



# SHN06C



PRAMET

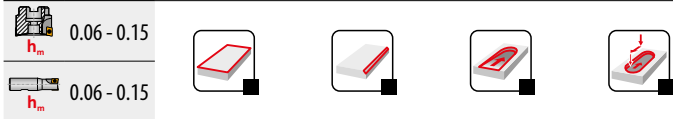
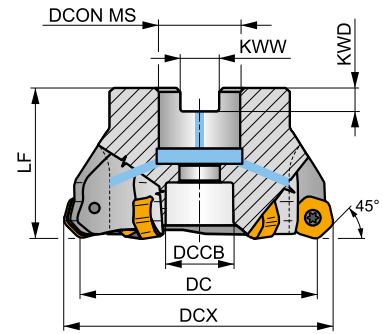
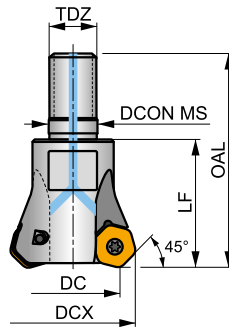
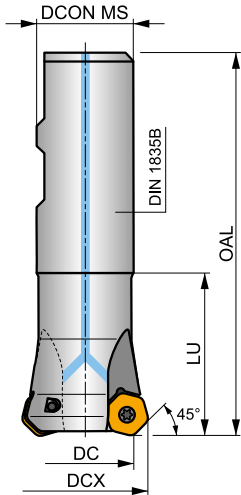
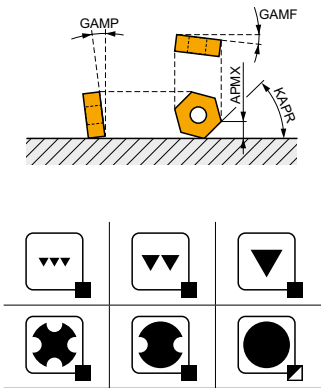
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## ECON HN06 45° Face Mill with Double Negative Design and Internal Coolant

Highly productive 45° face mill utilising double sided HN..06 style inserts with APMX of 3 mm. Roughing, finishing and chamfering. Economical insert with 12 cutting edges. Differential tooth pitch. Weldon, modular and arbor style available in range from Ø25 up to Ø125 mm. Body treated for longer tool life.

KAPR	45°
APMX	3.0 mm



Product	DC	DCX	OAL	DCON MS	DCCB	LU	LF	TDZ	KWW	KWD	GAMF	GAMP	max.		kg	FA				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]								
25N2R042B25-SHN06C-C	25	32.2	99	25	-	42	-	-	-	-	-7	-7	2	-	17400	✓	0.36	GI204	FA010	-
32N3R042B32-SHN06C-C	32	39.3	103	32	-	42	-	-	-	-	-7	-7	3	-	15400	✓	0.59	GI204	FA010	-
25N2R033M12-SHN06C-C	25	32.2	56	12.5	-	-	33	M12	-	-	-7	-7	2	-	-	✓	0.11	GI204	FA010	-
32N3R043M16-SHN06C-C	32	39.3	66	17	-	-	43	M16	-	-	-7	-7	3	-	-	✓	0.26	GI204	FA010	-
40N4R043M16-SHN06C-C	40	47.3	66	17	-	-	43	M16	-	-	-7	-7	4	✓	-	✓	0.28	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	✓	0.62	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	✓	0.56	GI204	FA013	-
63A08R-S45HN06C-C	63	70.3	-	22	18	-	40	-	10.4	6.3	-7	-7	8	✓	11000	✓	0.69	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	✓	0.19	GI204	FA011	AC001
100A08R-S45HN06C-C	100	107.1	-	32	45	-	50	-	14.4	8	-7	-7	8	✓	8700	✓	2.07	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	✓	3.62	GI204	FA011	AC003
125A16R-S45HN06C-C	125	132.2	-	40	56	-	63	-	16.4	9	-7	-7	16	✓	7800	✓	3.93	GI204	FA011	AC003

GI204	HNGX 0604AN..	XNGX 0604AN..

