



SPIANATURA

FRESE A FISSAGGIO MECCANICO – NAVIGATORE

SPIANATURA

	SON06C	SHN06C	SHN09C	SPN13		
	43°	45°	45°	57°		
	APMX (mm) 4.0 (7.0)	APMX (mm) 3.0	APMX (mm) 5.0	APMX (mm) 10.0		
	DC (mm) 50 – 250	DC (mm) 25 – 125	DC (mm) 50 – 315	DC (mm) 100 – 315		
Codolo cilindrico						
Weldon		 DC = 25, 32 (mm)				
Modulare						
Fresa a manicotto		 DC = 40 – 125 (mm)				
Pagina	8	13	17	21		
ISO	P M K S H	P M K	H P M K	H P M K S H		
Forma dell'inserto						
Inserti	ONMX 0605 SNMX 1705	HNGX 0604 XNGX 0604	HNGX 0906 XNGX 0906	PNM. 1308 XN.. 1308		
N. di taglienti	16 / 8	12 / 1	12 / 1	10 / 1		
Spianatura 	■	■	■	■		
Smussatura 	■	■	■			
Fresatura a tuffo progressiva 		■	■			
Rampa 	▣	■	■			

SON06C



PRAMET

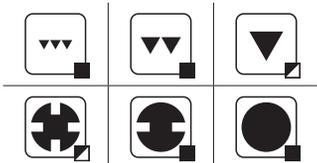
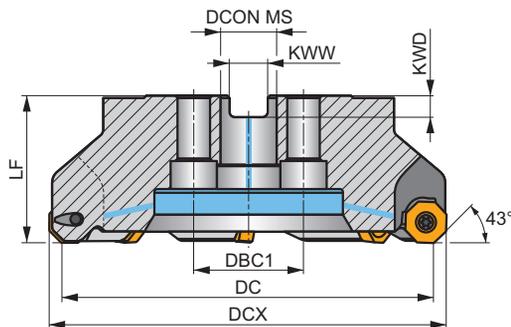
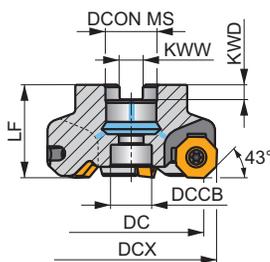
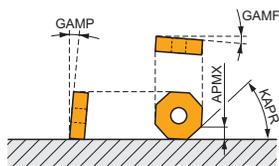
S



ECON ON06 Fresa per spianatura a 43° con geometria doppio negativa e passaggio refrigerante interno

Fresa per operazioni di spianatura altamente produttiva prevede l'utilizzo di due tipologie di inserti negativi bilaterali. Inserti ottagonali economici ON..06 con 16 taglienti e APMX di 4 mm, e inserti quadrati ad alta produttività SN..17 inserti con 8 taglienti e APMX di 7 mm. Disponibilità di corpi fresa con passo differenziato dei denti. Corpo trattato per una maggiore vita utensile.

KAPR	43°
APMX	4.0 (7.0) mm



0.04 - 0.25



Codice prodotto	DC (mm)	DCX (mm)	DCON MS (mm)	DCCB (mm)	DBC1 (mm)	LF (mm)	KWW (mm)	KWD (mm)	GAME (°)	GAMP (°)									
50A04R-S450N06-C	50	60.8	22	16.5	-	40	10.4	6.3	-10	-5	4	✓	9400	✓	0.42	GI342	C0621	-	-
50A05R-S450N06-C	50	60.8	22	16.5	-	40	10.4	6.3	-10	-5	5	-	9400	✓	0.39	GI342	C0621	-	-
63A05R-S450N06-C	63	73.8	22	18.1	-	40	10.4	6.3	-10	-5	5	✓	8400	✓	0.71	GI342	C0621	-	-
63A06R-S450N06-C	63	73.8	22	18.1	-	40	10.4	6.3	-10	-5	6	✓	8400	✓	0.55	GI342	C0621	-	-
80A06R-S450N06-C	80	90.8	27	22.1	-	50	12.4	7	-10	-5	6	✓	7500	✓	1.27	GI342	C0622	-	-
80A08R-S450N06-C	80	90.8	27	22.1	-	50	12.4	7	-10	-5	8	-	7500	✓	1.19	GI342	C0622	-	-
100A08R-S450N06-C	100	110.8	32	30.1	-	50	14.4	8	-10	-5	8	✓	6700	✓	1.88	GI342	C0620	AC002	-
100A10R-S450N06-C	100	110.8	32	30.1	-	50	14.4	8	-10	-5	10	-	6700	✓	1.81	GI342	C0620	AC002	-
125A08R-S450N06-C	125	135.8	40	56.1	-	63	16.4	9	-10	-5	8	✓	6000	✓	3.80	GI342	C0620	AC003	-
125A10R-S450N06-C	125	135.8	40	56.1	-	63	16.4	9	-10	-5	10	✓	6000	✓	3.65	GI342	C0620	AC003	-
125A12R-S450N06-C	125	135.8	40	56.1	-	63	16.4	9	-11	-5	12	-	6000	✓	3.70	GI342	C0620	AC003	-
160C08R-S450N06-C	160	170.8	40	-	66.7	63	16.4	9.25	-10	-5	8	✓	5700	✓	6.48	GI342	C0623	-	-
160C12R-S450N06-C	160	170.8	40	-	66.7	63	16.4	9.25	-10	-5	12	✓	5700	✓	5.74	GI342	C0623	-	-
160C14R-S450N06-C	160	170.8	40	-	66.7	63	16.4	9.25	-11	-5	14	-	5700	✓	5.65	GI342	C0623	-	-
200C12R-S450N06-C	200	210.8	60	-	101.6	63	25.8	14.25	-10	-5	12	✓	4700	✓	9.06	GI342	C0624	-	-
200C16R-S450N06-C	200	210.8	60	-	101.6	63	25.8	14.25	-10	-5	16	-	4700	✓	9.02	GI342	C0624	-	-
250C14R-S450N06-C	250	260.8	60	-	101.6	63	25.8	14.25	-10	-5	14	✓	4300	✓	15.71	GI342	C0625	-	-
250C18R-S450N06-C	250	260.8	60	-	101.6	63	25.8	14.25	-10	-5	18	-	4300	✓	15.51	GI342	C0625	-	-

GI342	ONMX 0605..	SNMX 1705..

C0620	US 45013A-T20P	5.0	M 5	13	SDR T20P-T	-	-	-

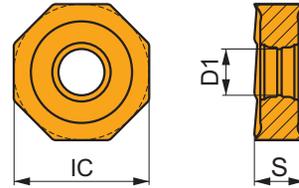
CO621	US 45013A-T20P	5.0	M 5	13	SDR T20P-T	HS 1030C	-	-	-
CO622	US 45013A-T20P	5.0	M 5	13	SDR T20P-T	HS 1230C	-	-	-
CO623	US 45013A-T20P	5.0	M 5	13	SDR T20P-T	HS 1240C	CAC 160C	HSD 0825C	HXK 5
CO624	US 45013A-T20P	5.0	M 5	13	SDR T20P-T	HS 1655C	CAC 200C	HSD 1025C	HXK 7
CO625	US 45013A-T20P	5.0	M 5	13	SDR T20P-T	HS 1655C	CAC 250C	HSD 1025C	HXK 7

AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

ONMX 06

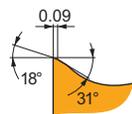
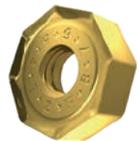


	IC	D1	S
	(mm)	(mm)	(mm)
0605	17.000	5.70	7.08



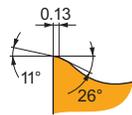
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)



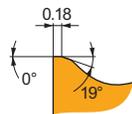
F la geometria positiva è utilizzata per la finitura, adatta per sbalzi elevati o per applicazioni caratterizzate da pareti e pezzi da lavorare sottili. Progettata con un angolo di taglio altamente positivo, T-land stretto e arrotondamento del tagliente per lavorazioni leggere.

ONMX 060508SR-F:8215	0.8	275	0.10	2.0	165	0.09	2.0	-	-	-	-	-	65	0.07	1.6	-	-	-
ONMX 060508SR-F:M6330	0.8	230	0.10	2.0	165	0.09	2.0	-	-	-	-	-	65	0.07	1.6	-	-	-
ONMX 060508SR-F:M8330	0.8	270	0.10	2.0	160	0.09	2.0	-	-	-	-	-	65	0.07	1.6	-	-	-
ONMX 060508SR-F:M8340	0.8	245	0.10	2.0	145	0.09	2.0	-	-	-	-	-	60	0.07	1.6	-	-	-
ONMX 060508SR-F:M9340	0.8	320	0.10	2.0	190	0.09	2.0	-	-	-	-	-	80	0.07	1.6	-	-	-



M la geometria versatile rappresenta la prima scelta per una vasta gamma di condizioni di lavoro. Progettata con un angolo di taglio positivo, T-land medio e arrotondamento del tagliente per lavorazioni medie.

ONMX 060508SR-M:8215	0.8	230	0.20	2.0	135	0.18	2.0	-	-	-	-	-	55	0.14	1.6	45	0.14	1.0
ONMX 060508SR-M:M6330	0.8	195	0.20	2.0	140	0.18	2.0	-	-	-	-	-	55	0.14	1.6	-	-	-
ONMX 060508SR-M:M8330	0.8	230	0.20	2.0	135	0.18	2.0	-	-	-	-	-	55	0.14	1.6	45	0.14	1.0
ONMX 060508SR-M:M8340	0.8	210	0.20	2.0	125	0.18	2.0	-	-	-	-	-	50	0.14	1.6	-	-	-
ONMX 060508SR-M:M9325	0.8	285	0.20	2.0	-	-	-	-	-	-	-	-	-	-	-	55	0.14	1.0
ONMX 060508SR-M:M9340	0.8	255	0.20	2.0	150	0.18	2.0	-	-	-	-	-	60	0.14	1.6	-	-	-

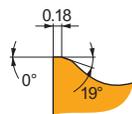
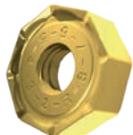


R la geometria robusta è utilizzata per la sgrossatura e condizioni di lavoro pesanti. Progettata con un angolo di taglio leggermente positivo, T-land ampio e arrotondamento del tagliente per lavorazioni di sgrossatura.

ONMX 060508SR-R:8215	0.8	210	0.30	2.0	-	-	-	195	0.30	2.0	-	-	-	-	-	-	40	0.21	1.0
ONMX 060508SR-R:M5315	0.8	255	0.30	2.0	-	-	-	240	0.30	2.0	-	-	-	-	-	-	50	0.21	1.0
ONMX 060508SR-R:M8330	0.8	210	0.30	2.0	-	-	-	195	0.30	2.0	-	-	-	-	-	-	40	0.21	1.0

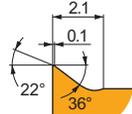
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



R la geometria robusta è utilizzata per la sgrossatura e condizioni di lavoro pesanti. Progettata con un angolo di taglio leggermente positivo, T-land ampio e arrotondamento del tagliente per lavorazioni di sgrossatura.

ONMX 060508SR-R:M8340	0.8	190	0.30	2.0	–	–	–	180	0.30	2.0	–	–	–	–	–	–	–	–	–
ONMX 060508SR-R:M9325	0.8	250	0.30	2.0	–	–	–	235	0.30	2.0	–	–	–	–	–	–	50	0.21	1.0



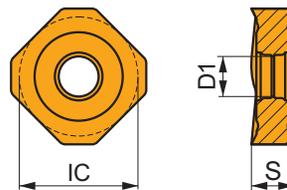
W design raschiante volto a garantire una migliore finitura superficiale durante la lavorazione con frese di grandi dimensioni e avanzamenti elevati.

ONMX 060508SR-W:8215	0.8	340	0.10	0.3	200	0.09	0.3	–	–	–	–	–	–	–	–	–	–	–	–
ONMX 060508SR-W:M8330	0.8	325	0.10	0.3	195	0.09	0.3	–	–	–	–	–	–	–	–	–	–	–	–

SNMX 17

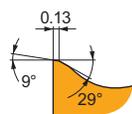
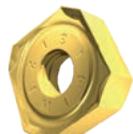


	IC (mm)	D1 (mm)	S (mm)
1705	17.000	5.70	5.56



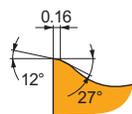
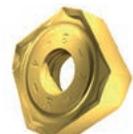
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



M la geometria versatile rappresenta la prima scelta per una vasta gamma di condizioni di lavoro. Progettata con un angolo di taglio positivo, T-land medio e arrotondamento del tagliente per lavorazioni medie.

SNMX 170508SR-M:8215	0.8	265	0.20	4.0	155	0.18	4.0	–	–	–	–	–	–	65	0.14	3.2	50	0.14	1.0
SNMX 170508SR-M:M6330	0.8	225	0.20	4.0	160	0.18	4.0	–	–	–	–	–	–	65	0.14	3.2	–	–	–
SNMX 170508SR-M:M8330	0.8	265	0.20	4.0	155	0.18	4.0	–	–	–	–	–	–	65	0.14	3.2	50	0.14	1.0
SNMX 170508SR-M:M8340	0.8	240	0.20	4.0	140	0.18	4.0	–	–	–	–	–	–	60	0.14	3.2	–	–	–
SNMX 170508SR-M:M9325	0.8	325	0.20	4.0	–	–	–	–	–	–	–	–	–	–	–	–	65	0.14	1.0
SNMX 170508SR-M:M9340	0.8	295	0.20	4.0	175	0.18	4.0	–	–	–	–	–	–	70	0.14	3.2	–	–	–



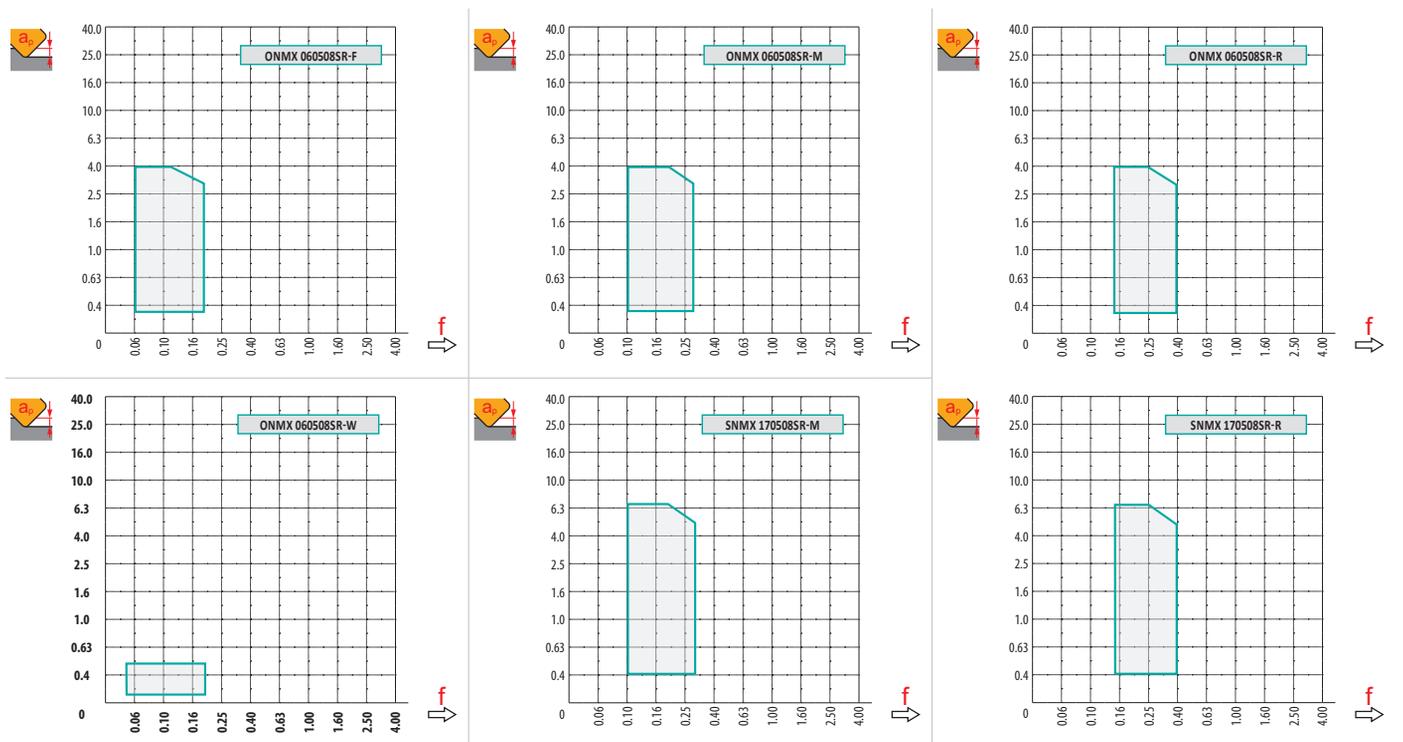
R la geometria robusta è utilizzata per la sgrossatura e condizioni di lavoro pesanti. Progettata con un angolo di taglio leggermente positivo, T-land ampio e arrotondamento del tagliente per lavorazioni di sgrossatura.

