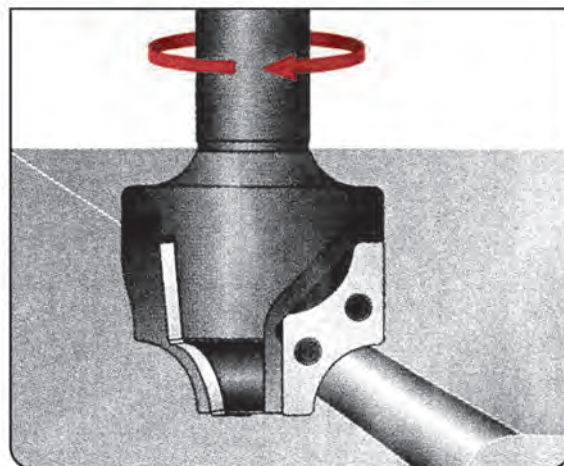
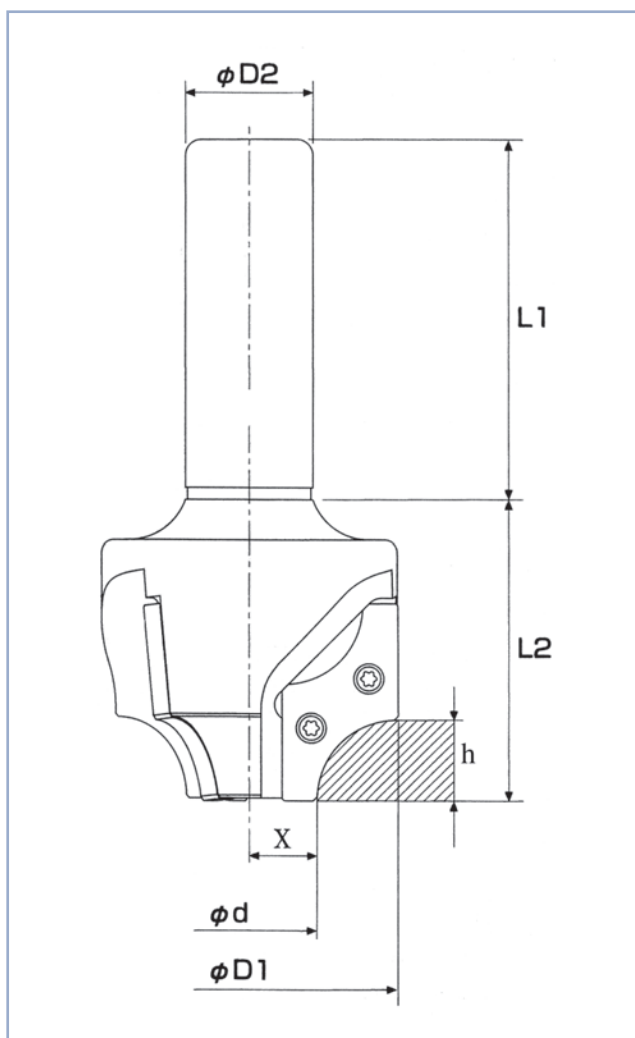
CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)							STOCK	PRICELIST €
	D1	D2	L1	z					
R-BIT 20XR	19	20	126	1	N43GXR	L-12	K-4	○	362,-

10R-BIT 25CR



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)									STOCK	PRICELIST €
	D1	D2	L1	L2	z						
10R-BIT 25CR	25	25	150	30	1	N54GCR	CL-15	L-12	K-3 K-4	○	288,50

R-GIGA



VELOCITÀ CONSIGLIATE SCHNITTDATEN RECOMMENDED SPEED

MATERIAL	RPM	FEED
STEEL	1200 ~ 2000	200 ~ 400 mm/1'
CAST IRON	900 ~ 1200	150 ~ 300 mm/1'
ALU	1500 ~ 3000	300 ~ 500 mm/1'

DIMENSIONI DI TAGLIO - CUTTING DIMENSIONS

R	X	h
R11	17.5	11.77
R12	17.5	12.7
R13	17.5	13.63
R14	17.5	14.56
R15	17.5	15.48
R16	17.5	16.41
R17	17.5	17.34
R18	17.5	18.27
R19	17.5	19.2
R20	17.5	20.12

CODICE ORDINE Bestell-Nr. Order No.	L1	L2	Ø D1	Ø D2	Ø d	z	kg	STOCK	PRICELIST €
NK32-75 RS R11-R15	90	75	75,5	32	35	3	1,000	○	1823,50
NK32-75 RL R16-R20	90	75	75,5	32	35	3	1,000	○	1823,50

CODICE ORDINE | Bestell-Nr. | Order No.



XNEW 3004-11R NK2020

XNEW 3004-16R NK2020

XNEW 3004-12R NK2020

XNEW 3004-17R NK2020

XNEW 3004-13R NK2020

XNEW 3004-18R NK2020

XNEW 3004-14R NK2020

XNEW 3004-19R NK2020

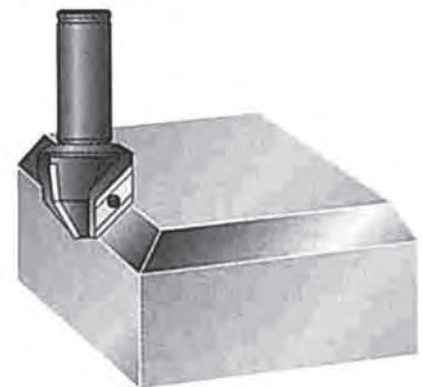
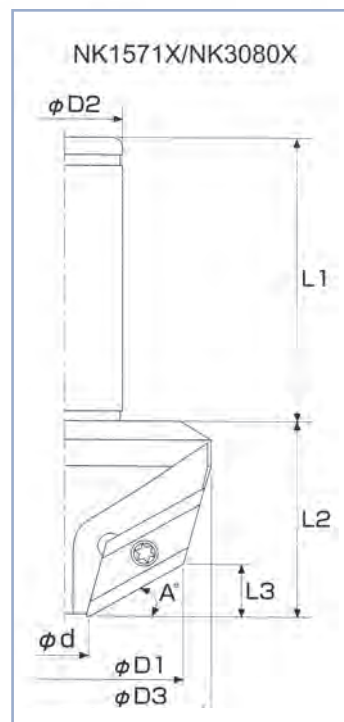
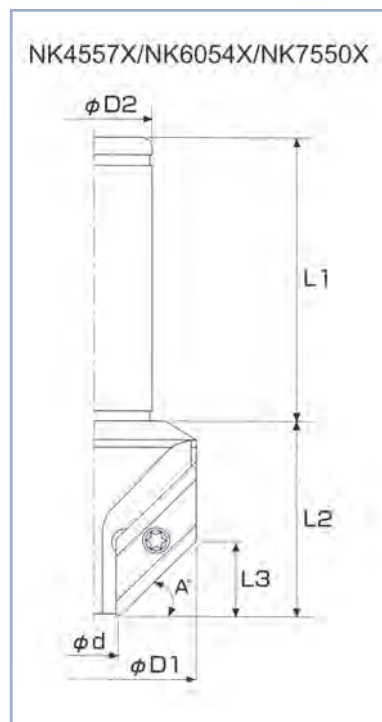
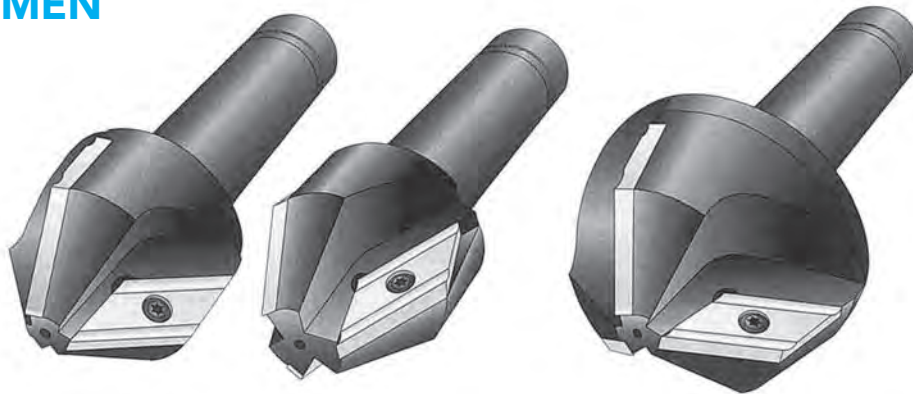
XNEW 3004-15R NK2020

XNEW 3004-20R NK2020

L-16

BT-20

GENTLEMEN



VELOCITÀ CONSIGLIATE
SCHNITTDATEN
RECOMMENDED SPEED

900 r.p.m.

160 m/min

CODICE ORDINE Bestell-Nr. Order No.	A°	DIMENSIONI Abmessungen Dimensions (mm.)								STOCK	PRICELIST €
		L1	L2	L3	Ø D1	Ø D2	Ø D3	Ø d			
NK1571X	15°	80	55	7.6	71.8	32	92.6	15	0,110	●	1648,-
NK3080X	30°	80	55	14.8	66.3	32	80	15	0,170	●	1582,50
NK4557X	45°	80	55	21.1	57.3	32	-	15	0,420	●	1517,50
NK6054X	60°	80	55	26.3	54.3	32	-	24	0,600	●	1451,-
NK7550X	75°	80	65	29.3	50.8	32	-	35	1,000	●	1340,50

CODICE ORDINE | Bestell-Nr. | Order No.



X63 GUR ...



L-16



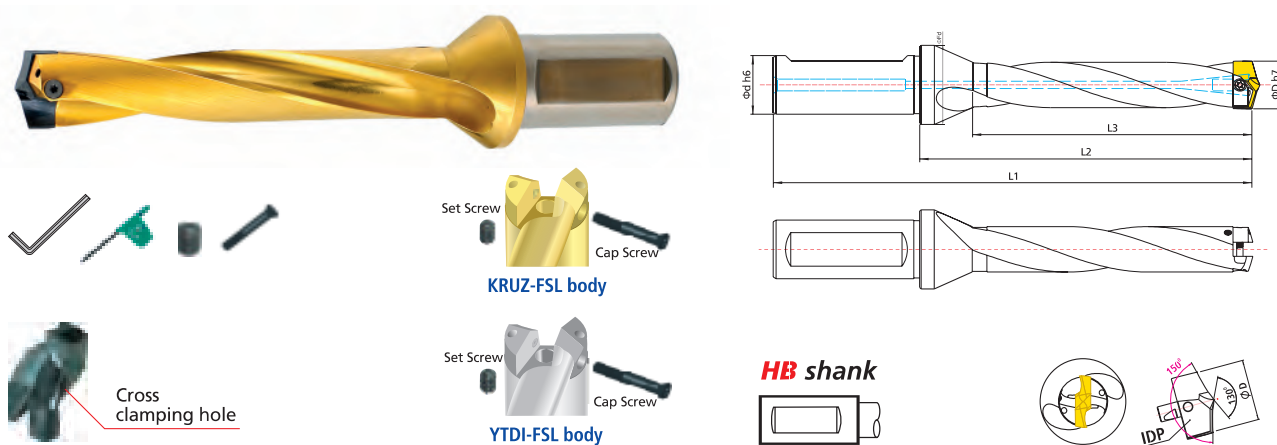
BT-20

YES DRILLS



HIGH QUALITY TOOLS

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert



IDP Affilature \ ricoperture specifiche +30%
IDP Specific grindings \ coatings +30%
IDP Besondere Schliffungen \ Beschichtungen +30%

ART. KRUZ-FSL \ YTDI-FSL

Please make required cutting depth in the ☐ like T, P, H, L

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI STOCK PRICELIST €	KRUZ STOCK PRICELIST €	IDP	Cap Screw	Torx driver	Set Screw	L-wrench
ø8.0 ~ø8.4	YTDI 080 ☐ FSL KRUZ 080 ☐ FSL	10,0 (HA)	T(3xD) P(5xD) H(7xD)	87 103 119	42 58 74	32 48 64		● 231,- ● 286,- ● 296,-	○ 268,- ○ 324,- ○ 337,-	● IDP 080 ● IDP 081 ● IDP 082 ● IDP 083 ● IDP 084	CS 080-085 SL			
ø8.5 ~ø8.9	YTDI 085 ☐ FSL KRUZ 085 ☐ FSL	10,0 (HA)	T(3xD) P(5xD) H(7xD)	89 106 123	44 61 78	34 51 68		● 231,- ● 286,- ● 296,-	○ 268,- ○ 324,- ○ 337,-	● IDP 085 ● IDP 086 ● IDP 087 ● IDP 088 ● IDP 089	CS 080-085 SL			
ø9.0 ~ø9.4	YTDI 090 ☐ FSL KRUZ 090 ☐ FSL	10,0 (HA)	T(3xD) P(5xD) H(7xD)	92 110 128	47 65 83	36 54 72		● 231,- ● 286,- ● 296,-	○ 268,- ○ 324,- ○ 337,-	● IDP 090 ● IDP 091 ● IDP 092 ● IDP 093 ● IDP 094	CS 090-095 SL			
ø9.5 ~ø9.9	YTDI 095 ☐ FSL KRUZ 095 ☐ FSL	10,0 (HA)	T(3xD) P(5xD) H(7xD)	97 116 135	49 68 87	38 57 76		● 231,- ● 286,- ● 296,-	○ 268,- ○ 324,- ○ 337,-	● IDP 095 ● IDP 096 ● IDP 097 ● IDP 098 ● IDP 099	CS 090-095 SL			
ø10.0 ~ø10.4	YTDI 100 ☐ FSL KRUZ 100 ☐ FSL	12,0 (HA)	T(3xD) P(5xD) H(7xD)	99 119 139	51 71 91	40 60 80	18	● 231,- ● 286,- ● 296,-	○ 268,- ○ 324,- ○ 337,-	● IDP 100 ● IDP 101 ● IDP 102 ● IDP 103 ● IDP 104	T6	None	None	
ø10.5 ~ø10.9	YTDI 105 ☐ FSL KRUZ 105 ☐ FSL	12,0 (HA)	T(3xD) P(5xD) H(7xD)	102 123 144	54 75 96	42 63 84	18	● 231,- ● 286,- ● 296,-	○ 268,- ○ 324,- ○ 337,-	● IDP 105 ● IDP 106 ● IDP 107 ● IDP 108 ● IDP 109	Torque 0,6Nm (Max)			
ø11.0 ~ø11.4	YTDI 110 ☐ FSL KRUZ 110 ☐ FSL	12,0 (HA)	T(3xD) P(5xD) H(7xD) L(10XD)	104 126 148 181	56 78 100 133	44 66 88 121	21	● 231,- ● 286,- ● 296,- ○ 384,-	○ 268,- ○ 324,- ○ 337,- ○ 438,-	● IDP 110 ● IDP 111 ● IDP 112 ● IDP 113 ● IDP 114	CS 100-115 SL			
ø11.5 ~ø11.9	YTDI 115 ☐ FSL KRUZ 115 ☐ FSL	12,0 (HA)	T(3xD) P(5xD) H(7xD) L(10XD)	107 130 153 188	59 82 105 140	46 69 92 127	21	● 231,- ● 286,- ● 296,- ○ 384,-	○ 268,- ○ 324,- ○ 337,- ○ 438,-	● IDP 115 ● IDP 116 ● IDP 117 ● IDP 118 ● IDP 119	CS 100-115 SL			
ø12.0 ~ø12.4	YTDI 120 ☐ FSL KRUZ 120 ☐ FSL	16,0	T(3xD) P(5xD) H(7xD) L(10XD)	109 133 157 193	61 85 109 145	48 72 96 132	21	● 234,- ● 306,- ● 322,- ○ 419,-	○ 273,- ○ 359,- ○ 382,- ○ 496,-	● IDP 120 ● IDP 121 ● IDP 122 ● IDP 123 ● IDP 124	CS 120-135 SL	M2.5x4	1.3mm	

● Disponibile - Lieferbar - On stock
○ Anrichiesta - Auf Anfrage - On request

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI STOCK	YTDI PRICELIST €	KRUZ STOCK	KRUZ PRICELIST €	IDP	Cap Screw	Torx driver	Set Screw	L-wrench			
ø12.5 ~ø12.9	YTDI 125 ☐ FSL KRUZ 125 ☐ FSL	16.0	T(3xD)	111	63	50	21	● 234,-	○ 273,-	● IDP 125	€ 87,50								
			P(5xD)	136	88	75		● 306,-	○ 359,-	● IDP 126									
			H(7xD)	161	113	100		● 322,-	○ 382,-	● IDP 127									
			L(10xD)	199	151	138		○ 419,-	○ 496,-	● IDP 128									
ø13.0 ~ø13.4	YTDI 130 ☐ FSL KRUZ 130 ☐ FSL		T(3xD)	114	66	52		● 234,-	○ 273,-	● IDP 130	€ 87,50						CS 120-135 SL	T6 Torque 0,6Nm (Max)	
			P(5xD)	140	92	78		● 306,-	○ 359,-	● IDP 131									
			H(7xD)	166	118	104		● 322,-	○ 382,-	● IDP 132									
			L(10xD)	205	157	143		○ 419,-	○ 496,-	● IDP 133									
ø13.5 ~ø13.9	YTDI 135 ☐ FSL KRUZ 135 ☐ FSL		T(3xD)	116	68	54		● 234,-	○ 273,-	● IDP 135	€ 87,50						CS 140-155 SL		T7 Torque 0,9Nm (Max)
			P(5xD)	143	95	81		● 306,-	○ 359,-	● IDP 136									
			H(7xD)	170	122	108		● 322,-	○ 382,-	● IDP 137									
			L(10xD)	211	163	149		○ 419,-	○ 496,-	● IDP 138									
ø14.0 ~ø14.4	YTDI 140 ☐ FSL KRUZ 140 ☐ FSL	T(3xD)	119	71	56	● 251,-	○ 286,-	● IDP 140	€ 100,-	CS 160-175 SL	T8 Torque 1,5Nm (Max)								
		P(5xD)	147	99	84	● 343,-	○ 396,-	● IDP 141											
		H(7xD)	175	127	112	● 374,-	○ 432,-	● IDP 142											
		L(10xD)	217	169	154	○ 486,-	○ 560,-	● IDP 143											
ø14.5 ~ø14.9	YTDI 145 ☐ FSL KRUZ 145 ☐ FSL	T(3xD)	123	73	58	● 251,-	○ 286,-	● IDP 145	€ 100,-			CS 200-215 SL	M3x6 1.5 mm						
		P(5xD)	152	102	87	● 343,-	○ 396,-	● IDP 146											
		H(7xD)	181	131	116	● 374,-	○ 432,-	● IDP 147											
		L(10xD)	225	175	160	○ 486,-	○ 560,-	● IDP 148											
ø15.0 ~ø15.4	YTDI 150 ☐ FSL KRUZ 150 ☐ FSL	T(3xD)	127	77	60	● 251,-	○ 286,-	● IDP 150	€ 100,-					CS 180-195 SL	T9 Torque 1,5Nm (Max)				
		P(5xD)	157	107	90	● 343,-	○ 396,-	● IDP 151											
		H(7xD)	187	137	120	● 374,-	○ 432,-	● IDP 152											
		L(10xD)	232	182	165	○ 486,-	○ 560,-	● IDP 153											
ø15.5 ~ø15.9	YTDI 155 ☐ FSL KRUZ 155 ☐ FSL	T(3xD)	130	80	62	● 251,-	○ 286,-	● IDP 155	€ 100,-	CS 200-215 SL	M3x6 1.5 mm								
		P(5xD)	161	111	93	● 343,-	○ 396,-	● IDP 156											
		H(7xD)	192	142	124	● 374,-	○ 432,-	● IDP 157											
		L(10xD)	239	189	171	○ 486,-	○ 560,-	● IDP 158											
ø16.0 ~ø15.4	YTDI 160 ☐ FSL KRUZ 160 ☐ FSL	T(3xD)	132	82	64	● 253,-	○ 288,-	● IDP 160	€ 106,50			CS 200-215 SL	M3x6 1.5 mm						
		P(5xD)	164	114	96	● 373,-	○ 432,-	● IDP 161											
		H(7xD)	196	146	128	● 404,-	○ 467,-	● IDP 162											
		L(10xD)	244	194	176	○ 524,-	○ 607,-	● IDP 163											
ø16.5 ~ø16.9	YTDI 165 ☐ FSL KRUZ 165 ☐ FSL	T(3xD)	135	85	66	● 253,-	○ 288,-	● IDP 165	€ 106,50					CS 200-215 SL	M3x6 1.5 mm				
		P(5xD)	168	118	99	● 373,-	○ 432,-	● IDP 166											
		H(7xD)	201	151	132	● 404,-	○ 467,-	● IDP 167											
		L(10xD)	251	201	182	○ 524,-	○ 607,-	● IDP 168											
ø17.0 ~ø17.4	YTDI 170 ☐ FSL KRUZ 170 ☐ FSL	T(3xD)	137	87	68	● 253,-	○ 288,-	● IDP 170	€ 106,50	CS 200-215 SL	M3x6 1.5 mm								
		P(5xD)	171	121	102	● 373,-	○ 432,-	● IDP 171											
		H(7xD)	205	155	136	● 404,-	○ 467,-	● IDP 172											
		L(10xD)	256	206	187	○ 524,-	○ 607,-	● IDP 173											
ø17.5 ~ø17.9	YTDI 175 ☐ FSL KRUZ 175 ☐ FSL	T(3xD)	139	89	70	● 253,-	○ 288,-	● IDP 175	€ 106,50			CS 200-215 SL	M3x6 1.5 mm						
		P(5xD)	174	124	105	● 373,-	○ 432,-	● IDP 176											
		H(7xD)	209	159	140	● 404,-	○ 467,-	● IDP 177											
		L(10xD)	262	212	193	○ 524,-	○ 607,-	● IDP 178											
ø18.0 ~ø18.4	YTDI 180 ☐ FSL KRUZ 180 ☐ FSL	T(3xD)	142	92	72	● 253,-	○ 288,-	● IDP 180	€ 106,50					CS 200-215 SL	M3x6 1.5 mm				
		P(5xD)	178	128	108	● 405,-	○ 467,-	● IDP 181											
		H(7xD)	214	164	144	● 429,-	○ 499,-	● IDP 182											
		L(10xD)	268	218	198	○ 559,-	○ 648,-	● IDP 183											
ø18.5 ~ø18.9	YTDI 185 ☐ FSL KRUZ 185 ☐ FSL	T(3xD)	144	94	74	● 253,-	○ 288,-	● IDP 185	€ 106,50	CS 200-215 SL	M3x6 1.5 mm								
		P(5xD)	181	131	111	● 405,-	○ 467,-	● IDP 186											
		H(7xD)	218	168	148	● 429,-	○ 499,-	● IDP 187											
		L(10xD)	274	224	204	○ 559,-	○ 648,-	● IDP 188											
ø19.0 ~ø19.4	YTDI 190 ☐ FSL KRUZ 190 ☐ FSL	T(3xD)	147	97	76	● 253,-	○ 288,-	● IDP 190	€ 106,50			CS 200-215 SL	M3x6 1.5 mm						
		P(5xD)	185	135	114	● 405,-	○ 467,-	● IDP 191											
		H(7xD)	223	173	152	● 429,-	○ 499,-	● IDP 192											
		L(10xD)	280	230	209	○ 559,-	○ 648,-	● IDP 193											
ø19.5 ~ø19.9	YTDI 195 ☐ FSL KRUZ 195 ☐ FSL	T(3xD)	149	99	78	● 253,-	○ 288,-	● IDP 195	€ 106,50					CS 200-215 SL	M3x6 1.5 mm				
		P(5xD)	188	138	117	● 405,-	○ 467,-	● IDP 196											
		H(7xD)	227	177	156	● 429,-	○ 499,-	● IDP 197											
		L(10xD)	286	236	215	○ 559,-	○ 648,-	● IDP 198											
ø20.0 ~ø20.4	YTDI 200 ☐ FSL KRUZ 200 ☐ FSL	T(3xD)	157	101	80	● 305,-	○ 349,-	● IDP 200	€ 106,50	CS 200-215 SL	M3x6 1.5 mm								
		P(5xD)	197	141	120	● 405,-	○ 467,-	● IDP 201											
		H(7xD)	237	181	160	● 456,-	○ 526,-	● IDP 202											
		L(10xD)	297	241	220	○ 592,-	○ 684,-	● IDP 203											