FA	US	Nm	M	mm	mm	mm	mm
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



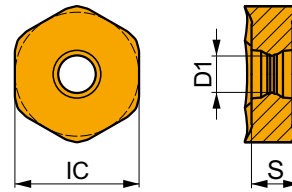
FA013	US 3007-T09P	2.0	M3	7.3	D-T07P/T09P	FG-15	-	HS 1030C

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

## HNGX 06

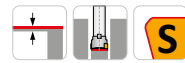
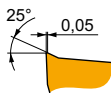


	IC	D1	S
	[mm]	[mm]	[mm]
0604	10.500	3.70	4.76



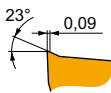
Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

Product	RE	P			M			K			N			S			H		
		vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	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 geometry with highly positive design for light machining.

Product	RE	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap
<b>HNGX 0604ANSN-F</b>	8215	-	315	0.11	1.7	185	0.10	1.7	-	-	-	-	-	-	-	-	-	-	-
	M6330	-	265	0.11	1.7	185	0.10	1.7	-	-	-	-	-	-	-	-	-	-	-
	M8310	-	345	0.11	1.7	175	0.10	1.7	-	-	-	-	-	-	-	-	-	-	-
	M8330	-	305	0.11	1.7	180	0.10	1.7	-	-	-	-	-	-	-	-	-	-	-
	M8340	-	285	0.11	1.7	170	0.10	1.7	-	-	-	-	-	-	-	-	-	-	-
	M9340	-	365	0.11	1.7	215	0.10	1.7	-	-	-	-	-	-	-	-	-	-	-



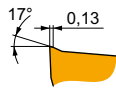
M geometry with highly positive design for medium machining.

Product	RE	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap
<b>HNGX 0604ANSN-M</b>	8215	-	300	0.13	2.0	180	0.13	2.0	285	0.13	2.0	-	-	-	-	-	-	-	-
	M5315	-	425	0.13	2.0	-	-	-	400	0.13	2.0	-	-	-	-	-	-	-	-
	M6330	-	255	0.13	2.0	180	0.13	2.0	-	-	-	-	-	-	-	-	-	-	-
	M8310	-	325	0.13	2.0	165	0.13	2.0	305	0.13	2.0	-	-	-	-	-	-	-	-
	M8330	-	295	0.13	2.0	175	0.13	2.0	280	0.13	2.0	-	-	-	-	-	-	-	-
	M8340	-	265	0.13	2.0	155	0.13	2.0	250	0.13	2.0	-	-	-	-	-	-	-	-
	M9315	-	410	0.13	2.0	-	-	-	385	0.13	2.0	-	-	-	-	-	-	-	-
	M9325	-	375	0.13	2.0	-	-	-	355	0.13	2.0	-	-	-	-	-	-	-	-
	M9340	-	345	0.13	2.0	205	0.13	2.0	-	-	-	-	-	-	-	-	-	-	-



Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

Product	RE [mm]	P			M			K			N			S			H		
		vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]



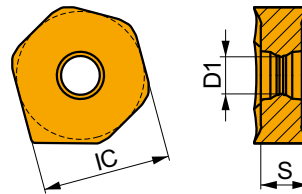
R geometry with highly positive design for medium to heavy machining.

<b>HNGX 0604ANSN-R</b>	<b>8215</b>	—	■	280	0.18	1.8	☑	165	0.18	1.8	■	265	0.18	1.8	—	—	—	—	—	—	☑	55	0.15	1.0
	<b>M5315</b>	—	☑	370	0.18	1.8	—	—	—	—	■	350	0.18	1.8	—	—	—	—	—	—	☑	70	0.15	1.0
	<b>M8310</b>	—	■	300	0.18	1.8	☑	150	0.18	1.8	■	285	0.18	1.8	—	—	—	—	—	—	☑	60	0.15	1.0
	<b>M8330</b>	—	■	275	0.18	1.8	☑	165	0.18	1.8	■	260	0.18	1.8	—	—	—	—	—	—	☑	55	0.15	1.0
	<b>M8340</b>	—	■	250	0.18	1.8	☑	150	0.18	1.8	☑	235	0.18	1.8	—	—	—	—	—	—	—	—	—	—
	<b>M9325</b>	—	■	345	0.18	1.8	—	—	—	—	■	325	0.18	1.8	—	—	—	—	—	—	☑	65	0.15	1.0