SNMX 170508SR-R:8215	0.8	240	0.30	4.0	–	–	–	225	0.30	4.0	–	–	–	–	–	–	45	0.21	1.0
SNMX 170508SR-R:M5315	0.8	300	0.30	4.0	–	–	–	285	0.30	4.0	–	–	–	–	–	–	60	0.21	1.0
SNMX 170508SR-R:M8330	0.8	240	0.30	4.0	–	–	–	225	0.30	4.0	–	–	–	–	–	–	45	0.21	1.0
SNMX 170508SR-R:M8340	0.8	220	0.30	4.0	–	–	–	205	0.30	4.0	–	–	–	–	–	–	–	–	–
SNMX 170508SR-R:M9325	0.8	290	0.30	4.0	–	–	–	275	0.30	4.0	–	–	–	–	–	–	55	0.21	1.0



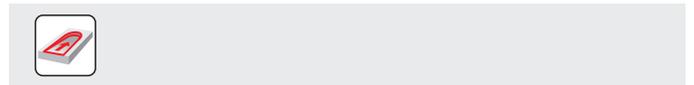
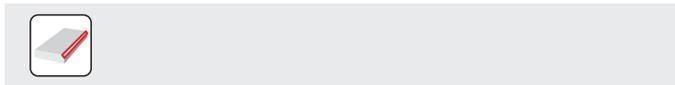
a_e / DC	5%	10%	15%	20%	25%	30%	40%	50%	60%	70%	75%	80%	90%	100%
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	ONMX 06-F	ONMX 06-M	ONMX 06-R	ONMX 06-W	SNMX 17-M	SNMX 17-R
	0.80	0.80	0.80	0.80	0.80	0.80
	0.75	0.75	0.75	4.30	0.70	0.70



		0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00
50		51.06	52.11	53.19	54.27	55.35	56.43	57.51	58.59
63		64.06	65.11	66.19	67.27	68.35	69.43	70.51	71.59
80		81.06	82.11	83.19	84.27	85.35	86.43	87.51	88.59
100		101.06	102.11	103.19	104.27	105.35	106.43	107.51	108.59
125		126.06	127.11	128.19	129.27	130.35	131.43	132.51	133.59
160		161.06	162.11	163.19	164.27	165.35	166.43	167.51	168.59
200		201.06	202.11	203.19	204.27	205.35	206.43	207.51	208.59
250		251.06	252.11	253.19	254.27	255.35	256.43	257.51	258.59

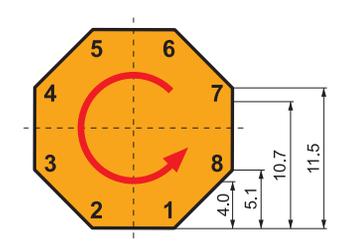
DC		S							
		0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00
50	DEF	47.24	49.40	51.56	53.73	55.90	58.06	60.23	62.40
63		60.24	62.40	64.56	66.73	68.90	71.06	73.23	75.40
80		77.24	79.40	81.56	83.73	85.90	88.06	90.23	92.40
100		97.24	99.40	101.56	103.73	105.90	108.06	110.23	112.40
125		122.24	124.40	126.56	128.73	130.90	133.06	135.23	137.40
160		157.24	159.40	161.56	163.73	165.90	168.06	170.23	172.40
200		197.24	199.40	201.56	203.73	205.90	208.06	210.23	212.40
250		247.24	249.40	251.56	253.73	255.90	258.06	260.23	262.40



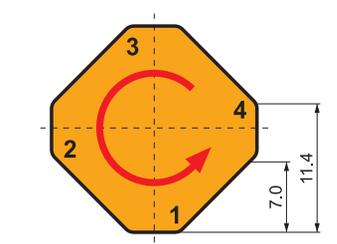
DC	X.V	f _{max}
50	1.35	0.36
63	1.39	0.40
80	1.44	0.45
100	1.48	0.51
125	1.53	0.57
160	1.58	0.64
200	1.63	0.72
250	1.68	0.80

DC	O	
	RPMX	APMX/I
50	0.3	0.4/100
63	0.2	0.25/100
80	0.2	0.2/100
100	0.1	0.1/100
125	0.1	0.05/100

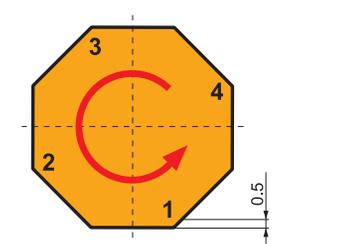
DC	S	
	RPMX	APMX/I
47.24	0.1	0.1/100
60.24	0.1	0.05/100
77.24	0.1	0.05/100



-> 4.0	16
-> 5.1	14
-> 10.7	8
-> 11.5	6

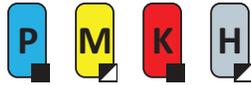


-> 7.0	8
-> 11.4	4



ONMX 06-W	
-> 0.5	8

SHN06C



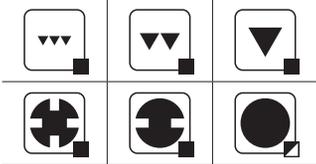
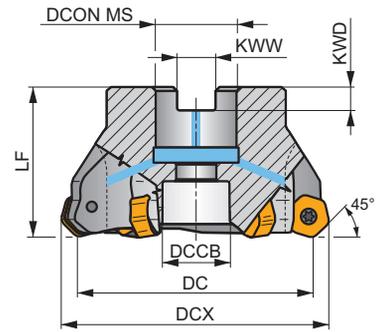
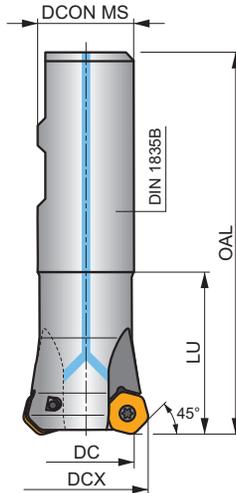
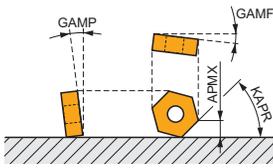
PRAMET



ECON HN06 fresa per spianatura a 45° con geometria doppio negativa e refrigerante interno

Fresa a spianare a 45° ad elevata produttività che utilizza inserti bilaterali tipo HN .. 06 con APMX di 3 mm. Sgrossatura, finitura e smussatura. Inserto economico con 12 taglianti. Passo differenziato dei taglianti. Attacco weldon ed a manicotto. Corpo trattato per una maggiore durata dell'utensile.

KAPR	45°
APMX	3.0 mm



	0.06 - 0.15				
	0.06 - 0.15				

Codice prodotto	DC	DCX	OAL	DCON MS	DCCB	LU	LF	KWW	KWD	GAMF	GAMP										
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)										
25N2R042B25-SHN06C-C	25	32.2	99	25	-	42	-	-	-	-7	-7	2	-	17400	✓	0.35	GI204	FA010	-		
32N3R042B32-SHN06C-C	32	39.3	103	32	-	42	-	-	-	-7	-7	3	-	15400	✓	0.59	GI204	FA010	-		
40A05R-S45HN06C-C	40	47.3	-	16	14	-	40	8.4	5.6	-7	-7	5	✓	13800	✓	0.37	GI204	FA012	-		
50A04R-S45HN06C-C	50	57.3	-	22	18	-	40	10.4	6.3	-7	-7	4	✓	12300	✓	0.54	GI204	FA013	-		
50A06R-S45HN06C-C	50	57.3	-	22	18	-	40	10.4	6.3	-7	-7	6	✓	12300	✓	0.41	GI204	FA013	-		
63A06R-S45HN06C-C	63	70.3	-	22	18	-	40	10.4	6.3	-7	-7	6	✓	11000	✓	0.68	GI204	FA013	-		
63A08R-S45HN06C-C	63	70.3	-	22	18	-	40	10.4	6.3	-7	-7	8	✓	11000	✓	0.68	GI204	FA013	-		
80A07R-S45HN06C-C	80	86.8	-	27	38	-	50	12.4	7	-7	-7	7	✓	9700	✓	1.10	GI204	FA011	AC001		
80A10R-S45HN06C-C	80	86.8	-	27	38	-	50	12.4	7	-7	-7	10	✓	9700	✓	1.10	GI204	FA011	AC001		
100A08R-S45HN06C-C	100	107.1	-	32	45	-	50	14.4	8	-7	-7	8	✓	8700	✓	2.00	GI204	FA011	AC002		
100A12R-S45HN06C-C	100	107.1	-	32	45	-	50	14.4	8	-7	-7	12	✓	8700	✓	1.82	GI204	FA011	AC002		
125A10R-S45HN06C-C	125	132.2	-	40	56	-	63	16.4	9	-7	-7	10	✓	7800	✓	3.53	GI204	FA011	AC003		

GI204	HNGX 0604AN..	XNGX 0604AN..

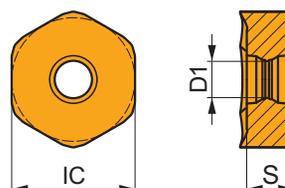
FA010	US 3007-T09P	2.0	M 3	7.3	-	-	Flag T09P	-
FA011	US 3007-T09P	2.0	M 3	7.3	D-T07P/T09P	FG-15	-	-
FA012	US 3007-T09P	2.0	M 3	7.3	D-T07P/T09P	FG-15	-	HS 0830C
FA013	US 3007-T09P	2.0	M 3	7.3	D-T07P/T09P	FG-15	-	HS 1030C

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

HNGX 06

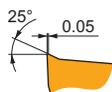


	IC	D1	S
	(mm)	(mm)	(mm)
0604	10.500	3.70	4.76



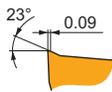
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
		(m/min)	(mm/tooth)	(mm)															



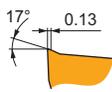
F geometria con design altamente positivo per lavorazioni leggere.

HNGX 0604ANSN-F:8215	☹	–	■	315	0.11	1.7	▣	185	0.10	1.7	■	–	–	–	–	–	–	–	–	–
HNGX 0604ANSN-F:M6330	☹	–	■	265	0.11	1.7	▣	185	0.10	1.7	■	–	–	–	–	–	–	–	–	–
HNGX 0604ANSN-F:M8330	☹	–	■	305	0.11	1.7	▣	180	0.10	1.7	■	–	–	–	–	–	–	–	–	–
HNGX 0604ANSN-F:M8340	☹	–	■	285	0.11	1.7	▣	170	0.10	1.7	■	–	–	–	–	–	–	–	–	–
HNGX 0604ANSN-F:M9340	☹	–	■	365	0.11	1.7	▣	215	0.10	1.7	■	–	–	–	–	–	–	–	–	–



M geometria con design altamente positivo per lavorazioni medie.

HNGX 0604ANSN-M:8215	☹	–	■	300	0.13	2.0	▣	180	0.13	2.0	■	285	0.13	2.0	–	–	–	–	–	–
HNGX 0604ANSN-M:M5315	☹	–	▣	425	0.13	2.0	–	–	–	–	■	400	0.13	2.0	–	–	–	–	–	–
HNGX 0604ANSN-M:M6330	☹	–	■	255	0.13	2.0	▣	180	0.13	2.0	■	–	–	–	–	–	–	–	–	–
HNGX 0604ANSN-M:M8310	☹	–	■	325	0.13	2.0	▣	165	0.13	2.0	■	305	0.13	2.0	–	–	–	–	–	–
HNGX 0604ANSN-M:M8330	☹	–	■	295	0.13	2.0	▣	175	0.13	2.0	■	280	0.13	2.0	–	–	–	–	–	–
HNGX 0604ANSN-M:M8340	☹	–	■	265	0.13	2.0	▣	155	0.13	2.0	▣	250	0.13	2.0	–	–	–	–	–	–
HNGX 0604ANSN-M:M9315	☹	–	■	410	0.13	2.0	–	–	–	–	■	385	0.13	2.0	–	–	–	–	–	–
HNGX 0604ANSN-M:M9325	☹	–	■	375	0.13	2.0	–	–	–	–	■	355	0.13	2.0	–	–	–	–	–	–
HNGX 0604ANSN-M:M9340	☹	–	■	345	0.13	2.0	▣	205	0.13	2.0	■	–	–	–	–	–	–	–	–	–



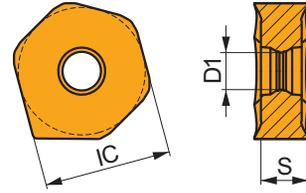
R geometria con design altamente positivo per lavorazioni da medie a pesanti.

HNGX 0604ANSN-R:8215	☹	–	■	280	0.18	1.8	▣	165	0.18	1.8	■	265	0.18	1.8	–	–	–	–	▣	55	0.12	1.0
HNGX 0604ANSN-R:M5315	☹	–	▣	370	0.18	1.8	–	–	–	–	■	350	0.18	1.8	–	–	–	–	▣	70	0.12	1.0
HNGX 0604ANSN-R:M8310	☹	–	■	300	0.18	1.8	▣	150	0.18	1.8	■	285	0.18	1.8	–	–	–	–	▣	60	0.12	1.0
HNGX 0604ANSN-R:M8330	☹	–	■	275	0.18	1.8	▣	165	0.18	1.8	■	260	0.18	1.8	–	–	–	–	▣	55	0.12	1.0
HNGX 0604ANSN-R:M8340	☹	–	■	250	0.18	1.8	▣	150	0.18	1.8	▣	235	0.18	1.8	–	–	–	–	–	–	–	–
HNGX 0604ANSN-R:M9325	☹	–	■	345	0.18	1.8	–	–	–	–	■	325	0.18	1.8	–	–	–	–	▣	65	0.12	1.0

XNGX 06

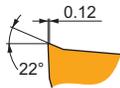


	IC	D1	S
	(mm)	(mm)	(mm)
0604	10.500	3.70	4.76



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
		(m/min)	(mm/tooth)	(mm)															



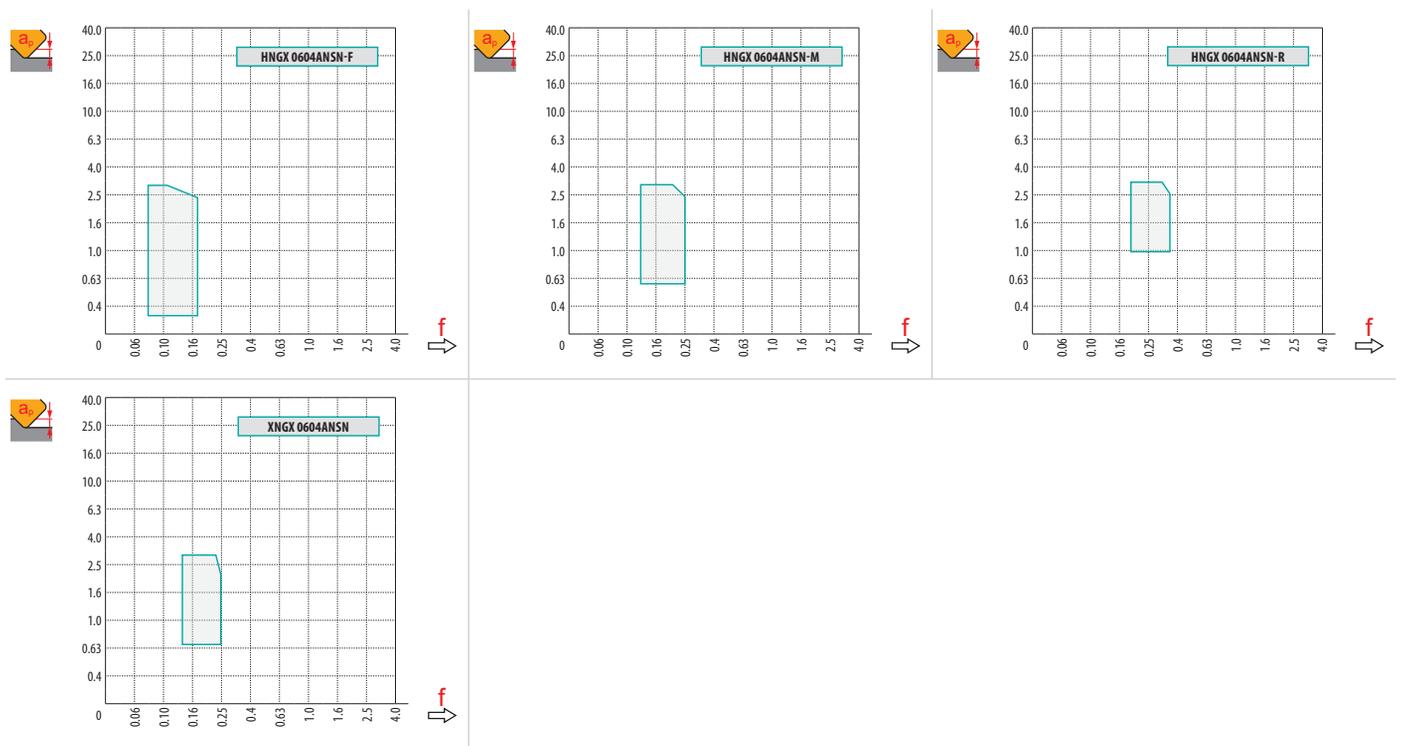
W design Wiper per una migliore finitura superficiale.

XNGX 0604ANSN:8215	RE	290	0.13	1.8	170	0.12	1.8	275	0.13	1.8	-	-	-	-	-	-	-	-	-
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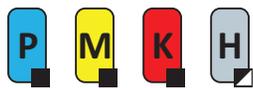
a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	HNGX 06-F	HNGX 06-M	HNGX 06-R	XNGX 06
	-	-	-	-
	1.12	0.80	0.80	4.15



DC	X.V	f_{max}	DC	RPMX	APMX/I	a_p		
25	1.31	0.24	25	2.7°	3.0/65	0.9		
32	1.36	0.28	32	1.9°	3.0/89			
40	1.40	0.31	40	1.5°	2.5/100			
50	1.45	0.35	50	1.1°	1.9/100			
63	1.49	0.39	63	0.9°	1.4/100			
80	1.54	0.44	80	0.6°	1.0/100			
100	1.59	0.49	100	0.5°	0.8/100			
125	1.64	0.55	125	0.4°	0.6/100			

SHN09C



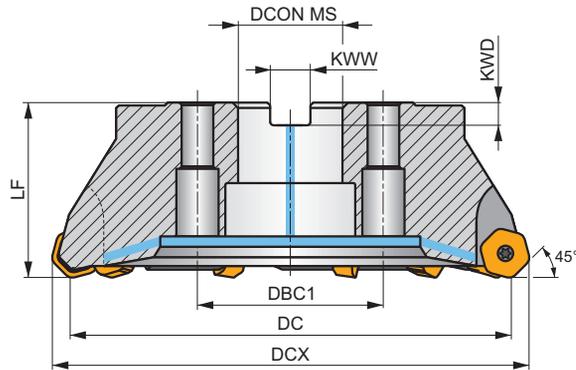
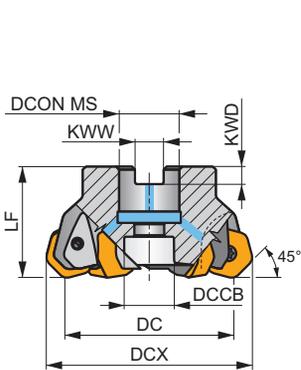
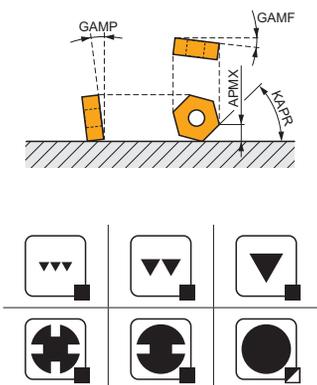
PRAMET



ECON HN09 fresa per spianatura a 45° con geometria doppio negativa e refrigerante interno

Fresa a spianare a 45° ad elevata produttività che utilizza inserti bilaterali tipo HN .. 09 con APMX di 5 mm. Sgrossatura, finitura e smussatura. Inserto economico con 12 taglianti. Passo differenziato dei taglianti. Attacco a manicotto. Corpo trattato per una maggiore durata dell'utensile.