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI STOCK PRICELIST €	KRUZ STOCK PRICELIST €	IDP	Cap Screw	Torx driver	Set Screw	L-wrench				
ø20.5 ~ø20.9	YTDI 205 ☐ FSL KRUZ 205 ☐ FSL	25.0	T(3xD)	160	104	82	32	● 305,-	○ 349,-	● IDP 205 ○ IDP 206 ○ IDP 207 ○ IDP 208 ○ IDP 209	€ 106,50	CS 200-215 SL	T8 Torque 1.5Nm (Max)	M3x6 1.5mm				
			P(5xD)	201	145	123		● 405,-	○ 467,-						○ IDP 210 ○ IDP 211 ○ IDP 212 ○ IDP 213 ○ IDP 214	€ 106,50		
			H(7xD)	242	186	164		○ 456,-	○ 526,-								○ IDP 215 ○ IDP 216 ○ IDP 217 ○ IDP 218 ○ IDP 219	€ 106,50
			L(10XD)	304	248	226		○ 592,-	○ 684,-									
ø21.0 ~ø21.4	YTDI 210 ☐ FSL KRUZ 210 ☐ FSL		T(3xD)	162	106	84		● 305,-	○ 349,-	○ IDP 220 ○ IDP 221 ○ IDP 222 ○ IDP 223 ○ IDP 224	€ 118,-							
			P(5xD)	204	148	126		● 405,-	○ 467,-						○ IDP 225 ○ IDP 226 ○ IDP 227 ○ IDP 228 ○ IDP 229	€ 118,-		
			H(7xD)	246	190	168		○ 456,-	○ 526,-								○ IDP 230 ○ IDP 231 ○ IDP 232 ○ IDP 233 ○ IDP 234	€ 118,-
			L(10XD)	309	253	231		○ 592,-	○ 684,-									
ø21.5 ~ø21.9	YTDI 215 ☐ FSL KRUZ 215 ☐ FSL		T(3xD)	165	109	86		● 305,-	○ 349,-	○ IDP 235 ○ IDP 236 ○ IDP 237 ○ IDP 238 ○ IDP 239	€ 118,-							
			P(5xD)	208	152	129		● 405,-	○ 467,-						○ IDP 240 ○ IDP 241 ○ IDP 242 ○ IDP 243 ○ IDP 244	€ 144,-		
			H(7xD)	251	195	172		○ 456,-	○ 526,-								○ IDP 245 ○ IDP 246 ○ IDP 247 ○ IDP 248 ○ IDP 249	€ 144,-
			L(10XD)	316	260	237		○ 592,-	○ 684,-									
ø22.0 ~ø22.4	YTDI 220 ☐ FSL KRUZ 220 ☐ FSL		T(3xD)	167	111	88		● 305,-	○ 349,-	○ IDP 250 ○ IDP 251 ○ IDP 252 ○ IDP 253 ○ IDP 254	€ 144,-							
			P(5xD)	211	155	132		● 432,-	○ 499,-						○ IDP 255 ○ IDP 256 ○ IDP 257 ○ IDP 258 ○ IDP 259	€ 144,-		
			H(7xD)	255	199	176		○ 514,-	○ 596,-								○ IDP 260 ○ IDP 261 ○ IDP 262 ○ IDP 263 ○ IDP 264	€ 165,-
			L(10XD)	321	265	242		○ 668,-	○ 776,-									
ø22.5 ~ø22.9	YTDI 225 ☐ FSL KRUZ 225 ☐ FSL		T(3xD)	169	113	90		● 305,-	○ 349,-	○ IDP 265 ○ IDP 266 ○ IDP 267 ○ IDP 268 ○ IDP 269	€ 165,-							
			P(5xD)	214	158	135		● 432,-	○ 499,-						○ IDP 270 ○ IDP 271 ○ IDP 272 ○ IDP 273 ○ IDP 274	€ 165,-		
			H(7xD)	259	203	180		○ 514,-	○ 596,-								○ IDP 275 ○ IDP 276 ○ IDP 277 ○ IDP 278 ○ IDP 279	€ 165,-
			L(10XD)	327	271	248		○ 668,-	○ 776,-									
ø23.0 ~ø23.4	YTDI 230 ☐ FSL KRUZ 230 ☐ FSL		T(3xD)	172	116	92		● 305,-	○ 349,-	○ IDP 280 ○ IDP 281 ○ IDP 282 ○ IDP 283 ○ IDP 284	€ 211,50							
			P(5xD)	218	162	138		● 432,-	○ 499,-						○ IDP 285 ○ IDP 286 ○ IDP 287 ○ IDP 288 ○ IDP 289	CS 280-295 SL		
			H(7xD)	264	208	184		○ 514,-	○ 596,-								○ IDP 290 ○ IDP 291 ○ IDP 292 ○ IDP 293 ○ IDP 294	CS 280-295 SL
			L(10XD)	333	277	253		○ 668,-	○ 776,-									
ø23.5 ~ø23.9	YTDI 235 ☐ FSL KRUZ 235 ☐ FSL		T(3xD)	174	118	94		● 305,-	○ 349,-	○ IDP 295 ○ IDP 296 ○ IDP 297 ○ IDP 298 ○ IDP 299	€ 211,50							
			P(5xD)	221	165	141		● 432,-	○ 499,-						○ IDP 300 ○ IDP 301 ○ IDP 302 ○ IDP 303 ○ IDP 304	CS 280-295 SL		
			H(7xD)	268	212	188		○ 514,-	○ 596,-								○ IDP 305 ○ IDP 306 ○ IDP 307 ○ IDP 308 ○ IDP 309	CS 280-295 SL
			L(10XD)	339	283	259		○ 668,-	○ 776,-									
ø24.0 ~ø24.4	YTDI 240 ☐ FSL KRUZ 240 ☐ FSL		T(3xD)	181	121	96		● 376,-	○ 431,-	○ IDP 310 ○ IDP 311 ○ IDP 312 ○ IDP 313 ○ IDP 314	€ 211,50							
			P(5xD)	229	169	144		● 457,-	○ 526,-						○ IDP 315 ○ IDP 316 ○ IDP 317 ○ IDP 318 ○ IDP 319	CS 280-295 SL		
			H(7xD)	277	217	192		○ 522,-	○ 603,-								○ IDP 320 ○ IDP 321 ○ IDP 322 ○ IDP 323 ○ IDP 324	CS 280-295 SL
			L(10XD)	349	289	264		○ 678,-	○ 783,-									
ø24.5 ~ø24.9	YTDI 245 ☐ FSL KRUZ 245 ☐ FSL		T(3xD)	183	123	98		● 376,-	○ 431,-	○ IDP 325 ○ IDP 326 ○ IDP 327 ○ IDP 328 ○ IDP 329	€ 211,50							
			P(5xD)	232	172	147		● 457,-	○ 526,-						○ IDP 330 ○ IDP 331 ○ IDP 332 ○ IDP 333 ○ IDP 334	CS 280-295 SL		
			H(7xD)	281	221	196		○ 522,-	○ 603,-								○ IDP 335 ○ IDP 336 ○ IDP 337 ○ IDP 338 ○ IDP 339	CS 280-295 SL
			L(10XD)	355	295	270		○ 678,-	○ 783,-									
ø25.0 ~ø25.4	YTDI 250 ☐ FSL KRUZ 250 ☐ FSL		T(3xD)	185	125	100		● 376,-	○ 431,-	○ IDP 340 ○ IDP 341 ○ IDP 342 ○ IDP 343 ○ IDP 344	€ 211,50							
			P(5xD)	235	175	150		● 457,-	○ 526,-						○ IDP 345 ○ IDP 346 ○ IDP 347 ○ IDP 348 ○ IDP 349	CS 280-295 SL		
			H(7xD)	285	225	200		○ 522,-	○ 603,-								○ IDP 350 ○ IDP 351 ○ IDP 352 ○ IDP 353 ○ IDP 354	CS 280-295 SL
			L(10XD)	360	300	275		○ 678,-	○ 783,-									
ø25.5 ~ø22.9	YTDI 255 ☐ FSL KRUZ 255 ☐ FSL		T(3xD)	188	128	102	● 376,-	○ 431,-	○ IDP 355 ○ IDP 356 ○ IDP 357 ○ IDP 358 ○ IDP 359	€ 211,50								
			P(5xD)	239	179	153	● 457,-	○ 526,-			○ IDP 360 ○ IDP 361 ○ IDP 362 ○ IDP 363 ○ IDP 364				CS 280-295 SL			
			H(7xD)	290	230	204	○ 522,-	○ 603,-								○ IDP 365 ○ IDP 366 ○ IDP 367 ○ IDP 368 ○ IDP 369	CS 280-295 SL	
			L(10XD)	367	307	281	○ 678,-	○ 783,-										
ø26.0 ~ø26.4	YTDI 260 ☐ FSL KRUZ 260 ☐ FSL		T(3xD)	190	130	104	● 376,-	○ 431,-	○ IDP 370 ○ IDP 371 ○ IDP 372 ○ IDP 373 ○ IDP 374	€ 211,50								
			P(5xD)	242	182	156	● 515,-	○ 596,-			○ IDP 375 ○ IDP 376 ○ IDP 377 ○ IDP 378 ○ IDP 379				CS 280-295 SL			
			H(7xD)	294	234	208	○ 610,-	○ 705,-								○ IDP 380 ○ IDP 381 ○ IDP 382 ○ IDP 383 ○ IDP 384	CS 280-295 SL	
			L(10XD)	372	312	286	○ 791,-	○ 915,-										
ø26.5 ~ø26.9	YTDI 265 ☐ FSL KRUZ 265 ☐ FSL		T(3xD)	193	133	106	● 376,-	○ 431,-	○ IDP 385 ○ IDP 386 ○ IDP 387 ○ IDP 388 ○ IDP 389	€ 211,50								
			P(5xD)	246	186	159	● 515,-	○ 596,-			○ IDP 390 ○ IDP 391 ○ IDP 392 ○ IDP 393 ○ IDP 394				CS 280-295 SL			
			H(7xD)	299	239	212	○ 610,-	○ 705,-								○ IDP 395 ○ IDP 396 ○ IDP 397 ○ IDP 398 ○ IDP 399	CS 280-295 SL	
			L(10XD)	379	319	292	○ 791,-	○ 915,-										
ø27.0 ~ø27.4	YTDI 270 ☐ FSL KRUZ 270 ☐ FSL		T(3xD)	195	135	108	● 376,-	○ 431,-	○ IDP 400 ○ IDP 401 ○ IDP 402 ○ IDP 403 ○ IDP 404	€ 211,50								
			P(5xD)	249	189	162	● 515,-	○ 596,-			○ IDP 405 ○ IDP 406 ○ IDP 407 ○ IDP 408 ○ IDP 409				CS 280-295 SL			
			H(7xD)	303	243	216	○ 610,-	○ 705,-								○ IDP 410 ○ IDP 411 ○ IDP 412 ○ IDP 413 ○ IDP 414	CS 280-295 SL	
			L(10XD)	384	324	297	○ 791,-	○ 915,-										
ø27.5 ~ø27.9	YTDI 275 ☐ FSL KRUZ 275 ☐ FSL		T(3xD)	197	137	110	● 376,-	○ 431,-	○ IDP 415 ○ IDP 416 ○ IDP 417 ○ IDP 418 ○ IDP 419	€ 211,50								
			P(5xD)	252	192	165	● 515,-	○ 596,-			○ IDP 420 ○ IDP 421 ○ IDP 422 ○ IDP 423 ○ IDP 424				CS 280-295 SL			
			H(7xD)	307	247	220	○ 610,-	○ 705,-								○ IDP 425 ○ IDP 426 ○ IDP 427 ○ IDP 428 ○ IDP 429	CS 280-295 SL	
			L(10XD)	390	330	303	○ 791,-	○ 915,-										
ø28.0 ~ø28.4	YTDI 280 ☐ FSL KRUZ 280 ☐ FSL		T(3xD)	200	140	112	● 489,-	○ 568,-	○ IDP 430 ○ IDP 431 ○ IDP 432 ○ IDP 433 ○ IDP 434	€ 211,50								
			P(5xD)	256	196	168	● 515,-	○ 596,-			○ IDP 435 ○ IDP 436 ○ IDP 437 ○ IDP 438 ○ IDP 439				CS 280-295 SL			
			H(7xD)	312	252	224	○ 610,-	○ 707,-								○ IDP 440 ○ IDP 441 ○ IDP 442 ○ IDP 443 ○ IDP 444	CS 280-295 SL	
			L(10XD)	396	336	308	○ 791,-	○ 919,-										

● Disponibile - Lieferbar - On stock
○ Anrichiesta - Auf Anfrage - On request

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI STOCK PRICELIST €	KRUZ STOCK PRICELIST €	IDP	Cap Screw	Torx driver	Set Screw	L-wrench	
ø28.5 ~ø28.9	YTDI 285 ☐ FSL KRUZ 285 ☐ FSL	32.0	T(3xD)	202	142	114	39	● 489,-	○ 568,-	● IDP 285 ○ IDP 286 ○ IDP 287 ○ IDP 288 ○ IDP 289	CS 280-295 SL	T15 Torque 3.5Nm (Max)	M4x8	2.0 mm	
			P(5xD)	259	199	171		● 515,-	○ 596,-						€ 211,50
			H(7xD)	316	256	228		○ 610,-	○ 707,-						
			L(10xD)	402	342	314		○ 791,-	○ 919,-						
ø29.0 ~ø29.4	YTDI 290 ☐ FSL KRUZ 290 ☐ FSL		T(3xD)	205	145	116		● 489,-	○ 568,-	● IDP 290 ○ IDP 291 ○ IDP 292 ○ IDP 293 ○ IDP 294					
			P(5xD)	263	203	174		● 515,-	○ 596,-						
			H(7xD)	321	261	232		○ 610,-	○ 707,-						
			L(10xD)	408	348	319		○ 791,-	○ 919,-						
ø29.5 ~ø29.9	YTDI 295 ☐ FSL KRUZ 295 ☐ FSL		T(3xD)	207	147	118		● 489,-	○ 568,-	● IDP 295 ○ IDP 296 ○ IDP 297 ○ IDP 298 ○ IDP 299					€ 211,50
			P(5xD)	266	206	177		● 515,-	○ 596,-						
			H(7xD)	325	265	236		○ 610,-	○ 707,-						
			L(10xD)	414	354	325		○ 791,-	○ 919,-						
ø30.0 ~ø30.4	YTDI 300 ☐ FSL KRUZ 300 ☐ FSL		T(3xD)	209	149	120		● 489,-	○ 568,-	● IDP 300 ○ IDP 301 ○ IDP 302 ○ IDP 303 ○ IDP 304					€ 225,50
			P(5xD)	269	209	180		● 515,-	○ 596,-						
			H(7xD)	329	269	240		○ 621,-	○ 715,-						
			L(10xD)	419	359	330		○ 806,-	○ 928,-						
ø30.5 ~ø30.9	YTDI 305 ☐ FSL KRUZ 305 ☐ FSL		T(3xD)	212	152	122		● 489,-	○ 568,-	○ IDP 305 ○ IDP 306 ○ IDP 307 ○ IDP 308 ○ IDP 309					€ 225,50
			P(5xD)	273	213	183		● 515,-	○ 596,-						
			H(7xD)	334	274	244		○ 621,-	○ 715,-						
			L(10xD)	426	366	336		○ 806,-	○ 928,-						
ø31.0 ~ø31.4	YTDI 310 ☐ FSL KRUZ 310 ☐ FSL		T(3xD)	214	154	124		● 489,-	○ 568,-	○ IDP 310 ○ IDP 311 ○ IDP 312 ○ IDP 313 ○ IDP 314					€ 225,50
			P(5xD)	276	216	186		● 515,-	○ 596,-						
			H(7xD)	338	278	248		○ 621,-	○ 715,-						
			L(10xD)	431	371	341		○ 806,-	○ 928,-						
ø31.5 ~ø31.9	YTDI 315 ☐ FSL KRUZ 315 ☐ FSL		T(3xD)	217	157	126		● 489,-	○ 568,-	○ IDP 315 ○ IDP 316 ○ IDP 317 ○ IDP 318 ○ IDP 319					€ 225,50
			P(5xD)	280	220	189		● 515,-	○ 596,-						
			H(7xD)	343	283	252		○ 621,-	○ 715,-						
			L(10xD)	438	378	347		○ 806,-	○ 928,-						
ø32.0 ~ø32.4	YTDI 320 ☐ FSL KRUZ 320 ☐ FSL		T(3xD)	219	159	128		● 489,-	○ 568,-	○ IDP 320 ○ IDP 321 ○ IDP 322 ○ IDP 323 ○ IDP 324					€ 241,50
			P(5xD)	283	223	192		● 515,-	○ 596,-						
			H(7xD)	347	287	256		○ 621,-	○ 721,-						
			L(10xD)	443	383	352		○ 806,-	○ 937,-						
ø32.5 ~ø32.9	YTDI 325 ☐ FSL KRUZ 325 ☐ FSL		T(3xD)	221	161	130		● 489,-	○ 568,-	○ IDP 325 ○ IDP 326 ○ IDP 327 ○ IDP 328 ○ IDP 329					€ 241,50
			P(5xD)	286	226	195		● 515,-	○ 596,-						
			H(7xD)	351	291	260		○ 621,-	○ 721,-						
			L(10xD)	449	389	358		○ 806,-	○ 937,-						
ø33.0 ~ø33.4	YTDI 330 ☐ FSL KRUZ 330 ☐ FSL		T(3xD)	224	164	132		● 489,-	○ 568,-	○ IDP 330 ○ IDP 331 ○ IDP 332 ○ IDP 333 ○ IDP 334					€ 241,50
			P(5xD)	290	230	198		● 515,-	○ 596,-						
			H(7xD)	356	296	264		○ 621,-	○ 721,-						
			L(10xD)	455	395	363		○ 806,-	○ 937,-						
ø33.5 ~ø33.9	YTDI 335 ☐ FSL KRUZ 335 ☐ FSL		T(3xD)	226	166	134		● 489,-	○ 568,-	○ IDP 335 ○ IDP 336 ○ IDP 337 ○ IDP 338 ○ IDP 339					€ 241,50
			P(5xD)	293	233	201		● 515,-	○ 596,-						
			H(7xD)	360	300	268		○ 621,-	○ 721,-						
			L(10xD)	461	401	369		○ 806,-	○ 937,-						
ø34.0 ~ø34.4	YTDI 340 ☐ FSL KRUZ 340 ☐ FSL		T(3xD)	239	169	136		● 635,-	○ 742,-	○ IDP 340 ○ IDP 341 ○ IDP 342 ○ IDP 343 ○ IDP 344					€ 276,50
			P(5xD)	307	237	204		● 810,-	○ 1013,-						
			H(7xD)	375	305	272		○ 924,-	○ 1159,-						
			L(10xD)	477	407	374		○ 1200,-	○ 1505,-						
ø34.5 ~ø34.9	YTDI 345 ☐ FSL KRUZ 345 ☐ FSL		T(3xD)	241	171	138		○ 635,-	○ 742,-	○ IDP 345 ○ IDP 346 ○ IDP 347 ○ IDP 348 ○ IDP 349					€ 276,50
			P(5xD)	310	240	207		● 810,-	○ 1013,-						
			H(7xD)	379	309	276		○ 924,-	○ 1159,-						
			L(10xD)	483	413	380		○ 1200,-	○ 1505,-						
ø35.0 ~ø35.4	YTDI 350 ☐ FSL KRUZ 350 ☐ FSL		T(3xD)	243	173	140		○ 635,-	○ 742,-	○ IDP 350 ○ IDP 351 ○ IDP 352 ○ IDP 353 ○ IDP 354					€ 276,50
			P(5xD)	313	243	210		● 810,-	○ 1013,-						
			H(7xD)	383	313	280		○ 924,-	○ 1159,-						
			L(10xD)	488	418	385		○ 1200,-	○ 1505,-						
ø35.5 ~ø35.9	YTDI 355 ☐ FSL KRUZ 355 ☐ FSL		T(3xD)	246	176	142		○ 635,-	○ 742,-	○ IDP 355 ○ IDP 356 ○ IDP 357 ○ IDP 358 ○ IDP 359					€ 276,50
			P(5xD)	317	247	213		● 810,-	○ 1013,-						
			H(7xD)	388	318	284		○ 924,-	○ 1159,-						
			L(10xD)	495	425	391		○ 1200,-	○ 1505,-						
ø36.0 ~ø36.4	YTDI 360 ☐ FSL KRUZ 360 ☐ FSL		T(3xD)	248	178	144		○ 659,-	○ 768,-	○ IDP 360 ○ IDP 361 ○ IDP 362 ○ IDP 363 ○ IDP 364					€ 309,-
			P(5xD)	320	250	216		● 828,-	○ 1038,-						
			H(7xD)	392	322	288		○ 997,-	○ 1245,-						
			L(10xD)	500	430	396		○ 1296,-	○ 1618,-						

● Disponibile - Lieferbar - On stock
○ Arrchiesta - Auf Anfrage - On request

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI		KRUZ		IDP	Cap Screw	Torx driver	Set Screw	L-wrench
								STOCK	PRICELIST €	STOCK	PRICELIST €					
ø36.5 ~ø36.9	YTDI 365 ☐ FSL KRUZ 365 ☐ FSL		T(3xD)	251	181	146		○	659,-	○	768,-	○ IDP 365 ○ IDP 366 ○ IDP 367 ○ IDP 368 ○ IDP 369	€ 309,-			
			P(5xD)	324	254	219		●	828,-	○	1038,-					
			H(7xD)	397	327	292		○	997,-	○	1245,-					
			L(10XD)	507	347	402		○	1296,-	○	1618,-					
ø37.0 ~ø37.4	YTDI 370 ☐ FSL KRUZ 370 ☐ FSL		T(3xD)	253	183	148		○	659,-	○	768,-	○ IDP 370 ○ IDP 371 ○ IDP 372 ○ IDP 373 ○ IDP 374	€ 309,-			
			P(5xD)	327	257	222		●	828,-	○	1038,-					
			H(7xD)	401	331	296		○	997,-	○	1245,-					
			L(10XD)	512	442	407		○	1296,-	○	1618,-					
ø37.5 ~ø37.9	YTDI 375 ☐ FSL KRUZ 375 ☐ FSL		T(3xD)	255	185	150		○	659,-	○	768,-	○ IDP 375 ○ IDP 376 ○ IDP 377 ○ IDP 378 ○ IDP 379	€ 309,-			
			P(5xD)	330	260	225		●	828,-	○	1038,-					
			H(7xD)	405	335	300		○	997,-	○	1245,-					
			L(10XD)	518	448	413		○	1296,-	○	1618,-					
ø38.0 ~ø38.4	YTDI 380 ☐ FSL KRUZ 380 ☐ FSL		T(3xD)	258	188	152		○	659,-	○	781,-	○ IDP 380 ○ IDP 381 ○ IDP 382 ○ IDP 383 ○ IDP 384	€ 351,50	CS 360-395 SL	M5x10	2.5 mm
			P(5xD)	334	264	228		●	828,-	○	1049,-					
			H(7xD)	410	340	304		○	997,-	○	1264,-					
			L(10XD)	524	454	418		○	1296,-	○	1642,-					
ø38.5 ~ø38.9	YTDI 385 ☐ FSL KRUZ 385 ☐ FSL		T(3xD)	260	196	154		○	659,-	○	781,-	○ IDP 385 ○ IDP 386 ○ IDP 387 ○ IDP 388 ○ IDP 389	€ 351,50			
			P(5xD)	337	267	231		●	828,-	○	1049,-					
			H(7xD)	414	344	308		○	997,-	○	1264,-					
			L(10XD)	530	460	424		○	1296,-	○	1642,-					
ø39.0 ~ø39.4	YTDI 390 ☐ FSL KRUZ 390 ☐ FSL		T(3xD)	263	193	156		○	659,-	○	781,-	○ IDP 390 ○ IDP 391 ○ IDP 392 ○ IDP 393 ○ IDP 394	€ 351,50			
			P(5xD)	341	271	234		●	828,-	○	1049,-					
			H(7xD)	419	349	312		○	997,-	○	1264,-					
			L(10XD)	536	466	429		○	1296,-	○	1642,-					
ø39.5 ~ø39.9	YTDI 395 ☐ FSL KRUZ 395 ☐ FSL		T(3xD)	265	195	158		○	659,-	○	781,-	○ IDP 395 ○ IDP 396 ○ IDP 397 ○ IDP 398 ○ IDP 399	€ 351,50			
			P(5xD)	344	274	237		●	828,-	○	1049,-					
			H(7xD)	423	353	316		○	997,-	○	1264,-					
			L(10XD)	542	472	435		○	1296,-	○	1642,-					
ø40.0 ~ø40.4	YTDI 400 ☐ FSL KRUZ 400 ☐ FSL		T(3xD)	267	197	160		○	707,-	○	843,-	○ IDP 400 ○ IDP 401 ○ IDP 402 ○ IDP 403 ○ IDP 404	€ 387,50			
			P(5xD)	347	277	240		●	871,-	○	1094,-					
			H(7xD)	427	357	320		○	1020,-	○	1282,-					
			L(10XD)	547	477	440		○	1326,-	○	1667,-					
ø40.5 ~ø40.9	YTDI 405 ☐ FSL KRUZ 405 ☐ FSL		T(3xD)	270	200	162		○	707,-	○	843,-	○ IDP 405 ○ IDP 406 ○ IDP 407 ○ IDP 408 ○ IDP 409	€ 387,50	T20 Torque 4.0Nm (Max)		
			P(5xD)	351	281	243		●	871,-	○	1094,-					
			H(7xD)	432	362	324		○	1020,-	○	1282,-					
			L(10XD)	554	484	446		○	1326,-	○	1667,-					
ø41.0 ~ø41.4	YTDI 410 ☐ FSL KRUZ 410 ☐ FSL		T(3xD)	272	202	164		○	707,-	○	843,-	○ IDP 410 ○ IDP 411 ○ IDP 412 ○ IDP 413 ○ IDP 414	€ 387,50			
			P(5xD)	354	284	246		●	871,-	○	1094,-					
			H(7xD)	436	366	328		○	1020,-	○	1282,-					
			L(10XD)	559	489	451		○	1326,-	○	1667,-					
ø41.5 ~ø41.9	YTDI 415 ☐ FSL KRUZ 415 ☐ FSL		T(3xD)	275	205	166		○	707,-	○	843,-	○ IDP 415 ○ IDP 416 ○ IDP 417 ○ IDP 418 ○ IDP 419	€ 387,50			
			P(5xD)	358	288	249		●	871,-	○	1094,-					
			H(7xD)	441	371	332		○	1020,-	○	1282,-					
			L(10XD)	566	496	457		○	1326,-	○	1667,-					
ø42.0 ~ø42.4	YTDI 420 ☐ FSL KRUZ 420 ☐ FSL		T(3xD)	277	207	168		○	707,-	○	843,-	○ IDP 420 ○ IDP 421 ○ IDP 422 ○ IDP 423 ○ IDP 424	€ 429,-	CS 400-445 SL	M6x12	3.0 mm
			P(5xD)	361	291	252		●	1134,-	○	1384,-					
			H(7xD)	445	375	336		○	1329,-	○	1622,-					
			L(10XD)	571	501	462		○	1727,-	○	2108,-					
ø42.5 ~ø42.9	YTDI 425 ☐ FSL KRUZ 425 ☐ FSL		T(3xD)	279	209	170		○	707,-	○	843,-	○ IDP 425 ○ IDP 426 ○ IDP 427 ○ IDP 428 ○ IDP 429	€ 429,-			
			P(5xD)	364	294	255		○	1134,-	○	1384,-					
			H(7xD)	449	379	340		○	1329,-	○	1622,-					
			L(10XD)	577	507	468		○	1727,-	○	2108,-					
ø43.0 ~ø43.4	YTDI 430 ☐ FSL KRUZ 430 ☐ FSL		T(3xD)	282	212	172		○	707,-	○	843,-	○ IDP 430 ○ IDP 431 ○ IDP 432 ○ IDP 433 ○ IDP 434	€ 429,-			
			P(5xD)	368	298	258		○	1134,-	○	1384,-					
			H(7xD)	454	384	344		○	1329,-	○	1622,-					
			L(10XD)	583	513	473		○	1727,-	○	2108,-					
ø43.5 ~ø43.9	YTDI 435 ☐ FSL KRUZ 435 ☐ FSL		T(3xD)	284	214	174		○	707,-	○	843,-	○ IDP 435 ○ IDP 436 ○ IDP 437 ○ IDP 438 ○ IDP 439	€ 429,-			
			P(5xD)	371	301	261		○	1134,-	○	1384,-					
			H(7xD)	458	388	348		○	1329,-	○	1622,-					
			L(10XD)	589	519	479		○	1727,-	○	2108,-					
ø44.0 ~ø44.4	YTDI 440 ☐ FSL KRUZ 440 ☐ FSL		T(3xD)	287	217	176		○	836,-	○	1016,-	○ IDP 440 ○ IDP 441 ○ IDP 442 ○ IDP 443 ○ IDP 444	€ 475,50			
			P(5xD)	375	305	264		○	1156,-	○	1420,-					
			H(7xD)	463	393	352		○	1406,-	○	1722,-					
			L(10XD)	595	525	484		○	1829,-	○	2237,-					

● Disponibile - Lieferbar - On stock
○ Anrichiesta - Auf Anfrage - On request

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI		KRUZ						
								STOCK	PRICELIST	STOCK	PRICELIST					
ø44.5 ~ø44.9	YTDI 445 ☐ FSL KRUZ 445 ☐ FSL		T(3xD)	289	219	178		○	836,-	○	1016,-	IDP 445 IDP 446 IDP 447 IDP 448 IDP 449	CS 400 -445 SL			
			P(5xD)	378	308	267		○	1156,-	○	1420,-					
			H(7xD)	467	397	356		○	1406,-	○	1722,-					
			L(10xD)	601	531	490		○	1829,-	○	2237,-					
ø45.0 ~ø45.4	YTDI 450 ☐ FSL KRUZ 450 ☐ FSL		T(3xD)	291	221	180		○	836,-	○	1016,-	IDP 450 IDP 451 IDP 452 IDP 453 IDP 454	CS 400 -445 SL			
			P(5xD)	381	311	270		○	1156,-	○	1420,-					
			H(7xD)	471	401	360		○	1406,-	○	1722,-					
			L(10xD)	606	536	495		○	1829,-	○	2237,-					
ø45.5 ~ø45.9	YTDI 455 ☐ FSL KRUZ 455 ☐ FSL		T(3xD)	294	224	182		○	836,-	○	1016,-	IDP 455 IDP 456 IDP 457 IDP 458 IDP 459	CS 400 -445 SL			
			P(5xD)	385	315	273		○	1156,-	○	1420,-					
			H(7xD)	476	406	364		○	1406,-	○	1722,-					
			L(10xD)	613	543	501		○	1829,-	○	2237,-					
ø46.0 ~ø46.4	YTDI 460 ☐ FSL KRUZ 460 ☐ FSL		T(3xD)	296	226	184		○	836,-	○	1016,-	IDP 460 IDP 461 IDP 462 IDP 463 IDP 464	CS 400 -445 SL			
			P(5xD)	388	318	276		○	1156,-	○	1420,-					
			H(7xD)	480	410	368		○	1406,-	○	1722,-					
			L(10xD)	618	548	506		○	1829,-	○	2237,-					
ø46.5 ~ø46.9	YTDI 465 ☐ FSL KRUZ 465 ☐ FSL		T(3xD)	299	229	186		○	836,-	○	1016,-	IDP 465 IDP 466 IDP 467 IDP 468 IDP 469	CS 400 -445 SL			
			P(5xD)	392	322	279		○	1156,-	○	1420,-					
			H(7xD)	485	415	372		○	1406,-	○	1722,-					
			L(10xD)	625	555	512		○	1829,-	○	2237,-					
ø47.0 ~ø47.4	YTDI 470 ☐ FSL KRUZ 470 ☐ FSL		T(3xD)	301	231	188		○	836,-	○	1016,-	IDP 470 IDP 471 IDP 472 IDP 473 IDP 474	CS 400 -445 SL			
			P(5xD)	395	325	282		○	1156,-	○	1420,-					
			H(7xD)	489	419	376		○	1406,-	○	1722,-					
			L(10xD)	630	560	517		○	1829,-	○	2237,-					
ø47.5 ~ø47.9	YTDI 475 ☐ FSL KRUZ 475 ☐ FSL		T(3xD)	303	233	190		○	836,-	○	1016,-	IDP 475 IDP 476 IDP 477 IDP 478 IDP 479	CS 400 -445 SL			
			P(5xD)	398	328	285		○	1156,-	○	1420,-					
			H(7xD)	493	423	380		○	1406,-	○	1722,-					
			L(10xD)	636	566	523		○	1829,-	○	2237,-					
ø48.0 ~ø48.4	YTDI 480 ☐ FSL KRUZ 480 ☐ FSL		T(3xD)	306	236	192		○	872,-	○	1086,-	IDP 480 IDP 481 IDP 482 IDP 483 IDP 484	CS 400 -445 SL			
			P(5xD)	402	332	288		○	1200,-	○	1475,-					
			H(7xD)	498	428	384		○	1462,-	○	1795,-					
			L(10xD)	642	572	528		○	1900,-	○	2333,-					
ø48.5 ~ø48.9	YTDI 485 ☐ FSL KRUZ 485 ☐ FSL		T(3xD)	308	238	194		○	872,-	○	1086,-	IDP 485 IDP 486 IDP 487 IDP 488 IDP 489	CS 400 -445 SL			
			P(5xD)	405	335	291		○	1200,-	○	1475,-					
			H(7xD)	502	432	388		○	1462,-	○	1795,-					
			L(10xD)	648	578	534		○	1900,-	○	2333,-					
ø49.0 ~ø49.4	YTDI 490 ☐ FSL KRUZ 490 ☐ FSL		T(3xD)	311	241	196		○	872,-	○	1086,-	IDP 490 IDP 491 IDP 492 IDP 493 IDP 494	CS 400 -445 SL			
			P(5xD)	409	339	294		○	1200,-	○	1475,-					
			H(7xD)	507	437	392		○	1462,-	○	1795,-					
			L(10xD)	654	584	539		○	1900,-	○	2333,-					
ø49.5 ~ø49.9	YTDI 495 ☐ FSL KRUZ 495 ☐ FSL		T(3xD)	313	243	198		○	872,-	○	1086,-	IDP 495 IDP 496 IDP 497 IDP 498 IDP 499	CS 400 -445 SL			
			P(5xD)	412	342	297		○	1200,-	○	1475,-					
			H(7xD)	511	441	396		○	1462,-	○	1795,-					
			L(10xD)	660	590	545		○	1900,-	○	2333,-					
ø50.0 ~ø50.4	YTDI 500 ☐ FSL KRUZ 500 ☐ FSL		T(3xD)	315	245	200		○	872,-	○	1086,-	IDP 500 IDP 501 IDP 502 IDP 503 IDP 504	CS 400 -445 SL			
			P(5xD)	415	345	300		○	1200,-	○	1475,-					
			H(7xD)	515	445	400		○	1462,-	○	1795,-					
			L(10xD)	665	595	550		○	1900,-	○	2333,-					

T20
Torque
4.0Nm
(Max)
M6x12 3.0 mm

KRUZ-FSL Drills, Cutting Speed Recommendation

Drill. Dia	Condition	ø 8~16mm		ø 16~25mm		ø 25~32mm		ø 32~40mm		ø 40~50mm	
		Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)
Grey cast iron	(FC)	80~150	0.20~0.30	80~150	0.25~0.45	80~160	0.35~0.55	90~200	0.34~0.58	90~200	0.38~0.60
Nodular cast iron	(FCD)	80~140	0.15~0.25	80~140	0.22~0.45	80~150	0.32~0.52	90~180	0.35~0.62	90~200	0.38~0.60
Carbon steel	(S45C)	80~140	0.15~0.30	80~140	0.16~0.40	80~150	0.20~0.40	80~150	0.22~0.48	80~160	0.25~0.54
Alloy steel	(SCM440)	70~140	0.15~0.30	70~140	0.15~0.40	70~140	0.18~0.40	80~140	0.25~0.47	80~140	0.27~0.52
Hardened steel	(SKD11)	40~50	0.10~0.20	40~50	0.12~0.28	40~50	0.16~0.35	40~60	0.20~0.38	40~60	0.22~0.42
Stainless steel	(SUS)	30~40	0.10~0.20	35~50	0.10~0.22	35~50	0.15~0.28	40~55	0.18~0.30	40~55	0.22~0.32
Alluminium 13HB	(AL)	120~200	0.20~0.30	120~200	0.25~0.40	120~200	0.30~0.45	120~200	0.30~0.45	120~200	0.30~0.50

- This data is recommended for 3xDia, and should be reduced about 15-20% for 5xD, 7xD, 10xD drills.
- The data is normally suggested for oil-mist(MQL) coolant condition and also possible to run in other normal condition if machining environment like clamping etc. are secured in good.

