

SSN11 MILLING CUTTER TECHNICAL INFORMATION



High-feed milling cutter for bigger diameters utilizing double-sided SNXG 11 inserts with eight cutting edges and APMX of 1.7 mm. Internal coolant. Suitable for a wide range of applications. Available in cylindrical, modular and arbor style. Body treated for longer tool life.

Product Feature



Finishing – very good surface quality - Possible use



Medium machining – good surface quality - Primary use



Roughing – unlimited surface roughness - Primary use



Suitable for very unstable working conditions - Possible use



Suitable for unstable working conditions - Primary use



Suitable for stable working conditions - Primary use



S – Screw clamp



Threaded coupling



Right Hand Rotation / Cutting

Product Operation



Face Milling - Primary use



Deep Shoulder Milling - Primary use



Plunge Milling - Primary use



Shallow Slot Milling - Possible use



Contoured Surfaces (Copy Milling) - Primary use



Ramping - Possible use



Progressive Plunging - Possible use



Helical Interpolation - Possible use

SSN11



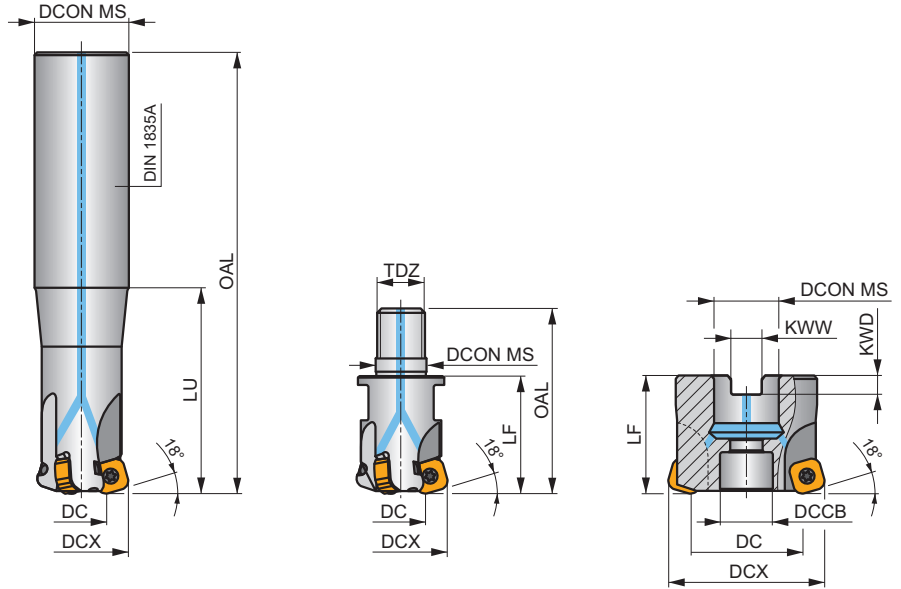
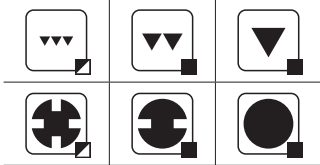
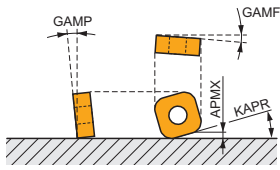
PRAMET



High Feed Milling Cutter for SN.. 11 inserts with Internal Coolant

High-feed milling cutter for bigger diameters utilizing double-sided SNXG 11 inserts with eight cutting edges and APMX of 1.7 mm. Internal coolant. Suitable for a wide range of applications. Available in cylindrical, modular and arbor style. Body treated for longer tool life.