KAPR	45°
APMX	5.0 mm



0.08 - 0.25



Codice prodotto	DC	DCX	LF	DCON MS	DCCB	DBC1	KWW	KWD	GAMF	GAMP								
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)								
50A04R-S45HN09C-CF	50	61.7	40	22	18	-	10.4	6.3	-7	-7	4	✓	7900	✓	0.38	GI252	FA023	-
63A06R-S45HN09C-CF	63	74.7	40	22	18	-	10.4	6.3	-7	-7	6	✓	7000	✓	0.54	GI252	FA023	-
80A06R-S45HN09C-CF	80	91.7	50	27	38	-	12.4	7	-7	-7	6	✓	6200	✓	1.06	GI252	FA021	AC001
80A08R-S45HN09C-CF	80	91.7	50	27	38	-	12.4	7	-7	-7	8	✓	6200	✓	1.06	GI252	FA021	AC001
100A06R-S45HN09C-CF	100	111.7	50	32	45	-	14.4	8	-7	-7	6	✓	5600	✓	1.95	GI252	FA021	AC002
100A08R-S45HN09C-CF	100	111.7	50	32	45	-	14.4	8	-7	-7	8	✓	5600	✓	1.99	GI252	FA021	AC002
100A10R-S45HN09C-CF	100	111.7	50	32	45	-	14.4	8	-8	-7	10	-	5600	✓	1.99	GI252	FA021	AC002
125A06R-S45HN09C-CF	125	136.7	63	40	56	-	16.4	9	-7	-7	6	✓	5000	✓	3.36	GI252	FA021	AC003
125A08R-S45HN09C-CF	125	136.7	63	40	56	-	16.4	9	-7	-7	8	✓	4900	✓	3.66	GI252	FA021	AC003
125A10R-S45HN09C-CF	125	136.7	63	40	56	-	16.4	9	-7	-7	10	✓	5000	✓	3.52	GI252	FA021	AC003
125A12R-S45HN09C-CF	125	136.7	63	40	56	-	16.4	9	-8	-7	12	-	5000	✓	3.36	GI252	FA021	AC003
160C08R-S45HN09C-CF	160	171.7	63	40	-	66.7	16.4	9	-7	-7	8	✓	4400	✓	6.24	GI252	FA026	-
160C12R-S45HN09C-CF	160	171.7	63	40	-	66.7	16.4	9	-7	-7	12	✓	4400	✓	6.45	GI252	FA026	-
160C14R-S45HN09C-CF	160	171.7	63	40	-	66.7	16.4	9	-7	-7	14	✓	4400	✓	6.39	GI252	FA026	-
200C10R-S45HN09C-CF	200	211.7	63	60	-	101.6	25.7	14	-7	-7	10	✓	3900	✓	11.37	GI252	FA027	-
250C14R-S45HN09C-CF	250	261.7	63	60	-	101.6	25.7	14	-7	-7	14	✓	3500	✓	18.50	GI252	FA028	-
315C16R-S45HN09C-CF	315	326.7	80	60	-	101.6	25.7	14	-7	-7	16	✓	3100	✓	37.00	GI252	FA029	-

GI252	HNGX 0906AN..	XNGX 0906AN..

FA021	US 54511-T15P	5.0	M 4.5	11	D-T08P/T15P	FG-15	-	-	-	-	-	-
FA023	US 54511-T15P	5.0	M 4.5	11	D-T08P/T15P	FG-15	HS 1030C	-	-	-	-	-

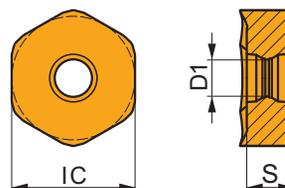
FA026	US 54511-T15P	5.0	M 4.5	11	D-T08P/T15P	FG-15	HS 1240C	CAC 160C	HSD 0825C	HXK 5	-	-
FA027	US 54511-T15P	5.0	M 4.5	11	D-T08P/T15P	FG-15	HS 1655C	CAC 200C	HSD 1025C	HXK 7	-	-
FA028	US 54511-T15P	5.0	M 4.5	11	D-T08P/T15P	FG-15	HS 1655C	CAC 250C	HSD 1025C	HXK 7	-	-
FA029	US 54511-T15P	5.0	M 4.5	11	D-T08P/T15P	FG-15	HS 1655C	CAC 315C	HSD 1035C	HXK 7	CACP 3150C	RRH 34

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

HNGX 09

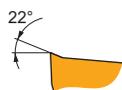


	IC	D1	S
	(mm)	(mm)	(mm)
0906	16.500	4.90	6.35



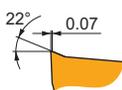
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



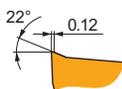
FF geometria con design altamente positivo per lavorazioni leggere.

HNGX 0906ANEN-FF:8215	●	-	■	345	0.10	1.0	▣	205	0.09	1.0	■	-	-	-	-	-	-	-	-
HNGX 0906ANEN-FF:M8330	●	-	■	335	0.10	1.0	■	200	0.09	1.0	■	-	-	-	-	-	-	-	-
HNGX 0906ANEN-FF:M9340	●	-	■	405	0.10	1.0	■	240	0.09	1.0	■	-	-	-	-	-	-	-	-



F geometria con design altamente positivo per lavorazioni da leggere a medie.

HNGX 0906ANSN-F:8215	⊕	-	■	300	0.12	2.1	▣	180	0.11	2.1	■	-	-	-	-	-	-	-	-
HNGX 0906ANSN-F:M6330	⊕	-	■	255	0.12	2.1	■	180	0.11	2.1	■	-	-	-	-	-	-	-	-
HNGX 0906ANSN-F:M8310	⊕	-	■	330	0.12	2.1	▣	165	0.11	2.1	■	-	-	-	-	-	-	-	-
HNGX 0906ANSN-F:M8330	⊕	-	■	300	0.12	2.1	■	180	0.11	2.1	■	-	-	-	-	-	-	-	-
HNGX 0906ANSN-F:M8340	⊕	-	■	270	0.12	2.1	■	160	0.11	2.1	■	-	-	-	-	-	-	-	-

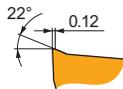


M geometria con design altamente positivo per lavorazioni medie.

HNGX 0906ANSN-M:8215	⊕	-	■	255	0.20	2.7	▣	150	0.18	2.7	■	240	0.20	2.7	-	-	-	-	-
HNGX 0906ANSN-M:M5315	⊕	-	▣	340	0.20	2.7	■	-	-	-	■	320	0.20	2.7	-	-	-	-	-

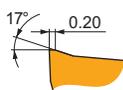
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



M geometria con design altamente positivo per lavorazioni medie.

HNGX 0906ANSN-M:M6330	✱	–	■	220	0.20	2.7	▣	155	0.18	2.7	■	–	–	–	–	–	–	–	–
HNGX 0906ANSN-M:M8310	✱	–	■	280	0.20	2.7	▣	140	0.18	2.7	■	265	0.20	2.7	–	–	–	–	–
HNGX 0906ANSN-M:M8330	✱	–	■	255	0.20	2.7	▣	150	0.18	2.7	■	240	0.20	2.7	–	–	–	–	–
HNGX 0906ANSN-M:M8340	✱	–	■	235	0.20	2.7	▣	140	0.18	2.7	■	220	0.20	2.7	–	–	–	–	–
HNGX 0906ANSN-M:M9315	✱	–	■	340	0.20	2.7	▣	–	–	–	■	320	0.20	2.7	–	–	–	–	–
HNGX 0906ANSN-M:M9325	✱	–	■	315	0.20	2.7	▣	–	–	–	■	295	0.20	2.7	–	–	–	–	–
HNGX 0906ANSN-M:M9340	✱	–	■	290	0.20	2.7	▣	170	0.18	2.7	■	–	–	–	–	–	–	–	–



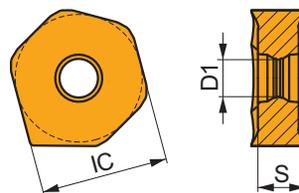
R geometria con design positivo per lavorazioni da medie a pesanti.

HNGX 0906ANSN-R:8215	✱	–	■	240	0.25	3.0	▣	140	0.25	3.0	■	225	0.25	3.0	–	–	–	▣	45	0.13	1.0
HNGX 0906ANSN-R:M5315	✱	–	▣	305	0.25	3.0	▣	–	–	–	■	285	0.25	3.0	–	–	–	▣	60	0.13	1.0
HNGX 0906ANSN-R:M8310	✱	–	■	260	0.25	3.0	▣	130	0.25	3.0	■	245	0.25	3.0	–	–	–	▣	50	0.13	1.0
HNGX 0906ANSN-R:M8330	✱	–	■	240	0.25	3.0	▣	140	0.25	3.0	■	225	0.25	3.0	–	–	–	▣	45	0.13	1.0
HNGX 0906ANSN-R:M8340	✱	–	■	220	0.25	3.0	▣	130	0.25	3.0	■	205	0.25	3.0	–	–	–	–	–	–	–
HNGX 0906ANSN-R:M9315	✱	–	■	310	0.25	3.0	▣	–	–	–	■	290	0.25	3.0	–	–	–	▣	60	0.13	1.0
HNGX 0906ANSN-R:M9325	✱	–	■	295	0.25	3.0	▣	–	–	–	■	280	0.25	3.0	–	–	–	▣	55	0.13	1.0

XNGX 09

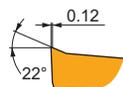
PRAMET

	IC (mm)	D1 (mm)	S (mm)
0906	16.500	4.90	6.35



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



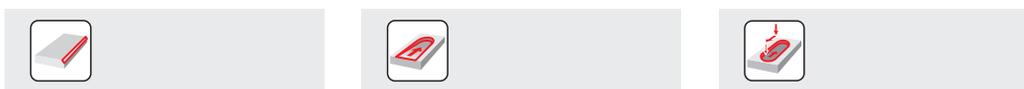
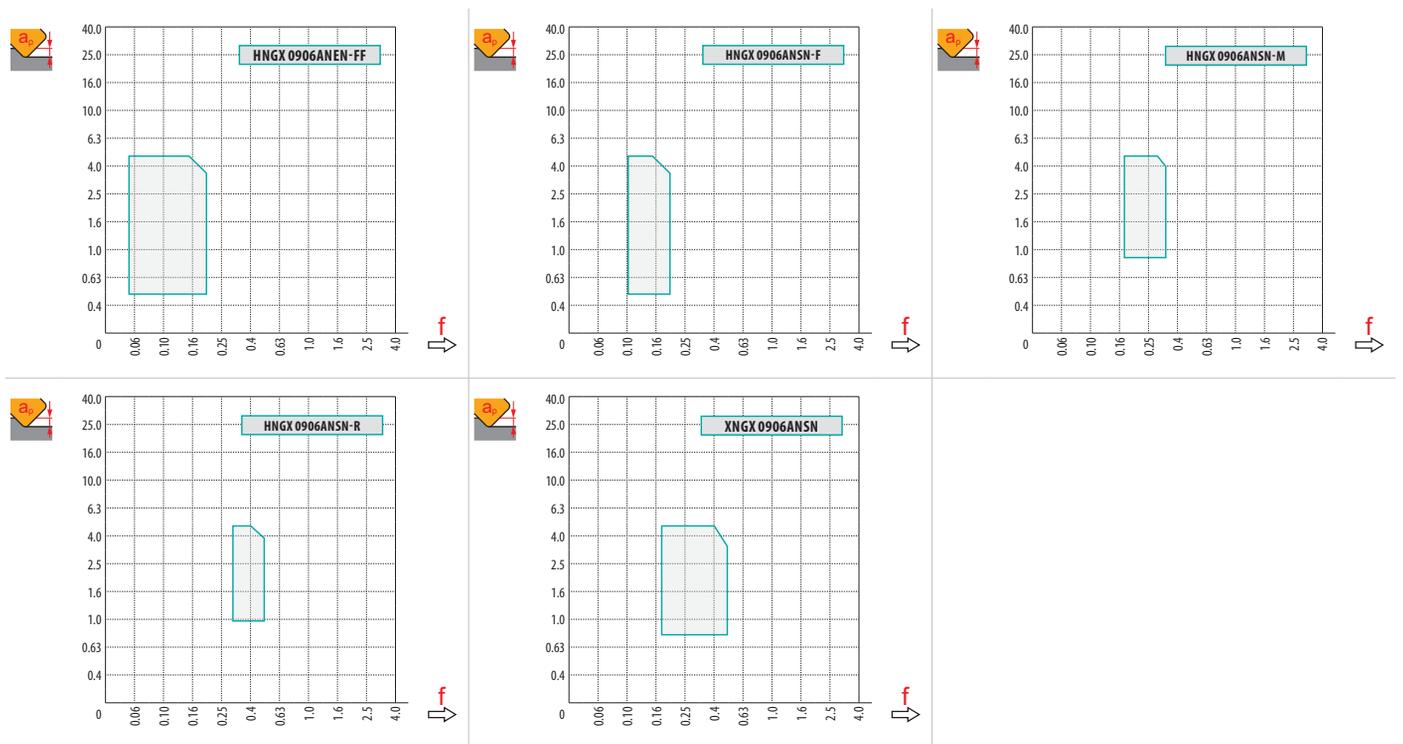
W design Wiper per una migliore finitura superficiale.

XNGX 0906ANSN:8215	✱	–	■	245	0.20	2.7	▣	145	0.18	2.7	■	230	0.20	2.7	–	–	–	–	–	–
XNGX 0906ANSN:M8330	✱	–	■	245	0.20	2.7	▣	145	0.18	2.7	■	230	0.20	2.7	–	–	–	–	–	–



a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	HNGX 09-FF	HNGX 09-F	HNGX 09-M	HNGX 09-R	XNGX 09
	-	-	-	-	-
	1.50	1.17	1.17	1.17	7.53

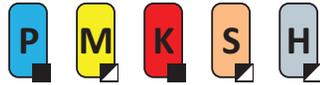


DC	X.V	f_{max}
50	1.35	0.36
63	1.39	0.40
80	1.44	0.45
100	1.48	0.51
125	1.53	0.57
160	1.58	0.64
200	1.63	0.72
250	1.68	0.80
315	1.74	0.90

DC	RPMX	APMX/II
50	2.1°	3.5/100
63	1.5°	2.5/100
80	1.1°	1.8/100
100	0.9°	1.4/100
125	0.7°	1.1/100
160	0.5°	0.7/100

a_e	1.9
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SPN13



PRAMET

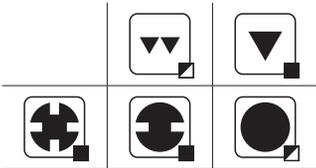
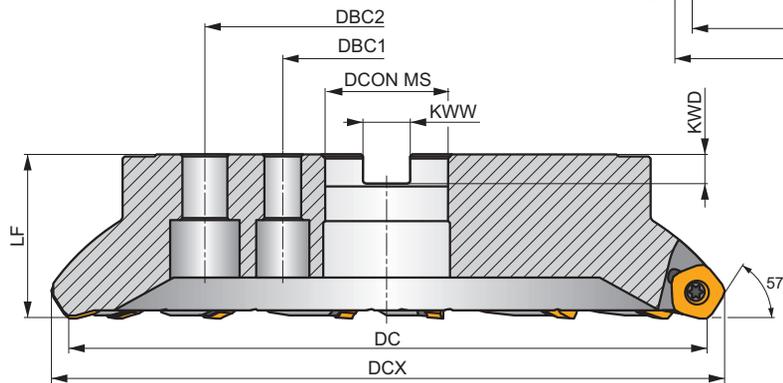
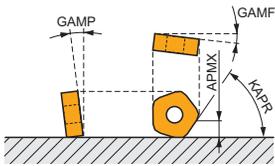
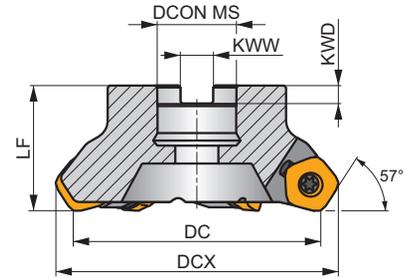


PENTA HD fresa per spianatura a 57° con geometria doppio negativa per fresatura pesante

Fresa a spianare a 57° ad elevata produttività che utilizza inserti negativi bilaterali PN .. 13 e XN .. 13 con APMX di 10 mm. Adatta per spianatura pesante. Attacco a manicotto. Sede dell'inserto protetta da sottopiacchetta. Corpo trattato per una maggiore durata dell'utensile.

PENTA HD

KAPR	57°
APMX	10.0 mm



0.20 - 0.50



Codice prodotto	DC	DCX	LF	DCON MS	DBC1	DBC2	KWW	KWD	GAMP	GAMP						
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)						
100A05R-S57PN13	100	115.8	50	32	-	-	14.4	8	-8.2	-4	5	-	3400	-	1.22	G1261 FA081 AC002
125A06R-S57PN13	125	140.8	63	40	-	-	16.4	9	-7	-4	6	-	3100	-	2.79	G1261 FA081 AC003
160C08R-S57PN13	160	175.8	63	40	66.7	-	16.4	9	-6	-4	8	-	2700	-	3.58	G1261 FA081 -
200C10R-S57PN13	200	215.8	63	60	101.6	-	25.7	14	-5	-4	10	-	2400	-	9.17	G1261 FA081 -
250C12R-S57PN13	250	265.8	63	60	101.6	-	25.7	14	-5	-4	12	-	2200	-	15.39	G1261 FA081 -
315C14R-S57PN13	315	330.8	80	60	101.6	177.8	25.7	14	-5	-4	14	-	1900	-	29.17	G1261 FA081 -

G1261	PNMU 1308DN..	XNGX 1308DNSN	PNMQ 1308DN..

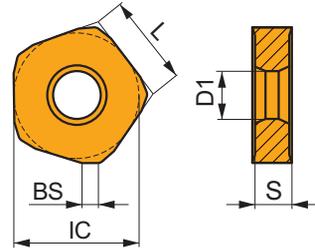
FA081	SPN 13T3DN	US 64010-T15P	SDRT15P	US 68026-T30P	15.0	M 8	26	SDRT30P-T

AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

PNMU 13

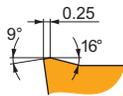


	BS	IC	D1	L	S
	(mm)	(mm)	(mm)	(mm)	(mm)
1308	3.00	24.400	10.00	13.00	7.94



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE	P			M			K			N			S			H		
		vc	f	ap															
	(mm)	(m/min)	(mm/tooth)	(mm)															



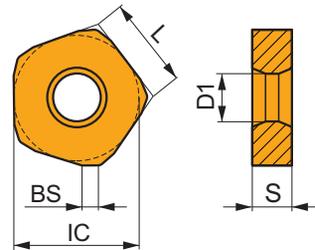
M geometria con design positivo per lavorazioni di sgrossatura.

PNMU 1308DNSR-M:8215	✳	–	■	165	0.35	6.5	▣	95	0.32	6.5	■	155	0.35	6.5	–	–	–	▣	40	0.28	5.2	▣	30	0.18	2.0
PNMU 1308DNSR-M:M8330	✳	–	■	190	0.35	6.5	▣	110	0.32	6.5	■	180	0.35	6.5	–	–	–	▣	45	0.28	5.2	▣	35	0.18	2.0
PNMU 1308DNSR-M:M8345	✳	–	■	135	0.35	6.5	▣	80	0.32	6.5	–	–	–	–	–	–	–	▣	30	0.28	5.2	–	–	–	
PNMU 1308DNSR-M:M9315	✳	–	■	210	0.35	6.5	–	–	–	–	■	195	0.35	6.5	–	–	–	–	–	–	–	▣	40	0.18	2.0
PNMU 1308DNSR-M:M9340	✳	–	■	170	0.35	6.5	▣	100	0.32	6.5	–	–	–	–	–	–	–	–	▣	40	0.28	5.2	–	–	–

PNMQ 13

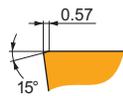


	BS	IC	D1	L	S
	(mm)	(mm)	(mm)	(mm)	(mm)
1308	3.00	24.400	10.00	13.00	7.94



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE	P			M			K			N			S			H		
		vc	f	ap															
	(mm)	(m/min)	(mm/tooth)	(mm)															



SN design con angolo di spoglia superiore del tagliente a zero gradi adatto per lavorazioni di sgrossatura.