SLIM CHUCK



HIGH QUALITY TOOLS



Mandrino a pinza ER Slim Chuck | Slim Chuck ER Spannzangenaufnahme ER Slim Chuck Extension Adaptor



Mandrino a pinza progettato senza ghiera, parte da un diametro di 8.6mm. In questo modo si raggiunge l'effetto migliore nel processo di estensione.

Spannzangenaufnahme ohne Oberwurfmutter, mindest Durchmesser 8,6mm. In dieser Weise, erreicht man den besten Effekt mit der Verlängerung.

Slim collet chuck designed without nut can get the smallest outside diameter of 8.6 mm. This can achieve the best effect on extended processing depth.

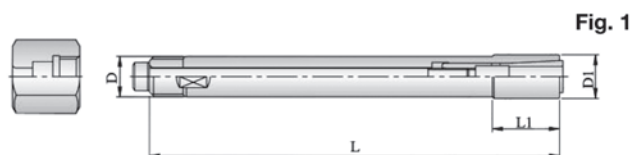


Fig. 1

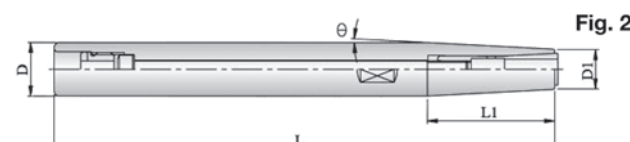
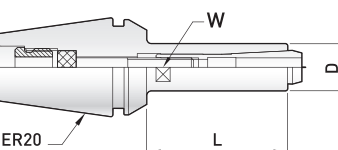
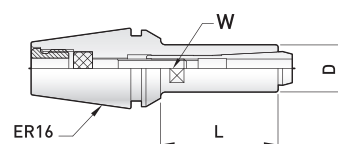


Fig. 2

CODICE ORDINE Bestell-Nr. Order No.	Fig.	DIMENSIONI Abmessungen Dimensions (mm.)							Pinza Spannzange Collet	Chiave Schlüssel Spanner	Vite Schraube Screw	Bussola Schraube Stop Screw	Estrattore Auszieher Stop Nut	STOCK	PRICELIST €
d	L	L1	D	D1	θ										
ST10-DC4-90	1	2-4	90	14	10	9	-	DC4	30194-632(M3)	M4L70	-	TP-M8	-	●	390,-
ST12-DC4-120	2	2-4	120	38	12	9	3°	DC4	30194-632(M3)	M4L85	OP-M8	-	-	●	435,50
ST12-DC6-120	1	1-6	120	40	12	14	-	DC6	30194-643(M4)	M5L95	-	TP-M12	-	●	390,-
ST16-DC6-150	2	1-6	150	35	16	14	3°	DC6	30194-643(M4)	M5L100	OP-M10	-	-	●	435,50
ST20-DC6-200	2	1-6	200	70	20	14	3°	DC6	30194-643(M4)	M5L100	OP-M10	-	-	●	544,50
ST25-DC6-250	2	1-6	250	115	25	14	3°	DC6	30194-644(M4)	M5L100	OP-M10	-	-	●	770,50
ST20-DC8-200	2	3-8	200	50	20	19	2°	DC8	30194-652(M5)	-	OP-M12	-	-	●	451,50



NEW ER

CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				Pinza Spannzange Collet	Chiave Schlüssel Spanner	STOCK	PRICELIST €
d	L	D	W					
ER16-DC4-25	2-4	25	9	8	DC4	30194-632(M3)	○	287,50
ER20-DC6-35	1-6	35	14	13	DC6	30194-643(M4)	○	287,50

● Disponibile - Lieferbar - On stock

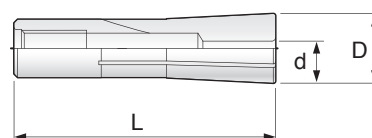
○ A richiesta - Auf Anfrage - On request

Pinze DC tipo E | DC Spannzangen type E | DC Collets type E



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				STOCK	PRICELIST €
d	L	L ₁	D			
DC4-2E	2	31	10	7	●	137,-
3E	3	31	14	7	●	121,50
4E	4	31	14	7	●	121,50
DC6-3E	3	36	14	9,6	●	121,50
4E	4	36	14	9,6	●	121,50
6E	6	36	16	9,6	●	121,50
DC8-3E	3	45	15	15	○	125,-
4E	4	45	16	15	○	125,-
6E	6	45	24	15	○	125,-
8E	8	45	26	15	○	125,-

Pinze DC tipo K | DC Spannzangen type K | DC Collets type K



CODICE ORDINE Bestell-Nr. Order No.	DIMENSIONI Abmessungen Dimensions (mm.)				STOCK	PRICELIST €
d	(d)	L	D			
DC6-1.0K	1.0	0.9 ~ 1.0	36	9,6	○	158,-
1.1K	1.1	1.0 ~ 1.1	36	9,6	○	158,-
1.2K	1.2	1.1 ~ 1.2	36	9,6	○	158,-
1.3K	1.3	1.2 ~ 1.3	36	9,6	○	158,-
1.4K	1.4	1.3 ~ 1.4	36	9,6	○	158,-
1.5K	1.5	1.4 ~ 1.5	36	9,6	○	158,-
1.6K	1.6	1.5 ~ 1.6	36	9,6	○	158,-
1.7K	1.7	1.6 ~ 1.7	36	9,6	○	158,-
1.8K	1.8	1.7 ~ 1.8	36	9,6	○	158,-
1.9K	1.9	1.8 ~ 1.9	36	9,6	○	158,-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Set DC Slim Chuck- mandrino + pinze | Set DC Slim Chuck - Aufnahme + Spannzangen
Set of DC Slim Chuck Extension Adaptor + collets



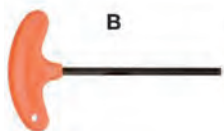
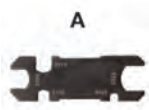
DC4

CODICE ORDINE Bestell-Nr. Order No.	Mandrino Aufnahme Collet Chuck	Pinza Spannzange Collet	Chiave (A) Schlüssel (A) Spanner (A)	Chiave (B) Schlüssel (B) Spanner (B)	STOCK	PRICELIST €
SST10-DC4-90	ST10-DC4-90	DC4-2E x 1 pc DC4-3E x 1 pc	30194-002	30194-632	●	699,50
SST12-DC4-120	ST12-DC4-120	DC4-4E x 1 pc			●	762,50

DC6

CODICE ORDINE Bestell-Nr. Order No.	Mandrino Aufnahme Collet Chuck	Pinza Spannzange Collet	Chiave (A) Schlüssel (A) Spanner (A)	Chiave (B) Schlüssel (B) Spanner (B)	STOCK	PRICELIST €
SST12-DC6-120	ST12-DC6-120	DC6-3E x 1 pc DC6-4E x 1 pc	30194-002	30194-643	●	699,50
SST16-DC6-150	ST16-DC6-150	DC6-6E x 1 pc			●	762,50

Chiave (A) Schlüssel (A) Spanner (A)	Chiave (B) Schlüssel (B) Spanner (B)	Vite Schraube Screw	Bussola Schraube Stop Screw	Estrattore Auszieher Stop Nut
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CODICE ORDINE Bestell-Nr. Order No.	CODICE ORDINE Bestell-Nr. Order No.	mm	L	CODICE ORDINE Bestell-Nr. Order No.	Filetto Gewinde Thread	L	CODICE ORDINE Bestell-Nr. Order No.	Filetto Gewinde Thread	CODICE ORDINE Bestell-Nr. Order No.	Filetto Gewinde Thread
30194-002	30194-632	3	100	M4L70	M4	70	OP-M8	M8(L)	TP-M8	M8(L)
	30194-643	4	150	M4L85	M4	85	OP-M10	M10(L)	TP-M12	M12(L)
	30194-644	4	200	M5L95	M5	95	OP-M12	M12(L)	Il filetto della bussola è sinistro Die Gewinde der Schraube ist links Thread of stop screw is leftward	
				M5L100	M5	100	OP-M16	M16(L)		

Il filetto della bussola è sinistro
Schraube = links Gewinde
Thread of stop screw is leftward

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

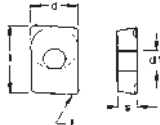
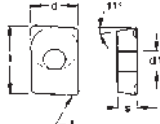
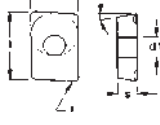
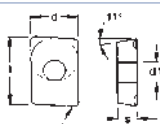
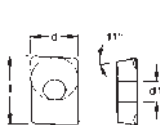
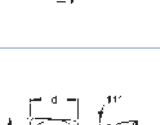
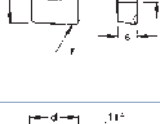
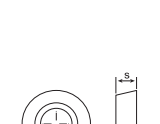
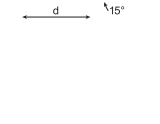
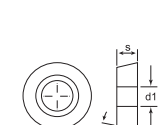
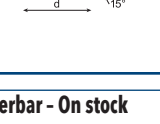


INSERTS



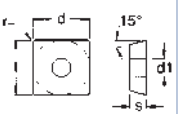
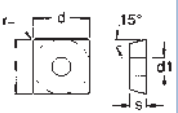
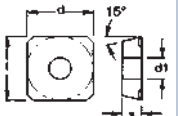
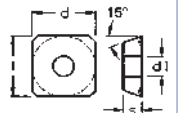
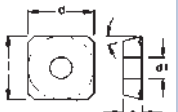
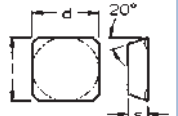
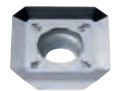
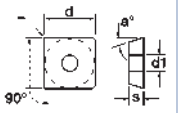
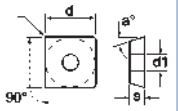
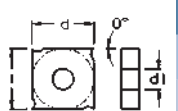
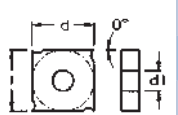
HIGH QUALITY TOOLS

NEW

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	-Dimensioni A-bmessungen -Dimensions- l d s d1 r					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated					
								k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD
 APMX		6,3	3,65	2,15	2,05	1	APMX 060210 MPH				13,50	13,50	13,50			
 APKT... PDTR-K		6,4	3,65	2,15	2	0,4	APKT 060204 PDTR-K							10,50		
 APKT... PDER-S		6,4	3,7	2,17	2	0,4	APKT 060204 PDER-S				10,50	10,50	10,50			
 APKT... PDER-S		10,5	6,7	3,5	2,8	0,4	APKT 1003 PDER-S				13,50	13,50	13,50			
 APKT... PDER-S		17	9,5	5,30	4,5	0,8	APKT 1604 PDER-S				15,50	15,50	15,50			
 APKT... PDR-M		10	6,7	3,5	3,2	0,5	APKT 1003 PDR-M							8,30		
 APKT... PDR-M		16,3	9,5	5,26	4,4	0,9	APKT 1604 PDR-M							10,10		
 APKT... PDFR... ALU		10,5	6,7	3,5	2,8	0,4	APKT 1003 PDFR-R04 ALU	15,30								
 APKT... PDFR... ALU		17	9,45	5,26	4,4	0,4	APKT 1604 PDFR-R04 ALU	16,40								
 APKT... PDFR... ALU		17	9,45	5,26	4,4	0,8	APKT 1604 PDFR-R08 ALU	16,40								
 APHX... ALU		10,3	6,35	3,18	2,8	0,4	APHX 1003 FR-ALU	18,-								
 APHX... ALU		17	9,52	4,76	4,4	0,2	APHX 1604 FR-ALU	18,40								
 APHX... ALU		16	9,52	4,76	4,4	0,8	APHX 1604 PDR-ALU	23,50								
 APHT... (INOX)		10,3	6,35	3,18	2,8	0,4	APHT 100304	13,50	13,50	13,50					16,90	16,90
 APHT... (INOX)		16	9,52	4,76	4,4	0,8	APHT 1604 PDR	15,50	15,50	15,50					18,40	19,40
 RDHT... ALU		-	5	1,59	-	-	RDHT 0501MOF ALU	11,20								
 RDHT... ALU		-	7	2,38	-	-	RDHT 0702MOF ALU	11,20								
 RDHT... ALU		-	10	3,18	-	-	RDHT 1003MOF ALU	11,20								
 RDHT... ALU		-	12	3,97	-	-	RDHT 12T3MOF ALU	11,70								
 RDHT... ALU		-	16	4,76	-	-	RDHT 1604MOF ALU	15,-								
 RDKW		-	5	1,5	2,2	-	RDKW 0501MOS-MP				9,40	9,40	9,40			
 RDKW		-	7	2,38	2,7	-	RDKW 0702MOS-MP				9,70	9,70	9,70			
 RDKW		-	10	3,18	3,9	-	RDKW 1003MOS-MP				10,50	10,50	10,50			
 RDKW		-	12	3,97	3,9	-	RDKW 12T3MOS-MP				12,40	12,40	12,40			
 RDKW		-	16	4,76	5,2	-	RDKW 1604MOS-MP				15,50	15,50	15,50			

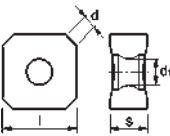
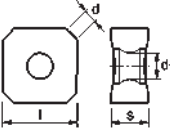
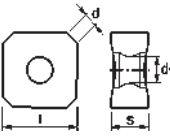
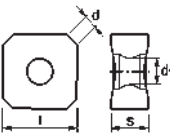
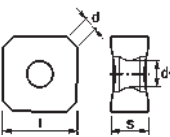
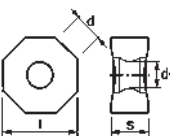
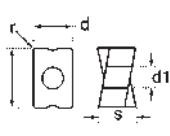
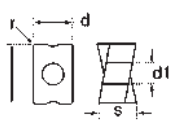
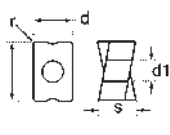
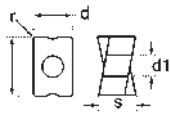
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated					
		l	d	s	d1	r		k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD
 SDMT... 69		12,7	12,7	5	4,4	0,8	SDMT 1205 PDR.69	● 19,40	● 19,40	● 19,40					● 21,50	● 21,50
 SDKT		12,7	12,7	4,76	5,5	-	SDKT 1204 AFTN						● 13,80			
 SDHX... ALU		12,7	12,7	4,76	5,5	-	SDHX 1204 ALU	● 23,-								
 SEKT		12,7	12,7	4,76	5,5	-	SEKT 1204 AFTN						● 13,80			
 SEHX 1204 ALU		12,7	12,7	4,76	5,5	-	SEHX 1204 ALU	● 23,-								
 SEKR		12,7	12,7	3,18	-	-	SEKR 1203 AFTN						● 13,80			
 SEHX 13T3 ALU		13,4	13,4	3,97	4,1	1,5	SEHX 13T3 ALU	● 29,-								
 SEHT 13T3		13,4	13,4	3,97	4,1	1,5	SEHT 13T3				● 19,40	● 19,40	● 19,40			
 SNHX		11	11	2,3	4,4		SNHX 1102T	● 12,80	● 12,80						● 14,80	● 15,80
		11	11	2,7	4,4		SNHX 1103T	● 12,80	● 12,80						● 14,80	● 15,80
		12,7	12,7	3,2	5		SNHX 1203T	● 13,80	● 13,80						● 16,90	● 15,80
		12,7	12,7	5,4	5		SNHX 1205T	● 15,-	● 14,80						● 17,50	● 17,90
 SNHX... ALU		11	11	2,3	4,4		SNHX 1102 ALU	● 18,40								
		11	11	2,7	4,4		SNHX 1103 ALU	● 19,40								
		12,7	12,7	3,2	5		SNHX 1203 ALU	● 20,40								
		12,7	12,7	5,4	5		SNHX 1205 ALU	● 21,-								

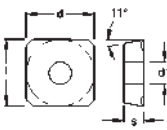
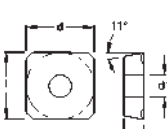
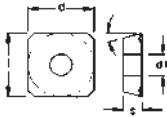
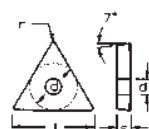
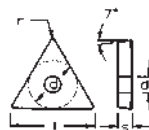
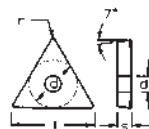
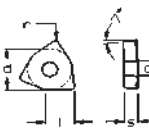
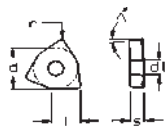
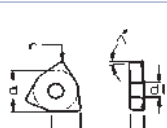
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated					
		l	d	s	d1	r		k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD
 SNEX 1206 ALU		12,7	2,5	6,4	5,2	2,36	SNEX 1206 ANN-MA ALU	● 20,-								
 SNKX 1206		12,7	2,5	6,4	5,2	2,36	SNKX 1206 ANN-MM1							● 12,80		
 SNMX 1206...MM1		12,7	2,5	6,4	5,2	2,36	SNMX 1206 ANN-MM1				○ 19,90	○ 19,90	○ 19,90			
 SNMX 1206...MB1		12,7	2,5	6,4	5,2	2,36	SNMX 1206 ANN-MB1				● 15,80	● 15,80	● 15,80			
 SNMU		12,7	2,5	6,9	5,4	0,8	SNMU 1206 ANER				● 15,80	● 15,80	● 15,80			
 ONMU		12,7	5,2	6	6	0,8	ONMU 1205 ANN MB				● 15,80	● 15,80	● 15,80			
 LNEX...		10	6,5	6,5	3,5	0,5	LNEX 100605 PNR-MA ALU	● 21,20								
		15	10	10	4,5	0,8	LNEX 151008 PNR-MA ALU	● 26,50								
 LNKX...		10	6,5	6,5	3,5	0,5	LNKX 100605 PNR-MM							● 14,30		
		15	10	10	4,5	0,8	LNKX 151008 PNR-MM							● 15,30		
 LNMX...MM		10	6,5	6,5	3,5	0,5	LNMX 100605 PNR-MM				○ 21,50	○ 21,50	○ 21,50			
		15	10	10	4,5	0,8	LNMX 151008 PNR-MM				○ 26,-	○ 26,-	○ 26,-			
 LNMX...MB		10	6,5	6,5	3,5	0,5	LNMX 100605 PNR-MB				● 16,40	● 16,40	● 16,40			
		15	10	10	4,5	0,8	LNMX 151008 PNR-MB				● 19,40	● 19,40	● 19,40			

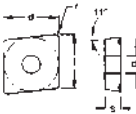
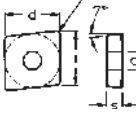
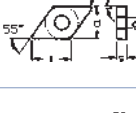
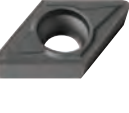
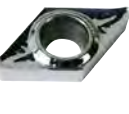
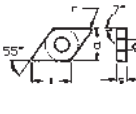
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated					
		l	d	s	d1	r		k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD
 SPMT		6,35	6,35	3,18	2,8	0,4	SPMT 060304						● 12,30			
		9,52	9,52	3,97	4,5	0,8	SPMT 09T308						● 13,30			
		12,7	12,7	4,76	5,5	0,8	SPMT 120408						● 14,30			
 SPGT... ALU		6,35	6,35	3,18	2,8	0,4	SPGT 060304 ALU	● 14,30								
		9,52	9,52	3,97	4,5	0,8	SPGT 09T308 ALU	● 15,30								
		12,7	12,7	4,76	5,5	0,8	SPGT 120408 ALU	● 16,40								
 SEEX		12,25	12,25	5,25	4,8	0,8	SEEX 12T408							● 24,50		
 TCMX		16,5	9,52	3,97	4,4	0,4	TCMX 16T3 ZR							● 21,50		
 TCMX		16,5	9,52	3,97	4,4	0,8	TCMX 16T308 ZR								● 21,50	
 TCGX		16,5	9,52	3,3	4,4	0,4	TCGX 163504						● 22,50			
 WNEU 04...		4	6,7	3,3	3,2	0,4	WNEU 040304-MB				● 16,-	● 16,-	● 16,-			
		4	6,7	3,3	3,2	0,8	WNEU 040308-MM				● 16,-	● 16,-	● 16,-			
 WNEU08... MB		7,5	12,5	6,56	4,6	0,8	WNEU 080608-MB				● 19,40	● 19,40	● 19,40			
 WNEU08... MM		7,5	12,5	6,56	4,5	0,8	WNEU 080608-MM				○ 19,40	○ 19,40	○ 19,40			
 WNEX		7,5	12,5	6,56	4,5	0,8	WNEX 080608-ALU	● 22,50								

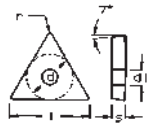
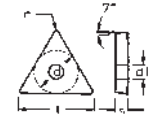
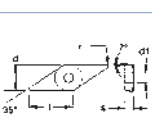
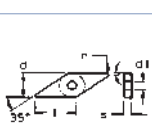
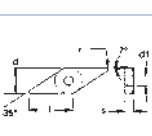
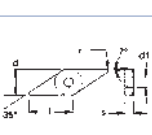
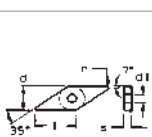
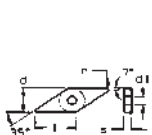
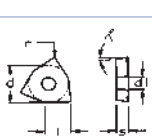
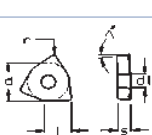
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated					CERMET	
		l	d	s	d1	r		k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD	X99
 CPMT		5,6	5,56	1,97	0,4	CPMT 05T104						16,90					
					0,2	CPMT 05T102 EN-PM1											
					0,2	CPMT 05T102 EN-PS2				12,30							
					0,4	CPMT 05T104 EN-PM1									12,30		
					0,4	CPMT 05T104 EN-PS2				12,30							
 CPGT...ALU		5,6	5,56	1,97	2,5	0,2	CPGT 05T102 FN-ALU	18,40									
					0,4	CPGT 05T104 FN-ALU	18,40										
 CCMT		6,4	6,35	2,38	2,8	0,2	CCMT 060202						11,30				
					0,4	CCMT 060204							10,70				
					0,4	CCMT 09T304							11,70				
					0,8	CCMT 09T308							11,70				
					0,4	CCMT 120404							14,80				
					0,8	CCMT 120408							14,80				
					0,2	CCGT 030102 L/R-F							21,60				
 CCGT		6,4	6,35	2,38	2,8	0,2	CCGT 060202	14,50									
					0,4	CCGT 060204	14,50										
					0,2	CCGT 09T302	18,30										
					0,4	CCGT 09T304	18,30										
					0,8	CCGT 09T308	18,30										
					0,2	CCGT 120402	19,40										
					0,4	CCGT 120404	19,40										
					0,8	CCGT 120408	19,40										
 CDGT		4,03	3,97	1	2,1	0,1	CDGT 040101 FN-ALU	17,-									
					0,2	CDGT 040102 FN-ALU	17,-										
					0,4	CDGT 040104 FN-ALU	17,-										
					0,2	CDGT 040102 FN							17,80				
					0,4	CDGT 040104 FN							17,80				
 DCGT...ALU		3,78	3,1	1,2	1,7	0,2	DCGT 04T002 FN-ALU	22,-									
						0,2	DCGT 04T002 EN-PM1							23,-			
 DCMT		7,75	6,35	2,38	2,8	0,2	DCMT 070202							11,30			
					0,4	DCMT 070204							10,70				
					0,2	DCMT 11T302							12,80				
					0,4	DCMT 11T304							12,80				
					0,8	DCMT 11T308							12,80				
 DCGT		7,75	6,35	2,38	2,8	0,2	DCGT 070202	14,50									
					0,4	DCGT 070204	14,50										
					0,2	DCGT 11T302	16,60										
					0,4	DCGT 11T304	16,60										
					0,8	DCGT 11T308	16,60										
 SCMT		6,35	6,35	2,38	2,8	0,4	SCMT 060204							13,-			
					0,8	SCMT 09T308							13,-				
					0,8	SCMT 120408							14,30				

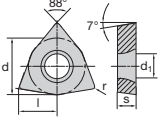
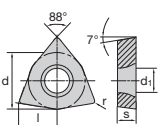
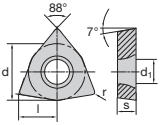
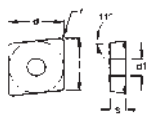
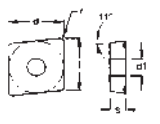
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated						CERMET	
		l	d	s	d1	r		k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD	X99	X55
 SCGT		9,525	9,525	3,97	4,4	0,4	SCGT 09T304	● 17,40										
		9,525	9,525	3,97	4,4	0,8	SCGT 09T308	● 17,40										
		12,7	12,7	4,76	5,5	0,8	SCGT 120408	● 19,90										
 TCMT		8,2	4,76	2,38	2,3	0,4	TCMT 080204							● 16,90				
		11	6,35	2,38	2,8	0,2	TCMT 110202							● 10,20				
		11	6,35	2,38	2,6	0,4	TCMT 110204							● 9,70				
		16	9,52	3,97	4,4	0,4	TCMT 16T304							● 12,80				
		18	9,52	3,97	4,4	0,6	TCMT 16T308							● 12,80				
 TCGT		11	6,35	2,38	2,8	0,2	TCGT 110202	● 14,30										
		11	6,35	2,38	2,8	0,4	TCGT 110204	● 13,80										
		16,5	9,52	3,97	4,4	0,4	TCGT 16T304	● 18,40										
		16,5	9,52	3,97	4,4	0,8	TCGT 16T308	● 18,40										
 VBMT		11,1	6,35	3,18	2,9	0,4	VBMT 110304							● 11,70				
		16,6	9,52	4,76	4,4	0,4	VBMT 160404							● 13,80				
		16,6	9,52	4,76	4,4	0,8	VBMT 160408							● 13,80				
 VCGT...EN-PM1		5,40	3,10	1,59	1,7	0,1	VCGT 050101 EN-PM1							○ 23,-				
		5,40	3,10	1,59	1,7	0,2	VCGT 050102 EN-PM1							● 23,-				
 VCMT...EN-PM1		6,92	3,97	2,38	2,2	0,2	VCMT 070202 EN-PM1							● 13,50				
		6,92	3,97	2,38	2,2	0,4	VCMT 070204 EN-PM1							● 13,50				
 VCMT		11,1	6,35	3,18	2,9	0,4	VCMT 110304							● 21,50				
		16,6	9,52	4,76	4,4	0,4	VCMT 160404							● 21,50				
		16,6	9,52	4,76	4,4	0,8	VCMT 160408							● 21,50				
 VCGT...FN-ALU		5,40	3,10	1,59	1,7	0,2	VCGT 050102 FN-ALU	● 22,-										
		6,92	3,97	2,38	2,2	0,1	VCGT 070201 FN-ALU	● 19,50										
		6,92	3,97	2,38	2,2	0,2	VCGT 070202 FN-ALU	● 18,50										
		6,92	3,97	2,38	2,2	0,4	VCGT 070204 FN-ALU	● 18,50										
 VCGT		11,1	6,35	3,18	2,9	0,2	VCGT 110302	● 14,50										
		11,1	6,35	3,18	2,9	0,4	VCGT 110304	● 14,50										
		11,1	6,35	3,18	2,9	0,8	VCGT 110308	● 14,50										
		16,6	9,52	4,76	4,4	0,4	VCGT 160404	● 18,90										
		16,6	9,52	4,76	4,4	0,8	VCGT 160408	● 18,90										
 WCGT...ALU						0,1	WCGT 020101 FN-ALU	● 19,40										
		2,7	3,97	1,59	2,2	0,2	WCGT 020102 FN-ALU	● 19,40										
						0,4	WCGT 020104 FN-ALU	● 19,40										
 WCMT		2,7	3,97	1,59	2,2	0,2	WCMT 020102											● 18,40
		2,7	3,97	1,59	2,2	0,4	WCMT 020104											● 18,40