KAPR	18°
APMX	1.7 mm



Product	DCX	DC	OAL	DCON MS	DCCB	LU	LF	TDZ	KWW	KWD	GAMP	GAMP	max.		kg	G1339	C0314	C0316	C0318	C0320	C0322	C0324	AC001	AC002	AC003	
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)	max.	max.												
32E3R070A32-SSN11-C	32	18.3	150	32	-	70	-	-	-	-	-11.5	-10	3	-	17500	✓	0.69	G1339	C0314	-	-	-	-	-	-	-
32E3R120A32-SSN11-C	32	18.3	200	32	-	120	-	-	-	-	-11.5	-10	3	-	17500	✓	0.89	G1339	C0314	-	-	-	-	-	-	-
35E3R050A32-SSN11-C	35	21.2	200	32	-	50	-	-	-	-	-11	-10	3	-	16800	✓	1.08	G1339	C0314	-	-	-	-	-	-	-
32E3R040M16-SSN11-C	32	18.3	63	17	-	40	M16	-	-	-	-11.5	-10	3	-	17500	✓	0.19	G1339	C0314	-	-	-	-	-	-	-
35E3R040M16-SSN11-C	35	21.2	63	17	-	40	M16	-	-	-	-11	-10	3	-	16800	✓	0.19	G1339	C0314	-	-	-	-	-	-	-
40E4R043M16-SSN11-C	40	26.2	66	17	-	43	M16	-	-	-	-10.5	-10	4	✓	15700	✓	0.26	G1339	C0314	-	-	-	-	-	-	-
40A04R-SMOSN11-C	40	26.2	-	16	12.4	-	40	-	8.4	5.6	-10.5	-10	4	✓	15700	✓	0.19	G1339	C0316	-	-	-	-	-	-	-
42A04R-SMOSN11-C	42	28.2	-	16	14.1	-	40	-	8.4	5.6	-10.5	-10	4	✓	15300	✓	0.21	G1339	C0318	-	-	-	-	-	-	-
50A05R-SMOSN11-C	50	36.1	-	22	18.1	-	40	-	10.4	6.3	-10	-10	5	✓	14000	✓	0.31	G1339	C0320	-	-	-	-	-	-	-
50A06R-SMOSN11-C	50	36.1	-	22	18.1	-	40	-	10.4	6.3	-10	-10	6	✓	14000	✓	0.43	G1339	C0320	-	-	-	-	-	-	-
52A05R-SMOSN11-C	52	38.1	-	22	18.1	-	40	-	10.4	6.3	-10	-10	5	✓	13800	✓	0.47	G1339	C0320	-	-	-	-	-	-	-
52A06R-SMOSN11-C	52	38.1	-	22	18.1	-	40	-	10.4	6.3	-10	-10	6	✓	13800	✓	0.46	G1339	C0320	-	-	-	-	-	-	-
63A06R-SMOSN11-C	63	49.1	-	22	18.1	-	40	-	10.4	6.3	-10	-10	6	✓	12500	✓	0.46	G1339	C0320	-	-	-	-	-	-	-
63A08R-SMOSN11-C	63	49.1	-	22	18.1	-	40	-	10.4	6.3	-10	-10	8	✓	12500	✓	0.60	G1339	C0320	-	-	-	-	-	-	-
66A06R-SMOSN11-C	66	52.1	-	27	18.1	-	50	-	12.4	7	-10	-10	6	✓	12200	✓	0.88	G1339	C0322	-	-	-	-	-	-	-
66A08R-SMOSN11-C	66	52.1	-	27	18.1	-	50	-	12.4	7	-10	-10	8	✓	12200	✓	0.88	G1339	C0322	-	-	-	-	-	-	-
80A07R-SMOSN11-C	80	66.1	-	27	38.1	-	50	-	12.4	7	-10	-10	7	✓	11100	✓	0.95	G1339	C0324	AC001	-	-	-	-	-	-
80A09R-SMOSN11-C	80	66.1	-	27	38.1	-	50	-	12.4	7	-10	-10	9	✓	11100	✓	1.03	G1339	C0324	AC001	-	-	-	-	-	-
100A08R-SMOSN11-C	100	86.1	-	32	45.1	-	50	-	14.4	8	-10	-10	8	✓	9900	✓	1.83	G1339	C0324	AC002	-	-	-	-	-	-
115A08R-SMOSN11-C	115	101.1	-	32	45.1	-	50	-	14.4	8	-10	-10	8	✓	9200	✓	2.30	G1339	C0324	AC002	-	-	-	-	-	-
125A08R-SMOSN11-C	125	111.1	-	40	56.1	-	63	-	16.4	9	-10	-10	8	✓	8900	✓	3.34	G1339	C0324	AC003	-	-	-	-	-	-