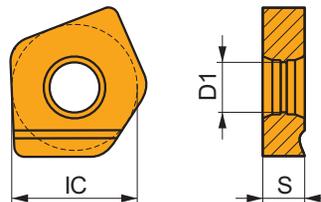
PNMQ 1308DNSN:M8330	✳	–	▣	165	0.60	6.5	–	–	–	–	■	155	0.60	6.5	–	–	–	–	–	–	–	▣	30	0.30	2.0
PNMQ 1308DNSN:M8345	✳	–	▣	120	0.60	6.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	



XNGX 13

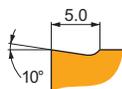


	IC (mm)	D1 (mm)	S (mm)
1308	24.180	10.00	7.94



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



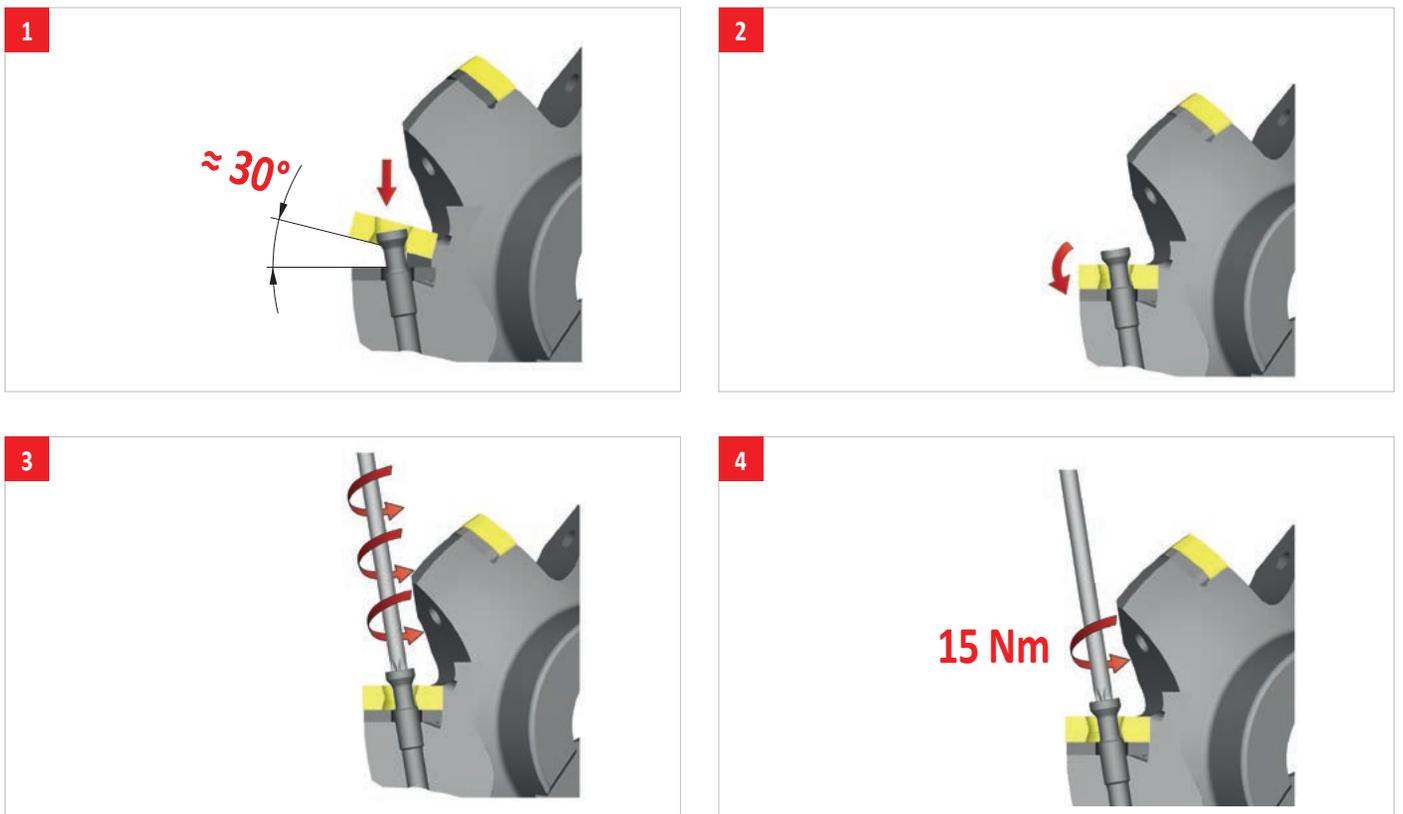
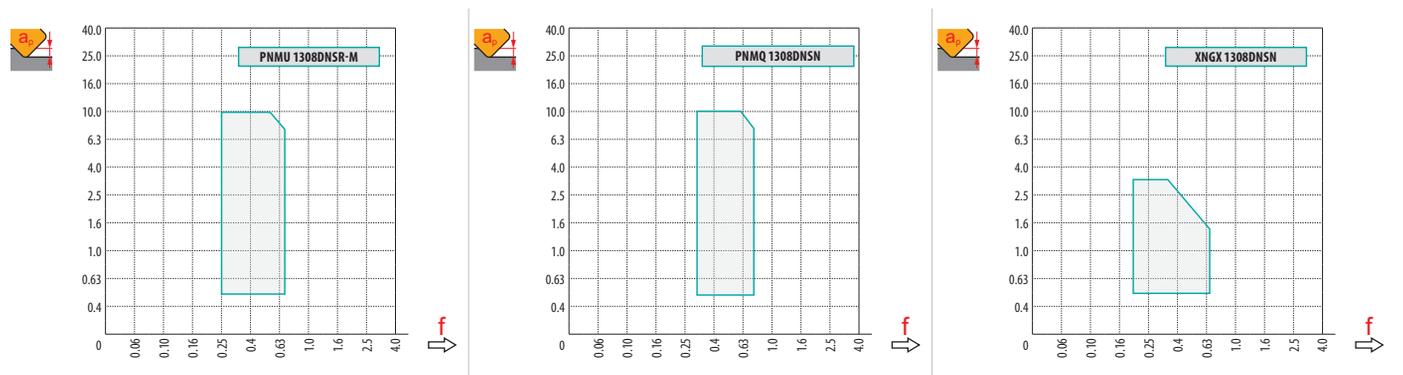
W design Wiper per una migliore finitura superficiale.

XNGX 1308DNSN:M8330	✳	-	■	245	0.45	2.5	■	-	-	-	■	230	0.45	2.5	■	-	-	-	■	-	-	-	■	-	-	-
----------------------------	---	---	---	-----	------	-----	---	---	---	---	---	-----	------	-----	---	---	---	---	---	---	---	---	---	---	---	---



a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	PNMU 13-M	PNMQ 13	XNGX 13
	-	-	-
	3.00	3.00	12.71



FRESE A FISSAGGIO MECCANICO – NAVIGATORE

SPIANATURA

	SSD13F	SSE09	SSN12Z	FSB22X						
	45°		45°		45°		60°			
	APMX (mm)	6.4	APMX (mm)	4.5	APMX (mm)	6.5	APMX (mm)	15.0		
	DC (mm)	32 – 250	DC (mm)	20 – 160	DC (mm)	63 – 125	DC (mm)	125 – 250		
Codolo cilindrico										
Weldon		DC = 32, 40 (mm)		DC = 20 – 32 (mm)						
Modulare										
Fresa a manicotto		DC = 40 – 250 (mm)		DC = 32 – 160 (mm)						
Pagina	26		31		35		38			
ISO	P M K N S H	P M K S	P M K S	P M K S	P M K S					
Forma dell'inserto										
Inserti	SDET 13T3 SDMT 13T3 XDET 13T3	SE.T 09T3	SN.T 1205	SB.. 2207						
N. di taglienti	4 / 4 / 1		4		4		4 / 1			
Spianatura 	■	■	■	■						
Smussatura 	■	■	■	■						
Interpolazione elicoidale 	☑									
Fresatura a tuffo progressiva 	☑									
Rampa 	☑									

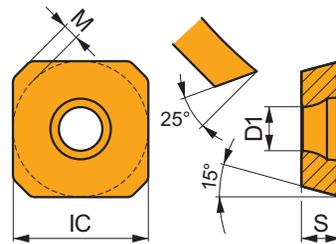
C0610	US 63513-T15P	3.0	M 3.5	13	Flag T15P	-	-	-	SDW 1103AF	MS 3507	HXK 3.5	-	-	
C0611	US 63513-T15P	3.0	M 3.5	13	-	D-T08P/T15P	FG-15	HS 0830C	SDW 1103AF	MS 3507	HXK 3.5	-	-	
C0612	US 63513-T15P	3.0	M 3.5	13	-	D-T08P/T15P	FG-15	HSD 1025C	SDW 1103AF	MS 3507	HXK 3.5	-	-	
C0613	US 63513-T15P	3.0	M 3.5	13	-	D-T08P/T15P	FG-15	-	SDW 1103AF	MS 3507	HXK 3.5	-	-	
C0614	US 63513-T15P	3.0	M 3.5	13	-	D-T08P/T15P	FG-15	HS 1240C	SDW 1103AF	MS 3507	HXK 3.5	CAC 160C	HSD 0825C	HXK 5
C0615	US 63513-T15P	3.0	M 3.5	13	-	D-T08P/T15P	FG-15	HS 1655C	SDW 1103AF	MS 3507	HXK 3.5	CAC 200C	HSD 1025C	HXK 7
C0616	US 63513-T15P	3.0	M 3.5	13	-	D-T08P/T15P	FG-15	HS 1655C	SDW 1103AF	MS 3507	HXK 3.5	CAC 250C	HSD 1025C	HXK 7

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

SDET 13

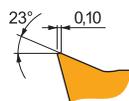


	IC	D1	M	S
	(mm)	(mm)	(mm)	(mm)
13T3	13.385	4.40	1.5	3.97



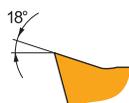
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H					
		vc	f	ap																		
		(m/min)	(mm/tooth)	(mm)																		



F la geometria positiva è utilizzata per la finitura, adatta per sbalzi elevati o per applicazioni caratterizzate da pareti e pezzi da lavorare sottili. Progettata con un angolo di taglio altamente positivo, T-land stretto e arrotondamento del tagliente per lavorazioni leggere.

SDET 13T3AFSN-F:M6330	☼	-	■	250	0.15	3.0	■	175	0.14	3.0	-	-	-	■	70	0.11	2.4	-	-	-		
SDET 13T3AFSN-F:M8310	☼	-	■	315	0.15	3.0	■	160	0.14	3.0	■	295	0.15	3.0	-	-	-	-	-	-		
SDET 13T3AFSN-F:M8330	☼	-	■	285	0.15	3.0	■	170	0.14	3.0	■	270	0.15	3.0	■	855	0.18	3.0	■	70	0.11	2.4
SDET 13T3AFSN-F:M8340	☼	-	■	265	0.15	3.0	■	155	0.14	3.0	■	250	0.15	3.0	-	-	-	■	65	0.11	2.4	
SDET 13T3AFSN-F:M9340	☼	-	■	330	0.15	3.0	■	195	0.14	3.0	-	-	-	-	-	-	-	■	80	0.11	2.4	



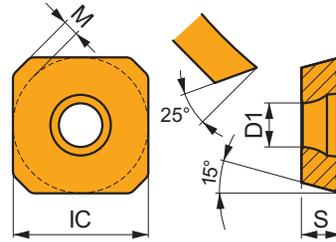
FA la geometria è affilata e utilizzata per la lavorazione di leghe non ferrose, adatta per sbalzi elevati o per applicazioni caratterizzate da pareti e pezzi da lavorare sottili. Design lappatura superficiale con angolo di taglio altamente positivo.

SDET 13T3AFFN-FA:HF7	☼	-	-	-	-	-	-	-	-	-	■	360	0.12	3.0	-	-	-	-	-	-
SDET 13T3AFFN-FA:M0315	☼	-	-	-	-	-	-	-	-	-	■	840	0.12	3.0	-	-	-	-	-	-

SDMT 13

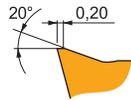


	IC	D1	M	S
	(mm)	(mm)	(mm)	(mm)
13T3	13.385	4.40	1.5	3.97



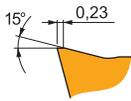
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
		(m/min)	(mm/tooth)	(mm)															



M la geometria versatile rappresenta la prima scelta per una vasta gamma di condizioni di lavoro. Progettata con un angolo di taglio positivo, T-land medio e arrotondamento del tagliente per lavorazioni medie.

SDMT 13T3AFSN-M:8215	☉	–	■	245	0.30	3.0	▣	145	0.27	3.0	■	230	0.30	3.0	–	–	–	▣	60	0.24	2.4	■	45	0.21	1.0
SDMT 13T3AFSN-M:M6330	☉	–	■	215	0.30	3.0	■	150	0.27	3.0	–	–	–	–	–	–	–	■	60	0.24	2.4	–	–	–	
SDMT 13T3AFSN-M:M8330	☉	–	■	245	0.30	3.0	■	145	0.27	3.0	■	230	0.30	3.0	–	–	–	▣	60	0.24	2.4	▣	45	0.21	1.0
SDMT 13T3AFSN-M:M8340	☉	–	■	225	0.30	3.0	■	135	0.27	3.0	▣	210	0.30	3.0	–	–	–	■	55	0.24	2.4	–	–	–	
SDMT 13T3AFSN-M:M9325	☉	–	■	295	0.30	3.0	–	–	–	–	■	280	0.30	3.0	–	–	–	–	–	–	–	▣	55	0.21	1.0
SDMT 13T3AFSN-M:M9340	☉	–	■	265	0.30	3.0	■	155	0.27	3.0	–	–	–	–	–	–	–	■	65	0.24	2.4	–	–	–	



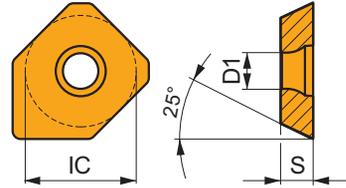
R la geometria robusta è utilizzata per la sgrassatura e condizioni di lavoro pesanti. Progettata con un angolo di taglio leggermente positivo, T-land ampio e arrotondamento del tagliente per lavorazioni di sgrassatura.

SDMT 13T3AFSN-R:M5315	☉	–	▣	285	0.35	3.0	–	–	–	–	■	270	0.35	3.0	–	–	–	–	–	–	–	■	55	0.25	1.0
SDMT 13T3AFSN-R:M8310	☉	–	■	255	0.35	3.0	▣	130	0.32	3.0	■	240	0.35	3.0	–	–	–	–	–	–	■	50	0.25	1.0	
SDMT 13T3AFSN-R:M8330	☉	–	■	240	0.35	3.0	▣	140	0.32	3.0	■	225	0.35	3.0	–	–	–	–	–	–	▣	45	0.25	1.0	
SDMT 13T3AFSN-R:M8340	☉	–	■	220	0.35	3.0	▣	130	0.32	3.0	▣	205	0.35	3.0	–	–	–	–	–	–	–	–	–	–	
SDMT 13T3AFSN-R:M9325	☉	–	■	280	0.35	3.0	–	–	–	–	■	265	0.35	3.0	–	–	–	–	–	–	▣	55	0.25	1.0	

XDET 13



	IC	D1	S
	(mm)	(mm)	(mm)
13T3	13.385	4.40	3.97



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



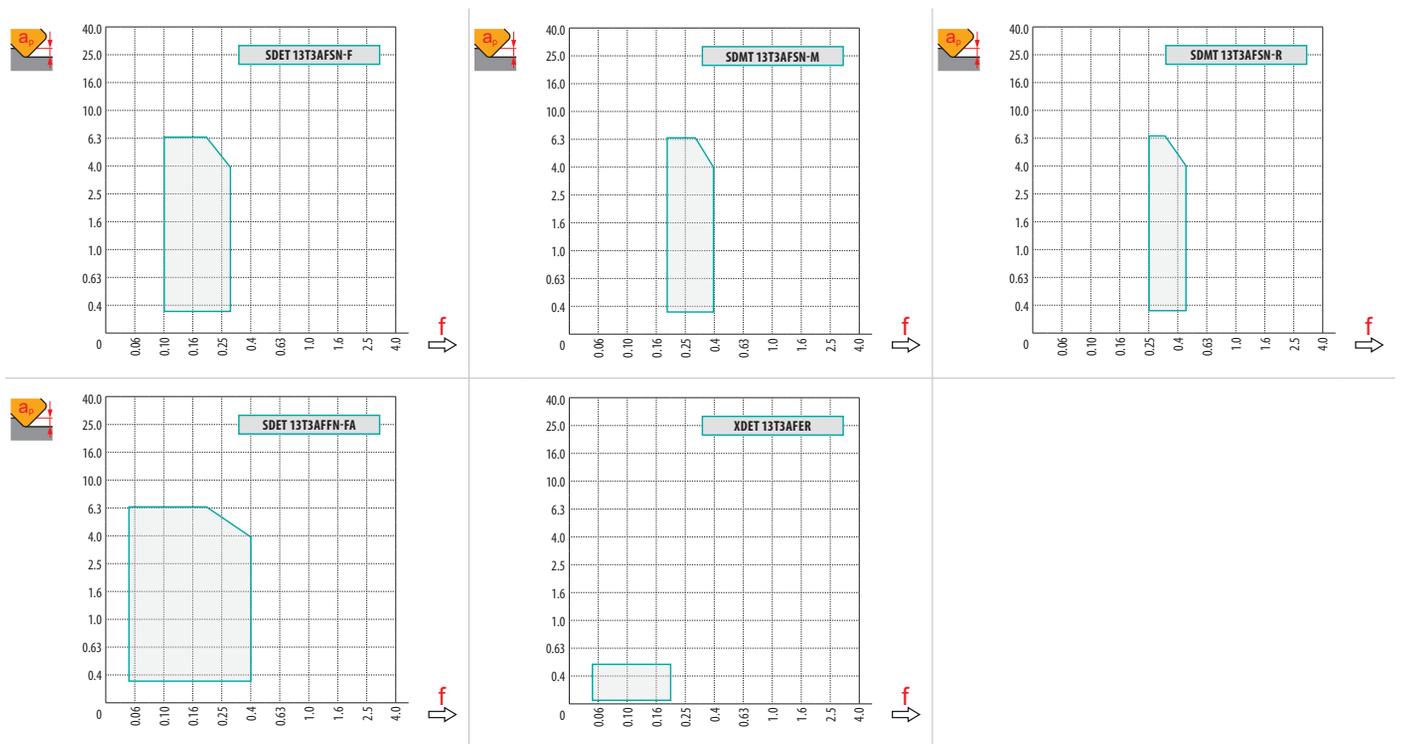
W design del raschiante volto a garantire una migliore finitura superficiale durante la lavorazione con frese di grandi dimensioni e in presenza di un avanzamento elevato.