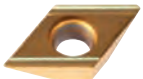
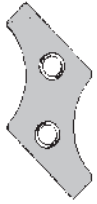
● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated					
		l	d	s	d1	r		k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD
		4,0	6,35	1,59	2,25	0,2	WCHX 040102FN-BAL LW610	● 23,20								
		4,0	6,35	1,59	2,25	0,4	WCHX 040104FN-BAL LW610	● 23,20								
		5,0	7,93	1,98	2,80	0,2	WCHX 05T102FN-BAL LW610	● 23,70								
		5,0	7,93	1,98	2,80	0,4	WCHX 05T104FN-BAL LW610	● 23,70								
		5,5	8,93	2,38	2,80	0,2	WCHX 060202FN-BAL LW610	● 23,70								
		5,5	8,93	2,38	2,80	0,4	WCHX 060204FN-BAL LW610	● 23,70								
		7,5	12,00	3,18	3,40	0,4	WCHX 070304FN-BAL LW610	● 24,30								
		7,5	12,00	3,18	3,40	0,8	WCHX 070308FN-BAL LW610	● 24,30								
		9,0	14,29	3,18	4,40	0,4	WCHX 090304FN-BAL LW610	● 24,80								
		9,0	14,29	3,18	4,40	0,8	WCHX 090308FN-BAL LW610	● 24,80								
		10,0	15,87	3,97	5,90	0,4	WCHX 10T304FN-BAL LW610	● 24,80								
		10,0	15,87	3,97	5,90	0,8	WCHX 10T308FN-BAL LW610	● 24,80								
		13,0	21,00	5,56	7,00	0,8	WCHX 130508FN-BAL LW610	● 31,70								
		4,0	6,35	1,59	2,25	0,2	WCHX 040102EN-BFM LCP25T							● 20,50		
		4,0	6,35	1,59	2,25	0,4	WCHX 040104EN-BFM LCP25T							● 20,50		
		5,0	7,93	1,98	2,80	0,2	WCHX 05T102EN-BFM LCP25T							● 21,70		
		5,0	7,93	1,98	2,80	0,4	WCHX 05T104EN-BFM LCP25T							● 21,70		
		5,5	8,37	2,38	2,80	0,2	WCHX 060202EN-BFM LCP25T							● 21,70		
		5,5	8,37	2,38	2,80	0,4	WCHX 060204EN-BFM LCP25T							● 21,70		
		7,5	12,00	3,18	3,40	0,4	WCHX 070304EN-BFM LCP25T							● 21,70		
		7,5	12,00	3,18	3,40	0,8	WCHX 070308EN-BFM LCP25T							● 21,70		
		9,0	14,29	3,18	4,40	0,4	WCHX 090304EN-BFM LCP25T							● 22,70		
		9,0	14,29	3,18	4,40	0,8	WCHX 090308EN-BFM LCP25T							● 22,70		
		10,0	15,87	3,97	5,90	0,4	WCHX 10T304EN-BFM LCP25T							● 23,20		
		10,0	15,87	3,97	5,90	0,8	WCHX 10T308EN-BFM LCP25T							● 23,20		
		13,0	21,00	5,56	7,00	0,8	WCHX 130508EN-BFM LCP25T							● 28,50		
		4,0	6,35	1,59	2,25	0,2	WCHX 040102EN-BFM LCM45T					● 20,50				
		4,0	6,35	1,59	2,25	0,4	WCHX 040104EN-BFM LCM45T					● 20,50				
		5,0	7,93	1,98	2,80	0,2	WCHX 05T102EN-BFM LCM45T					● 21,70				
		5,0	7,93	1,98	2,80	0,4	WCHX 05T104EN-BFM LCM45T					● 21,70				
		5,5	8,93	2,38	2,80	0,2	WCHX 060202EN-BFM LCM45T					● 21,70				
		5,5	8,93	2,38	2,80	0,4	WCHX 060204EN-BFM LCM45T					● 21,70				
		7,5	12,00	3,18	3,40	0,4	WCHX 070304EN-BFM LCM45T					● 21,70				
		7,5	12,00	3,18	3,40	0,8	WCHX 070308EN-BFM LCM45T					● 21,70				
		9,0	14,29	3,18	4,40	0,4	WCHX 090304EN-BFM LCM45T					● 22,70				
		9,0	14,29	3,18	4,40	0,8	WCHX 090308EN-BFM LCM45T					● 22,70				
		10,0	15,87	3,97	5,90	0,4	WCHX 10T304EN-BFM LCM45T					● 23,20				
		10,0	15,87	3,97	5,90	0,8	WCHX 10T308EN-BFM LCM45T					● 23,20				
		13,0	21,00	5,56	7,00	0,8	WCHX 130508EN-BFM LCM45T					● 28,50				
		4,6	4,2	2,1	2,6	0,4	XPMT 042004					● 15,80	○ 15,80			
		5,5	5,0	2,9	2,9	0,4	XPMT 052804					● 16,90	○ 16,90			
		6,6	6,0	3,5	3,4	0,6	XPMT 063306					● 16,90	○ 16,90			
		8,3	7,5	4,2	3,9	0,6	XPMT 074006					● 18,-	○ 18,-			
		10,6	9,6	4,7	5,7	0,8	XPMT 094508					● 20,-	○ 20,-			
		13,6	12,4	6,0	7,5	1,2	XPMT 125812					● 20,-	○ 20,-			
		16,7	15,2	7,0	9,5	1,2	XPMT 156812					● 22,20	○ 22,20			
		4,6	4,2	2,1	2,6	0,4	XPMT 042004 ALU	○ 22,30								
		5,5	5,0	2,9	2,9	0,4	XPMT 052804 ALU	○ 24,20								
		6,6	6,0	3,5	3,4	0,6	XPMT 063306 ALU	○ 24,80								
		8,3	7,5	4,2	3,9	0,6	XPMT 074006 ALU	○ 25,70								
		10,6	9,6	4,7	5,7	0,8	XPMT 094508 ALU	○ 29,-								
		13,6	12,4	6,0	7,5	1,2	XPMT 125812 ALU	○ 30,30								
		16,7	15,2	7,0	9,5	1,2	XPMT 156812 ALU	○ 32,50								

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

CODICE ORDINE Bestell-Nr. Order No.	Figura Form Figure	Dimensioni Abmessungen Dimensions					Denominazione Bezeichnung Designation	Non Rivestiti Unbeschichte Uncoated			Rivestiti Beschichtet Coated						CERMET	
		l	d	s	d1	r		k15	P25	P40	P200	P300	K300	K400	TIN PVD	TIALN PVD	X99	X55
 C22... - C32...							C22 GUX NK5050								● 46,-			
							C32 GUX NK5050								● 50,-			
 DCET 11X304							DCET 11X304								● 92,-			
 T32GSR							T32GSR-1R NK2020	○ 68,-								○ 79,-		
							T32GSR-2R NK2020	○ 68,-								○ 79,-		
							T32GSR-3R NK2020	○ 68,-								○ 79,-		
 N43GXR							N43GXR-1R NK2020	● 53,50								○ 59,-		
							N43GXR-2R NK2020	● 53,50								○ 62,-		
							N43GXR-3R NK2020	● 53,50								○ 62,-		
							N43GXR-4R NK2020	● 53,50								○ 62,-		
							N43GXR-5R NK2020	● 104,50								○ 106,50		
							N43GXR-1-2-3-4 NK2020	● 53,50								○ 62,-		
							N54GCR-5R NK2020	● 77,50								○ 90,-		
 N54GCR							N54GCR-6R NK2020	● 122,50								○ 132,-		
							N54GCR-7R NK2020	○ 122,50								○ 132,-		
							N54GCR-8R NK2020	● 77,50								○ 90,-		
							N54GCR-9R NK2020	○ 122,50								○ 132,-		
							N54GCR-10R NK2020	● 77,50								○ 90,-		
 TM32 GUR							TM32 GUR HSS	● 42,-										
 TM32 GSR							TM32 GSR HSS	● 61,-								● 67,-		
 TXMT							TXMT 080206	○ 42,50								○ 44,50		
							TXMT 110306	○ 46,50								○ 48,50		
							TXMT 16T306	○ 50,50								○ 53,-		
							TXMT 270506	○ 70,50								○ 72,50		
 X63GUR							X63 GUR NK2020								○ 111,50	○ 112,50		
 XNEW3004							XNEW 3004-11R NK2020	○ 781,50										
							XNEW 3004-12R NK2020	○ 781,50										
							XNEW 3004-13R NK2020	○ 781,50										
							XNEW 3004-14R NK2020	○ 781,50										
							XNEW 3004-15R NK2020	○ 781,50										
							XNEW 3004-16R NK2020	○ 781,50										
							XNEW 3004-17R NK2020	○ 781,50										
							XNEW 3004-18R NK2020	○ 781,50										
							XNEW 3004-19R NK2020	○ 781,50										
							XNEW 3004-20R NK2020	○ 781,50										

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

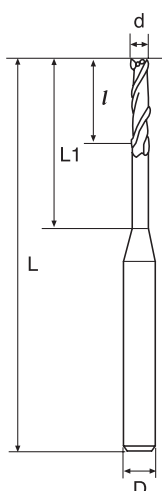
SPEED TIGER



H I G H Q U A L I T Y T O O L S

Square series - long neck - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 µm



MODE	Diameter d	Flute Length l	Efficient Length L1	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
LNT05022 AITiN	0.5	0.75	2	50	4	2	0,010	●	42,-
LNT05042 AITiN	0.5	0.75	4	50	4	2	0,010	●	42,-
LNT05062 AITiN	0.5	0.75	6	50	4	2	0,010	●	42,-
LNT06022 AITiN	0.6	0.9	2	50	4	2	0,010	●	39,-
LNT06042 AITiN	0.6	0.9	4	50	4	2	0,010	●	39,-
LNT06062 AITiN	0.6	0.9	6	50	4	2	0,010	●	39,-
LNT07042 AITiN	0.7	1.1	4	50	4	2	0,010	●	39,-
LNT07062 AITiN	0.7	1.1	6	50	4	2	0,010	●	39,-
LNT08042 AITiN	0.8	1.2	4	50	4	2	0,010	●	39,-
LNT08062 AITiN	0.8	1.2	6	50	4	2	0,010	●	39,-
LNT08082 AITiN	0.8	1.2	8	50	4	2	0,010	●	39,-
LNT09062 AITiN	0.9	1.4	6	50	4	2	0,010	●	39,-
LNT09082 AITiN	0.9	1.4	8	50	4	2	0,010	●	39,-
LNT09102 AITiN	0.9	1.4	10	50	4	2	0,010	●	39,-
LNT10062 AITiN	1	1.5	6	50	4	2	0,010	●	31,-
LNT10082 AITiN	1	1.5	8	50	4	2	0,010	●	31,-
LNT10102 AITiN	1	1.5	10	50	4	2	0,010	●	31,-
LNT10122 AITiN	1	1.5	12	50	4	2	0,010	●	31,-
LNT10162 AITiN	1	1.5	16	50	4	2	0,010	●	31,-
LNT12062 AITiN	1.2	1.8	6	50	4	2	0,010	●	39,-
LNT12082 AITiN	1.2	1.8	8	50	4	2	0,010	●	39,-
LNT12102 AITiN	1.2	1.8	10	50	4	2	0,010	●	39,-
LNT12122 AITiN	1.2	1.8	12	50	4	2	0,010	●	39,-
LNT14062 AITiN	1.4	2.1	6	50	4	2	0,010	●	39,-
LNT14102 AITiN	1.4	2.1	10	50	4	2	0,010	●	39,-
LNT14162 AITiN	1.4	2.1	16	50	4	2	0,010	●	39,-
LNT15062 AITiN	1.5	2.3	6	50	4	2	0,010	●	31,-
LNT15082 AITiN	1.5	2.3	8	50	4	2	0,010	●	31,-
LNT15102 AITiN	1.5	2.3	10	50	4	2	0,010	●	31,-
LNT15122 AITiN	1.5	2.3	12	50	4	2	0,010	●	31,-
LNT15142 AITiN	1.5	2.3	14	50	4	2	0,010	●	31,-
LNT15162 AITiN	1.5	2.3	16	50	4	2	0,010	●	31,-
LNT15182 AITiN	1.5	2.3	18	50	4	2	0,010	●	31,-
LNT15202 AITiN	1.5	2.3	20	50	4	2	0,010	●	31,-
LNT16062 AITiN	1.6	2.4	6	50	4	2	0,010	●	39,-
LNT16082 AITiN	1.6	2.4	8	50	4	2	0,010	●	39,-
LNT16102 AITiN	1.6	2.4	10	50	4	2	0,010	●	39,-
LNT16122 AITiN	1.6	2.4	12	50	4	2	0,010	●	39,-

Application: ■ Recommend □ Suitable x Not Recommend

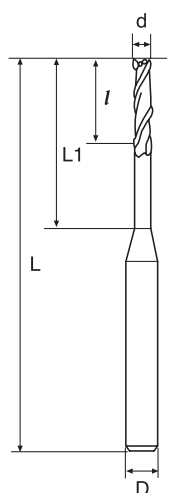
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	□	□	□		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Square series - long Neck - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 µm



MODE	Diameter d	Flute Length l	Efficient Length L1	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
LNT16142 AITiN	1.6	2.4	14	50	4	2	0,010	●	39,-
LNT16162 AITiN	1.6	2.4	16	50	4	2	0,010	●	39,-
LNT16182 AITiN	1.6	2.4	18	50	4	2	0,010	●	39,-
LNT18082 AITiN	1.8	2.7	8	50	4	2	0,010	●	39,-
LNT18142 AITiN	1.8	2.7	14	50	4	2	0,010	●	39,-
LNT18202 AITiN	1.8	2.7	20	50	4	2	0,010	●	39,-
LNT20062 AITiN	2	3	6	50	4	2	0,010	●	31,-
LNT20082 AITiN	2	3	8	50	4	2	0,010	●	31,-
LNT20102 AITiN	2	3	10	50	4	2	0,010	●	31,-
LNT20122 AITiN	2	3	12	50	4	2	0,010	●	31,-
LNT20142 AITiN	2	3	14	50	4	2	0,010	●	31,-
LNT20162 AITiN	2	3	16	50	4	2	0,010	●	31,-
LNT20182 AITiN	2	3	18	50	4	2	0,010	●	31,-
LNT20202 AITiN	2	3	20	50	4	2	0,010	●	31,-
LNT25082 AITiN	2.5	4	8	50	4	2	0,010	●	31,-
LNT25102 AITiN	2.5	4	10	50	4	2	0,010	●	31,-
LNT25122 AITiN	2.5	4	12	50	4	2	0,010	●	31,-
LNT25142 AITiN	2.5	4	14	50	4	2	0,010	●	31,-
LNT25162 AITiN	2.5	4	16	50	4	2	0,010	●	31,-
LNT25202 AITiN	2.5	4	20	50	4	2	0,010	●	31,-
LNT30082 AITiN	3	4.5	8	50	6	2	0,020	●	34,-
LNT30102 AITiN	3	4.5	10	50	6	2	0,020	●	34,-
LNT30122 AITiN	3	4.5	12	50	6	2	0,020	●	34,-
LNT30162 AITiN	3	4.5	16	60	6	2	0,020	●	39,50
LNT30202 AITiN	3	4.5	20	60	6	2	0,020	●	39,50
LNT30252 AITiN	3	4.5	25	75	6	2	0,020	●	39,50
LNT35122 AITiN	3.5	6	12	50	6	2	0,020	●	34,-
LNT35162 AITiN	3.5	6	16	60	6	2	0,020	●	41,50
LNT35202 AITiN	3.5	6	20	75	6	2	0,020	●	41,50
LNT35252 AITiN	3.5	6	25	75	6	2	0,020	●	41,50
LNT35302 AITiN	3.5	6	30	75	6	2	0,020	●	41,50
LNT40122 AITiN	4	6	12	50	6	2	0,020	●	34,-
LNT40162 AITiN	4	6	16	60	6	2	0,020	●	41,50
LNT40202 AITiN	4	6	20	75	6	2	0,020	●	41,50
LNT40252 AITiN	4	6	25	75	6	2	0,020	●	41,50
LNT40302 AITiN	4	6	30	75	6	2	0,020	●	41,50
LNT40352 AITiN	4	6	35	75	6	2	0,020	●	41,50

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

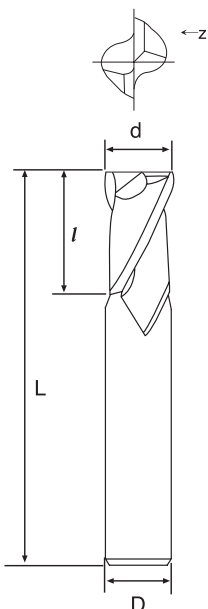
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
☐	☒	☒	☐			☐		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Square series - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z		STOCK	PRICELIST €
SSE0102 TiSiN	1	3	50	3	2	0,020	○	16,-
MSE0102 TiSiN	1	3	50	4	2	0,020	●	16,-
SSE0152 TiSiN	1.5	4	50	3	2	0,020	○	16,-
MSE0152 TiSiN	1.5	4	50	4	2	0,020	●	16,-
SSE0202 TiSiN	2	6	50	3	2	0,020	○	16,-
MSE0202 TiSiN	2	6	50	4	2	0,020	●	16,-
SSE0252 TiSiN	2.5	8	50	3	2	0,020	○	16,-
MSE0252 TiSiN	2.5	8	50	4	2	0,020	●	16,-
SSE0302 TiSiN	3	8	50	3	2	0,020	○	16,-
MSE0302 TiSiN	3	8	50	4	2	0,020	●	16,-
MSE0352 TiSiN	3.5	10	50	4	2	0,020	●	16,-
MSE0402 TiSiN	4	11	50	4	2	0,020	●	16,-
SE0102 TiSiN	1	3	50	6	2	0,020	●	22,-
SE0152 TiSiN	1.5	4	50	6	2	0,020	●	22,-
SE0202 TiSiN	2	6	50	6	2	0,020	●	22,-
SE0252 TiSiN	2.5	8	50	6	2	0,020	●	22,-
SE0302 TiSiN	3	8	50	6	2	0,020	●	22,-
SE0352 TiSiN	3.5	10	50	6	2	0,020	●	22,-
SE0402 TiSiN	4	11	50	6	2	0,020	●	22,-
SE0452 TiSiN	4.5	13	50	6	2	0,020	●	22,-
SE0502 TiSiN	5	13	50	6	2	0,020	●	22,-
SE0552 TiSiN	5.5	13	50	6	2	0,020	●	22,-
SE0602 TiSiN	6	16	50	6	2	0,020	●	22,-
SE0652 TiSiN	6.5	16	60	8	2	0,040	●	41,-
SE0702 TiSiN	7	16	60	8	2	0,040	●	41,-
SE0752 TiSiN	7.5	19	60	8	2	0,040	●	41,-
SE0802 TiSiN	8	20	60	8	2	0,040	●	41,-
SE0852 TiSiN	8.5	20	75	10	2	0,080	●	59,-
SE0902 TiSiN	9	20	75	10	2	0,080	●	59,-
SE0952 TiSiN	9.5	25	75	10	2	0,080	●	59,-
SE1002 TiSiN	10	25	75	10	2	0,080	●	59,-
SE1052 TiSiN	10.5	25	75	12	2	0,100	●	81,-
SE1102 TiSiN	11	30	75	12	2	0,110	●	81,-
SE1152 TiSiN	11.5	30	75	12	2	0,110	●	81,-
SE1202 TiSiN	12	32	75	12	2	0,110	●	81,-
SE1402 TiSiN	14	40	100	16	2	0,240	●	184,50
SE1602 TiSiN	16	40	100	16	2	0,290	●	184,50
SE1802 TiSiN	18	45	100	20	2	0,360	●	237,-
SE2002 TiSiN	20	45	100	20	2	0,390	●	237,-

Application: ■ Recommend □ Suitable x Not Recommend

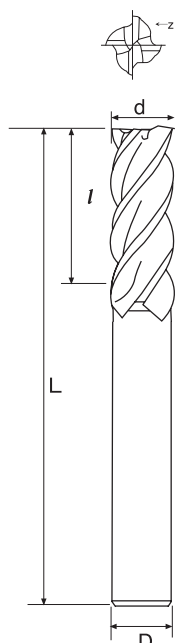
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	~55HRC	~60HRC	~65HRC	□	

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Square series - 4 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
SSE0104 TiSiN	1	3	50	3	4	0,020	○	16,-
MSE0104 TiSiN	1	3	50	4	4	0,020	●	16,-
SSE0154 TiSiN	1.5	4	50	3	4	0,020	○	16,-
MSE0154 TiSiN	1.5	4	50	4	4	0,020	●	16,-
SSE0204 TiSiN	2	6	50	3	4	0,020	○	16,-
MSE0204 TiSiN	2	6	50	4	4	0,020	●	16,-
SSE0254 TiSiN	2.5	8	50	3	4	0,020	○	16,-
MSE0254 TiSiN	2.5	8	50	4	4	0,020	●	16,-
SSE0304 TiSiN	3	8	50	3	4	0,020	○	16,-
MSE0304 TiSiN	3	8	50	4	4	0,020	●	16,-
MSE0354 TiSiN	3.5	10	50	4	4	0,020	●	16,-
MSE0404 TiSiN	4	11	50	4	4	0,020	●	16,-
SE0104 TiSiN	1	3	50	6	4	0,020	●	22,-
SE0154 TiSiN	1.5	4	50	6	4	0,020	●	22,-
SE0204 TiSiN	2	6	50	6	4	0,020	●	22,-
SE0254 TiSiN	2.5	8	50	6	4	0,020	●	22,-
SE0304 TiSiN	3	8	50	6	4	0,020	●	22,-
SE0354 TiSiN	3.5	10	50	6	4	0,020	●	22,-
SE0404 TiSiN	4	11	50	6	4	0,020	●	22,-
SE0454 TiSiN	4.5	13	50	6	4	0,020	●	22,-
SE0504 TiSiN	5	13	50	6	4	0,020	●	22,-
SE0554 TiSiN	5.5	13	50	6	4	0,020	●	22,-
SE0604 TiSiN	6	16	50	6	4	0,040	●	22,-
SE0654 TiSiN	6.5	16	60	8	4	0,040	●	41,-
SE0704 TiSiN	7	16	60	8	4	0,040	●	41,-
SE0754 TiSiN	7.5	19	60	8	4	0,040	●	41,-
SE0804 TiSiN	8	20	60	8	4	0,040	●	41,-
SE0854 TiSiN	8.5	20	75	10	4	0,080	●	59,-
SE0904 TiSiN	9	20	75	10	4	0,080	●	59,-
SE0954 TiSiN	9.5	25	75	10	4	0,080	●	59,-
SE1004 TiSiN	10	30	75	10	4	0,080	●	59,-
SE1054 TiSiN	10.5	30	75	12	4	0,100	●	81,-
SE1104 TiSiN	11	30	75	12	4	0,110	●	81,-
SE1154 TiSiN	11.5	30	75	12	4	0,110	●	81,-
SE1204 TiSiN	12	32	75	12	4	0,110	●	81,-
SE1404 TiSiN	14	40	100	16	4	0,240	●	184,50
SE1604 TiSiN	16	40	100	16	4	0,290	●	184,50
SE1804 TiSiN	18	45	100	20	4	0,360	●	237,-
SE2004 TiSiN	20	45	100	20	4	0,390	●	237,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminun alloy
□	■	■	□	□	□	□		

● Disponibile - Lieferbar - On stock

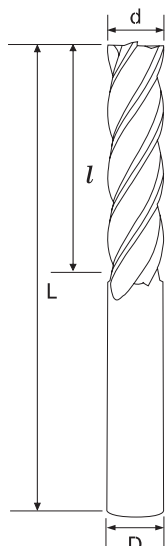
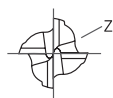
○ A richiesta - Auf Anfrage - On request

Square series - long Flute - 4 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
LET0104 TiSiN	1	6	50	4	4	0,020	●	27,-
LET0154 TiSiN	1.5	9	50	4	4	0,020	●	27,-
LET0204 TiSiN	2	12	50	4	4	0,020	●	27,-
LET0254 TiSiN	2.5	12	50	4	4	0,020	●	27,-
LET0304 TiSiN	3	15	60	6	4	0,020	●	30,-
LET0354 TiSiN	3,5	15	60	6	4	0,020	●	30,-
LET0404 TiSiN	4	20	75	6	4	0,020	●	38,-
LET0454 TiSiN	4.5	20	75	6	4	0,030	●	38,-
LET0504 TiSiN	5	25	75	6	4	0,030	●	38,-
LET0554 TiSiN	5.5	25	75	6	4	0,030	●	38,-
LET0604 TiSiN	6	30	75	6	4	0,030	●	38,-
LET0704 TiSiN	7	30	100	8	4	0,060	●	61,-
LET0804 TiSiN	8	40	100	8	4	0,070	●	61,-
LET0904 TiSiN	9	40	100	10	4	0,090	●	78,-
LET1004 TiSiN	10	40	100	10	4	0,110	●	78,-
LET1104 TiSiN	11	40	100	12	4	0,140	●	100,-
LET1204 TiSiN	12	50	100	12	4	0,140	●	100,-
LET1404 TiSiN	14	50	150	16	4	0,350	●	263,50
LET1604 TiSiN	16	60	150	16	4	0,370	●	263,50
LET2004 TiSiN	20	90	200	20	4	0,720	●	535,-



Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

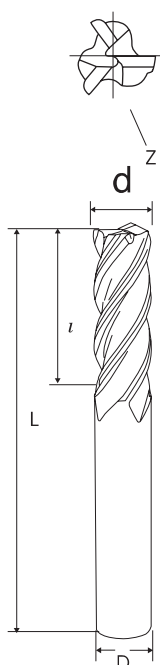
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	~55HRC	~60HRC	~65HRC	□	

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Square series - Flute Angle 45° - 3 flutes

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.5 μm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
MPE0103 TiSiN	1	3	50	4	3	0,010	●	16,-
MPE0153 TiSiN	1.5	4	50	4	3	0,020	●	16,-
MPE0203 TiSiN	2	6	50	4	3	0,020	●	16,-
MPE0253 TiSiN	2.5	8	50	4	3	0,020	●	16,-
MPE3303 TiSiN	3	8	50	3	3	0,020	●	16,-
MPE3033 TiSiN	3	8	50	4	3	0,020	●	16,-
MPE0353 TiSiN	3.5	10	50	4	3	0,020	●	16,-
MPE0403 TiSiN	4	11	50	4	3	0,020	●	16,-
PE0103 TiSiN	1	3	50	6	3	0,020	●	22,-
PE0153 TiSiN	1.5	4	50	6	3	0,020	●	22,-
PE0203 TiSiN	2	6	50	6	3	0,020	●	22,-
PE0253 TiSiN	2.5	8	50	6	3	0,020	●	22,-
PE0303 TiSiN	3	8	50	6	3	0,020	●	22,-
PE0353 TiSiN	3.5	10	50	6	3	0,020	●	22,-
PE0403 TiSiN	4	11	50	6	3	0,020	●	22,-
PE0453 TiSiN	4.5	13	50	6	3	0,020	●	22,-
PE0503 TiSiN	5	13	50	6	3	0,020	●	22,-
PE0553 TiSiN	5.5	13	50	6	3	0,020	●	22,-
PE0603 TiSiN	6	16	50	6	3	0,020	●	22,-
PE0653 TiSiN	6.5	16	60	8	3	0,040	●	41,-
PE0703 TiSiN	7	16	60	8	3	0,040	●	41,-
PE0753 TiSiN	7.5	19	60	8	3	0,040	●	41,-
PE0803 TiSiN	8	20	60	8	3	0,040	●	41,-
PE0853 TiSiN	8.5	20	75	10	3	0,080	●	59,-
PE0903 TiSiN	9	20	75	10	3	0,080	●	59,-
PE0953 TiSiN	9.5	25	75	10	3	0,080	●	59,-
PE1003 TiSiN	10	30	75	10	3	0,080	●	59,-
PE1053 TiSiN	10.5	30	75	12	3	0,100	●	81,-
PE1103 TiSiN	11	30	75	12	3	0,110	●	81,-
PE1153 TiSiN	11.5	30	75	12	3	0,110	●	81,-
PE1203 TiSiN	12	32	75	12	3	0,110	●	81,-
PE1403 TiSiN	14	40	100	16	3	0,240	●	184,50
PE1603 TiSiN	16	40	100	16	3	0,290	●	184,50
PE1803 TiSiN	18	45	100	20	3	0,360	●	237,-
PE2003 TiSiN	20	45	100	20	3	0,390	●	237,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