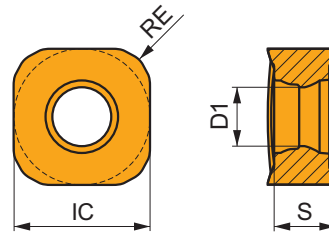
C0314	US 44012-T15P	3.5	M 4	12	–	–	–	Flag T15P	–
C0316	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	–	HCS 0840C
C0318	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	–	HS 90835
C0320	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	–	HS 1030C
C0322	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	–	HS 1230C
C0324	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	–	–

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

SNGX 11

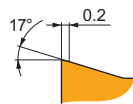


	IC	D1	S
	(mm)	(mm)	(mm)
1104	10.600	4.56	4.76



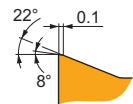
Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

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)



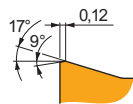
M geometry with positive design for high feed machining.

SNGX 110416SR-M:8215	1.6	260	0.60	1.0	–	–	–	245	0.60	1.0	–	–	–	–	–	–	–	–	–
SNGX 110416SR-M:M8310	1.6	275	0.60	1.0	–	–	–	260	0.60	1.0	–	–	–	–	–	–	–	–	–
SNGX 110416SR-M:M8330	1.6	260	0.60	1.0	–	–	–	245	0.60	1.0	–	–	–	–	–	–	–	–	–
SNGX 110416SR-M:M8340	1.6	245	0.60	1.0	–	–	–	230	0.60	1.0	–	–	–	–	–	–	–	–	–
SNGX 110416SR-M:M9325	1.6	305	0.60	1.0	–	–	–	285	0.60	1.0	–	–	–	–	–	–	–	–	–
SNGX 110416SR-M:M9340	1.6	270	0.60	1.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



MM geometry with highly positive design for high feed machining.

SNGX 110416SR-MM:M6330	1.6	175	0.60	1.0	125	0.54	1.0	–	–	–	–	–	–	50	0.42	0.8	–	–	–
SNGX 110416SR-MM:M8340	1.6	190	0.60	1.0	110	0.54	1.0	–	–	–	–	–	–	45	0.42	0.8	–	–	–
SNGX 110416SR-MM:M8345	1.6	150	0.60	1.0	90	0.54	1.0	–	–	–	–	–	–	35	0.42	0.8	–	–	–
SNGX 110416SR-MM:M9340	1.6	210	0.60	1.0	125	0.54	1.0	–	–	–	–	–	–	50	0.42	0.8	–	–	–

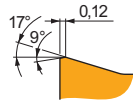
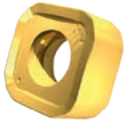


HM geometry with strong design for high feed machining.

SNGX 110416SR-HM:8215	1.6	230	1.00	1.0	–	–	–	215	1.00	1.0	–	–	–	–	–	–	45	0.70	0.7
SNGX 110416SR-HM:M8310	1.6	240	1.00	1.0	–	–	–	225	1.00	1.0	–	–	–	–	–	–	45	0.70	0.7

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)



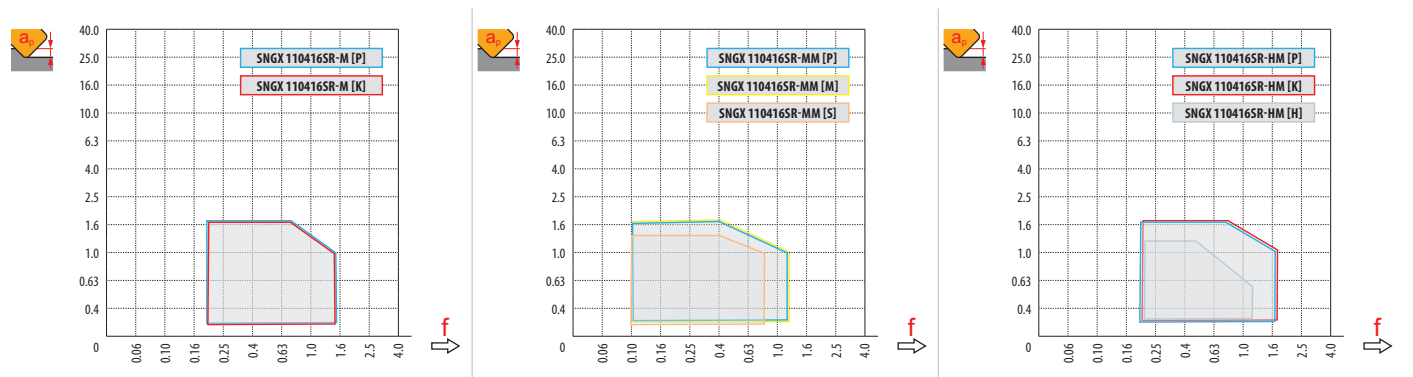
HM geometry with strong design for high feed machining.