XDET 13T3AFER:8215	☹	–	■	420	0.10	0.2	▣	250	0.09	0.2	■	395	0.10	0.2	■	–	–	–	■	–	–	–
XDET 13T3AFER:M8330	☹	–	■	395	0.10	0.2	▣	235	0.09	0.2	■	375	0.10	0.2	■	–	–	–	■	–	–	–



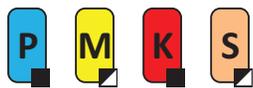
a_e / DC	5%	10%	15%	20%	25%	30%	40%	50%	60%	70%	75%	80%	90%	100%
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	SDET 13-F	SDMT 13-M	SDMT 13-R	SDET 13-FA	XDET 13
	-	-	-	-	-
	1.75	1.75	1.75	1.75	8.19



		f_{max}		RPMX	APMX/I		DMIN	DMAX			
32	1.22	0.15	32	14.1°	6.4/27	32	60.0	89.8	1.7	1.7	1.5
40	1.26	0.16	40	11.8°	6.4/32	40	75.0	107.0	1.7	1.7	
50	1.30	0.18	50	9.8°	6.4/39	50	94.0	127.0	1.7	1.7	
63	1.34	0.20	63	7.7°	6.4/49	63	120.0	152.8	1.7	1.7	
80	1.39	0.22	80	5.2°	6.4/72	80	155.0	186.8	1.7	1.7	
100	1.43	0.24	100	4.1°	6.4/91	100	193.0	225.8	1.7	1.7	
125	1.48	0.26	125	3.2°	5.45/100	125	245.0	275.6	1.7	1.7	
160	1.53	0.29	160	1.0°	1.6/100	160	322.0	345.6	1.7	1.7	
200	1.58	0.33	200	0.4°	0.55/100	200	405.0	425.6	1.7	1.7	
250	1.63	0.36	250	0.3°	0.4/100	250	505.0	525.6	1.7	1.7	

SSE09



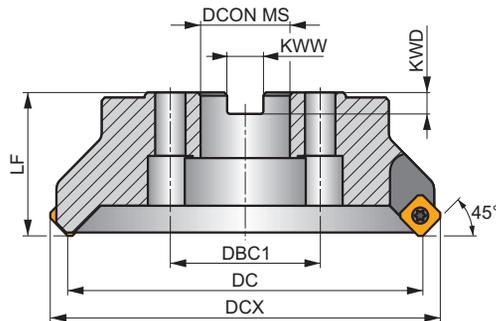
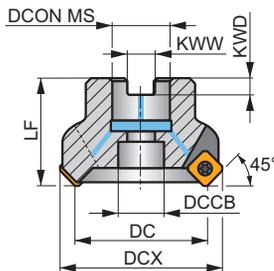
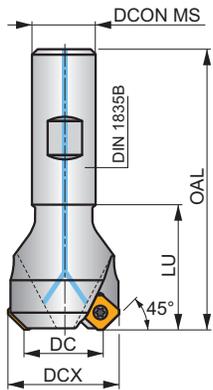
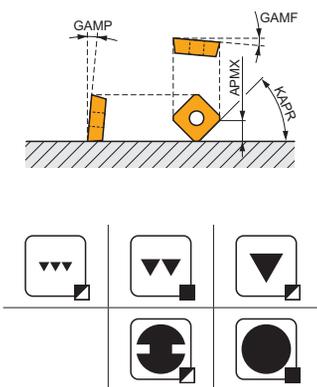
PRAMET



Fresa positiva per spianatura a 45° con refrigerante interno

Fresa a spianare a 45° ad elevata produttività che utilizza inserti positivi SE..09 con APMX di 4,5 mm. Adatta per spianatura e smussatura. Disponibile con attacco weldon ed a manicotto, con passo differenziato dei taglienti. Corpo trattato per una maggiore durata dell'utensile.

KAPR	45°
APMX	4.5 mm



	0.06 - 0.18		
	0.06 - 0.2		

Codice prodotto	DC	DCX	OAL	DCON MS	DCCB	DBC1	LU	LF	KWW	KWD	GAMP	GAMP	max.		kg	Icons				
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)								
20N2R032B20-SSE09-C	20	29.8	82	20	-	-	32	-	-	-	-5	20	2	-	24600	✓	0.26	G147	FA010	-
25N3R042B25-SSE09-C	25	34.8	98	25	-	-	42	-	-	-	-5	20	3	-	22000	✓	0.44	G147	FA010	-
32N4R042B32-SSE09-C	32	42	102	32	-	-	42	-	-	-	-5	20	4	-	19400	✓	0.68	G147	FA010	-
32A04R-S45SE09F-C	32	42	-	16	14	-	-	40	8.4	6.4	-5	20	4	✓	19400	✓	0.24	G147	FA012	-
40A04R-S45SE09F-C	40	53.2	-	16	14	-	-	40	8.4	6.4	-5	20	4	✓	17400	✓	0.30	G147	FA012	-
50A05R-S45SE09F-C	50	59.6	-	22	18	-	-	40	10.4	6.4	-5	20	5	✓	15600	✓	0.55	G147	FA013	-
63A05R-S45SE09F-C	63	75.8	-	22	18	-	-	40	10.4	6.4	-5	20	5	✓	13900	✓	0.66	G147	FA013	-
63A06R-S45SE09F-C	63	75.8	-	22	18	-	-	40	10.4	6.4	-5	20	6	✓	13900	✓	0.58	G147	FA013	-
80A06R-S45SE09F-C	80	89.6	-	27	38	-	-	50	12.4	7	-5	20	6	✓	12300	✓	1.14	G147	FA011	AC001
80A08R-S45SE09F-C	80	89.6	-	27	38	-	-	50	12.4	7	-5	20	8	✓	12300	✓	1.13	G147	FA011	AC001
100A08R-S45SE09F-C	100	110	-	32	45	-	-	50	14.4	8	-5	20	8	✓	11000	✓	1.83	G147	FA011	AC002
100A10R-S45SE09F-C	100	110	-	32	45	-	-	50	14.4	8	-5	20	10	✓	10900	✓	1.82	G147	FA011	AC002
125A09R-S45SE09F-C	125	134.5	-	40	60	-	-	63	16.4	9	-5	20	9	✓	9800	✓	3.87	G147	FA011	AC003
125A12R-S45SE09F-C	125	134.5	-	40	60	-	-	63	16.4	9	-5	20	12	✓	9800	✓	3.87	G147	FA011	AC003
160C10R-S45SE09F	160	169.6	-	40	-	66.7	-	63	16.4	9	-5	20	10	✓	8700	-	6.21	G147	FA014	-

G147	SEET 09T3AF.	SEMT 09T3AF.

Icon	Icon	Nm	Icon	Icon	Icon	Icon	Icon
FA010	US 3007-T09P	2.0	M 3	7.3	-	-	Flag T09P
FA011	US 3007-T09P	2.0	M 3	7.3	D-T07P/T09P	FG-15	-
FA012	US 3007-T09P	2.0	M 3	7.3	D-T07P/T09P	FG-15	HS 0830C
FA013	US 3007-T09P	2.0	M 3	7.3	D-T07P/T09P	FG-15	HS 1030C

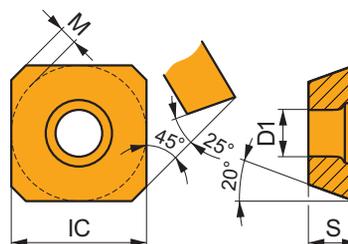
FA014	US 3007-T09P	2.0	M 3	7.3	D-T07P/T09P	FG-15	–	HS 1240C

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

SEMT 09

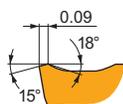


	IC	D1	M	S
	(mm)	(mm)	(mm)	(mm)
09T3	9.525	3.50	1.2	3.97



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)



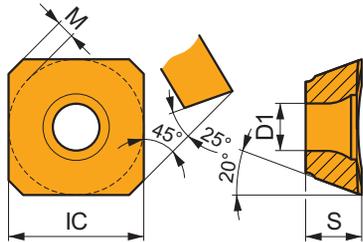
AFSN design positivo per lavorazioni da leggere a medie.

SEMT 09T3AFSN:8215	☩	–	■	295	0.18	1.8	▣	175	0.16	1.8	■	280	0.18	1.8	–	–	–	–	–	–	–
SEMT 09T3AFSN:M8330	☩	–	■	290	0.18	1.8	▣	170	0.16	1.8	■	275	0.18	1.8	–	–	–	–	–	–	–
SEMT 09T3AFSN:M8340	☩	–	■	265	0.18	1.8	▣	155	0.16	1.8	▣	250	0.18	1.8	–	–	–	–	–	–	–
SEMT 09T3AFSN:M9325	☩	–	■	365	0.18	1.8	–	–	–	–	■	345	0.18	1.8	–	–	–	–	–	–	–

SEET 09

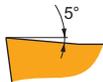


	IC	D1	M	S
	(mm)	(mm)	(mm)	(mm)
09T3	9.525	3.50	1.2	3.97



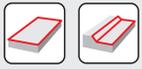
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
		(m/min)	(mm/tooth)	(mm)															



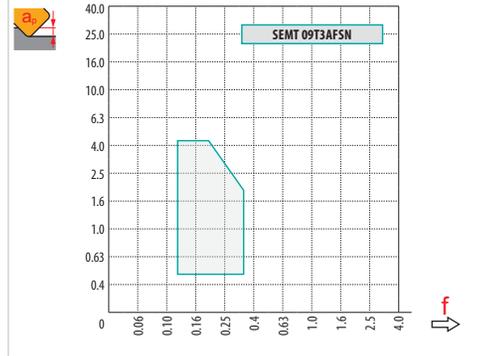
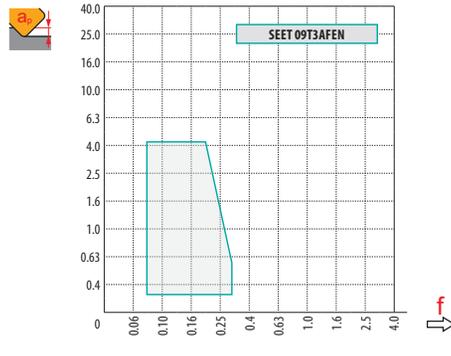
AFEN design positivo per lavorazioni da leggere a medie.

SEET 09T3AFEN:M6330	☹	–	■	255	0.14	2.5	☑	180	0.13	2.5	■	–	–	–	☑	75	0.10	2.0	■	–	–	–
SEET 09T3AFEN:M8330	☹	–	■	295	0.14	2.5	☑	175	0.13	2.5	■	–	–	–	☑	70	0.10	2.0	■	–	–	–
SEET 09T3AFEN:M8340	☹	–	■	270	0.14	2.5	☑	160	0.13	2.5	■	–	–	–	☑	65	0.10	2.0	■	–	–	–
SEET 09T3AFEN:M9340	☹	–	■	345	0.14	2.5	☑	205	0.13	2.5	■	–	–	–	☑	85	0.10	2.0	■	–	–	–



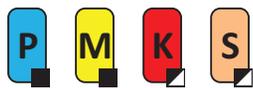
a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	SEET 09	SEMT 09
	-	-
	1.28	1.25



DC	X.V	f_{max}
20	1.20	0.18
25	1.24	0.20
32	1.29	0.23
40	1.33	0.25
50	1.37	0.28
63	1.41	0.32
80	1.46	0.36
100	1.50	0.40
125	1.55	0.45
160	1.60	0.51

SSN12Z



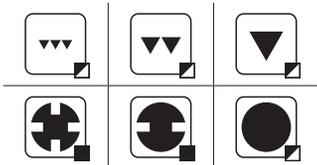
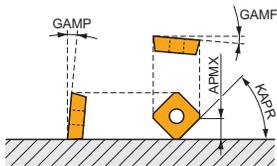
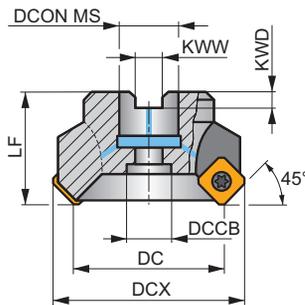
PRAMET



Fresa per spianatura a 45° con geometria positiva e refrigerante interno

Fresa a spianare a 45° ad elevata produttività che utilizza inserti monolaterali tipo SN .. 12 con APMX di 6,5 mm. Adatta per spianatura e smussatura. Attacco a manicotto. Corpo trattato per una maggiore durata dell'utensile.

KAPR	45°
APMX	6.5 mm



0.12 - 0.35



Codice prodotto	DC	DCX	LF	DCON MS	DCCB	DBC1	KWW	KWD	GAMP	GAMP								
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)								
63A05R-S45SN12Z-C	63	78	40	22	18	-	10.4	6.3	-5.5	7.5	5	-	8600	✓	0.62	GI156	FA071	-
80A06R-S45SN12Z-C	80	95	50	27	38	-	12.4	7	-5.5	7.5	6	-	7700	✓	1.36	GI156	FA071	AC001
100A07R-S45SN12Z-C	100	115	50	32	45	-	14.4	8	-5.5	7.5	7	-	6900	✓	1.70	GI156	FA071	AC002
125A08R-S45SN12Z-C	125	140	63	40	56	-	16.4	9	-5.5	7.5	8	-	6100	✓	3.42	GI156	FA071	AC003

GI156	SNKT 1205AZ..	SNMT 1205AZ..

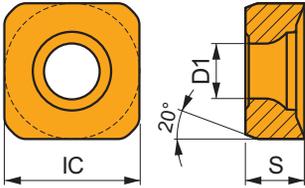
FA071	US 4511-T20	5.0	M 4.5	11	SDRT20-T

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

SNMT 12

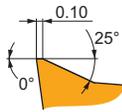


	IC (mm)	D1 (mm)	S (mm)
1205	12.700	5.20	5.56



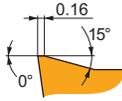
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



M geometria con design altamente positivo per lavorazioni medie.

SNMT 1205AZSR-M:8215	☉	–	■	300	0.25	3.2	▣	180	0.23	3.2	▤	285	0.25	3.2	–	–	–	▥	75	0.18	2.6	–	–	–
SNMT 1205AZSR-M:M8330	☉	–	■	300	0.25	3.2	▣	180	0.23	3.2	▤	285	0.25	3.2	–	–	–	▥	75	0.18	2.6	–	–	–
SNMT 1205AZSR-M:M8340	☉	–	■	275	0.25	3.2	▣	165	0.23	3.2	▤	260	0.25	3.2	–	–	–	▥	65	0.18	2.6	–	–	–
SNMT 1205AZSR-M:M9325	☉	–	■	365	0.25	3.2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



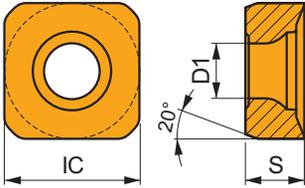
R geometria con design positivo per lavorazioni da medie a pesanti.

SNMT 1205AZSR-R:8215	☉	–	■	290	0.27	3.5	▣	170	0.24	3.5	▤	275	0.27	3.5	–	–	–	▥	70	0.22	2.8	–	–	–
SNMT 1205AZSR-R:M5315	☉	–	▣	365	0.27	3.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMT 1205AZSR-R:M8330	☉	–	■	290	0.27	3.5	▣	170	0.24	3.5	▤	275	0.27	3.5	–	–	–	▥	70	0.22	2.8	–	–	–
SNMT 1205AZSR-R:M8340	☉	–	■	270	0.27	3.5	▣	160	0.24	3.5	▤	255	0.27	3.5	–	–	–	▥	65	0.22	2.8	–	–	–
SNMT 1205AZSR-R:M9325	☉	–	■	355	0.27	3.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

SNKT 12

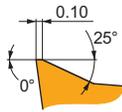


	IC (mm)	D1 (mm)	S (mm)
1205	12.700	5.20	5.56



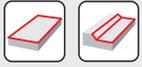
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



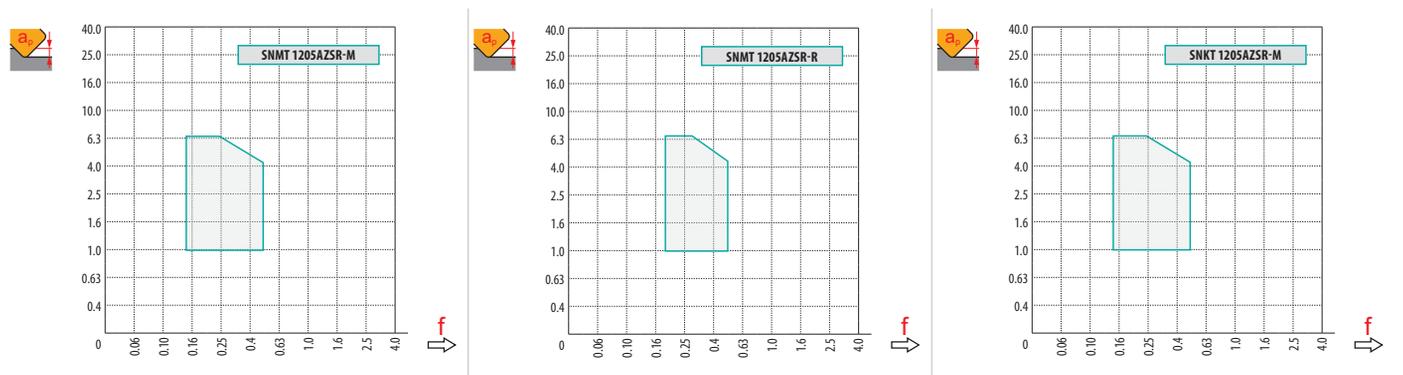
M geometria con design altamente positivo per lavorazioni medie.

SNKT 1205AZSR-M:M8330	☉	–	■	305	0.24	3.2	▣	180	0.22	3.2	▤	285	0.24	3.2	–	–	–	▥	75	0.17	2.6	–	–	–
SNKT 1205AZSR-M:M8340	☉	–	■	275	0.24	3.2	▣	165	0.22	3.2	▤	260	0.24	3.2	–	–	–	▥	65	0.17	2.6	–	–	–



a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	SNMT 12-M	SNMT 12-R	SNKT 12-M
	-	-	-
	0.95	1.03	1.59



DC	X.V	f_{max}
63	1.34	0.53
80	1.39	0.60
100	1.43	0.67
125	1.47	0.74

FSB22X



PRAMET

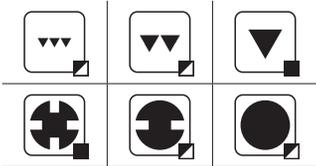
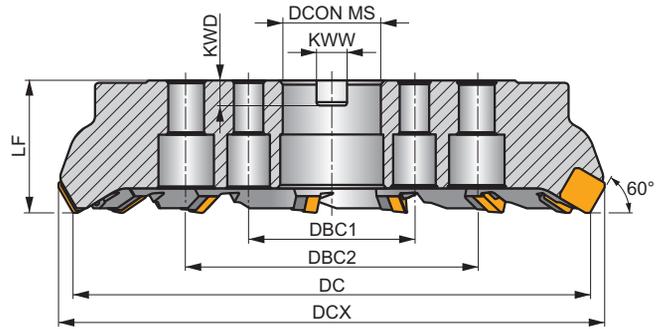
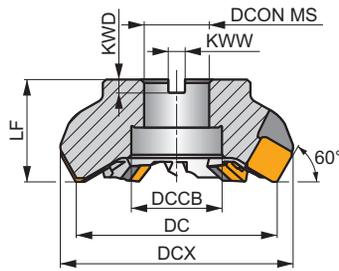
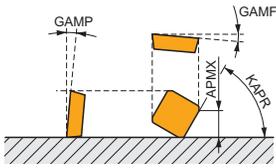


ROUGH SB fresa a spianare a 60° con geometria positiva per fresatura pesante

Fresa a spianare a 60° ad alta produttività che utilizza inserti SB .. 22 positivi con APMX di 15 mm. Specifica per spianatura pesante con azione di taglio leggera. Passo differenziato dei taglienti . Attacco a manicotto. Corpo trattato per una maggiore durata dell'utensile.