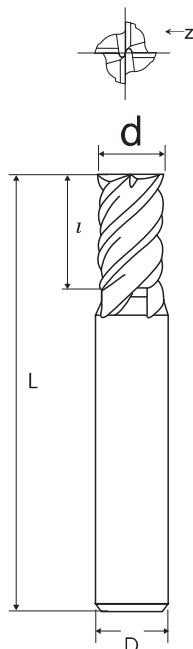
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
☐	☒	☒	☐			☐		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Square series - Flute Angle 45° - 4 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
MPE0104 TiSiN	1	3	50	4	4	0,010	●	16,-
MPE0154 TiSiN	1.5	4	50	4	4	0,020	●	16,-
MPE0204 TiSiN	2	6	50	4	4	0,020	●	16,-
MPE0254 TiSiN	2.5	8	50	4	4	0,020	●	16,-
MPE3304 TiSiN	3	8	50	3	4	0,020	●	16,-
MPE0304 TiSiN	3	8	50	4	4	0,020	●	16,-
MPE0354 TiSiN	3.5	10	50	4	4	0,020	●	16,-
MPE0404 TiSiN	4	11	50	4	4	0,020	●	16,-
PE0104 TiSiN	1	3	50	6	4	0,020	●	22,-
PE0154 TiSiN	1.5	4	50	6	4	0,020	●	22,-
PE0204 TiSiN	2	6	50	6	4	0,020	●	22,-
PE0254 TiSiN	2.5	8	50	6	4	0,020	●	22,-
PE0304 TiSiN	3	8	50	6	4	0,020	●	22,-
PE0354 TiSiN	3.5	10	50	6	4	0,020	●	22,-
PE0404 TiSiN	4	11	50	6	4	0,020	●	22,-
PE0454 TiSiN	4.5	13	50	6	4	0,020	●	22,-
PE0504 TiSiN	5	13	50	6	4	0,020	●	22,-
PE0554 TiSiN	5.5	13	50	6	4	0,020	●	22,-
PE0604 TiSiN	6	16	50	6	4	0,020	●	22,-
PE0654 TiSiN	6.5	16	60	8	4	0,040	●	41,-
PE0704 TiSiN	7	16	60	8	4	0,040	●	41,-
PE0754 TiSiN	7.5	19	60	8	4	0,040	●	41,-
PE0804 TiSiN	8	20	60	8	4	0,040	●	41,-
PE0854 TiSiN	8.5	20	75	10	4	0,080	●	59,-
PE0904 TiSiN	9	20	75	10	4	0,080	●	59,-
PE0954 TiSiN	9.5	25	75	10	4	0,080	●	59,-
PE1004 TiSiN	10	30	75	10	4	0,080	●	59,-
PE1054 TiSiN	10.5	30	75	12	4	0,100	●	81,-
PE1104 TiSiN	11	30	75	12	4	0,110	●	81,-
PE1154 TiSiN	11.5	30	75	12	4	0,110	●	81,-
PE1204 TiSiN	12	32	75	12	4	0,110	●	81,-
PE1404 TiSiN	14	40	100	16	4	0,240	●	184,50
PE1604 TiSiN	16	40	100	16	4	0,290	●	184,50
PE1804 TiSiN	18	45	100	20	4	0,360	●	237,-
PE2004 TiSiN	20	45	100	20	4	0,390	●	237,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	□	□	□		

● Disponibile - Lieferbar - On stock

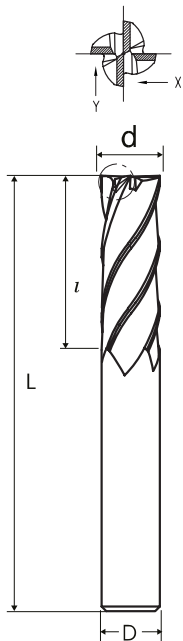
○ A richiesta - Auf Anfrage - On request

Square series - Flute Angle 35° / 38° - 4 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
DH0104 TISIN	1	3	50	6	4	0,020	●	22,-
DH0154 TISIN	1,5	4	50	6	4	0,020	●	22,-
DH0204 TISIN	2	6	50	6	4	0,020	●	22,-
DH0304 TISIN	3	8	50	6	4	0,020	●	22,-
DH0404 TISIN	4	11	50	6	4	0,020	●	22,-
DH0604 TISIN	6	16	50	6	4	0,020	●	22,-
DH0804 TISIN	8	20	60	8	4	0,040	●	41,-
DH1004 TISIN	10	30	75	10	4	0,080	●	59,-
DH1204 TISIN	12	32	75	12	4	0,110	●	81,-
DH1604 TISIN	16	40	100	16	4	0,290	●	184,50
DH2004 TISIN	20	45	100	20	4	0,390	●	237,-



Application: ■ Recommend □ Suitable x Not Recommend

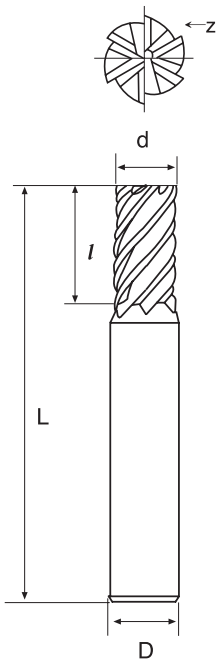
carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminun alloy
□	■	■	□	~55HRC	~60HRC	~65HRC	□	

Square series - For Hard Material - Multiple Flute

- Ultra Fine Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm' Grain Size=0.4 m



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
UVT0204 AlTiN	2	4	50	4	4	0,010	●	40,50
UVT0304 AlTiN	3	6	50	6	4	0,020	●	40,-
UVT0404 AlTiN	4	8	50	6	4	0,020	●	40,-
UVT0506 AlTiN	5	13	50	6	6	0,020	●	40,-
UVT0606 AlTiN	6	16	50	6	6	0,020	●	40,-
UVT0806 AlTiN	8	20	60	8	6	0,050	●	56,-
UVT1006 AlTiN	10	30	75	10	6	0,090	●	81,-
UVT1206 AlTiN	12	32	75	12	6	0,120	●	104,50
UVT1606 AlTiN	16	40	100	16	6	0,400	●	227,-
UVT2008 AlTiN	20	45	100	20	8	0,600	●	381,50
UVT2508 AlTiN	25	45	100	25	8	0,940	●	639,-
ULVT0606 AlTiN	6	25	75	6	6	0,020	●	48,-
ULVT0806 AlTiN	8	30	75	8	6	0,050	●	59,-
ULVT1006 AlTiN	10	40	100	10	6	0,090	●	100,-
ULVT1206 AlTiN	12	45	100	12	6	0,120	●	125,-
ULVT1606 AlTiN	16	65	150	16	6	0,400	●	294,-
ULVT2008 AlTiN	20	75	150	20	8	0,600	●	545,-
ULVT2508 AlTiN	25	80	150	25	8	0,940	●	751,-



Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
☐	☒	☐	☐	☐	☐	☐		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Square Series - For hard material - Multiple flute

- Super Ultra Fine Micro Grain Carbide
- WC=91 Co=9 HRA=93.2 Rupture=4000N/mm² Grain Size=0.2µm

200
Nano

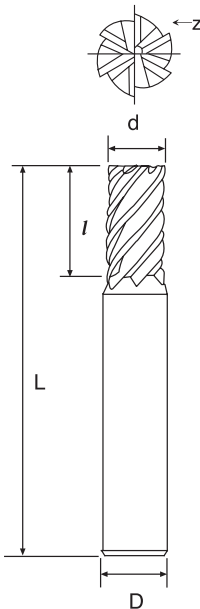
HRC
▶ 65

45°

nAco



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
SFUVT0606 nAco	6	15	60	6	6	0,020	○	70,50
SFUVT0806 nAco	8	20	60	8	6	0,050	○	96,-
SFUVT1006 nAco	10	25	75	10	6	0,090	○	154,-
SFUVT1206 nAco	12	30	75	12	6	0,120	○	176,50
SFUVT1606 nAco	16	45	100	16	6	0,400	○	373,-
SFUVT2008 nAco	20	45	100	20	8	0,600	○	591,50
SFUVT2508 nAco	25	45	100	25	8	0,940	○	774,-
SFULVT0606 nAco	6	25	75	6	6	0,020	○	80,-
SFULVT0806 nAco	8	35	100	8	6	0,050	○	111,-
SFULVT1006 nAco	10	45	100	10	6	0,090	○	176,50
SFULVT1206 nAco	12	50	100	12	6	0,120	○	201,-
SFULVT1606 nAco	16	65	150	16	6	0,400	○	424,50
SFULVT2008 nAco	20	75	150	20	8	0,600	○	802,50
SFULVT2508 nAco	25	80	150	25	8	0,940	○	1038,-



Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	□	□	■	■	■	□		

● Disponibile - Lieferbar - On stock

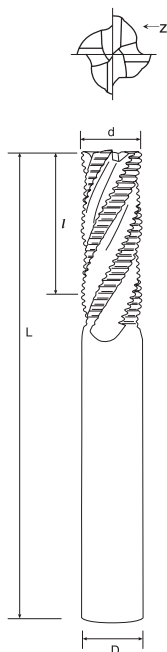
○ A richiesta - Auf Anfrage - On request

Fine Pitch Roughing series

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.51Jm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
NTA0504 AlTiN	5	13	50	6	4	0,020	●	52,50
NTA0604 AlTiN	6	16	50	6	4	0,020	●	52,50
NTA0704 AlTiN	7	16	60	8	4	0,040	●	65,-
NTA0804 AlTiN	8	19	60	8	4	0,040	●	65,-
NTA0904 AlTiN	9	25	75	10	4	0,080	●	88,-
NTA1004 AlTiN	10	25	75	10	4	0,080	●	88,-
NTA1104 AlTiN	11	30	75	12	4	0,110	●	108,50
NTA1204 AlTiN	12	30	75	12	4	0,110	●	108,50
NTA1404 AlTiN	14	35	100	16	4	0,260	●	267,-
NTA1504 AlTiN	15	35	100	16	4	0,270	●	267,-
NTA1604 AlTiN	16	35	100	16	4	0,280	●	267,-
NTA2004 AlTiN	20	45	100	20	4	0,400	●	355,50



Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminun alloy
■	■	□	□	□	□	■	□	□

● Disponibile - Lieferbar - On stock

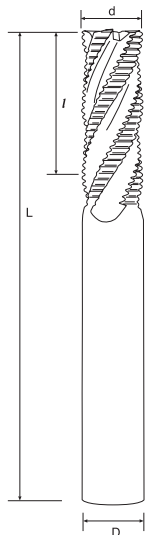
○ A richiesta - Auf Anfrage - On request

Roughing series

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.51Jm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
XTA0504 AITiN	5	13	50	6	4	0,020	○	52,50
XTA0604 AITiN	6	16	50	6	4	0,020	○	52,50
XTA0704 AITiN	7	16	60	8	4	0,040	○	67,-
XTA0804 AITiN	8	19	60	8	4	0,040	○	67,-
XTA0904 AITiN	9	25	75	10	4	0,080	○	90,-
XTA1004 AITiN	10	25	75	10	4	0,080	○	90,-
XTA1104 AITiN	11	30	75	12	4	0,110	○	108,50
XTA1204 AITiN	12	30	75	12	4	0,110	○	108,50
XTA1604 AITiN	16	35	100	16	4	0,280	○	268,-
XTA2004 AITiN	20	45	100	20	4	0,400	○	355,50



Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
☒	☒	☐	☐	☐	☐	☒	☐	☐

● Disponibile - Lieferbar - On stock

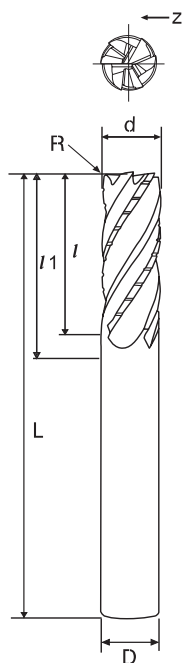
○ A richiesta - Auf Anfrage - On request

KKF Multi Flutes High Efficiency

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
KKF0602	6	16	50	6	2	0,020	○	65,-
KKF0802	8	19	60	8	2	0,040	○	92,-
KKF1002	10	25	75	10	2	0,080	○	122,50
KKF1202	12	30	75	12	2	0,080	○	150,-
KKF1602	16	35	110	16	2	0,280	○	356,-
KKF2002	20	45	110	20	2	0,400	○	535,50



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
KKF0603	6	16	50	6	3	0,020	○	65,-
KKF0803	8	19	60	8	3	0,040	○	92,-
KKF1003	10	25	75	10	3	0,080	○	122,50
KKF1203	12	30	75	12	3	0,110	○	150,-
KKF1603	16	35	110	16	3	0,280	○	356,-
KKF2003	20	45	110	20	3	0,400	○	535,50

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
☒	☒	☒	☐	☐				

● Disponibile - Lieferbar - On stock

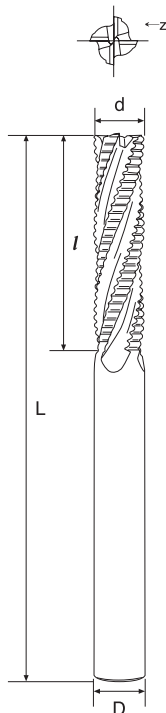
○ A richiesta - Auf Anfrage - On request

KKR Multi Flutes High Efficiency

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
KKR0602	6	16	50	6	2	0,020	●	65,-
KKR0802	8	19	60	8	2	0,040	●	92,-
KKR1002	10	25	75	10	2	0,080	●	122,50
KKR1202	12	30	75	12	2	0,110	●	150,-
KKR1602	16	35	110	16	2	0,280	●	356,-
KKR2002	20	45	110	20	2	0,400	●	535,50
KKR2502	25	50	110	25	2	0,670	●	697,50



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
KKR0603	6	16	50	6	3	0,020	●	65,-
KKR0803	8	19	60	8	3	0,040	●	92,-
KKR1003	10	25	75	10	3	0,080	●	122,50
KKR1203	12	30	75	12	3	0,110	●	150,-
KKR1603	16	35	110	16	3	0,280	●	356,-
KKR2003	20	45	110	20	3	0,400	●	535,50
KKR2503	25	50	110	25	3	0,670	●	697,50

Application: ■ Recommend □ Suitable x Not Recommend

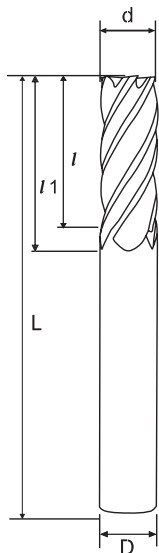
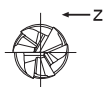
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□				

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

KKM Multi Flutes High Efficiency

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z		STOCK	PRICELIST €
KKM0602	6	16	50	6	2	0,020	○	65,-
KKM0802	8	19	60	8	2	0,040	○	92,-
KKM1002	10	22	75	10	2	0,080	○	122,50
KKM1202	12	26	75	12	2	0,110	○	130,-
KKM1602	16	35	110	16	2	0,280	○	292,50
KKM2002	20	40	110	20	2	0,400	○	472,50
KKM2502	25	45	110	25	2	0,670	○	639,50

MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z		STOCK	PRICELIST €
KKM0603	6	16	50	6	3	0,020	○	65,-
KKM0803	8	19	60	8	3	0,040	○	92,-
KKM1003	10	25	75	10	3	0,080	○	128,-
KKM1203	12	30	75	12	3	0,110	○	136,-
KKM1603	16	40	110	16	3	0,280	○	315,50
KKM2003	20	45	110	20	3	0,400	○	501,50
KKM2503	25	50	110	25	3	0,670	○	663,50

MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z		STOCK	PRICELIST €
KKM1004	10	25	75	10	4	0,080	○	128,-
KKM1204	12	30	75	12	4	0,110	○	136,-
KKM1604	16	40	110	16	4	0,280	○	315,50
KKM2004	20	45	110	20	4	0,400	○	501,50
KKM2504	25	50	110	25	4	0,670	○	663,50

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
■	■	■	■	□				

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

KKH Multi Flutes High Efficiency

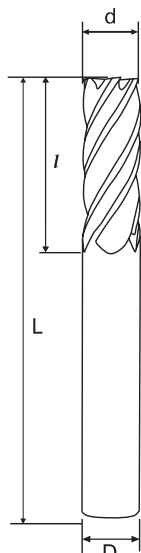
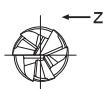
- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm

400
Nano

HRC
65

35°

nAco



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
KKH0602	6	16	50	6	2	0,020	○	47,-
KKH0802	8	19	60	8	2	0,040	○	65,-
KKH1002	10	22	75	10	2	0,080	○	72,-
KKH1202	12	26	75	12	2	0,110	○	126,-
KKH1602	16	35	110	16	2	0,280	○	292,50
KKH2002	20	40	110	20	2	0,400	○	472,50
KKH2502	25	45	110	25	2	0,670	○	639,50

MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
KKH0603	6	16	50	6	3	0,020	○	49,-
KKH0803	8	19	60	8	3	0,040	○	72,-
KKH1003	10	25	75	10	3	0,080	○	109,-
KKH1203	12	30	75	12	3	0,110	○	136,-
KKH1603	16	40	110	16	3	0,280	○	315,50
KKH2003	20	45	110	20	3	0,400	○	501,50
KKH2503	25	50	110	25	3	0,670	○	663,50

MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
KKH1004	10	25	75	10	4	0,080	○	109,-
KKH1204	12	30	75	12	4	0,110	○	136,-
KKH1604	16	40	110	16	4	0,280	○	315,50
KKH2004	20	45	110	20	4	0,400	○	501,50
KKH2504	25	50	110	25	4	0,670	○	663,50

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
■	■	■	■	■	□			

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Titanium Nickel Inconel Alloy

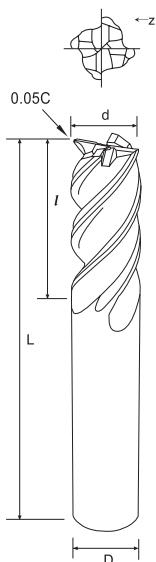
- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm

**400
PLUS**

**HRC
▶ 45**

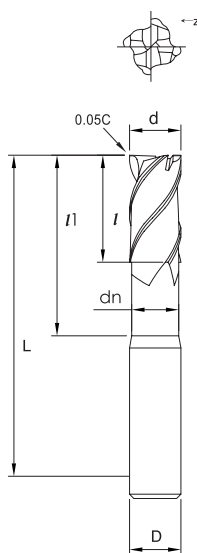


NEW



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	Corner Chamfer Width C	kg	STOCK	PRICELIST €
PVE1T0404	4	8	50	6	4	0.2	0,021	○	30,50
PVE1T0504	5	10	50	6	4	0.25	0,021	○	30,50
PVE1T0604	6	12	50	6	4	0.3	0,021	○	30,50
PVE1T0804	8	19	60	8	4	0.4	0,047	○	42,50
PVE1T1004	10	23	75	10	4	0.5	0,090	○	67,00
PVE1T1204	12	27	75	12	4	0.6	0,118	○	89,00
PVE1T1604	16	32	100	16	4	0.8	0,270	○	211,50
PVE1T2004	20	39	100	20	4	1	0,390	○	323,00

NEW



MODE	Diameter d	Flute Length l	Efficient Length l1	Full Length L	Shank Diameter D	Flutes z	Corner Chamfer Width C	Neck Diameter dn	kg	STOCK	PRICELIST €
PNVE1T0404	4	6	22	75	6	4	0.2	3.7	0,026	○	46,50
PNVE1T0504	5	8	24	75	6	4	0.25	4.6	0,026	○	46,50
PNVE1T0604	6	9	26	75	6	4	0.3	5.5	0,026	○	46,50
PNVE1T0804	8	12	35	100	8	4	0.4	7.4	0,073	○	61,50
PNVE1T1004	10	15	43	120	10	4	0.5	9.2	0,140	○	94,50
PNVE1T1204	12	18	51	120	12	4	0.6	11	0,240	○	123,00
PNVE1T1604	16	24	59	120	16	4	0.8	15	0,360	○	224,00

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

Pre-hardened steel <30HRC	High-hardened steel 30~40HRC	High-hardened steel 40~50HRC	High-hardened steel 50~65HRC	carbon steel, Alloy steel	Stainless steel	Titanium alloy	Nickel/Inconel alloy	Copper alloy	Aluminum alloy
☒	☒	☐	☐	☐	☐	☒	☒	☐	☐

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

HPSS Super plugging+Slotting

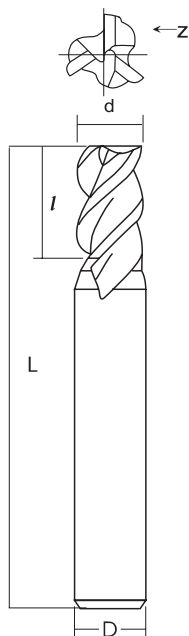
- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm

400
Nano

HRC
45

45°

SS



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
HPSS0200	2	4	50	6	3	0,020	○	53,50
HPSS0250	2.5	5	50	6	3	0,020	○	53,50
HPSS0300	3	6	50	6	3	0,020	○	56,-
HPSS0350	3.5	8	50	6	3	0,020	○	56,-
HPSS0400	4	8	50	6	3	0,020	○	58,-
HPSS0450	4.5	10	50	6	3	0,020	○	59,-
HPSS0500	5	10	50	6	3	0,020	○	63,-
HPSS0550	5.5	13	50	6	3	0,020	○	59,-
HPSS0600	6	13	60	6	3	0,020	○	63,-
HPSS0650	6.5	16	60	8	3	0,020	○	97,-
HPSS0700	7	16	60	8	3	0,040	○	83,-
HPSS0750	7.5	16	60	8	3	0,040	○	94,-
HPSS0800	8	19	60	8	3	0,040	○	83,-
HPSS0850	8.5	19	75	10	3	0,080	○	106,50
HPSS0900	9	19	75	10	3	0,080	○	106,50
HPSS0950	9.5	19	75	10	3	0,080	○	121,50
HPSS1000	10	22	75	10	3	0,090	○	117,-
HPSS1100	11	22	75	12	3	0,110	○	145,-
HPSS1200	12	26	100	12	3	0,150	○	147,-
HPSS1300	13	26	100	14	3	0,180	○	196,-
HPSS1400	14	26	100	14	3	0,200	○	174,50
HPSS1500	15	26	100	16	3	0,230	○	339,-
HPSS1600	16	30	100	16	3	0,260	○	321,-
HPSS2000	20	32	100	20	3	0,380	○	445,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

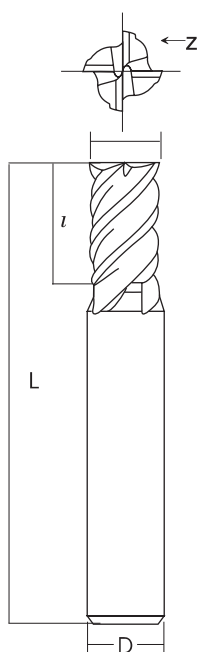
carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminun alloy
■	■	□	~55HRC	~60HRC	~65HRC			

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

FHPS 4 Flutes • Short – (Heavy- duty operation type)

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	STOCK	PRICELIST €
FHPS020	2	3	50	6	4	0,020 ●	49,-
FHPS021	2.1	3.2	50	6	4	0,020 ●	53,50
FHPS022	2.2	3.3	50	6	4	0,020 ●	53,50
FHPS023	2.3	3.5	50	6	4	0,020 ●	53,50
FHPS024	2.4	3.6	50	6	4	0,020 ●	53,50
FHPS025	2.5	3.8	50	6	4	0,020 ●	49,-
FHPS026	2.6	3.9	50	6	4	0,020 ●	53,50
FHPS027	2.7	4.1	50	6	4	0,020 ●	53,50
FHPS028	2.8	4.2	50	6	4	0,020 ●	53,50
FHPS029	2.9	4.4	50	6	4	0,020 ●	53,50
FHPS030	3	4.5	50	6	4	0,020 ●	49,-
FHPS031	3.1	4.7	50	6	4	0,020 ●	56,-
FHPS032	3.2	4.8	50	6	4	0,020 ●	56,-
FHPS033	3.3	5	50	6	4	0,020 ●	56,-
FHPS034	3.4	5.1	50	6	4	0,020 ●	56,-
FHPS035	3.5	5.3	50	6	4	0,020 ●	53,50
FHPS036	3.6	5.4	50	6	4	0,020 ●	56,-
FHPS037	3.7	5.6	50	6	4	0,020 ●	56,-
FHPS038	3.8	5.7	50	6	4	0,020 ●	56,-
FHPS039	3.9	5.9	50	6	4	0,020 ●	56,-
FHPS040	4	6	50	6	4	0,020 ●	52,50
FHPS041	4.1	6.2	50	6	4	0,020 ●	59,-
FHPS042	4.2	6.3	50	6	4	0,020 ●	59,-
FHPS043	4.3	6.5	50	6	4	0,020 ●	59,-
FHPS044	4.4	6.6	50	6	4	0,020 ●	59,-
FHPS045	4.5	6.8	50	6	4	0,020 ●	56,-
FHPS046	4.6	6.9	50	6	4	0,020 ●	59,-
FHPS047	4.7	7.1	50	6	4	0,020 ●	59,-
FHPS048	4.8	7.2	50	6	4	0,020 ●	59,-
FHPS049	4.9	7.4	50	6	4	0,020 ●	59,-
FHPS050	5	7.5	50	6	4	0,020 ●	53,50
FHPS051	5.1	7.7	50	6	4	0,020 ●	63,-
FHPS052	5.2	7.8	50	6	4	0,020 ●	63,-
FHPS053	5.3	8	50	6	4	0,020 ●	63,-
FHPS054	5.4	8.1	50	6	4	0,020 ●	63,-
FHPS055	5.5	8.3	50	6	4	0,020 ●	56,-

Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□				

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

FHPS 4 Flutes • Short – (Heavy- duty operation type)

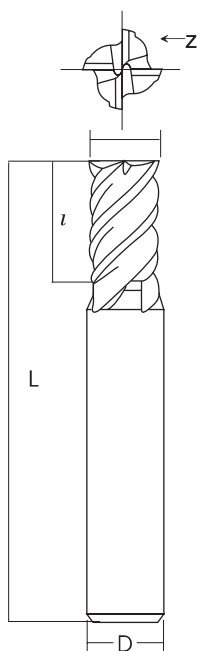
- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.4 m

400
Nano

HRC
60

45°

nBS



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
FHPS056	5.6	8.4	50	6	4	0,020	●	63,-
FHPS057	5.7	8.6	50	6	4	0,020	●	63,-
FHPS058	5.8	8.7	50	6	4	0,020	●	63,-
FHPS059	5.9	8.9	50	6	4	0,020	●	63,-
FHPS060	6	9	50	6	4	0,020	●	53,50
FHPS061	6.1	9.2	60	8	4	0,040	●	92,-
FHPS062	6.2	9.3	60	8	4	0,040	●	92,-
FHPS063	6.3	9.5	60	8	4	0,040	●	92,-
FHPS064	6.4	9.6	60	8	4	0,040	●	92,-
FHPS065	6.5	9.8	60	8	4	0,040	●	92,-
FHPS066	6.6	9.9	60	8	4	0,040	●	92,-
FHPS067	6.7	10.1	60	8	4	0,040	●	92,-
FHPS068	6.8	10.2	60	8	4	0,040	●	92,-
FHPS069	6.9	10.4	60	8	4	0,040	●	92,-
FHPS070	7	10.5	60	8	4	0,040	●	79,-
FHPS071	7.1	10.7	60	8	4	0,040	●	100,-
FHPS072	7.2	10.8	60	8	4	0,040	●	100,-
FHPS073	7.3	11	60	8	4	0,040	●	100,-
FHPS074	7.4	11.1	60	8	4	0,040	●	100,-
FHPS075	7.5	11.3	60	8	4	0,040	●	86,50
FHPS076	7.6	11.4	60	8	4	0,040	●	100,-
FHPS077	7.7	11.6	60	8	4	0,040	●	100,-
FHPS078	7.8	11.7	60	8	4	0,040	●	100,-
FHPS079	7.9	11.9	60	8	4	0,040	●	100,-
FHPS080	8	12	60	8	4	0,040	●	73,-
FHPS081	8.1	12.2	75	10	4	0,080	●	115,-
FHPS082	8.2	12.3	75	10	4	0,080	●	115,-
FHPS083	8.3	12.5	75	10	4	0,080	●	115,-
FHPS084	8.4	12.6	75	10	4	0,080	●	115,-
FHPS085	8.5	12.8	75	10	4	0,080	●	100,-
FHPS086	8.6	12.9	75	10	4	0,080	●	115,-
FHPS087	8.7	13.1	75	10	4	0,080	●	115,-
FHPS088	8.8	13.2	75	10	4	0,080	●	115,-
FHPS089	8.9	13.4	75	10	4	0,080	●	115,-
FHPS090	9	13.5	75	10	4	0,080	●	100,-
FHPS091	9.1	13.7	75	10	4	0,080	●	136,-