## XNGX 06

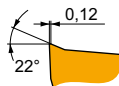


	IC [mm]	D1 [mm]	S [mm]
0604	10.500	3.70	4.76



Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

Product	RE [mm]	P			M			K			N			S			H		
		vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]



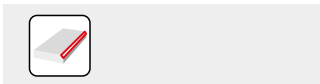
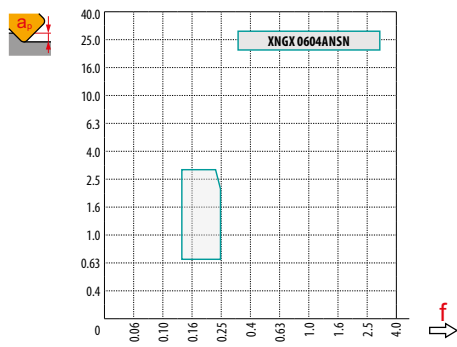
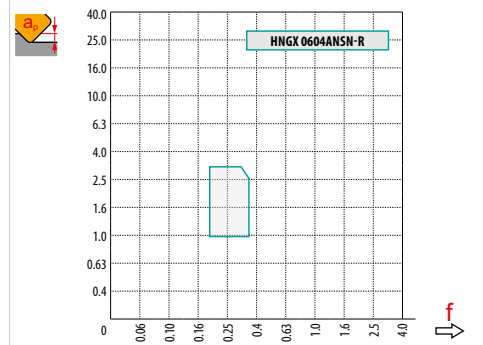
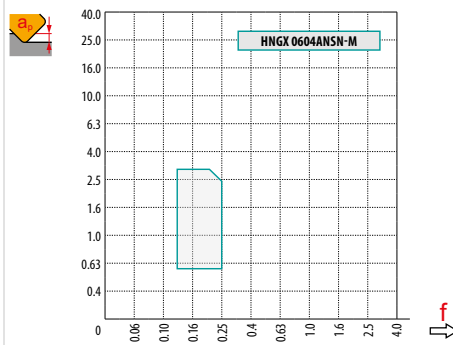
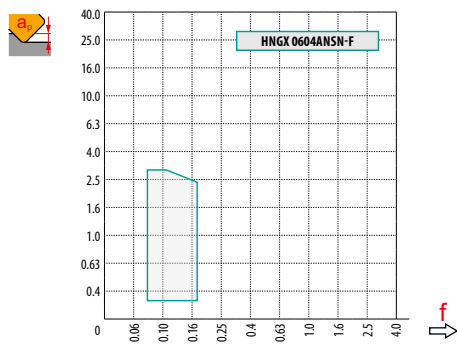
Wiper design for improved surface finish.

<b>XNGX 0604ANSN</b>	<b>8215</b>	—	■	290	0.13	1.8	☑	170	0.12	1.8	■	275	0.13	1.8	—	—	—	—	—	—	—	—	—	—
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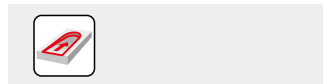


$a_s$ / DC	5%	10%	15%	20%	25%	30%	40%	50%	60%	70%	75%	80%	90%	100%
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

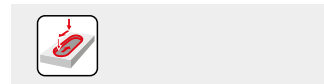
	HNGX 06-F	HNGX 06-M	HNGX 06-R	XNGX 06
	-	-	-	-
	1.12	0.80	0.80	4.15



DC	X.V	$f_{max}$
25	1.31	0.24
32	1.36	0.28
40	1.40	0.31
50	1.45	0.35
63	1.49	0.39
80	1.54	0.44
100	1.59	0.49
125	1.64	0.55



DC	RPMX	APMX/I
25	2.7	3.0/65
32	1.9	3.0/89
40	1.5	2.5/100
50	1.1	1.9/100
63	0.9	1.4/100
80	0.6	1.0/100
100	0.5	0.8/100
125	0.4	0.6/100



	0.9
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