ROUGH SB

KAPR	60°
APMX	15.0 mm



Codice prodotto	DC	DCX	LF	DCON MS	DCCB	DBC1	DBC2	KWW	KWD	GAMF	GAMP					kg				
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)									
125B07R-F60SB22X	125	144.4	63	40	56	-	-	16.4	9	-9	9	7	✓	-	-	3.73	G144	FA111	AC003	
160C08R-F60SB22X	160	178.7	63	40	-	66.7	-	16.4	9	-9	9	8	✓	-	-	6.46	G144	FA114	-	
200C08R-F60SB22X	200	217.9	63	60	-	101.6	-	25.7	14	-9	9	8	✓	-	-	10.59	G144	FA115	-	
250C09R-F60SB22X	250	267.4	63	60	-	101.6	-	25.7	14	-9	9	9	✓	-	-	17.54	G144	FA115	-	

G144	SBKX 2207DZ..	SBMR 2207DZ..

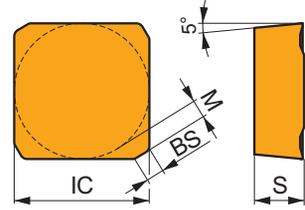
FA111	LNX 220616	US 6013-T20P	SDR T20P-T	KU SBMR 2207	DS 01Z	KL 04	-
FA114	LNX 220616	US 6013-T20P	SDR T20P-T	KU SBMR 2207	DS 01Z	KL 04	HS 1240
FA115	LNX 220616	US 6013-T20P	SDR T20P-T	KU SBMR 2207	DS 01Z	KL 04	HS 1655

AC003	KS 2040	K.FMH40

SBMR 22

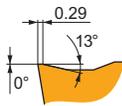


	IC (mm)	M (mm)	S (mm)	BS (mm)
2207	22.000	2.8	8.00	1.99



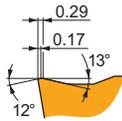
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



DZSR design bilanciato per lavorazioni pesanti.

SBMR 2207DZSR:M8326	☉	–	140	0.38	8.5	–	–	–	130	0.38	8.5	–	–	–	–	–	–	–	–
SBMR 2207DZSR:M8346	☼	–	120	0.38	8.5	70	0.38	8.5	–	–	–	–	–	–	–	–	–	–	



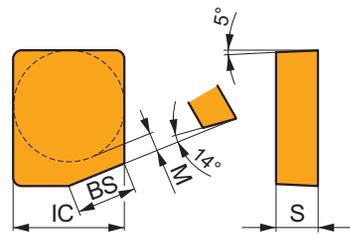
R geometria con design bilanciato per lavorazioni pesanti.

SBMR 2207DZSR-R:M5326	☉	–	160	0.44	9.8	–	–	–	150	0.44	9.8	–	–	–	–	–	–	–
SBMR 2207DZSR-R:M8326	☉	–	135	0.44	9.8	–	–	–	125	0.44	9.8	–	–	–	–	–	–	–
SBMR 2207DZSR-R:M8346	☼	–	115	0.44	9.8	65	0.40	9.8	–	–	–	–	–	–	–	–	–	–

SBKX 22



	IC (mm)	M (mm)	S (mm)	BS (mm)
2207	22.000	3.2	8.00	11.84



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



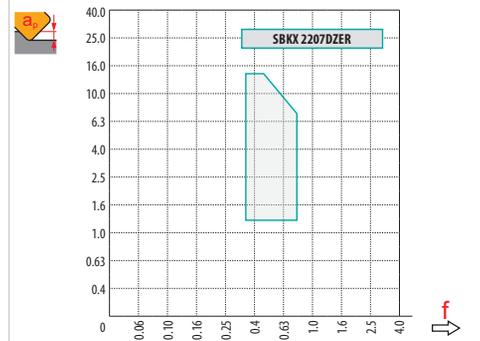
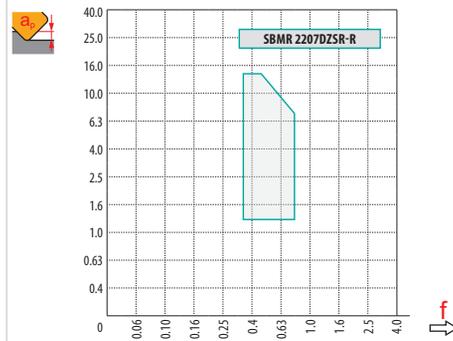
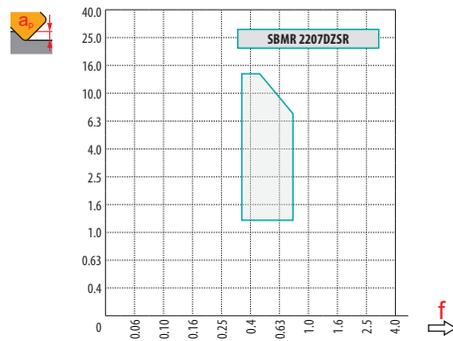
DZER design Wiper con angolo di spoglia superiore del tagliente a zero gradi per una migliore finitura superficiale.

SBKX 2207DZER:M8326	☉	–	100	0.60	8.5	–	–	–	95	0.60	8.5	–	–	–	–	–	–	–
----------------------------	---	---	-----	------	-----	---	---	---	----	------	-----	---	---	---	---	---	---	---



a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	SBMR 22	SBMR 22-R	SBKX 22
	-	-	-
	1.99	1.99	11.84



FRESE A FISSAGGIO MECCANICO – NAVIGATORE

SPIANATURA

	SOD05	SOD06D	SOE06Z		
	45°	45°	43°		
	APMX (mm) 2.7 (10.0)	APMX (mm) 3.1 (8.6)	APMX (mm) 3.3 (9.9)		
	DCX (mm) 32 – 125	DC (mm) 63 – 160	DC (mm) 50 – 200		
Codolo cilindrico	 DC = 32, 40 (mm)				
Weldon					
Modulare					
Fresa a manicotto	 DC = 40 – 125 (mm)				
Pagina	42	51	55		
ISO	P M K N	P M K S H	P M N S		
Forma dell'inserto					
Inserti	OD.. 0505 RD.. 1205 SD.. 1205	OD.. 0605 RPE. 1505	OEHT 0604 REHT 1604 XEHT 0604		
N. di taglienti	8 / 8 / 4	8 / 8	8 / 8 / 1		
Spianatura 	■	■	■		
Smussatura 	■	■	■		
Interpolazione elicoidale 	■		▣		
Fresatura a tuffo progressiva 	■		▣		
Rampa 	■		▣		
Fresatura di superfici sagomate (fresatura a copiare) 	■		▣		
Fresatura di spallamento superficiale 	■				
Cave poco profonde 	■				
Fresatura a tuffo 	■				

SOD05

P M K N

PRAMET

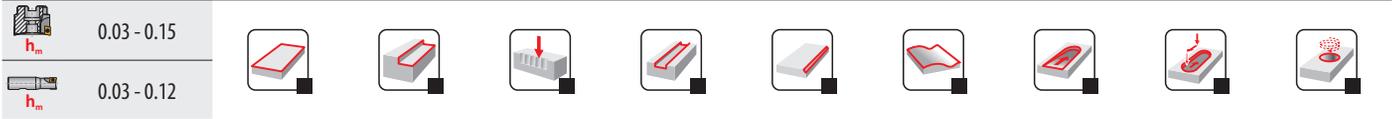
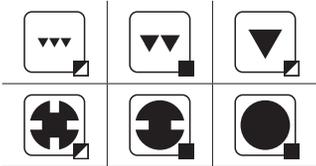
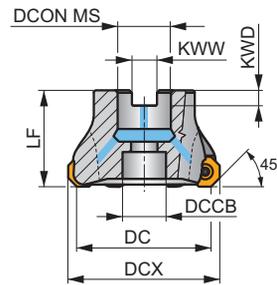
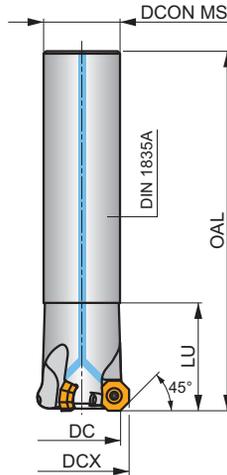
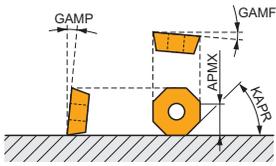
S



Fresa universale per spianatura con design positivo e passaggio interno del refrigerante

Highly productive universal face mill utilising single-sided positive inserts with APMX up to 2.7 (10) mm. Unique insert seat fits OD.. 05, RD.. 12 and SD.. 12 style inserts, suited for wide range of applications. Differential tooth pitch. Arbor and cylindrical style. Body treated for longer tool life.

KAPR	45°
APMX	2.7 (10.0) mm



Codice prodotto	DCX	DC	OAL	DCON MS	DCCB	LU	LF	KAPR	KWW	KWD	GAMP	GAMP	max.			kg	ISO 8030			
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(mm)	(°)	(°)								
32N3R045A25-SOD05-C	32	24.7	130	25	-	45	-	45	-	-	-10	8	3	-	17700	✓	0.41	GI326	FA049	-
40N3R045A32-SOD05-C	40	32.6	150	32	-	45	-	45	-	-	-7	8	3	-	15800	✓	0.86	GI326	FA040	-
40A03R-S450D05-C	40	32.7	-	16	14	-	40	45	8.4	5.6	-10	8	3	-	15800	✓	0.18	GI326	FA042	-
50A04R-S450D05-C	50	42.6	-	22	18	-	40	45	10.4	6.3	-7	8	4	-	14100	✓	0.28	GI326	FA043	-
50A05R-S450D05-C	50	42.6	-	22	18	-	40	45	10.4	6.3	-7	8	5	-	14100	✓	0.28	GI326	FA043	-
63A05R-S450D05-C	63	55.6	-	22	18	-	40	45	10.4	6.3	-7	8	5	✓	12600	✓	0.39	GI326	FA043	-
63A06R-S450D05-C	63	55.6	-	22	18	-	40	45	10.4	6.3	-7	8	6	✓	12600	✓	0.50	GI326	FA043	-
80A06R-S450D05-C	80	72.6	-	27	38	-	50	45	12.4	7	-7	8	6	✓	11100	✓	0.73	GI326	FA041	AC001
80A08R-S450D05-C	80	72.6	-	27	38	-	50	45	12.4	7	-7	8	8	✓	11100	✓	0.66	GI326	FA041	AC001
100A07R-S450D05-C	100	92.6	-	32	45	-	50	45	14.4	8	-7	8	7	✓	10000	✓	1.09	GI326	FA041	AC002
125A08R-S450D05-C	125	117.6	-	40	56	-	63	45	16.4	9	-7	8	8	✓	8900	✓	2.20	GI326	FA041	AC003

GI326	OD.. 0505..	RD.. 1205..	SDKT 1205..	SDMT 1205..SN

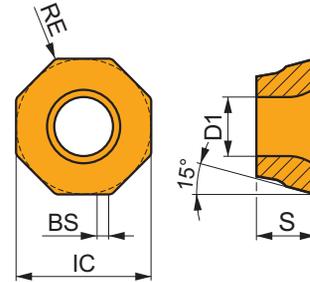
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FA041	US 45014-T20P	5.0	M 5	13	-	SDR T20P-T	-
FA042	US 45014-T20P	5.0	M 5	13	-	SDR T20P-T	HS 90835
FA043	US 45014-T20P	5.0	M 5	13	-	SDR T20P-T	HS 1030C
FA049	US 45011-T20P	5.0	M 5	11	Flag T20P	-	-

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

ODKT 05IM

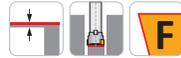
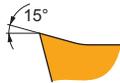


	IC	D1	S	BS
	(mm)	(mm)	(mm)	(mm)
0505	12.700	5.50	5.56	1.00



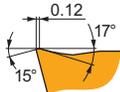
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



F geometria per inserto di spianatura a 45°, con design positivo per lavorazioni leggere.

ODKT 0505ADFR-F:M8310	● 0.8	■ 275	■ 0.15	■ 2.5	■ 140	■ 0.14	■ 2.5	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -
------------------------------	-------	-------	--------	-------	-------	--------	-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



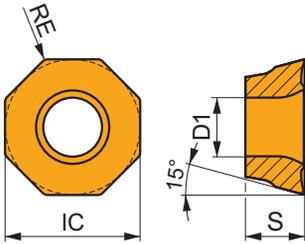
FM geometria per inserto di spianatura a 45°, con design positivo per lavorazioni da leggere a medie.

ODKT 0505ADSR-FM:M6330	● 0.8	■ 190	■ 0.25	■ 2.5	■ 135	■ 0.23	■ 2.5	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -
ODKT 0505ADSR-FM:M8310	● 0.8	■ 240	■ 0.25	■ 2.5	■ 120	■ 0.23	■ 2.5	■ 225	■ 0.25	■ 2.5	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -
ODKT 0505ADSR-FM:M8330	● 0.8	■ 225	■ 0.25	■ 2.5	■ 135	■ 0.23	■ 2.5	■ 210	■ 0.25	■ 2.5	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -
ODKT 0505ADSR-FM:M8345	● 0.8	■ 160	■ 0.25	■ 2.5	■ 95	■ 0.23	■ 2.5	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -
ODKT 0505ADSR-FM:M9340	● 0.8	■ 245	■ 0.25	■ 2.5	■ 145	■ 0.23	■ 2.5	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -	■ -

ODMT 05IM

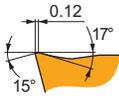


	IC (mm)	D1 (mm)	S (mm)
0505	12.700	5.50	5.56



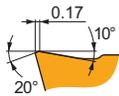
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



FM geometria per inserto di spianatura a 45°, con design positivo per lavorazioni da leggere a medie.

ODMT 0505ADSR-FM:M8340	0.8	200	0.25	2.5	120	0.23	2.5	190	0.25	2.5	-	-	-	-	-	-	-	-
ODMT 0505ADSR-FM:M9340	0.8	245	0.25	2.5	145	0.23	2.5	-	-	-	-	-	-	-	-	-	-	-



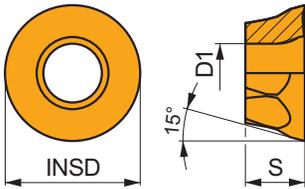
R geometria per inserto di spianatura a 45°, con design positivo per condizioni di taglio instabili.

ODMT 050508SN-R:M8330	0.8	190	0.25	2.5	-	-	-	180	0.25	2.5	-	-	-	-	-	-	-	-
ODMT 050508SN-R:M9340	0.8	210	0.25	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-

RDGT 12IM

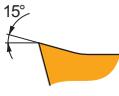


	INSD (mm)	D1 (mm)	S (mm)
1205	12.700	5.50	5.56



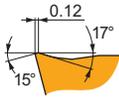
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



F geometria con design altamente positivo per lavorazioni leggere.

RDGT 120500FN-F:M8310	-	210	0.20	1.5	105	0.18	1.5	-	-	-	-	-	-	-	-	-	-	-
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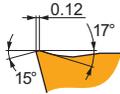


FM geometria con design positivo per lavorazioni da leggere a medie.

RDGT 120500SN-FM:M8330	-	190	0.20	1.5	110	0.18	1.5	180	0.20	1.5	-	-	-	-	-	-	-	-
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Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



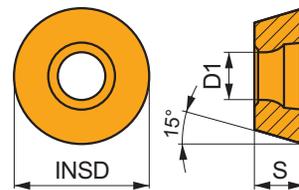
FM geometria con design positivo per lavorazioni da leggere a medie.

RDGT 120500SN-FM:M8345	●	-	■	140	0.20	1.5	■	80	0.18	1.5	-	-	-	-	-	-	-	-	-
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RDMT 12IM

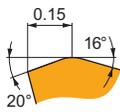


	INSD (mm)	D1 (mm)	S (mm)
1205	12.700	5.50	5.56



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



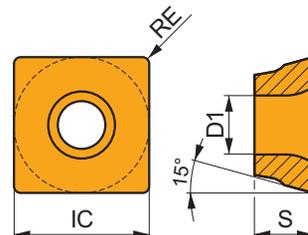
R geometria con design positivo, adatta per operazioni di copiatura e contornatura, per condizioni di taglio instabili.

RDMT 120500SN-R:M8330	●	-	■	175	0.30	1.5	-	-	-	■	165	0.30	1.5	-	-	-	-	-	-
RDMT 120500SN-R:M8340	●	-	■	160	0.30	1.5	-	-	-	■	150	0.30	1.5	-	-	-	-	-	-

SDKT 12IM

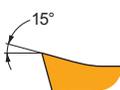


	IC (mm)	D1 (mm)	S (mm)
1205	12.700	5.50	5.56



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															

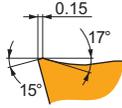


F geometria per inserto a spallamento retto a 90°, con design positivo per lavorazioni leggere.

SDKT 1205PDFR-F:8215	●	0.8	■	285	0.10	4.0	■	170	0.09	4.0	-	-	-	■	855	0.12	4.0	-	-	-
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Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



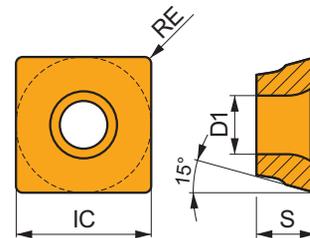
FM geometria per inserto a spallamento retto a 90°, con design positivo per lavorazioni da leggere a medie.

SDKT 1205AESN-FM:M8330	0.8	280	0.15	4.0	165	0.15	4.0	265	0.15	4.0	-	-	-	-	-	-	-	-
SDKT 1205AESN-FM:M8345	-	205	0.15	4.0	120	0.15	4.0	-	-	-	-	-	-	-	-	-	-	-
SDKT 1205PDSR-FM:M8330	0.8	255	0.15	4.0	150	0.15	4.0	240	0.15	4.0	-	-	-	-	-	-	-	-
SDKT 1205PDSR-FM:M8345	0.8	185	0.15	4.0	110	0.15	4.0	-	-	-	-	-	-	-	-	-	-	-

SDMT 12IM

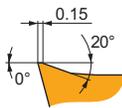


	IC (mm)	D1 (mm)	S (mm)
1205	12.700	5.50	5.56



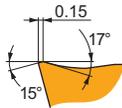
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



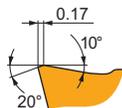
F geometria per inserto a spallamento retto a 90°, con design positivo per lavorazioni da leggere a medie.