Application: ■ Recommend □ Suitable x Not Recommend

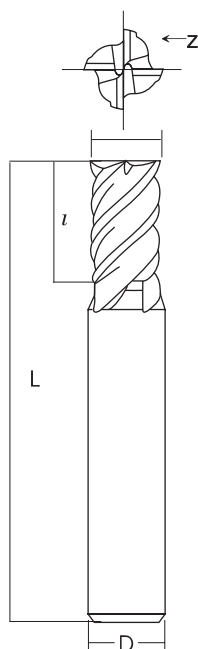
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□				

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

FHPS 4 Flutes • Short – (Heavy- duty operation type)

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.4 m



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
FHPS092	9.2	13.8	75	10	4	0,080	●	136,-
FHPS093	9.3	14	75	10	4	0,080	●	136,-
FHPS094	9.4	14.1	75	10	4	0,080	●	136,-
FHPS095	9.5	14.3	75	10	4	0,080	●	115,-
FHPS096	9.6	14.4	75	10	4	0,080	●	136,-
FHPS097	9.7	14.6	75	10	4	0,080	●	136,-
FHPS098	9.8	14.7	75	10	4	0,090	●	136,-
FHPS099	9.9	14.9	75	10	4	0,090	●	136,-
FHPS100	10	15	75	10	4	0,100	●	100,-
FHPS105	10.5	15.8	100	12	4	0,120	●	155,50
FHPS110	11	16.5	100	12	4	0,150	●	136,-
FHPS115	11.5	17.3	100	12	4	0,160	●	155,50
FHPS120	12	18	100	12	4	0,160	●	130,-
FHPS125	12.5	18.8	100	14	4	0,180	●	180,50
FHPS130	13	19.5	100	14	4	0,200	●	180,50
FHPS135	13.5	20.3	100	14	4	0,250	●	180,50
FHPS140	14	21	100	14	4	0,260	●	160,-
FHPS145	14.5	21.8	100	16	4	0,280	●	335,-
FHPS150	15	22.5	100	16	4	0,280	●	335,-
FHPS155	15.5	23.3	100	16	4	0,290	●	335,-
FHPS160	16	24	100	16	4	0,290	●	335,-
FHPS170	17	25.5	100	20	4	0,310	●	417,50
FHPS180	18	27	100	20	4	0,330	●	417,50
FHPS190	19	28.5	100	20	4	0,350	●	417,50
FHPS200	20	30	100	20	4	0,370	●	417,50

Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminun alloy
■	■	■	□	□	□			

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

UMG - CR- FHP 4 Flutes • Short with Corner – Radius (Heavy- duty operation type)

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm

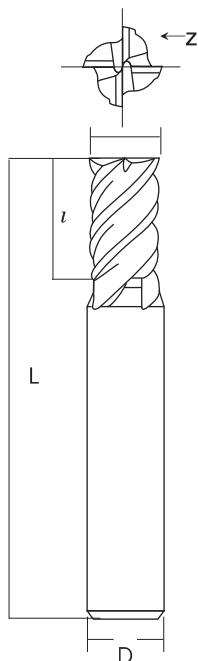
400
Nano

HRC
60

45°

nBS

R



MODE	Diameter d	Corner Radius R	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
CRFHP0302	3	0.2	8	60	6	4	0,020	●	73,-
CRFHP0305	3	0.5	8	60	6	4	0,020	●	73,-
CRFHP0402	4	0.2	11	60	6	4	0,020	●	75,-
CRFHP0405	4	0.5	11	60	6	4	0,020	●	75,-
CRFHP0410	4	1	11	60	6	4	0,020	●	75,-
CRFHP0502	5	0.2	13	60	6	4	0,020	●	79,-
CRFHP0505	5	0.5	13	60	6	4	0,020	●	79,-
CRFHP0510	5	1	13	60	6	4	0,020	●	79,-
CRFHP0603	6	0.3	13	60	6	4	0,020	●	81,-
CRFHP0605	6	0.5	13	60	6	4	0,020	●	81,-
CRFHP0610	6	1	13	60	6	4	0,020	●	81,-
CRFHP0803	8	0.3	19	60	8	4	0,040	●	98,-
CRFHP0805	8	0.5	19	60	8	4	0,050	●	98,-
CRFHP0810	8	1	19	60	8	4	0,040	●	98,-
CRFHP0815	8	1.5	19	60	8	4	0,040	●	98,-
CRFHP0820	8	2	19	60	8	4	0,040	●	98,-
CRFHP1003	10	0.3	22	75	10	4	0,090	●	130,-
CRFHP1005	10	0.5	22	75	10	4	0,080	●	130,-
CRFHP1010	10	1	22	75	10	4	0,090	●	130,-
CRFHP1015	10	1.5	22	75	10	4	0,080	●	130,-
CRFHP1020	10	2	22	75	10	4	0,080	●	130,-
CRFHP1030	10	3	22	75	10	4	0,080	●	130,-
CRFHP1205	12	0.5	26	100	12	4	0,160	●	158,50
CRFHP1210	12	1	26	100	12	4	0,150	●	158,50
CRFHP1215	12	1.5	26	100	12	4	0,150	●	158,50
CRFHP1220	12	2	26	100	12	4	0,160	●	158,50
CRFHP1230	12	3	26	100	12	4	0,160	●	158,50
CRFHP1610	16	1	35	100	16	4	0,170	●	324,50
CRFHP1615	16	1.5	35	100	16	4	0,200	●	324,50
CRFHP1620	16	2	35	100	16	4	0,290	●	324,50
CRFHP1630	16	3	35	100	16	4	0,290	●	324,50
CRFHP2010	20	1	40	100	20	4	0,330	●	458,50
CRFHP2015	20	1.5	40	100	20	4	0,360	●	458,50
CRFHP2020	20	2	40	100	20	4	0,390	●	458,50
CRFHP2030	20	3	40	100	20	4	0,410	●	458,50

Application: ■ Recommend □ Suitable x Not Recommend

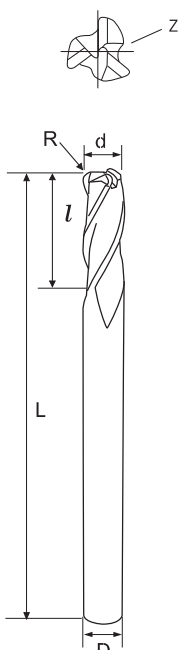
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□	□			

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Corner Radius series - 3 flutes

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.5 m



MODE	Diameter d	Radius of Ball Nose R	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
SURTA0200203 TiSiN	2	0.2	6	50	4	3	0,010	○	42,-
SURTA0200253 TiSiN	2	0.25	6	50	4	3	0,010	○	42,-
SURTA0200303 TiSiN	2	0.3	6	50	4	3	0,010	○	42,-
SURTA0200503 TiSiN	2	0.5	6	50	4	3	0,010	○	42,-
SURTA0300203 TiSiN	3	0.2	10	50	3	3	0,010	○	42,-
SURTA0300303 TiSiN	3	0.3	10	50	3	3	0,010	○	42,-
SURTA0300503 TiSiN	3	0.5	10	50	3	3	0,010	○	42,-
SURTA0301003 TiSiN	3	1	10	50	3	3	0,010	○	42,-
SURTA4300203 TiSiN	3	0.2	10	50	4	3	0,110	○	42,-
SURTA4300253 TiSiN	3	0.25	10	50	4	3	0,110	○	42,-
SURTA4300303 TiSiN	3	0.3	10	50	4	3	0,110	○	42,-
SURTA4300503 TiSiN	3	0.5	10	50	4	3	0,110	○	42,-
SURTA4300753 TiSiN	3	0.75	10	50	4	3	0,110	○	42,-
SURTA4301003 TiSiN	3	1	10	50	4	3	0,110	○	42,-
SURTA0400203 TiSiN	4	0.2	13	60	4	3	0,010	○	42,-
SURTA0400253 TiSiN	4	0.25	13	60	4	3	0,010	○	42,-
SURTA0400303 TiSiN	4	0.3	13	60	4	3	0,010	○	42,-
SURTA0400503 TiSiN	4	0.5	13	60	4	3	0,020	○	42,-
SURTA0400753 TiSiN	4	0.75	13	60	4	3	0,020	○	42,-
SURTA0401003 TiSiN	4	1	13	60	4	3	0,020	○	52,50
SURTA0500203 TiSiN	5	0.2	15	60	5	3	0,020	○	52,50
SURTA0500253 TiSiN	5	0.25	15	60	5	3	0,020	○	52,50
SURTA0500303 TiSiN	5	0.3	15	60	5	3	0,020	○	52,50
SURTA0500503 TiSiN	5	0.5	15	60	5	3	0,020	○	52,50
SURTA0500753 TiSiN	5	0.75	15	60	5	3	0,020	○	52,50
SURTA0501003 TiSiN	5	1	15	60	5	3	0,030	○	52,50
SURTA0600203 TiSiN	6	0.2	16	70	6	3	0,030	○	56,-
SURTA0600253 TiSiN	6	0.25	16	70	6	3	0,030	○	56,-
SURTA0600303 TiSiN	6	0.3	16	70	6	3	0,030	○	56,-

Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
■	■	□	□	□	□	■	□	□

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Corner Radius series - 3 flutes

- Micro Grain Carbide
- WC=88 Co=12 HRA=92. 4 Rupture= 3950N/mm² Grain Size=0.5 μm

500
Nano

HRC
50

30°

R

TiSiN



MODE	Diameter d	Radius of Ball Nose R	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	 kg	STOCK	PRICELIST €
SURTA0600503 TiSiN	6	0.5	16	70	6	3	0,030	○	56,-
SURTA0600753 TiSiN	6	0.75	16	70	6	3	0,030	○	56,-
SURTA0601003 TiSiN	6	1	16	70	6	3	0,030	○	56,-
SURTA0601253 TiSiN	6	1.25	16	70	6	3	0,030	○	56,-
SURTA0601503 TiSiN	6	1.5	16	70	6	3	0,050	○	56,-
SURTA0800253 TiSiN	8	0.25	23	70	8	3	0,050	○	74,-
SURTA0800303 TiSiN	8	0.3	23	70	8	3	0,050	○	74,-
SURTA0800503 TiSiN	8	0.5	23	70	8	3	0,050	○	74,-
SURTA0800753 TiSiN	8	0.75	23	70	8	3	0,050	○	74,-
SURTA0801003 TiSiN	8	1	23	70	8	3	0,050	○	74,-
SURTA0801253 TiSiN	8	1.25	23	70	8	3	0,050	○	74,-
SURTA0801503 TiSiN	8	1.5	23	70	8	3	0,090	○	74,-
SURTA0802003 TiSiN	8	2	23	70	8	3	0,090	○	74,-
SURTA1000253 TiSiN	10	0.25	25	80	10	3	0,090	○	93,-
SURTA1000303 TiSiN	10	0.3	25	80	10	3	0,090	○	93,-
SURTA1000503 TiSiN	10	0.5	25	80	10	3	0,090	○	93,-
SURTA1000753 TiSiN	10	0.75	25	80	10	3	0,090	○	93,-
SURTA1001003 TiSiN	10	1	25	80	10	3	0,090	○	93,-
SURTA1001253 TiSiN	10	1.25	25	80	10	3	0,090	○	93,-
SURTA1001503 TiSiN	10	1.5	25	80	10	3	0,110	○	93,-
SURTA1002003 TiSiN	10	2	25	80	10	3	0,110	○	93,-
SURTA1002503 TiSiN	10	2.5	25	80	10	3	0,110	○	93,-
SURTA1200303 TiSiN	12	0.3	30	80	12	3	0,110	○	127,-
SURTA1200503 TiSiN	12	0.5	30	80	12	3	0,110	○	127,-
SURTA1201003 TiSiN	12	1	30	80	12	3	0,110	○	127,-
SURTA1201253 TiSiN	12	1.25	30	80	12	3	0,110	○	127,-
SURTA1201503 TiSiN	12	1.5	30	80	12	3	0,110	○	127,-
SURTA1202003 TiSiN	12	2	30	80	12	3	0,110	○	127,-
SURTA1202503 TiSiN	12	2.5	30	80	12	3	0,110	○	127,-
SURTA1203003 TiSiN	12	3	30	80	12	3	0,110	○	127,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-hardened steel	High-hardened				Stainless steel	Copper alloy	Aluminun alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
☒	☒	☐	☐	☐		☒	☐	☐

● Disponibile - Lieferbar - On stock

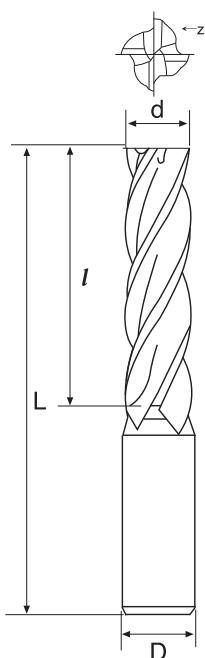
○ A richiesta - Auf Anfrage - On request

SUS Stainless Steel Expert

- Ultra Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.61Jm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	STOCK	PRICELIST €
SUS0104	1	3	50	4	4	0,020 ○	23,-
SUS0154	1.5	4	50	4	4	0,020 ○	23,-
SUS0204	2	6	50	4	4	0,040 ○	23,-
SUS0254	2.5	8	50	4	4	0,040 ○	23,-
SUS0304	3	9	50	4	4	0,080 ○	23,-
SUS6304	3	9	50	6	4	0,600 ○	49,-
SUS0404	4	11	50	4	4	0,080 ○	23,-
SUS6404	4	11	50	6	4	0,600 ○	78,-
SUS0504	5	13	50	6	4	0,110 ○	29,-
SUS0604	6	16	50	6	4	0,110 ○	29,-
SUS0804	8	20	60	8	4	0,280 ○	50,-
SUS1004	10	30	75	10	4	0,400 ○	67,-
SUS1204	12	32	75	12	4	0,400 ○	98,-



Application: ■ Recommend □ Suitable x Not Recommend

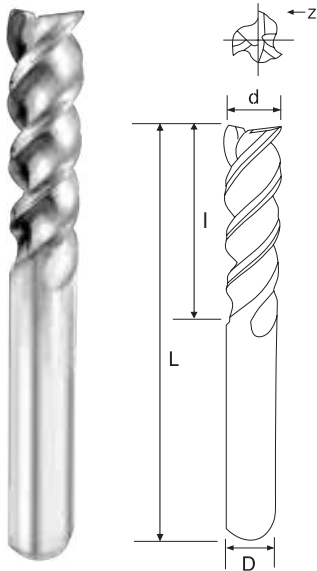
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	□		~55HRC	~60HRC	~65HRC	■		

● Disponibile - Lieferbar - On stock

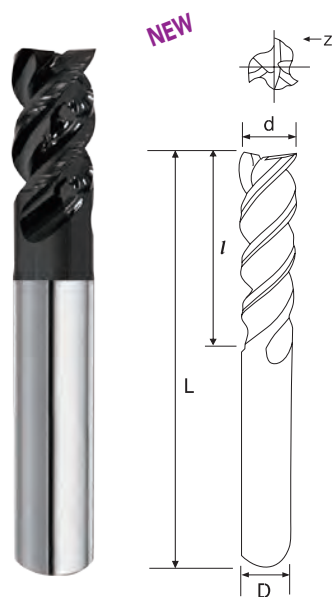
○ A richiesta - Auf Anfrage - On request

High Feed U-Type Aluminum

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6µm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
AUE0253	2.5	8	50	6	3	0,020	○	23,-
AUE0303	3	9	50	6	3	0,020	○	23,-
AUE0403	4	12	50	6	3	0,020	○	23,-
AUE0503	5	15	50	6	3	0,020	○	23,-
AUE0603	6	18	50	6	3	0,020	○	23,-
AUE0803	8	20	60	8	3	0,050	○	48,-
AUE1003	10	30	75	10	3	0,090	○	70,50
AUE1203	12	32	75	12	3	0,130	○	95,-
AUE1603	16	45	100	16	3	0,300	○	221,-
AUE2003	20	45	100	20	3	0,400	○	342,-
AUEL0603	6	30	75	6	3	0,020	○	34,-
AUEL0803	8	40	100	8	3	0,050	○	72,-
AUEL1003	10	42	100	10	3	0,090	○	105,50
AUEL1203	12	52	100	12	3	0,180	○	141,50



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
S-AUE0603 TB	6	10	50	6	3	0,021	○	43,50
S-AUE0803 TB	8	13	60	8	3	0,047	○	74,50
S-AUE1003 TB	10	16	75	10	3	0,090	○	104,50
S-AUE0603 TB	12	19	75	12	3	0,118	○	135,50

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

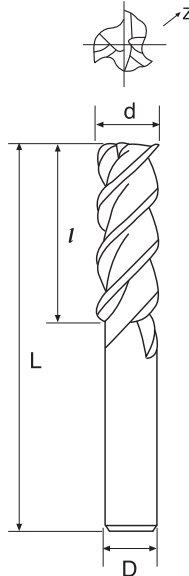
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC ~60HRC ~65HRC			Stainless steel	Copper alloy	Aluminum alloy
							☐	☒

● Disponibile - Lieferbar - On stock

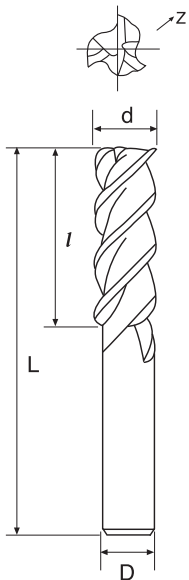
○ A richiesta - Auf Anfrage - On request

Specular Square series - For Aluminum - 3 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z		STOCK	PRICELIST €
AET0103 TB	1	3	50	4	3	0,020	●	55,-
AET0123 TB	1.2	4	50	4	3	0,020	●	63,-
AET0153 TB	1.5	4	50	4	3	0,020	●	63,-
AET0183 TB	1.8	5	50	4	3	0,020	●	63,-
AET0203 TB	2	6	50	4	3	0,020	●	55,-
AET0303 TB	3	8	50	6	3	0,020	●	55,-
AET0403 TB	4	10	50	6	3	0,020	●	55,-
AET0503 TB	5	13	50	6	3	0,020	●	55,-
AET0603 TB	6	15	50	6	3	0,020	●	55,-
AET0803 TB	8	20	60	8	3	0,060	●	93,-
AET1003 TB	10	25	75	10	3	0,080	●	132,-
AET1203 TB	12	30	75	12	3	0,080	●	160,-
AET1603 TB	16	42	100	16	3	0,100	●	285,-
AET2003 TB	20	52	100	20	3	0,120	●	480,-
AET2503 TB	25	62	125	25	3	0,150	●	872,50



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z		STOCK	PRICELIST €
AEL50303 TB	3	12	60	6	3	0,020	●	61,-
AEL50403 TB	4	16	60	6	3	0,020	●	61,-
AEL50503 TB	5	20	60	6	3	0,020	●	61,-
AEL50603 TB	6	25	75	6	3	0,040	●	70,50
AEL50803 TB	8	32	75	8	3	0,080	●	109,-
AEL51003 TB	10	45	100	10	3	0,110	●	155,50
AEL51203 TB	12	45	100	12	3	0,260	●	191,50
AEL51603 TB	16	65	150	16	3	0,360	●	506,50
AEL52003 TB	20	75	150	20	3	0,670	●	654,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC ~60HRC ~65HRC			Stainless steel	Copper alloy	Aluminum alloy
							☐	☒

● Disponibile - Lieferbar - On stock

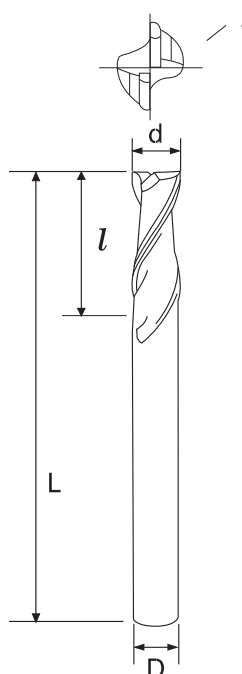
○ A richiesta - Auf Anfrage - On request

Specular Square series - For Aluminum - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.61.1m



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
AET0052 TB	0.5	1.5	50	4	2	0,020	○	63,-
AET0062 TB	0.6	1.5	50	4	2	0,020	○	63,-
AET0082 TB	0.8	2	50	4	2	0,020	○	63,-
AET0102 TB	1	3	50	6	2	0,020	○	55,-
AET0122 TB	1.2	4	50	6	2	0,020	○	63,-
AET0152 TB	1.5	4	50	6	2	0,020	○	63,-
AET0182 TB	1.8	5	50	6	2	0,020	○	63,-
AET0202 TB	2	6	50	6	2	0,020	○	55,-
AET0302 TB	3	8	50	6	2	0,020	○	55,-
AET0402 TB	4	10	50	6	2	0,020	○	55,-
AET0502 TB	5	13	50	6	2	0,020	○	55,-
AET0602 TB	6	15	50	6	2	0,020	○	55,-
AET0802 TB	8	20	60	8	2	0,040	○	93,-
AET1002 TB	10	25	75	10	2	0,080	○	132,-
AET1202 TB	12	30	75	12	2	0,110	○	160,-
AET1602 TB	16	42	100	16	2	0,260	○	285,-
AET2002 TB	20	52	100	20	2	0,360	○	480,-
AET2502 TB	25	62	125	25	2	0,670	○	872,50



Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminun alloy
			~55HRC	~60HRC	~65HRC			

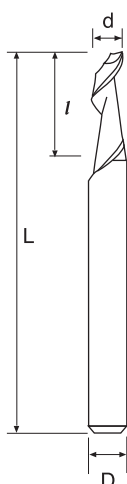
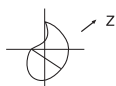


● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Square series - For Wood & Plastic & Aluminum -1 flute

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes z	kg	STOCK	PRICELIST €
AP0100	1	4	50	3	1	0,010	○	58,-
AP0150	1.5	6	50	3	1	0,010	○	58,-
AP0200	2	8	50	2	1	0,010	○	58,-
AP0201	2	8	60	2	1	0,010	○	58,-
AP0202	2	8	50	3	1	0,010	○	58,-
AP0250	2.5	8	50	3	1	0,010	○	58,-
AP0251	2.5	8	60	3	1	0,010	○	64,-
AP0300	3	10	50	3	1	0,010	○	58,-
AP0301	3	10	60	3	1	0,010	○	64,-
AP0302	3	10	80	6	1	0,030	○	72,-
AP0310	3.17	12.7	60	6.35	1	0,030	○	109,-
AP0400	4	12	60	4	1	0,020	○	58,-
AP0401	4	20	70	4	1	0,020	○	64,-
AP0402	4	30	80	4	1	0,020	○	70,50
AP0403	4	12	60	6	1	0,030	○	72,-
AP0470	4.765	15.9	70	6.35	1	0,040	○	109,-
AP0500	5	16	70	5	1	0,040	○	72,-
AP0501	5	30	80	5	1	0,040	○	78,-
AP0600	6	16	60	6	1	0,030	○	78,-
AP0601	6	25	75	6	1	0,030	○	78,-
AP0602	6	30	75	6	1	0,030	○	87,50
AP0604	6	38	100	6	1	0,050	○	82,-
AP0630	6.35	15.8	70	6.35	1	0,040	○	109,-
AP0800	8	22	75	8	1	0,060	○	109,-
AP0801	8	38	100	8	1	0,080	○	115,-
AP1000	10	30	80	10	1	0,100	○	143,-
AP1200	12	30	100	12	1	0,170	○	167,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

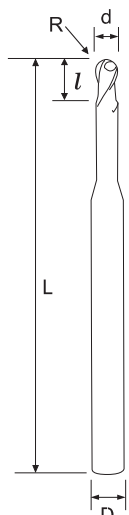
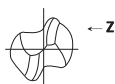
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC ~60HRC ~65HRC			Stainless steel	Copper alloy	Aluminum alloy
							☐	☐

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Ball Nose - long Neck - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MODE	Diameter d	Radius of Ball Nose R	Flute Length l	Efficient Length L1	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
LNBT05022 AlTiN	0.5	0.25	0.75	2	50	4	2	0,010	●	47,-
LNBT05042 AlTiN	0.5	0.25	0.75	4	50	4	2	0,010	●	47,-
LNBT05062 AlTiN	0.5	0.25	0.75	6	50	4	2	0,010	●	47,-
LNBT06022 AlTiN	0.6	0.3	0.9	2	50	4	2	0,010	●	44,-
LNBT06042 AlTiN	0.6	0.3	0.9	4	50	4	2	0,010	●	44,-
LNBT06062 AlTiN	0.6	0.3	0.9	6	50	4	2	0,010	●	44,-
LNBT08042 AlTiN	0.8	0.4	1.2	4	50	4	2	0,010	●	44,-
LNBT08062 AlTiN	0.8	0.4	1.2	6	50	4	2	0,010	●	44,-
LNBT08082 AlTiN	0.8	0.4	1.2	8	50	4	2	0,010	●	44,-
LNBT10062 AlTiN	1	0.5	1.5	6	50	4	2	0,010	●	33,-
LNBT10082 AlTiN	1	0.5	1.	8	50	4	2	0,010	●	33,-
LNBT10102 AlTiN	1	0.5	1.5	10	50	4	2	0,010	●	33,-
LNBT10122 AlTiN	1	0.5	1.5	12	50	4	2	0,010	●	33,-
LNBT12062 AlTiN	1.2	0.6	1.8	6	50	4	2	0,010	●	43,-
LNBT12082 AlTiN	1.2	0.6	1.8	8	50	4	2	0,010	●	43,-
LNBT12102 AlTiN	1.2	0.6	1.8	10	50	4	2	0,010	●	43,-
LNBT12122 AlTiN	1.2	0.6	1.8	12	50	4	2	0,010	●	43,-
LNBT14062 AlTiN	1.4	0.7	2.1	6	50	4	2	0,010	●	43,-
LNBT14102 AlTiN	1.4	0.7	2.1	10	50	4	2	0,010	●	43,-
LNBT14162 AlTiN	1.4	0.7	2.1	16	50	4	2	0,010	●	43,-
LNBT15062 AlTiN	1.5	0.75	2.3	6	50	4	2	0,010	●	33,-
LNBT15082 AlTiN	1.5	0.75	2.3	8	50	4	2	0,010	●	33,-
LNBT15102 AlTiN	1.5	0.75	2.3	10	50	4	2	0,010	●	33,-
LNBT15122 AlTiN	1.5	0.75	2.3	12	50	4	2	0,010	●	33,-
LNBT15142 AlTiN	1.5	0.75	2.3	14	50	4	2	0,010	●	33,-
LNBT15162 AlTiN	1.5	0.75	2.3	16	50	4	2	0,010	●	33,-
LNBT15182 AlTiN	1.5	0.75	2.3	18	50	4	2	0,010	●	33,-
LNBT15202 AlTiN	1.5	0.75	2.3	20	50	4	2	0,010	●	33,-
LNBT16062 AlTiN	1.6	0.8	2.4	6	50	4	2	0,010	●	43,-
LNBT16082 AlTiN	1.6	0.8	2.4	8	50	4	2	0,010	●	43,-

Application: ■ Recommend □ Suitable x Not Recommend

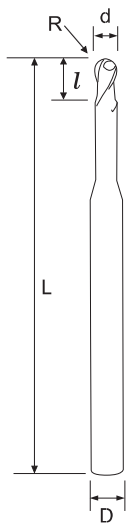
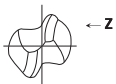
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	~55HRC	~60HRC	~65HRC	□	