SDMT 120508SN-F:M8310	0.8	265	0.15	4.0	135	0.15	4.0	-	-	-	-	-	-	-	-	-	-	-
SDMT 120508SN-F:M8330	0.8	245	0.15	4.0	145	0.15	4.0	-	-	-	735	0.18	4.0	-	-	-	-	-



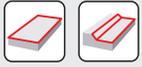
FM geometria per inserto a spallamento retto a 90°, con design positivo per lavorazioni medie.

SDMT 120508SN-FM:M8345	0.8	175	0.15	4.0	105	0.15	4.0	-	-	-	-	-	-	-	-	-	-	-
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R geometria per inserto a spallamento retto a 90°, con design positivo per condizioni di taglio instabili.

SDMT 120508SN-R:M8330	0.8	225	0.20	4.0	-	-	-	210	0.20	4.0	-	-	-	-	-	-	-	-
SDMT 120508SN-R:M8345	0.8	165	0.20	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMT 1205AESN-R:M8330	-	265	0.20	4.0	-	-	-	250	0.20	4.0	-	-	-	-	-	-	-	-
SDMT 1205AESN-R:M8340	-	240	0.20	4.0	-	-	-	225	0.20	4.0	-	-	-	-	-	-	-	-

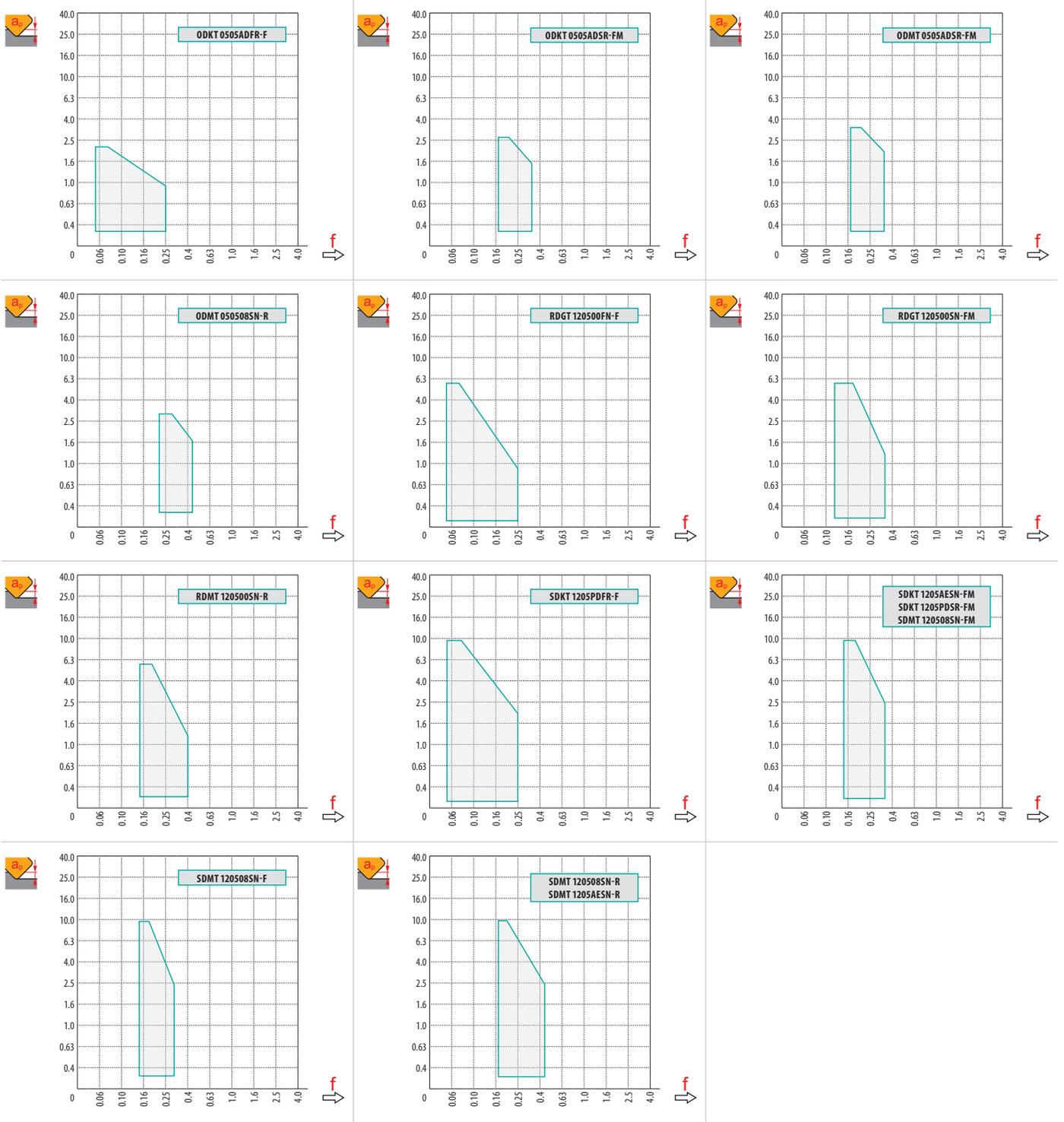


a_e / DCX	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	ODKT 05-F	ODKT 05-FM	ODMT 05-FM	ODMT 05-R
	0.4	0.8	0.8	0.8
	1.00	1.00	–	–

	RDGT 12-F	RDGT 12-FM	RDGT 12-R
	6.35	6.35	6.35
	–	–	–

	SDKT 12-F	SDKT 12-FM	SDMT 12-F	SDMT 12-R
	0.8	0.8	0.8	0.8
	2.30	2.30	–	–



		R												
		0.25	0.50	0.60	0.70	0.80	1.00	1.25	1.50	2.00	3.00	4.00	5.00	6.00
32		23.43	24.80	25.23	25.62	25.99	26.63	27.33	27.94	28.94	30.39	31.31	31.83	32.00
40		31.43	32.80	33.23	33.62	33.99	34.63	35.33	35.94	36.94	38.39	39.31	39.83	40.00
50		41.43	42.80	43.23	43.62	43.99	44.63	45.33	45.94	46.94	48.39	49.31	49.83	50.00
63		54.43	55.80	56.23	56.62	56.99	57.63	58.33	58.94	59.94	61.39	62.31	62.83	63.00
80		71.43	72.80	73.23	73.62	73.99	74.63	75.33	75.94	76.94	78.39	79.31	79.83	80.00
100		91.43	92.80	93.23	93.62	93.99	94.63	95.33	95.94	96.94	98.39	99.31	99.83	100.00
125		116.43	117.80	118.23	118.62	118.99	119.63	120.33	120.94	121.94	123.39	124.31	124.83	125.00



		f_{max}
32	1.36	0.28
40	1.40	0.31
50	1.43	0.33
63	1.47	0.37
80	1.52	0.42
100	1.57	0.47
125	1.62	0.52



S



10.0



S

a_p	1.0	5.0	10.0
	0.35	0.21	0.15



O

	RPMX	APMX/I
50	4.1°	7.05/100
63	2.7°	4.6/100
80	1.8°	3/100
100	1.7°	2.85/100
125	0.7°	1.1/100

R

	RPMX	APMX/I
50	3.8°	6.2/95
63	2.5°	4.25/100
80	1.7°	2.85/100
100	1.6°	2.65/100
125	0.3°	0.4/100



O

	DMIN	DMAX		
50	78.0	100.0	4.5	4.5
63	105.0	126.0	4.5	4.5
80	138.0	160.0	4.5	4.5
100	178.0	200.0	4.5	4.5
125	229.0	250.0	4.0	4.5

R

	DMIN	DMAX		
50	78.0	100.0	4.5	4.5
63	105.0	126.0	4.5	4.5
80	138.0	160.0	4.5	4.5
100	178.0	200.0	4.5	4.5
125	230.0	250.0	4.0	4.5



2.4

2.3



3

5

10

15

20

30

40

50

60

80

100

32		0.620	0.800	1.131	1.386	1.600	1.960	2.263	2.530	2.771	3.200	3.578
40		0.693	0.894	1.265	1.549	1.789	2.191	2.530	2.828	3.098	3.578	4.000
50		0.775	1.000	1.414	1.732	2.000	2.449	2.828	3.162	3.464	4.000	4.472
63		0.869	1.122	1.587	1.944	2.245	2.750	3.175	3.550	3.888	4.490	5.020
80		0.980	1.265	1.789	2.191	2.530	3.098	3.578	4.000	4.382	5.060	5.657
100		1.095	1.414	2.000	2.449	2.828	3.464	4.000	4.472	4.899	5.657	6.325
125		1.225	1.581	2.236	2.739	3.162	3.873	4.472	5.000	5.477	6.325	7.071



3

5

10

15

20

30

40

50

60

80

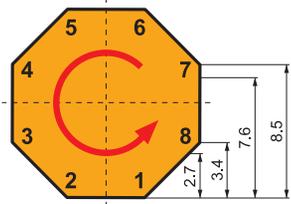
100

6.0		0.379	0.490	0.693	0.849	0.980	1.200	1.386	1.549	1.697	1.960	2.191
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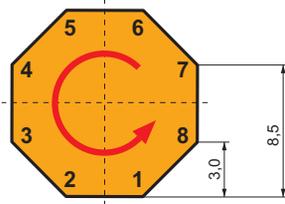


ODKT 05

ODMT 05

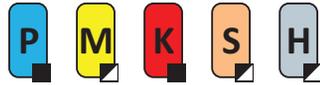


-> 2.7	8
-> 3.4	7
-> 7.6	4
-> 8.5	2



-> 3.0	8
-> 8.5	4

SOD06D



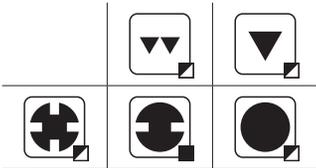
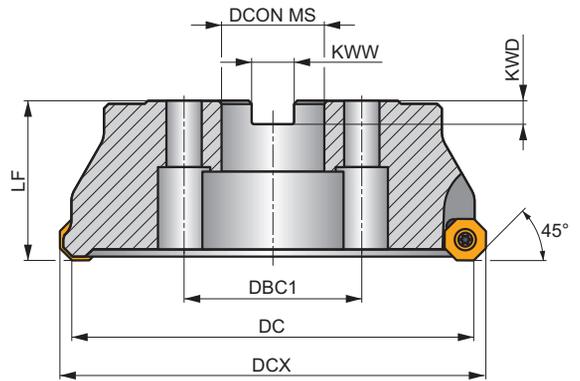
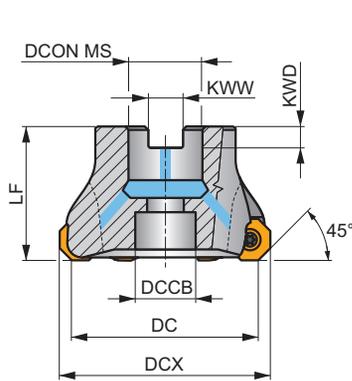
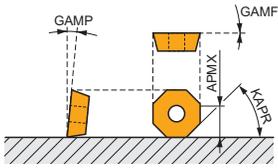
PRAMET



Fresa universale per spianatura con design positivo e passaggio interno del refrigerante

Highly productive universal face mill utilising single sided positive inserts with APMX of up to 3.1 (8.6) mm. Unique insert seat fits OD.. 06 and RP.. 15 style inserts, suited for face milling and chamfering. Arbor style only with differential tooth pitch. Body treated for longer tool life.

KAPR	45°
APMX	3.1 (8.6) mm



0.12 - 0.22



Codice prodotto	DC (mm)	DCX (mm)	LF (mm)	DCON MS (mm)	DCCB (mm)	DBC1 (mm)	KWW (mm)	KWD (mm)	GAMF (°)	GAMP (°)						
63A05R-S450D06D	63	72.5	40	22	18	-	10.4	6.3	0	5	5	✓	8800	✓	0.55	GI059 FA071
80A06R-S450D06D	80	89.5	50	27	20	-	12.4	7	0	5	6	✓	7800	✓	1.19	GI059 FA071
100A07R-S450D06D	100	109.5	50	32	27	-	14.4	8	0	5	7	✓	7000	✓	2.07	GI059 FA071
125A08R-S450D06D	125	134.5	63	40	33	-	16.4	9	0	5	8	✓	6300	✓	4.05	GI059 FA071
160C09R-S450D06D	160	169.5	63	40	56	66.7	16.4	9	0	5	9	✓	5500	-	6.49	GI059 FA071

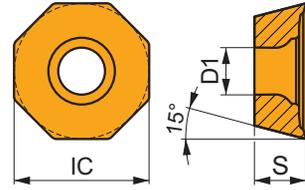
	GI059		OD.. 0605ZZ..		RP.. 1505MO..
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	FA071		US 4511-T20		5.0		M 4.5		11		SDR T20-T
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ODMT 06

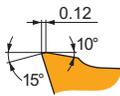


	IC (mm)	D1 (mm)	S (mm)
0605	15.875	5.50	5.56



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



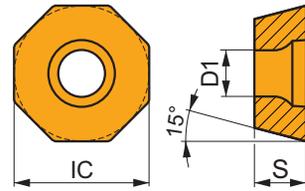
ZZN design leggermente positivo per inserto di spianatura a 45°, per lavorazioni medie.

ODMT 0605ZZN:M5315	☛	–	☑	255	0.24	3.0	–	–	–	■	240	0.24	3.0	–	–	–	–	–	–
ODMT 0605ZZN:M8330	☛	–	■	200	0.24	3.0	–	–	–	■	190	0.24	3.0	–	–	–	–	–	–
ODMT 0605ZZN:M8340	☛	–	■	185	0.24	3.0	–	–	–	☑	175	0.24	3.0	–	–	–	–	–	–
ODMT 0605ZZN:M9325	☛	–	■	245	0.24	3.0	–	–	–	■	230	0.24	3.0	–	–	–	–	–	–

ODEW 06

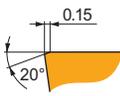


	IC (mm)	D1 (mm)	S (mm)
0605	15.875	5.50	5.56



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



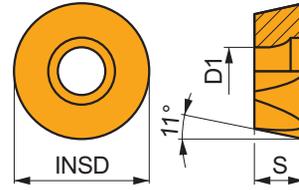
ZZN design con angolo di spoglia superiore del tagliente a zero gradi per inserti adatti alla spianatura a 45°, per lavorazioni medie.

ODEW 0605ZZN:M8330	☛	–	☑	210	0.26	2.5	–	–	–	■	195	0.26	2.5	–	–	–	–	–	–
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RPET 15

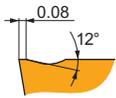


	INSD	D1	S
	(mm)	(mm)	(mm)
1505	15.785	5.50	5.56



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



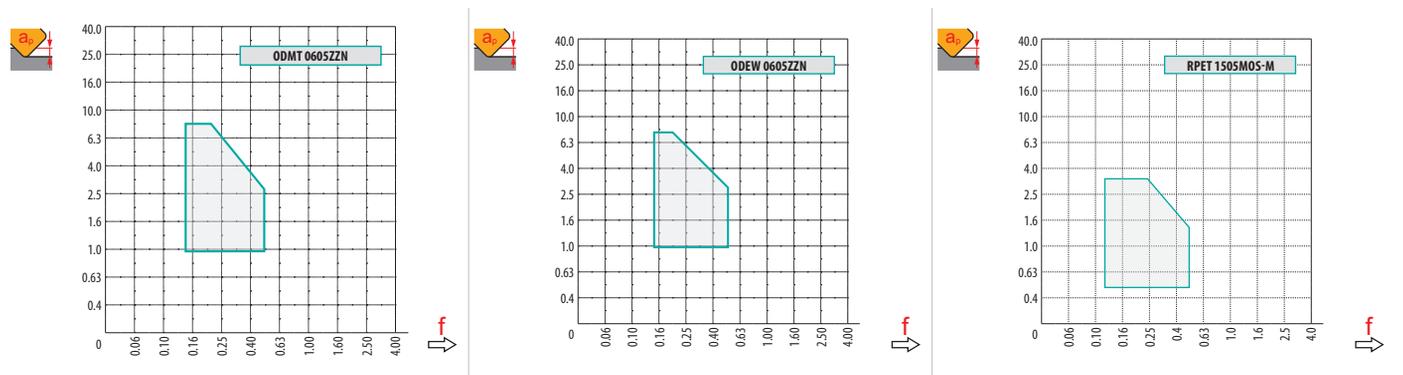
M geometria con design positivo adatta per operazioni di copiatura e contornatura, per lavorazioni da leggere a sgrossature pesanti.

RPET 1505MOS-M:M8330	✳	-	■	230	0.40	1.0	▣	135	0.36	1.0	▢	215	0.40	1.0	■	55	0.28	0.8	■	-	-	-
-----------------------------	---	---	---	-----	------	-----	---	-----	------	-----	---	-----	------	-----	---	----	------	-----	---	---	---	---



a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

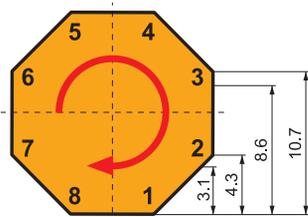
	ODMT 06	ODEW 06	RPET 15-M
	-	-	7.89
	1.73	5.92	-



	R									
		0.00	0.50	0.75	1.25	1.50	2.00	2.50	3.00	4.00
63		56.63	62.17	63.36	65.18	65.91	67.16	68.19	69.05	70.41
80		73.63	79.17	80.36	82.18	82.91	84.16	85.19	86.05	87.41
100		93.63	99.17	100.36	102.18	102.91	104.16	105.19	106.05	107.41
125		118.63	124.17	125.36	127.18	127.91	129.16	130.19	131.05	132.41
160		153.63	159.17	160.36	162.18	162.91	164.16	165.19	166.05	167.41

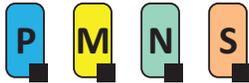


		f_{max}
63	1.49	0.78
80	1.54	0.88
100	1.59	0.98
125	1.64	1.10
160	1.70	1.24



→ 3.1	8
→ 4.3	7
→ 8.6	4
→ 10.7	2

SOE06Z



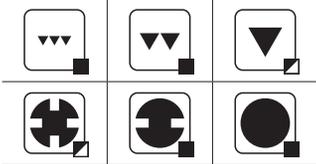
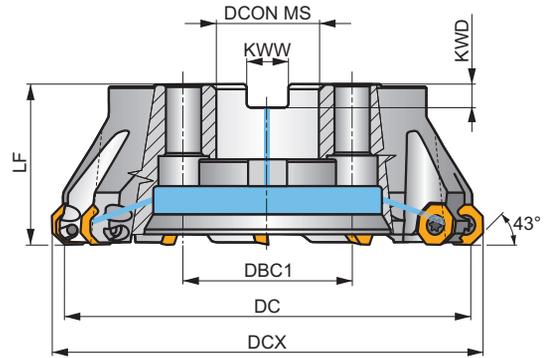
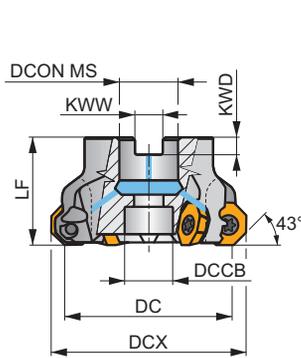
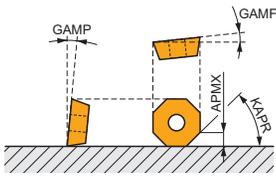
PRAMET



Fresa per spianatura universale con geometria positiva e refrigerante interno

Fresa per spianatura universale ad elevata produttività che utilizza inserti positivi OE..06 - RE.. 16 con APMX di 4 mm . Sede unica per inserti OE ..06, RE .. 16, XE .. 06, adatta per un'ampia gamma di applicazioni. Attacco a manicotto, con passo differenziato dei taglienti. Corpo trattato per una maggiore durata dell'utensile.