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Ball Nose - long Neck - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MODE	Diameter d	Radius of Ball Nose R	Flute Length l	Efficient Length L1	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
LNBT16102 AITIN	1.6	0.8	2.4	10	50	4	2	0,010	●	43,-
LNBT16122 AITIN	1.6	0.8	2.4	12	50	4	2	0,010	●	43,-
LNBT16142 AITIN	1.6	0.8	2.4	14	50	4	2	0,010	●	43,-
LNBT16162 AITIN	1.6	0.8	2.4	16	50	4	2	0,010	●	43,-
LNBT16182 AITIN	1.6	0.8	2.4	18	50	4	2	0,010	●	43,-
LNBT16202 AITIN	1.6	0.8	2.4	20	50	4	2	0,010	●	43,-
LNBT18082 AITIN	1.8	0.9	2.7	8	50	4	2	0,010	●	43,-
LNBT18142 AITIN	1.8	0.9	2.7	14	50	4	2	0,010	●	43,-
LNBT18202 AITIN	1.8	0.9	2.7	20	50	4	2	0,010	●	43,-
LNBT20082 AITIN	2	1	3	8	50	4	2	0,010	●	33,-
LNBT20102 AITIN	2	1	3	10	50	4	2	0,010	●	33,-
LNBT20122 AITIN	2	1	3	12	50	4	2	0,010	●	33,-
LNBT20142 AITIN	2	1	3	14	50	4	2	0,010	●	33,-
LNBT20162 AITIN	2	1	3	16	50	4	2	0,010	●	33,-
LNBT20182 AITIN	2	1	3	18	50	4	2	0,010	●	33,-
LNBT20202 AITIN	2	1	3	20	50	4	2	0,010	●	33,-
LNBT25082 AITIN	2.5	1.25	4	8	50	4	2	0,010	●	33,-
LNBT25122 AITIN	2.5	1.25	4	12	50	4	2	0,010	●	33,-
LNBT25162 AITIN	2.5	1.25	4	16	50	4	2	0,010	●	33,-
LNBT25202 AITIN	2.5	1.25	4	20	50	4	2	0,010	●	33,-
LNBT30102 AITIN	3	1.5	4.5	10	50	6	2	0,010	●	39,-
LNBT30122 AITIN	3	1.5	4.5	12	50	6	2	0,010	●	39,-
LNBT30162 AITIN	3	1.5	4.5	16	60	6	2	0,020	●	42,-
LNBT30202 AITIN	3	1.5	4.5	20	60	6	2	0,020	●	42,-
LNBT30252 AITIN	3	1.5	4.5	25	75	6	2	0,020	●	47,-
LNBT40122 AITIN	4	2	6	12	50	6	2	0,020	●	39,-
LNBT40162 AITIN	4	2	6	16	60	6	2	0,020	●	42,-
LNBT40202 AITIN	4	2	6	20	75	6	2	0,020	●	47,-
LNBT40252 AITIN	4	2	6	25	75	6	2	0,020	●	47,-
LNBT40302 AITIN	4	2	6	30	75	6	2	0,020	●	47,-

Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	□	□	□		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Miniature Ball Nose - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MODE	Diameter d	Radius of Ball Nose R	Flute Length l	Full Length L	Shank Diameter D	Flutes Z		STOCK	PRICELIST €
MIB0032 AlTiN	0.3	0.15	0.6	50	4	2	0,010	●	53,50
MIB0042 AlTiN	0.4	0.2	0.8	50	4	2	0,010	●	49,-
MIB0052 AlTiN	0.5	0.25	1	50	4	2	0,020	●	35,50
MIB0062 AlTiN	0.6	0.3	1.2	50	4	2	0,020	●	35,50
MIB0072 AlTiN	0.7	0.35	1.4	50	4	2	0,020	●	35,50
MIB0082 AlTiN	0.8	0.4	1.6	50	4	2	0,020	●	32,-
MIB0092 AlTiN	0.9	0.45	1.8	50	4	2	0,020	●	32,-
MIB0102 AlTiN	1	0.5	2	50	4	2	0,020	●	20,-
MIB0112 AlTiN	1.1	0.55	2.2	50	4	2	0,020	●	32,-
MIB0122 AlTiN	1.2	0.6	2.4	50	4	2	0,020	●	32,-
MIB0132 AlTiN	1.3	0.65	2.6	50	4	2	0,020	●	32,-
MIB0142 AlTiN	1.4	0.7	2.8	50	4	2	0,020	●	32,-
MIB0152 AlTiN	1.5	0.75	3	50	4	2	0,020	●	20,-
MIB0162 AlTiN	1.6	0.8	3.2	50	4	2	0,020	●	32,-
MIB0172 AlTiN	1.7	0.85	3.4	50	4	2	0,020	●	32,-
MIB0182 AlTiN	1.8	0.9	3.6	50	4	2	0,020	●	32,-
MIB0192 AlTiN	1.9	0.95	3.8	50	4	2	0,020	●	32,-
MIB0202 AlTiN	2	1	4	50	4	2	0,020	●	20,-
MIB0212 AlTiN	2.1	1.05	4.2	50	4	2	0,020	●	32,-
MIB0222 AlTiN	2.2	1.1	4.4	50	4	2	0,020	●	32,-
MIB0232 AlTiN	2.3	1.15	4.6	50	4	2	0,020	●	32,-
MIB0242 AlTiN	2.4	1.2	4.8	50	4	2	0,020	●	32,-
MIB0252 AlTiN	2.5	1.25	5	50	4	2	0,020	●	20,-
MIB0262 AlTiN	2.6	1.3	5.2	50	4	2	0,020	●	32,-
MIB0272 AlTiN	2.7	1.35	5.4	50	4	2	0,020	●	32,-
MIB0282 AlTiN	2.8	1.4	5.6	50	4	2	0,020	●	32,-
MIB0292 AlTiN	2.9	1.45	5.8	50	4	2	0,020	●	32,-
MIB0302 AlTiN	3	1.5	6	50	4	2	0,020	●	20,-

Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

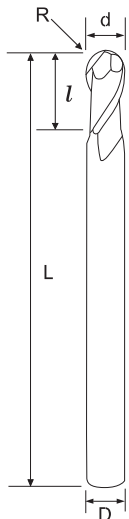
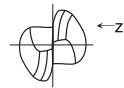
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	□	□	□		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Ball Nose - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.61Jm



MODE	Diameter d	Radius of Ball Nose R	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
SSB0102 TiSiN	1	0.5	2	50	3	2	0,020	○	27,-
MSB0102 TiSiN	1	0.5	2	50	4	2	0,020	○	27,-
SSB0152 TiSiN	1.5	0.75	3	50	3	2	0,020	○	27,-
MSB0152 TiSiN	1.5	0.75	3	50	4	2	0,020	○	27,-
SSB0202 TiSiN	2	1	4	50	3	2	0,020	○	27,-
MSB0202 TiSiN	2	1	4	50	4	2	0,020	○	27,-
SSB0252 TiSiN	2.5	1.25	5	50	3	2	0,020	○	27,-
MSB0252 TiSiN	2.5	1.25	5	50	4	2	0,020	○	27,-
SSB0302 TiSiN	3	1.5	6	50	3	2	0,020	○	27,-
MSB0302 TiSiN	3	1.5	6	50	4	2	0,020	○	27,-
MSB0352 TiSiN	3.5	1.75	7	50	4	2	0,020	○	27,-
MSB0402 TiSiN	4	2	8	50	4	2	0,020	○	27,-
SB0102 TiSiN	1	0.5	2	50	6	2	0,020	●	33,-
SB0152 TiSiN	1.5	0.75	3	50	6	2	0,020	●	33,-
SB0202 TiSiN	2	1	4	50	6	2	0,020	●	33,-
SB0252 TiSiN	2.5	1.25	5	50	6	2	0,020	●	33,-
SB0302 TiSiN	3	1.5	6	50	6	2	0,020	●	33,-
SB0352 TiSiN	3.5	1.75	7	50	6	2	0,020	●	33,-
SB0402 TiSiN	4	2	8	50	6	2	0,020	●	33,-
SB0452 TiSiN	4.5	2.25	9	50	6	2	0,020	●	33,-
SB0502 TiSiN	5	2.5	10	50	6	2	0,020	●	33,-
SB0552 TiSiN	5.5	2.75	11	50	6	2	0,020	●	33,-
SB0602 TiSiN	6	3	12	50	6	2	0,040	●	33,-
SB0702 TiSiN	7	3.5	14	60	8	2	0,040	●	55,-
SB0802 TiSiN	8	4	16	60	8	2	0,080	●	55,-
SB0902 TiSiN	9	4.5	18	75	10	2	0,080	●	79,-
SB1002 TiSiN	10	5	20	75	10	2	0,080	●	79,-
SB1102 TiSiN	11	5.5	22	75	12	2	0,080	●	112,-
SB1202 TiSiN	12	6	24	75	12	2	0,100	●	112,-
SB1402 TiSiN	14	7	28	100	16	2	0,240	●	223,-
SB1602 TiSiN	16	8	32	100	16	2	0,240	●	223,-
SB1802 TiSiN	18	9	36	100	20	2	0,360	●	377,-
SB2002 TiSiN	20	10	40	100	20	2	0,390	●	377,-

Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	~55HRC	~60HRC	~65HRC	□	

● Disponibile - Lieferbar - On stock

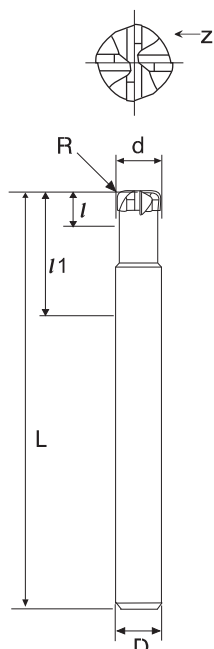
○ A richiesta - Auf Anfrage - On request

SH Super High Speed High Hardness

- Ultra Micro Grain Carbide
- WC=91 Co=9 HRA=93.2 Rupture=4000N/mm² Grain Size=0.2 µm



MODE	Diameter d	Corner Radius R	Flute Length l	Neck Length l1	Neck Diameter	Full Length L	Shank Diameter D	Flutes Z	kg	STOCK	PRICELIST €
KCR0203	2	0.3	0.8	5	1.8	60	6	4	0,020	●	94,-
KCR0205	2	0.5	0.8	5	1.8	60	6	4	0,020	●	94,-
KCR0307	3	0.75	1.2	7.5	2.7	60	6	4	0,020	●	94,-
KCR0310	3	1	1.2	7.5	2.7	60	6	4	0,020	●	94,-
KCR0405	4	0.5	1.6	10	3.6	75	6	4	0,030	●	101,-
KCR0410	4	1	1.6	10	3.6	75	6	4	0,030	●	101,-
KCR0510	5	1	2	12	4.5	75	6	4	0,030	●	101,-
KCR0512	5	1.2	2	12	4.5	75	6	4	0,030	●	101,-
KCR0610	6	1	2.5	13	5.4	100	6	4	0,040	●	112,-
KCR0615	6	1.5	2.5	13	5.4	100	6	4	0,040	●	112,-
KCR0810	8	1	3.5	16	7.2	100	8	4	0,080	●	136,-
KCR0820	8	2	3.5	16	7.2	100	8	4	0,080	●	136,-
KCR0920	9	2	4	18	8.2	100	10	4	0,120	●	215,-
KCR1010	10	1	4	20	9	100	10	4	0,120	●	207,50
KCR1020	10	2	4	20	9	100	10	4	0,120	●	207,50
KCR1210	12	1	5	24	11	100	12	4	0,170	●	236,-
KCR1220	12	2	5	24	11	100	12	4	0,170	●	236,-
KCR1230	12	3	5	24	11	100	12	4	0,170	●	236,-



Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminun alloy
□	□	■	■	■	■			

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

BIG FOOT Super Remover

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.4 m

400
Nano

HRC
60

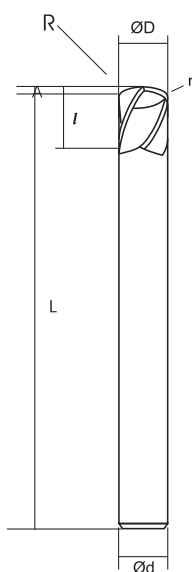
30°

SH

R
±0.01



MODE	Diameter d	Corner Radius R	Corner A B		Corner r	Flute Length l	Full Length L	Shank Diameter D		STOCK	PRICELIST €
BFR06050	6	5	0.66	3	2	7	60	6	0,020	●	40,-
BFR06051	6	5	0.66	3	2	7	100	6	0,050	●	57,-
BFR06060	6	6	0.66	3	1.5	7	60	6	0,020	●	40,-
BFR06061	6	6	0.66	3	1.5	7	100	6	0,040	●	57,-
BFR08080	8	8	0.88	4	2	9	60	8	0,040	●	55,-
BFR08081	8	8	0.88	4	2	9	100	10	0,080	●	80,-
BFR10100	10	10	0.9	5	3	11	75	10	0,110	●	92,-
BFR10101	10	10	0.9	5	3	11	100	12	0,120	●	101,-
BFR12120	12	12	1.6	6	3	13	75	12	0,120	●	101,-
BFR12121	12	12	1.6	6	3	13	100	12	0,180	●	117,-
BFR12150	12	15	0.91	6	3	15	75	12	0,120	●	101,-
BFR12151	12	15	0.91	6	3	15	100	12	0,150	●	117,-
BFR16160	16	16	1.77	8	4	18	150	16	0,350	●	308,-
BFR16200	16	20	1.5	8	3	22	150	16	0,400	●	308,-



Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-hardened steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
□	□	■	■	■	■			

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

Super High Hardness & Super High Speed Cutting Ball Nose

- Ultra Micro Grain Carbide
- WC=91 Co=9 HRA=93.2 Rupture=4000N/mm² Grain Size=0.2µm

200
Nano

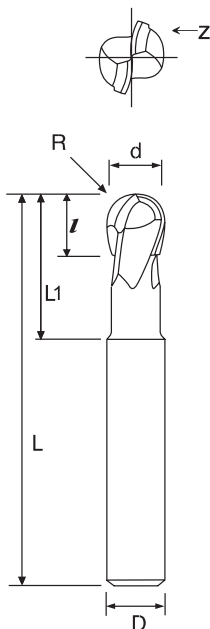
HRC
▶ 65

5°

SH



MODE	Diameter d	Radius R	Flute Length l	Efficient Length L1	Neck Diameter	Full Length L	Shank Diameter D	 kg	STOCK	PRICELIST €
KTG0102 SH	1	0.5	1	2.5	0.96	50	6	0,030	○	55,-
KTG0152 SH	1.5	0.75	1.5	4	1.46	50	6	0,030	○	55,-
KTG0202 SH	2	1	2	6	1.96	50	6	0,030	○	55,-
KTG0252 SH	2.5	1.25	2.5	7	2.46	50	6	0,030	○	55,-
KTG0302 SH	3	1.5	3	8	2.96	50	6	0,030	○	55,-
KTG4402 SH	4	2	4	8	3.96	50	4	0,020	○	43,-
KTG0402 SH	4	2	4	8	3.96	50	6	0,030	○	55,-
KTG0502 SH	5	2.5	5	12	4.96	50	6	0,030	○	55,-
KTG0602 SH	6	3	6	13	5.96	50	6	0,030	○	55,-
KTG0802 SH	8	4	8	16	7.9	60	8	0,050	○	77,-
KTG1002 SH	10	5	10	20	9.9	75	10	0,090	○	104,50
KTG1202 SH	12	6	12	24	11.9	75	12	0,120	○	161,-



Application: ☒ Recommend ☐ Suitable ☐ Not Recommend

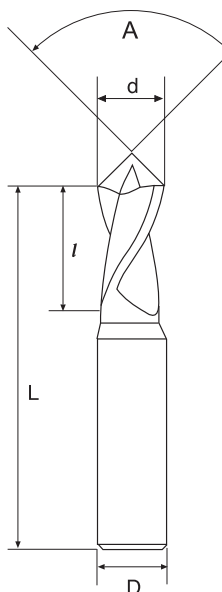
carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
□	□	■	■	■	■			

● Disponibile - Lieferbar - On stock

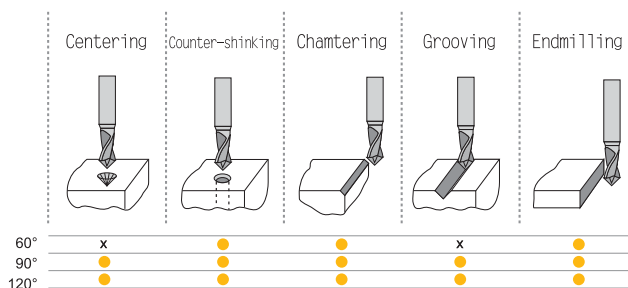
○ A richiesta - Auf Anfrage - On request

Multi - function end mill series - 2 flutes

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Tip Angle A	Flutes z	kg	STOCK	PRICELIST €
CDM060030 AlTiN	3	6	50	4	60°	2	0,020	○	39,-
CDM090030 AlTiN	3	6	50	4	90°	2	0,020	○	50,-
CDM120030 AlTiN	3	6	50	4	120°	2	0,080	○	50,-
CDM060040 AlTiN	4	8	50	6	60°	2	0,020	○	83,50
CDM090040 AlTiN	4	8	50	6	90°	2	0,040	○	109,50
CDM120040 AlTiN	4	8	50	6	120°	2	0,080	○	119,50
CDM060050 AlTiN	5	10	50	6	60°	2	0,020	○	119,50
CDM090050 AlTiN	5	10	50	6	90°	2	0,050	○	174,50
CDM120050 AlTiN	5	10	50	6	120°	2	0,160	○	256,50
CDM060060 AlTiN	6	12	60	8	60°	2	0,020	○	308,-
CDM090060 AlTiN	6	12	60	8	90°	2	0,040	○	39,-
CDM120060 AlTiN	6	12	60	8	120°	2	0,150	○	50,-
CDM060080 AlTiN	8	16	75	10	60°	2	0,020	○	50,-
CDM090080 AlTiN	8	16	75	10	90°	2	0,040	○	83,50
CDM120080 AlTiN	8	16	75	10	120°	2	0,140	○	109,50
CDM060100 AlTiN	10	20	75	12	60°	2	0,020	○	119,50
CDM090100 AlTiN	10	20	75	12	90°	2	0,040	○	119,50
CDM120100 AlTiN	10	20	75	12	120°	2	0,150	○	174,50
CDM060120 AlTiN	12	25	75	12	60°	2	0,020	○	256,50
CDM090120 AlTiN	12	25	75	12	90°	2	0,090	○	308,-
CDM120120 AlTiN	12	25	75	12	120°	2	0,140	○	39,-
CDM060140 AlTiN	14	28	80	14	60°	2	0,020	○	50,-
CDM090140 AlTiN	14	28	80	14	90°	2	0,080	○	50,-
CDM120140 AlTiN	14	28	80	14	120°	2	0,150	○	83,50
CDM060160 AlTiN	16	32	100	16	60°	2	0,020	○	109,50
CDM090160 AlTiN	16	32	100	16	90°	2	0,090	○	119,50
CDM120160 AlTiN	16	32	100	16	120°	2	0,140	○	119,50
CDM060200 AlTiN	20	35	100	20	60°	2	0,020	○	174,50
CDM090200 AlTiN	20	35	100	20	90°	2	0,080	○	256,50
CDM120200 AlTiN	20	35	100	20	120°	2	0,140	○	308,-



Application: ■ Recommend □ Suitable x Not Recommend

carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□			□		

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

SET MPE/MSE 25



Profi-box VHM Schaftfräser

25 VHM Schaftfräser
3- Schneidigen 45°
4- Schneidigen 35°
jetzt in der neuen PROFI-BOX!

SET MPE 3T/25 TISIN 45°

**SONDER
AKTION
DEPLIANT**

05PCS	MPE0103 TISIN
05PCS	MPE0153 TISIN
05PCS	MPE0203 TISIN
05PCS	MPE0303 TISIN
05PCS	MPE0403 TISIN

SET MSE 4T/25 TISIN 35°

**SONDER
AKTION
DEPLIANT**

05PCS	MSE0104 TISIN
05PCS	MSE0154 TISIN
05PCS	MSE0204 TISIN
05PCS	MSE0304 TISIN
05PCS	MSE0404 TISIN

SET MPE/MSE 50



Profi-box VHM Schaftfräser

50 VHM Schaftfräser
3- Schneidigen 45°
4- Schneidigen 35°
jetzt in der neuen PROFI-BOX!

SET MPE 3T TISIN 45°

**SONDER
AKTION
DEPLIANT**

10PCS	MPE0103 TISIN
10PCS	MPE0153 TISIN
10PCS	MPE0203 TISIN
10PCS	MPE0303 TISIN
10PCS	MPE0403 TISIN

SET MSE 4T/50 TISIN 35°

**SONDER
AKTION
DEPLIANT**

10PCS	MSE0104 TISIN
10PCS	MSE0154 TISIN
10PCS	MSE0204 TISIN
10PCS	MSE0304 TISIN
10PCS	MSE0404 TISIN

SET MSB 50



Profi-box VHM Schaftfräser

50 VHM Schaftfräser
2- Schneidigen 35°
jetzt in der neuen PROFI-BOX!

SET MSB 2T/50 TISIN 35°

**SONDER
AKTION
DEPLIANT**

10PCS	MSB0102 TISIN
10PCS	MSB0152 TISIN
10PCS	MSB0202 TISIN
10PCS	MSB0302 TISIN
10PCS	MSB0402 TISIN

— RICAMBI —



HIGH QUALITY TOOLS

CODICE	PREZZO €	CODICE	PREZZO €	CODICE	PREZZO €
A02-20033 (M2X3,3 T06)	7,-	KP 1111	7,50	US3431	15,50
A02-35082 (M3,5X8,2 T15)	3,-	KP 3111	7,50	US3450	19,-
A02-60120 (M6X12 T25)	5,-	KVR 16	16,50	US4111	15,50
A06-50088 (M5X8,8 T20)	5,-	M6-16 (M6X16,2 5)	5,50	US4221	15,50
A13-25042 (M2,5X4,2 T08)	7,-	MP1111	2,-	US5511	11,50
A13-25050 (M2,5X5 T08)	7,-	MP1221	2,-	US6522	15,50
A13-30073 (M3X7,3 T08)	5,-	MP1321	2,-	V04-T0600	5,50
AKE 12,4	14,50	MP3111	2,-	V04-T0800	5,50
AS 0043 (M5X8,5 2,5)	10,-	P1	11,50	V04-T1500	6,50
AS 0044 (M6X10 3)	10,-	RE0 (M3X5 1,5)	4,50	V04-T2000	7,50
BFTX01604N (M1,6X4,2 T06)	12,-	RE1 (M3X6 1,5)	4,50	V04-T2500	7,50
BFTX0204N (M2X4,8 T06)	12,-	RE2 (M4X8 2)	4,50	V1005 (M5X11 T20)	5,50
BFTX02206N (M2,2X5,6 T07)	12,-	RE3 (M5X8 2,5)	4,50	V1006 (M6X16,2 T20)	7,50
BFTX02506N (M2,5X6,5 T08)	12,-	RE4 (M5X12 2,5)	4,50	V11 (M3X8,2 T09)	5,50
BFTX03584 (M3,5X8,6 T15)	12,-	RE5 (M8X12 4)	4,50	V26 (M2,5X5,5 T07)	5,50
BFTX0511N (M5X11,5 T20)	17,-	RE6 (M8X16 4)	4,50	V27 (M2,5X6,5 T07)	5,50
BFTX0615N (M6X15 T25)	17,-	RE7 (M8X20 4)	4,50	V36 (M3,5X10 T15)	5,50
BL0 (M4X8,2 T15)	7,50	RE8 (M8X20 4)	4,50	V41 (M4X11,7 T15)	5,50
BL1 (M5X10 T20)	7,50	RE9 (M3X4 1,5)	4,50	VF4 (M4X8 T08)	4,50
BL2 (M6X12,5 T25)	7,50	RE10 (M3X5 1,5)	4,50	VFS088	5,50
BL3 (M8X16 5)	7,50	RE11 (M2X4 0,89)	4,50	VT16 (M1,6X3,2 T06)	6,50
BL4 (M8X20 5)	7,50	RP1111	3,50	VT1604 (M1,6X3,5 T05)	7,50
BL5 (M10X25 6)	9,50	RP1221	3,50	VT18 (M1,8X3,7 T06)	6,50
BL6 (M10X30 6)	9,50	RP1321	3,50	VT1806 (M1,8X4,09 T06)	6,50
BL7 (M12X35 8)	10,50	RP3112	3,50	VT18 B (M1,8X3 T06)	6,50
BL8 (M12X40 8)	10,50	S12 NEW	91,-	VT20 (M2X4,8 T06)	7,50
BL9 (M2,5X6,5 T07)	5,50	S24	5,-	VT20 B (M2X3,2 T06)	6,50
BL10 (M3X8,2 T09)	5,50	S25	5,-	VT22 (M2,2X4,8 T07)	5,50
BL11 (M2X5,5 T06)	5,50	S35	5,50	VT22 B (M2,2X4,5 T06)	5,50
BT05	6,50	S35M	5,50	VT24 (M2X3,8 T06)	5,50
BT06	6,50	S35S	5,50	VT25 (M2,5X5,5 T08)	5,-
BT07	6,50	SP1111 (M8X18,2 3)	5,50	VT25 B (M2,5X5 T08)	4,50
BT08	6,50	SP1114 (M8X16,8 3)	6,50	VT25 FLEXIMILL (M2,5X5,5 T08)	4,50
BT09	7,50	SP1118 (M5X9,8 2)	5,-	VT2530 (M2,5X4,5 T07)	5,50
BT15	7,50	SP1221 (M8X20,5 3)	5,50	VT2565 (M2,5X6,5 T08)	6,-
BT20	8,50	SP1321 (M10X26,5 4)	5,50	VT25 830 (M2,5X5,5 T08)	5,-
BT25 IP	8,50	SP3111 (M6X16,7 2,5)	5,-	VT30 745 (M3X7,4 T09)	4,-
C06710 (M4X8 T15)	6,50	SP3112 (M6X13,6 2,5)	5,-	VT35 (M3,5X7,2 T15)	4,50
CBH 08-10-12-16	29,-	SP3113 (M5X12,2 2)	5,-	VT35 S (M3,5X8,5 T15)	4,50
CVB35 (M3,5X4 T15)	6,50	SP5751 (M5X9,5 2)	5,-	VT3511 (M3,5X11 T15)	4,50
CVB45	12,50	SS1111 (M3,5X11 T15)	5,50	VT40 (M4X9 T15)	5,-
CVB55 (M8X21 IP25)	11,50	SS1114 (M3,5X7,2 T15)	5,50	VT4010 (M4X11,2 T15)	6,50
CVB55 L (M8X21 4)	11,50	SS1221 (M4,5X12 T15)	5,50	VT40 710 (M4X10,5 T20)	4,50
E1	9,50	SS1751 (M2,5X6 T08)	5,50	VT40 735 (M4X11,7 T15)	4,-
G1 (M5X6 2,5)	2,50	SS8831 (M3X7,3 T08)	5,50	VT40 835 (M4X11,7 T15)	5,90
GBS1111 (M5X8 3,5)	7,50	T16 NEW	91,-	VT40 B (M4X8,3 T15)	4,50
GBS1221 (M6X9 4,5)	7,50	UP1111	12,50	VT40 R (M4X10 T15)	4,50
GE KEY	1,50	UP1115	10,-	VT40 S (M4X11,5 T20)	4,50
GESL	10,-	UP1221	20,50	VT40 SL (M4X5 T15)	7,-
GS1	28,-	UP1321	30,-	VT40 THS (M4X11 T15)	10,50
HP1111	20,50	UP2011	12,50	VT45 (M4,5X10,5 T20)	4,50
HP1118	20,-	UP2421	13,-	VT50 (M5X11 T20)	5,-
HP1221	20,-	UP5112	10,-	VT50 BHM (M5X12 3)	24,-
HP1321	30,-	UP5321	29,50	VT50 THS (M5X12 T20)	12,50
HP2011	20,-	UP5421	20,50	VT.FB.030 (M8X30,5)	29,-
HP2012	27,-	UP6211	11,-	VT.FB.035 (M10X31)	34,-
HP2421	21,50	UP71011	13,50	VT.FB.STANDARD (M12X30 8)	4,50
HP4751	20,-	UP71111	15,-	VTX 3503 (M3,5X3,3 T09)	8,50
HP4753	20,-	US1111	15,50	VTX 3504 (M3,5X4,2 T09)	8,50
HP6051	20,-	US1221	19,-	VTX 405 (M4X5,2 T15)	8,50
K25	8,50	US2311	11,50	VTX 408 (M4X7,8 T15)	8,50

- In rosso : Novità - Rotfarbig : Neuheiten - In red : News

- In rosso : Novità - Rotfarbig : Neuheiten - In red : News

CODICE	PREZZO €
YES DRILLS	
ASTINA PER PUNTE YTDI	2,50
CHIAVE 0,9	5,50
CHIAVE 1,3	5,50
CHIAVE 1,5	5,50
CHIAVE 2,0	5,50
CHIAVE 2,5	5,50
CHIAVE 3,0	5,50
CHIAVE 4,0	5,50
CAP SCREW CS 080-085 SL	7,50
CAP SCREW CS 090-095 SL	7,50
CAP SCREW CS 100-115 SL	7,50
CAP SCREW CS 120-135 SL	7,50
CAP SCREW CS 140-155 SL	7,50
CAP SCREW CS 160-175 SL	7,50
CAP SCREW CS 180-195 SL	7,50
CAP SCREW CS 200-215 SL	7,50
CAP SCREW CS 220-235 SL	7,50
CAP SCREW CS 240-255 SL	7,50
CAP SCREW CS 260-275 SL	7,50
CAP SCREW CS 280-295 SL	7,50
CAP SCREW CS 300-315 SL	7,50
CAP SCREW CS 320-355 SL	7,50
CAP SCREW CS 360-395 SL	7,50
CAP SCREW CS 400-445 SL	7,50
CAP SCREW CS 450-500 SL	7,50
GRANO M2X4 SL	4,50
GRANO M2,5X4 SL	4,50
GRANO M3X6 SL	4,50
GRANO M4X8 SL	4,50
GRANO M5X10 SL	4,50
GRANO M6X12 SL	4,50

CODICE	PREZZO €
SLIM CHUCK	
CHIAVE 30194-002	26,50
CHIAVE 30194-632	6,-
CHIAVE 30194-643	7,-
CHIAVE 30194-644	7,-
VITE M4L70	26,50
VITE M4L85	26,50
VITE M5L95	17,50
VITE M5L100	17,50
BUSSOLA OP-M8	9,-
BUSSOLA OP-M10	9,-
BUSSOLA OP-M12	9,-
BUSSOLA OP-M16	9,-
ESTRATTORE TP-M8	9,-
ESTRATTORE TP-M12	9,-

CODICE	PREZZO €
NICECUT	
CL-15	15,50
K-3	7,-
L-6	11,50
L-12	11,50
L-13	17,50
L-14	17,50
L-15	27,50
L-16	27,50
L-18	27,50
M-1	33,-
MA-1	33,-
N-4	33,-
N-5	27,50
N-6	33,-
N-7	33,-



H I G H Q U A L I T Y T O O L S

CUTTING CONDITIONS

Milling		P	M	K	N	S	H
	APKT 060204 PDER-S	K300	P25-P40	M20-M40	K20-K40		
	fz	0,05-0,25	0,05-0,25	0,05-0,25			
	ap	0,5-2,5	0,5-2,5	0,5-2,5			
	VC	110-200	90-160	120-230			
	APKT 060204 PDER-S	P200	P10-P20	K10-K20			
	fz	0,05-0,25		0,05-0,25			
	ap	0,5-2,5		0,5-2,5			
	VC	180-280		160-270			
	APKT 060204 PDER-S	P300	P30-P40	M30-M40			
	fz	0,05-0,25	0,05-0,25				
	ap	0,05-2,5	0,05-2,5				
	VC	110-180	90-160				
	APKT 060204 PDTR-K	K400	P25-P40	M20-M40	K20-K40		
	fz	0,05-0,25	0,05-0,25	0,05-0,25			
	ap	0,5-2,5	0,5-2,5	0,5-2,5			
	VC	110-200	90-160	120-230			
	APKT 1003 PDR-M	K400	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-4	0,1-4	0,1-4			
	VC	110-200	70-160	120-230			
	APKT 1003 PDER-S	K300	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-4	0,1-4	0,1-4			
	VC	100-170	70-130	120-230			
	APKT 1003 PDER-S	P200	P10-P20	K10-K20			
	fz	0,05-0,30		0,05-0,30			
	ap	0,1-4		0,1-4			
	VC	180-280		160-270			
	APKT 1003 PDER-S	P300	P30-P40	M30-M40			
	fz	0,05-0,25	0,05-0,25				
	ap	0,1-4	0,1-4				
	VC	110-120	90-160				
	APKT 1003 PDFR-R 04 ALU	K15			K10-K15		
	fz				0,06-0,2		
	ap				0,1-4		
	VC				300-500		
	APKT 1604 PDR-M	K400	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-7	0,1-7	0,1-7			
	VC	110-200	70-160	120-230			
	APKT 1604 PDER-S	K300	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-7	0,1-7	0,1-7			
	VC	100-170	70-130	120-230			
	APKT 1604 PDER-S	P200	P10-P20	K10-K20			
	fz	0,05-0,20		0,05-0,20			
	ap	0,1-7		0,1-7			
	VC	180-280		160-270			
	APKT 1604 PDER-S	P300	P30-P40	M30-M40			
	fz	0,05-0,25	0,05-0,25				
	ap	0,1-7	0,1-7				
	VC	110-120	90-160				

Milling		P	M	K	N	S	H
APKT 1604 PDR-R 04/08 ALU 	K15				K10-K15		
	fz				0,06-0,2		
	ap				0,1-7		
	VC				300-500		
APHX 1003 FR-ALU 	K15				K10-K15		
	fz				0,10-0,20		
	ap				0,1-4		
	VC				200-700		
APHX 1604 FR-ALU 	K15				K10-K15		
	fz				0,10-0,20		
	ap				0,1-8		
	VC				200-700		
APHX 1604 PDR-ALU 	K15				K10-K15		
	fz				0,10-0,20		
	ap				0,1-8		
	VC				200-700		
APHT 100304 	P25	P25					
	fz	0,07-0,15					
	ap	0,1-4					
	VC	70-200					
APHT 100304 	TIN	P20-P40	M20-M40				
	fz	0,07-0,18	0,07-0,18				
	ap	0,1-4	0,1-4				
	VC	120-250	80-200				
APHT 100304 	TIALN	P20-P25	M20-M35	K20-K30			
	fz	0,07-0,20	0,07-0,20	0,07-0,20			
	ap	0,5-4	0,5-4	0,5-4			
	VC	110-220	70-130	120-230			
APHT 1604 PDR 	P25	P25					
	fz	0,10-0,18					
	ap	0,1-7					
	VC	70-200					
APHT 1604 PDR 	TIN	P20-P40	M20-M40				
	fz	0,10-0,20	0,08-0,18				
	ap	0,1-7	0,1-7				
	VC	110-220	70-130				
APHT 1604 PDR 	TIALN	P20-P25	M20-M35	K20-K30			
	fz	0,05-0,20	0,05-0,20	0,05-0,20			
	ap	0,5-7	0,5-7	0,5-7			
	VC	120-280	80-200	120-230			
CCMT 0602 02/04 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,07-0,17	0,06-0,14	0,06-0,15			
	ap	0,3-1,8	0,3-1,4	0,3-1,8			
	VC	120-250	80-220	120-230			
CCMT 09T3 04/08 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,09-0,20	0,08-0,26	0,08-0,20			
	ap	0,3-2,5	0,3-2	0,3-2,5			
	VC	120-250	80-220	120-230			
CCMT 1204 04/08 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,18-0,45	0,18-0,35	0,15-0,50			
	ap	0,5-4	0,5-4	0,5-5			
	VC	120-250	80-220	120-230			

Milling		P	M	K	N	S	H
	CPMT 05T104	K300	P15-P30	M20-M35	K15-K30		
	fz	0,15-0,4	0,15-0,4	0,15-0,4			
	ap	0,1-3,5	0,1-3,5	0,1-3,5			
	VC	130-220	100-160	120-180			
	CPMT 05T1 02/04 EN-PS	P200	P10-P20	K10-K20			
	fz	0,15-0,4		0,15-0,4			
	ap	0,1-3,5		0,1-3,5			
	VC	150-250		150-230			
	CPMT 05T1 02/04 EN-PM1	K400	P20-P35	M15-M30	K15-K25		
	fz	0,15-0,4	0,15-0,4	0,15-0,4			
	ap	0,1-3,5	0,1-3,5	0,1-3,5			
	VC	130-220	100-160	120-180			
	LNEX 1006	K15			K10-K20		
	fz				0,05-0,20		
	ap				0,1-4		
	VC				250-400		
	LNEX 1510	K15			K10-K20		
	fz				0,05-0,20		
	ap				0,1-6		
	VC				250-400		
	LNKX 1006	K400	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-4	0,1-4	0,1-4			
	VC	110-200	90-160	120-230			
	LNKX 1510	K400	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-6	0,1-6	0,1-6			
	VC	110-220	90-160	120-200			
	LNMX 1006	K300	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-4	0,1-4	0,1-4			
	VC	110-200	90-160	120-230			
	LNMX 1006	P200	P10-P20	K10-K20			
	fz	0,05-0,20		0,10-0,25			
	ap	0,1-4		0,1-4			
	VC	100-220		120-220			
	LNMX 1006	P300	P30-P40	M30-M40			
	fz	0,05-0,25	0,05-0,20				
	ap	0,1-4	0,1-4				
	VC	100-170	60-130				
	LNMX 1510	K300	P25-P40	M20-M40	K20-K40		
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,1-6	0,1-6	0,1-6			
	VC	110-220	90-160	120-200			
	LNMX 1510	P200	P10-P20	K10-K20			
	fz	0,05-0,20		0,05-0,25			
	ap	0,1-6		0,1-6			
	VC	110-220		110-220			
	LNMX 1510	P300	P30-P40	M30-M40			
	fz	0,08-0,25	0,08-0,25				
	ap	0,1-6	0,1-6				
	VC	100-170	60-130				
	ONMU 1205 ANN	K300	P25-P40	M20-M40	K20-K40		
	fz	0,05-0,25	0,05-0,25	0,05-0,25			
	ap	0,5-2,5	0,5-2,5	0,5-2,5			
	VC	110-220	90-160	120-200			
	ONMU 1205 ANN	P200	P10-P20	K10-K20			
	fz	0,05-0,25		0,05-0,25			
	ap	0,5-2,5		0,5-2,5			
	VC	180-280		160-270			

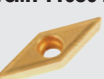
Milling		P	M	K	N	S	H
ONMU 1205 ANN 	P300	P30-P40	M30-M40				
	fz	0,05-0,25	0,05-0,25				
	ap	0,5-2,5	0,5-2,5				
	VC	110-190	90-170				
RDHT 0501 MOF ALU 	K15				K05-K10		
	fz				0,2-1		
	ap				0,5-2		
	VC				100-350		
RDHT 0501 MOT RDHT 0702 MOT 	K400	P15-P35	M30-M40	K10-K30			
	fz	0,11-0,22	0,08-0,18	0,11-0,22			
	ap	0,3-3	0,3-3	0,3-3			
	VC	180-300	100-150	220-300			
RDHT 0702 MOF ALU 	K15				K05-K10		
	fz				0,2-1		
	ap				0,5-3		
	VC				100-350		
RDHT 1003 MOF ALU 	K15				K05-K10		
	fz				0,2-1		
	ap				1-3,5		
	VC				100-350		
RDHT 1003 MOT RDHT 12T3 MOT 	K400	P15-P35	M30-M40	K10-K30			
	fz	0,11-0,22	0,08-0,18	0,11-0,22			
	ap	1-6	1-6	1-6			
	VC	180-300	100-150	220-300			
RDHT 12T3 MOF ALU 	K15				K05-K10		
	fz				0,2-1		
	ap				1-4		
	VC				100-350		
RDHT 1604 MOF ALU 	K15				K05-K10		
	fz				0,2-1		
	ap				1-5		
	VC				100-350		
RDHT 1604 MOT 	K400	P15-P35	M30-M40	K10-K30			
	fz	0,11-0,22	0,08-0,18	0,11-0,22			
	ap	1-8	1-8	1-8			
	VC	180-300	100-150	220-300			
SCMT 060204 	K400	P15-P30	M20-M35	K15-K30			
	fz	0,05-2	0,05-2	0,05-2			
	ap	0,1-2	0,1-2	0,1-2			
	VC	100-240	130-220	120-200			
SCMT 09T308 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,18-0,45	0,20-0,40	0,15-0,50			
	ap	0,5-3,2	0,5-3,2	0,5-4			
	VC	120-250	80-220	120-230			
SCMT 120408 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,13-0,30	0,20-0,40	0,15-0,50			
	ap	1-5	1-5	1-5			
	VC	120-250	110-170	120-230			
SDMT 1205 PDR.69 	P25	P25					
	fz	0,07-0,20					
	ap	0,1-8,8					
	VC	70-200					
SDMT 1205 PDR.69 	TIN	P20-P40	M20-M40				
	fz	0,10-0,25	0,07-0,20				
	ap	0,1-8,8	0,1-5,3				
	VC	120-280	80-200				

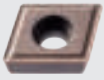
Milling		P	M	K	N	S	H
SDMT 1205 PDR.69 	TIALN	P20-P35	M20-M35	K20-K30			
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	1-5	1-5	1-5			
	VC	110-220	70-130	120-230			
SEEX 12T408 TiN 	TiN	P25-P40	M20-M40	K20-K40			
	fz	0,08-0,15	0,08-0,15	0,08-0,15			
	ap	0,5-2,5	0,5-2,5	0,5-2,5			
	VC	80-150	80-150	80-150			
SEHT 13T3 	K300	P25-P40	M20-M40	K20-K40			
	fz	0,10-0,30	0,05-0,25	0,10-0,30			
	ap	0,5-5	0,5-5	0,5-5			
	VC	110-220	90-160	120-200			
SEHT 13T3 	P200	P25-P40		K10-K20			
	fz	0,08-0,30		0,05-0,30			
	ap	0,1-5		0,1-5			
	VC	170-250		160-260			
SEHT 13T3 	P300	P30-P40	M30-M40				
	fz	0,05-0,30	0,01-0,30				
	ap	0,5-5	0,1-5				
	VC	110-190	80-150				
SEHX 13T03 ALU 	K15				K10-K20		
	fz				0,10-0,30		
	ap				0,1-3		
	VC				200-350		
SDHX 1204 SEHX 1204 ALU 	K15				K10-K20		
	fz				0,10-0,30		
	ap				0,1-3		
	VC				200-350		
SEKR 1203 AFTN 	K400	P15-P40	M15-M35	K10-K50			
	fz	0,15-0,36	0,12-0,26	0,15-0,41			
	ap	0,5-5	0,5-5	0,5-7			
	VC	130-240	70-170	100-200			
SDKT 1204 SEKT 1204 AFTN 	K400	P25-P40	M20-M40	K20-K40			
	fz	0,10-0,16	0,10-0,13	0,10-0,15			
	ap	0,5-5	0,5-5	0,5-5			
	VC	130-240	70-170	100-200			
SNEX 1206 ANN MA ALU 	K15				K10-K20		
	fz				0,10-0,30		
	ap				0,1-3		
	VC				200-350		
SNHX 1102/03 T 	P25	P25					
	fz	0,05-0,11					
	ap	0,1-11					
	VC	70-90					
SNHX 1102/03 T 	TiN	P20-P40	M20-M40				
	fz	0,06-0,15	0,05-0,1				
	ap	0,1-11	0,1-11				
	VC	140-160	90-120				
SNHX 1203/05 T 	P25	P25					
	fz	0,05-0,11					
	ap	0,1-12					
	VC	70-90					
SNHX 1203/05 T 	TiN	P20-P40	M20-M40				
	fz	0,06-0,15	0,05-0,1				
	ap	0,1-12	0,1-12				
	VC	140-160	90-120				

Milling		P	M	K	N	S	H
SNHX 1102/03 T SNHX 1203/05 T 	TIALN	P25-P40	M20-M40	K20-K40			
	fz	0,08-0,15	0,08-0,15	0,08-0,15			
	ap						
	VC	120-200	70-130	130-210			
SNHX 1102/03 ALU SNHX 1203/05 ALU 	K15				K10-K15		
	fz				0,08-0,15		
	ap						
	VC				200-500		
SNMU 1260 ANER 	K300	P25-P40	M20-M40	K20-K40			
	fz	0,05-0,25	0,05-0,25	0,05-0,25			
	ap	0,5-5	0,5-5	0,5-5			
	VC	110-220	90-160	120-200			
SNMU 1260 ANER 	P200	P10-P20		K10-K20			
	fz	0,05-0,25		0,05-0,25			
	ap	0,5-5		0,5-5			
	VC	190-290		200-300			
SNMU 1260 ANER 	P300	P30-P40	M30-M40				
	fz	0,05-0,25	0,05-0,25				
	ap	0,5-5	0,5-5				
	VC	110-190	90-170				
SNMX 1206 ANN1 	K300	P25-P40	M20-M40	K20-K40			
	fz	0,10-0,30	0,05-0,25	0,10-0,30			
	ap	0,5-5	0,5-5	0,5-5			
	VC	110-220	90-160	120-200			
SNMX 1206 ANN1 	P200	P25-P40		K20-K40			
	fz	0,05-0,25		0,05-0,20			
	ap	0,5-5		0,5-5			
	VC	180-280		160-270			
SNMX 1206 ANN1 	P300	P30-P40	M20-M40				
	fz	0,05-0,25	0,05-0,25				
	ap	0,5-5	0,5-5				
	VC	110-190	70-170				
SNKX 1206 ANN1 	K400	P25-P40	M20-M40	K20-K40			
	fz	0,08-0,12	0,06-0,2	0,12-0,35			
	ap	0,12-6	0,12-6	0,12-6			
	VC	110-200	70-150	120-200			
SPGT 060304 ALU 	K15				K10-K15		
	fz				0,10-0,20		
	ap				0,5-2,0		
	VC				200-700		
SPGT 09T308 ALU 	K15				K10-K15		
	fz				0,10-0,20		
	ap				0,5-2,0		
	VC				200-700		
SPGT 120408 ALU 	K15				K10-K15		
	fz				0,10-0,20		
	ap				0,5-5,0		
	VC				200-700		
SPMT 060304 	K400	P15-P40	M15-M35	K10-K50			
	fz	0,05-0,10	0,05-0,08	0,05-0,12			
	ap	0,3-3	0,3-3	0,3-3			
	VC	130-240	70-170	110-220			

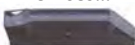
Milling		P	M	K	N	S	H
SPMT 09T308 	K400	P15-P40	M15-M35	K10-K50			
	fz	0,08-0,20	0,08-0,20	0,05-0,20			
	ap	0,5-4	0,5-4	0,5-4			
	VC	130-240	70-170	110-220			
SPMT 120408 	K400	P15-P40	M15-M35	K10-K50			
	fz	0,08-0,20	0,08-0,20	0,11-0,25			
	ap	0,5-6	0,5-6	0,5-6			
	VC	130-240	70-170	110-220			
TCGX 163504 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,08-0,15	0,08-0,15	0,08-0,15			
	ap	1-7,5	1-7,5	1-7,5			
	VC	30-70	30-50	70-90			
TCMT 080204 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,03-0,15	0,03-0,15	0,03-0,15			
	ap	0,1-1,0	0,1-1,0	0,1-1,0			
	VC	80-150	60-130	100-160			
TCMT 1102 02/04 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,08-0,17	0,06-0,16	0,06-0,15			
	ap	0,3-1,8	0,3-1,4	0,3-1,8			
	VC	100-200	80-170	120-230			
TCMT 16T3 04/08 	K400	P10-P30	M10-M25	K10-K20			
	fz	0,10-0,20	0,08-0,16	0,08-0,18			
	ap	0,3-2,5	0,3-2	0,3-2,5			
	VC	120-250	80-170	120-230			
TCMX 16T3/08 ZR 	TiN/TiAlN	P25-P40	M20-M40	K20-K40			
	fz	0,02-0,04	0,02-0,04	0,02-0,04			
	ap	0,5-1,5	0,5-1,5	0,5-1,5			
	VC	30-70	30-50	50-90			
WNEU 040304/08 	K300	P25-P40	M20-M40	K20-K40			
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,5-3,5	0,5-3,5	0,5-3,5			
	VC	110-200	50-120	120-200			
WNEU 040304/08 	P200	P10-P20		K10-K20			
	fz	0,10-0,30		0,10-0,30			
	ap	0,5-3,5		0,5-3,5			
	VC	110-220		110-220			
WNEU 040304/08 	P300	P25-P40	M30-M40				
	fz	0,10-0,30	0,10-0,30				
	ap	0,5-3,5	0,5-3,5				
	VC	110-200	60-130				
WNEU 080608 	K300	P25-P40	M20-M40	K20-K40			
	fz	0,10-0,30	0,10-0,30	0,10-0,30			
	ap	0,5-6	0,5-6	0,5-6			
	VC	110-200	50-120	120-200			
WNEU 080608 	P200	P10-P20		K10-K20			
	fz	0,10-0,30		0,10-0,30			
	ap	0,5-6		0,5-6			
	VC	110-220		110-220			
WNEU 080608 	P300	P30-P40	M30-M40				
	fz	0,10-0,30	0,10-0,30				
	ap	0,5-6	0,5-6				
	VC	100-170	60-130				
WNEX 080608 ALU 	K15				K10-K20		
	fz				0,10-0,30		
	ap				0,5-6		
	VC				300-500		

Turning		P	M	K	N	S	H
CCGT 030102 L/R - F 	K400	P20-P35	M10-M25	K10-K20			
	f	0,03-0,15	0,03-0,15	0,03-0,15			
	VC	100-190	70-90	120-200			
CCGT 0602 02/04 CCGT 09T3 02/04/08 CCGT 1204 02/04/08 	K15				K10-K20		
	f				0,05-0,20		
	VC				160-250		
CCMT 0602 02/04 	K400	P10-P30	M10-M25	K10-K20			
	f	0,07-0,17	0,06-0,14	0,06-0,15			
	VC	120-250	80-220	120-230			
CCMT 09T3 04/08 	K400	P10-P30	M10-M25	K10-K20			
	f	0,09-0,20	0,08-0,26	0,08-0,20			
	VC	120-250	80-220	120-230			
CCMT 1204 04/08 	K400	P10-P30	M10-M25	K10-K20			
	f	0,18-0,45	0,18-0,35	0,15-0,50			
	VC	120-250	80-220	120-230			
CPGT 05T1 02-04 CDGT 0401 01/02/04 FN-ALU 	K15				K10-K15		
	f				0,03-0,12		
	VC				160-250		
CDGT 0401 02/04 FN 	K400	P20-P35	M15-M30	K15-K25			
	f	0,03-0,15	0,03-0,15	0,03-0,15			
	VC	110-190	70-90	120-200			
DCGT 04T002 FN-ALU 	K15				K10-K15		
	f				0,02-0,15		
	VC				160-250		
DCGT 04T002 EN-PM1 	K400	P20-P35	M15-M30	K15-K25			
	f	0,05-0,20	0,05-0,20	0,05-0,20			
	VC	100-190	70-90	120-200			
DCGT 0702 02/04 	K15				K10-K20		
	f				0,08-0,20		
	VC				160-250		
DCGT 11T302 DCGT 11T3 04/08 	K15				K10-K20		
	f				0,10-0,25		
	VC				160-250		
DCMT 0702 02/04 	K400	P10-P30	M10-M25	K10-K20			
	f	0,07-0,17	0,06-0,14	0,06-0,15			
	VC	120-250	80-220	120-230			
DCMT 11T3 02/04/08 	K400	P10-P30	M10-M25	K10-K20			
	f	0,18-0,45	0,18-0,35	0,15-0,55			
	VC	120-250	80-220	120-230			
SCGT 09T3 04/08 SCGT 120408 	K15				K10-K20		
	f				0,10-0,25		
	VC				160-250		

Turning		P	M	K	N	S	H
SCMT 060204 	K400	P15-P30	M20-M35	K15-K30			
	f	0,05-2	0,05-2	0,05-2			
	VC	100-240	130-220	120-200			
SCMT 09T308 	K400	P10-P30	M10-M25	K10-K20			
	f	0,18-0,45	0,20-0,40	0,15-0,50			
	VC	120-250	80-220	120-230			
SCMT 120408 	RK400	P10-P30	M10-M25	K10-K20			
	f	0,13-0,30	0,20-0,40	0,15-0,50			
	VC	120-250	110-170	120-230			
TCGT 1102 02/04 TCGT 16T3 04/08 	K15				K10-K20		
	f				0,10-0,25		
	VC				160-250		
TCMT 1102 02/04 	K400	P10-P30	M10-M25	K10-K20			
	f	0,08-0,17	0,06-0,16	0,06-0,15			
	VC	120-250	80-220	120-230			
TCMT 16T3 04/08 	K400	P10-P30	M10-M25	K10-K20			
	f	0,10-0,20	0,08-0,16	0,08-0,18			
	VC	120-250	80-220	120-210			
VBMT 110304 	K400	P10-P30	M10-M25	K10-K20			
	f	0,07-0,17	0,06-0,14	0,06-0,15			
	VC	120-250	80-220	120-230			
VBMT 1604 04/08 	K400	P10-P30	M10-M25	K10-K20			
	f	0,16-0,30	0,16-0,30	0,14-0,40			
	VC	120-250	80-220	120-230			
VCGT 0501 VCGT 0702 01/02/04 FN-ALU 	K15				K10-K15		
	f				0,02-0,15		
	VC				160-250		
VCGT 0501 VCMT 0702 02/04 	K400	P20-P35	M15-M30	K15-K25			
	f	0,05-0,20	0,05-0,20	0,05-0,20			
	VC	100-190	70-90	120-200			
VCGT 1103 02/04/08 VCGT 1604 04/08 	K15				K10-K20		
	f				0,10-0,25		
	VC				160-250		
VCMT 110304 	K400	P20-P35	M15-M30	K15-K25			
	f	0,05-0,20	0,05-0,20	0,05-0,20			
	VC	100-190	70-90	120-200			
VCMT 1604 04/08 	K400	P10-P30	M10-M25	K10-K20			
	f	0,09-0,25	0,08-0,20	0,08-0,25			
	VC	120-200	80-100	120-200			
WCGT 0201 01/02/04 FN-ALU 	K15				K10-K30		
	f				0,03-0,15		
	VC				160-250		
WCMT 0201 02/04 	X55	P10-P30	M20-M40	K10-K20			
	f	0,05-0,20	0,05-0,20	0,05-0,20			
	VC	100-190	70-90	120-200			

Drilling		P	M	K	N	S	H
SEEX 12T408 TiN 	TiN	P25-P40	M20-M40	K20-K40			
	f	0,02-0,06	0,02-0,06	0,02-0,06			
	VC	80-150	80-150	80-150			
XPMT042004 ALU XPMT 052804 ALU XPMT 063306 ALU XPMT 074006 ALU XPMT 094508 ALU XPMT 125812 ALU XPMT 156812 ALU 	k15				K10-K20		
	fz				0,01-0,15		
	ap						
	VC				120-340		
XPMT042004 XPMT 052804 XPMT 063306 XPMT 074006 XPMT 094508 XPMT 125812 XPMT 156812 	K300	P10-P25		K10-K30			
	fz	0,06-0,15		0,06-0,2			
	ap						
	VC	170-220		200-250			
XPMT042004 XPMT 052804 XPMT 063306 XPMT 074006 XPMT 094508 XPMT 125812 XPMT 156812 	P300	P10-P30	M20-M35	K10-K30			
	fz	0,06-0,15	0,06-0,15	0,06-0,2			
	ap						
	VC	150-200	140-190	180-230			
WCHX 040102FN-BAL LW610 WCHX 040104FN-BAL LW610 WCHX 05T102FN-BAL LW610 WCHX 05T104FN-BAL LW610 WCHX 060202FN-BAL LW610 WCHX 060204FN-BAL LW610 WCHX 070304FN-BAL LW610 WCHX 070308FN-BAL LW610 WCHX 090304FN-BAL LW610 WCHX 090308FN-BAL LW610 WCHX 10T304FN-BAL LW610 WCHX 10T308FN-BAL LW610 WCHX 130508FN-BAL LW610 	K15				K10-K20		
	fz				0,01-0,13		
	ap						
	VC				120-230		

Drilling		P	M	K	N	S	H
	WCHX 040102EN-BFM LCP25T	P25-P40	M20-M40	K20-K40			
	WCHX 040104EN-BFM LCP25T						
	WCHX 05T102EN-BFM LCP25T						
	WCHX 05T104EN-BFM LCP25T						
	WCHX 060202EN-BFM LCP25T						
	WCHX 060204EN-BFM LCP25T						
	WCHX 070304EN-BFM LCP25T K400						
	WCHX 070308EN-BFM LCP25T						
	WCHX 090304EN-BFM LCP25T						
	WCHX 090308EN-BFM LCP25T						
	WCHX 10T304EN-BFM LCP25T						
	WCHX 10T308EN-BFM LCP25T						
	WCHX 130508EN-BFM LCP25T						
	fz	0,01-0,13	0,01-0,13	0,01-0,13			
	ap						
	VC	110-200	90-160	120-180			
	WCHX 040102EN-BFM	P30-P40	M30-M40				
	WCHX 040104EN-BFM LCM45T						
	WCHX 05T102EN-BFM LCM45T						
	WCHX 05T104EN-BFM LCM45T						
	WCHX 060202EN-BFM LCM45T						
	WCHX 060204EN-BFM LCM45T						
	WCHX 070304EN-BFM LCM45T P300						
	WCHX 070308EN-BFM LCM45T						
	WCHX 090304EN-BFM LCM45T						
	WCHX 090308EN-BFM LCM45T						
	WCHX 10T304EN-BFM LCM45T						
	WCHX 10T308EN-BFM LCM45T						
	WCHX 130508EN-BFM LCM45T						
	fz	0,01-0,13	0,01-0,13				
	ap						
	VC	70-150	50-150				

Grooving		P	M	K	N	S	H
	GELCGS...	P25-P40	M20-M40	K20-K40	K10-K15		
	K300 VC	120-220		180-200			
	P300 VC		130-150				
	K15X VC				200-300		
	fz	0,04-0,18	0,04-0,16	0,04-0,18	0,04-0,26		
	GECIS...	P25-P40		K20-K40			
	K300 VC	120-220		180-200			
	fz	0,04-0,18		0,04-0,18			

Note

Note