KAPR	43°
APMX	3.3 (9.9) mm



0.06 - 0.20



Codice prodotto	DC	DCX	LF	DCON MS	DCCB	DBC1	KWW	KWD	GAMP	GAMP								
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)								
50A04R-S450E06Z-C	50	60.2	40	22	18	-	10.4	6.3	6	10	4	✓	10700	✓	0.47	GI283	FA053	-
50A05R-S450E06Z-C	50	60	40	22	18	-	10.4	6.3	1	10	5	✓	10700	✓	0.47	GI283	FA053	-
56A05R-S450E06Z-C	56	66	40	22	18	-	10.4	6.3	6	10	5	✓	10100	✓	0.52	GI283	FA053	-
63A04R-S450E06Z-C	63	73.2	40	22	18	-	10.4	6.3	6	10	4	✓	9600	✓	0.58	GI283	FA053	-
63A06R-S450E06Z-C	63	73	40	22	18	-	10.4	6.3	1	10	6	✓	9600	✓	0.60	GI283	FA053	-
70A06R-S450E06Z-C	70	80	40	22	18	-	10.4	6.3	6	10	6	✓	9100	✓	0.69	GI283	FA053	-
80A05R-S450E06Z-C	80	90.2	50	27	38	-	12.4	7	6	10	5	✓	8500	✓	1.02	GI283	FA051	AC001
80A06R-S450E06Z-C	80	90.2	50	27	38	-	12.4	7	6	10	6	✓	8500	✓	1.03	GI283	FA051	AC001
90A07R-S450E06Z-C	90	100	50	32	45	-	14.4	8	6	10	7	✓	8000	✓	1.59	GI283	FA051	AC002
100A06R-S450E06Z-C	100	110.2	50	32	45	-	14.4	8	6	10	6	✓	7600	✓	1.85	GI283	FA051	AC002
100A08R-S450E06Z-C	100	109.9	50	32	45	-	14.4	8	1	10	8	✓	7600	✓	1.87	GI283	FA051	AC002
125A07R-S450E06Z-C	125	135.2	63	40	56	-	16.4	9	6	10	7	✓	6800	✓	3.31	GI283	FA051	AC003
125A09R-S450E06Z-C	125	134.9	63	40	56	-	16.4	9	1	10	9	✓	6800	✓	3.35	GI283	FA051	AC003
160C09R-S450E06Z-C	160	170.2	63	40	-	66.7	16.4	9	6	10	9	✓	6000	✓	6.08	GI283	FA056	-
160C12R-S450E06Z-C	160	169.9	63	40	-	66.7	16.4	9	1	10	12	✓	6000	✓	7.06	GI283	FA056	-
200C11R-S450E06Z-C	200	210.2	63	60	-	101.6	25.7	14	6	10	11	✓	5300	✓	10.80	GI283	FA057	-
200C14R-S450E06Z-C	200	209.9	63	60	-	101.6	25.7	14	1	10	14	✓	5300	✓	11.15	GI283	FA057	-

GI283	OEHT 0604AE..	REHT 1604M0..	XEHT 0604AE..

FA051	US 5011-T20P	5.0	M 5	11	SDR T20P-T	-	FA053	US 5011-T20P	5.0	M 5	11	SDR T20P-T	HS 1030C

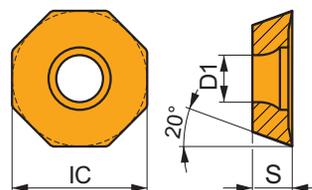
FA056	US 5011-T20P	5.0	M 5	11	SDR T20P-T	HS 1240C	CAC 160C	HSD 0825C	HXK 5
FA057	US 5011-T20P	5.0	M 5	11	SDR T20P-T	HS 1655C	CAC 200C	HSD 1025C	HXK 7

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

OEHT 06



	IC	D1	S
	(mm)	(mm)	(mm)
0604	16.050	5.50	4.76



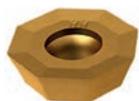
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)	(m/min)	(mm/tooth)	(mm)



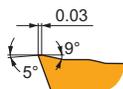
MF geometria per inserto di spianatura a 45°, con design positivo affilato per lavorazioni da leggere a medie, potenzialmente anche per la finitura.

OEHT 0604AEER-MF:M6330	☺	-	255	0.12	2.2	■	180	0.11	2.2	-	-	-	-	-	75	0.10	1.8	-	-	-	
OEHT 0604AEER-MF:M8330	☺	-	295	0.12	2.2	■	175	0.11	2.2	-	-	-	885	0.14	2.2	70	0.10	1.8	-	-	-
OEHT 0604AEER-MF:M8340	☺	-	275	0.12	2.2	■	165	0.11	2.2	-	-	-	-	-	65	0.10	1.8	-	-	-	



MM geometria per inserto di spianatura a 45°, con design positivo affilato per lavorazioni da leggere a medie.

OEHT 0604AEER-MM:M6330	☺	-	245	0.16	2.2	■	170	0.14	2.2	-	-	-	-	-	70	0.11	1.8	-	-	-	
OEHT 0604AEER-MM:M8330	☺	-	280	0.16	2.2	■	165	0.14	2.2	-	-	-	840	0.19	2.2	70	0.11	1.8	-	-	-
OEHT 0604AEER-MM:M8340	☺	-	255	0.16	2.2	■	150	0.14	2.2	-	-	-	-	-	60	0.11	1.8	-	-	-	
OEHT 0604AEER-MM:M8345	☺	-	205	0.16	2.2	■	120	0.14	2.2	-	-	-	-	-	50	0.11	1.8	-	-	-	
OEHT 0604AEER-MM:M9340	☺	-	320	0.16	2.2	■	190	0.14	2.2	-	-	-	-	-	80	0.11	1.8	-	-	-	



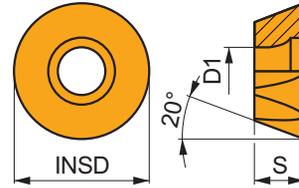
M geometria per inserto di spianatura a 45°, con design lievemente positivo per lavorazioni da leggere a medie.

OEHT 0604AESR-M:M6330	☺	-	210	0.24	3.2	■	150	0.22	3.2	-	-	-	-	-	60	0.17	2.6	-	-	-
OEHT 0604AESR-M:M8310	☺	-	265	0.24	3.2	■	135	0.22	3.2	-	-	-	-	-	-	-	-	-	-	-
OEHT 0604AESR-M:M8330	☺	-	245	0.24	3.2	■	145	0.22	3.2	-	-	-	-	-	60	0.17	2.6	-	-	-
OEHT 0604AESR-M:M8340	☺	-	220	0.24	3.2	■	130	0.22	3.2	-	-	-	-	-	55	0.17	2.6	-	-	-
OEHT 0604AESR-M:M9325	☺	-	295	0.24	3.2	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-

REHT 16

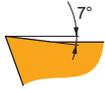


	INSD (mm)	D1 (mm)	S (mm)
1604	16.000	5.50	4.76



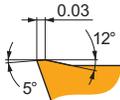
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



MM geometria con design lievemente positivo, adatta per operazioni di copiatura e contornatura, per lavorazioni da leggere a medie.

REHT 1604MOEN-MM:M6330	☼	–	255	0.20	2.0	180	0.18	2.0	–	–	–	–	–	–	–	75	0.14	1.6	–	–	–
REHT 1604MOEN-MM:M8340	☼	–	270	0.20	2.0	160	0.18	2.0	–	–	–	–	–	–	–	65	0.14	1.6	–	–	–
REHT 1604MOEN-MM:M9340	☼	–	330	0.20	2.0	195	0.18	2.0	–	–	–	–	–	–	–	80	0.14	1.6	–	–	–



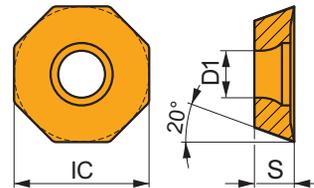
M geometria con design positivo adatta per operazioni di copiatura e contornatura, per lavorazioni medie.

REHT 1604MOSN-M:M8310	☼	–	285	0.30	2.0	145	0.27	2.0	–	–	–	–	–	–	–	–	–	–	–	–	–
REHT 1604MOSN-M:M8330	☼	–	270	0.30	2.0	160	0.27	2.0	–	–	–	–	–	–	–	65	0.21	1.6	–	–	–
REHT 1604MOSN-M:M8340	☼	–	245	0.30	2.0	145	0.27	2.0	–	–	–	–	–	–	–	60	0.21	1.6	–	–	–

OEHT 06-FA

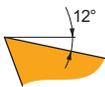


	IC (mm)	D1 (mm)	S (mm)
0604	16.050	5.50	4.76



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc (m/min)	f (mm/tooth)	ap (mm)															



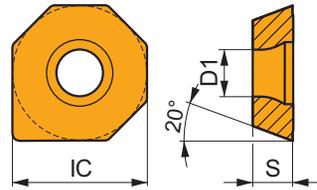
FA geometria per inserto di spianatura a 45°, con design altamente positivo per lavorazioni da leggere a medie.

OEHT 0604AEFR-FA:HF7	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	330	0.18	2.0	–	–	–
OEHT 0604AEFR-FA:M0315	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	765	0.18	2.0	–	–	–

XEHT 06

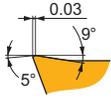


	IC	D1	S
	(mm)	(mm)	(mm)
0604	16.050	5.50	4.76



Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Codice prodotto	RE (mm)	P			M			K			N			S			H		
		vc	f	ap															
		(m/min)	(mm/tooth)	(mm)															



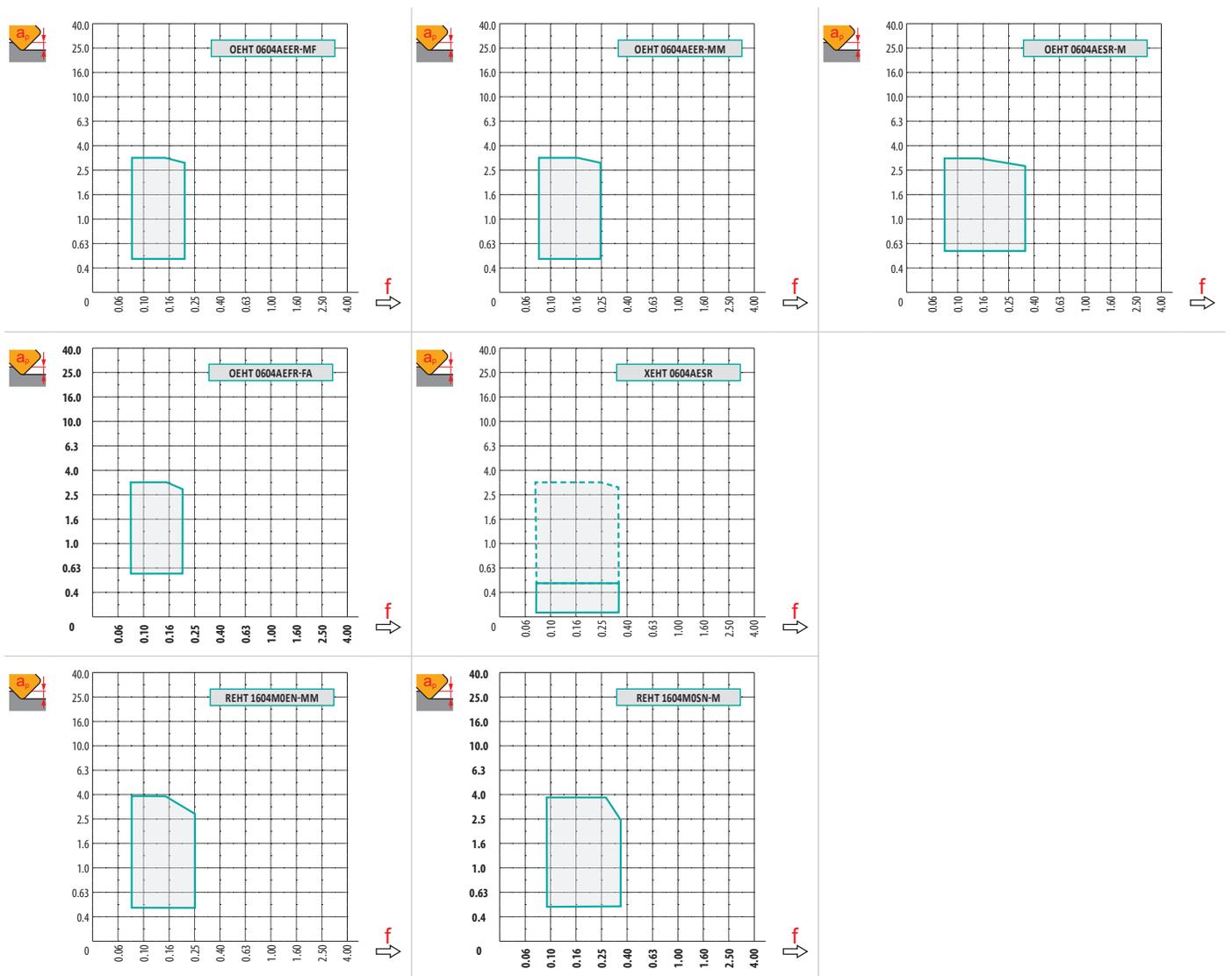
W design Wiper leggermente positivo per una migliore finitura superficiale.

XEHT 0604AESR:M8310	●	–	■	265	0.24	3.2	▣	135	0.22	3.2	■	–	–	–	■	–	–	–	■	–	–	–
XEHT 0604AESR:M8330	✱	–	■	245	0.24	3.2	▣	145	0.22	3.2	■	–	–	–	■	–	–	–	■	–	–	–

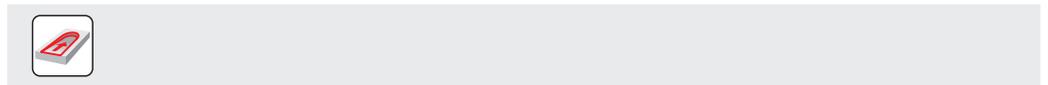
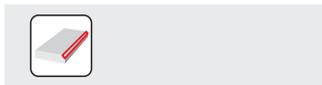


a_e / DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	OEHT 06-MF	OEHT 06-MM	OEHT 06-M	OEHT 06-FA	XEHT 06	REHT 16-MM	REHT 16-M
	-	-	-	-	-	8.00	8.00
	1.36	1.36	1.36	1.36	9.91	-	-



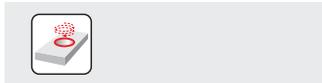
	R									
		0.00	0.50	0.75	1.25	1.50	2.00	2.50	3.00	4.00
50		43.90	49.47	50.66	52.49	53.23	54.48	55.52	56.39	57.76
56		49.80	55.37	56.56	58.39	59.13	60.38	61.42	62.29	63.66
63		56.90	62.47	63.66	65.49	66.23	67.48	68.52	69.39	70.76
70		63.80	69.37	70.56	72.39	73.13	74.38	75.42	76.29	77.66
80		73.90	79.47	80.66	82.49	83.23	84.48	85.52	86.39	87.76
90		83.80	89.37	90.56	92.39	93.13	94.38	95.42	96.29	97.66
100		93.90	99.47	100.66	102.49	103.23	104.48	105.52	106.39	107.76
125		118.90	124.47	125.66	127.49	128.23	129.48	130.52	131.39	132.76
160		153.90	159.47	160.66	162.49	163.23	164.48	165.52	166.39	167.76
200		193.90	199.47	200.66	202.49	203.23	204.48	205.52	206.39	207.76



		f_{max}
50	1.43	0.33
56	1.45	0.35
63	1.47	0.37
70	1.49	0.39
80	1.52	0.42
90	1.55	0.44
100	1.57	0.47
125	1.62	0.52
160	1.68	0.59
200	1.73	0.66

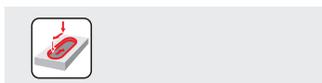
O		
	RPMX	APMX/I
50	4.9°	8.4/100
56	4.2°	7.2/100
63	3.6°	6.1/100
70	3.1°	5.3/100
80	2.6°	4.4/100
90	2.3°	3.9/100
100	2.0°	3.3/100
125	1.5°	2.5/100

R		
	RPMX	APMX/I
59.9	4.6°	7.9/100
65.8	4.0°	6.8/100
72.9	3.0°	5.1/100
79.8	2.7°	4.6/100
89.9	2.2°	3.7/100
99.8	2.0°	3.3/100
109.9	1.8°	3.0/100
134.9	1.3°	2.1/100



O				
	DMIN	DMAX		
50	91.5	120.0	5.9	5.9
56	103.2	131.5	5.9	5.9
63	117.4	146.0	5.9	5.9
70	131.2	159.5	5.9	5.9
80	151.4	180.0	5.9	5.9
90	171.2	199.5	5.9	5.9
100	191.4	220.0	5.9	5.9
125	241.3	270.0	5.9	5.9

R				
	DMIN	DMAX		
59.9	91.5	119.5	5.9	5.9
65.8	103.5	131.0	5.9	5.9
72.9	118.0	145.5	5.9	5.9
79.8	131.5	159.0	5.9	5.9
89.9	151.5	179.5	5.9	5.9
99.8	171.5	199.0	5.9	5.9
109.9	191.5	219.5	5.9	5.9
134.9	241.5	269.5	5.9	5.9



	O	R
	3.1	3.0

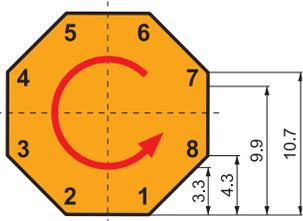


R

	μm	3	5	10	15	20	30	40	50	60	80	100
59.9		0.848	1.095	1.548	1.896	2.189	2.681	3.096	3.461	3.792	4.378	4.895
65.8		0.889	1.147	1.622	1.987	2.294	2.810	3.245	3.628	3.974	4.589	5.130
72.9		0.935	1.207	1.708	2.091	2.415	2.958	3.415	3.818	4.183	4.830	5.400
79.8		0.979	1.263	1.787	2.188	2.527	3.095	3.573	3.995	4.376	5.053	5.650
89.9		1.039	1.341	1.896	2.322	2.682	3.285	3.793	4.240	4.645	5.364	5.997
99.8		1.094	1.413	1.998	2.447	2.826	3.461	3.996	4.468	4.894	5.651	6.318

	μm	3	5	10	15	20	30	40	50	60	80	100
8.0		0.438	0.566	0.800	0.980	1.131	1.386	1.600	1.789	1.960	2.263	2.530

i



-> 3.3	8
-> 4.3	7
-> 9.9	4
-> 10.7	2