SNGX 110416SR-HM:M8330	1.6	235	1.00	1.0	-	-	-	220	1.00	1.0	-	-	-	-	-	-	45	0.70	0.7
SNGX 110416SR-HM:M9325	1.6	260	1.00	1.0	-	-	-	245	1.00	1.0	-	-	-	-	-	-	50	0.70	0.7

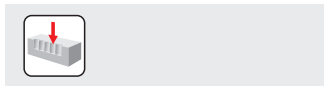


a_e / DCX	5%	10%	15%	20%	25%	30%	40%	50%	60%	70%	75%	80%	90%	100%
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	SNGX 11 - M	SNGX 11 - MM	SNGX 11 - HM
	1.6	1.6	1.6
	-	-	-

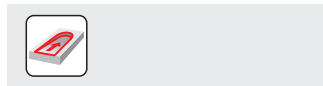


HFC														
		0.00	0.20	0.40	0.60	0.80	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70
32		18.30	19.53	20.76	21.99	23.22	24.46	25.07	25.69	26.30	26.92	27.53	28.15	28.76
35		21.20	22.43	23.66	24.89	26.12	27.36	27.97	28.59	29.20	29.82	30.43	31.05	31.66
40		26.20	27.43	28.66	29.89	31.12	32.36	32.97	33.59	34.20	34.82	35.43	36.05	36.66
42		28.20	29.43	30.66	31.89	33.12	34.36	34.97	35.59	36.20	36.82	37.43	38.05	38.66
50		36.10	37.33	38.56	39.79	41.02	42.26	42.87	43.49	44.10	44.72	45.33	45.95	46.56
52		38.10	39.33	40.56	41.79	43.02	44.26	44.87	45.49	46.10	46.72	47.33	47.95	48.56
63		49.10	50.33	51.56	52.79	54.02	55.26	55.87	56.49	57.10	57.72	58.33	58.95	59.56
66		52.10	53.33	54.56	55.79	57.02	58.26	58.87	59.49	60.10	60.72	61.33	61.95	62.56
80		66.10	67.33	68.56	69.79	71.02	72.26	72.87	73.49	74.10	74.72	75.33	75.95	76.56
100		86.10	87.33	88.56	89.79	91.02	92.26	92.87	93.49	94.10	94.72	95.33	95.95	96.56
115		101.10	102.33	103.56	104.79	106.02	107.26	107.87	108.49	109.10	109.72	110.33	110.95	111.56
125		111.10	112.33	113.56	114.79	116.02	117.26	117.87	118.49	119.10	119.72	120.33	120.95	121.56
		-	0.20	0.40	0.60	0.80	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70
		-	1.37	0.98	0.81	0.71	0.64	0.62	0.59	0.58	0.56	0.54	0.53	0.52



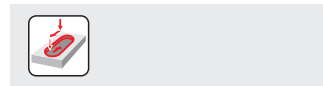
SNGX

32	5.0	0.25
35	5.0	0.25
40	5.2	0.30
42	5.2	0.30
50	5.3	0.30
52	5.3	0.30
63	5.4	0.30
66	5.4	0.30
80	5.5	0.35
100	5.5	0.35
115	5.5	0.35
125	5.5	0.35



SNGX (HFC)

32	0.8	1.4/100
35	0.8	1.4/100
40	0.7	1.2/100
42	0.7	1.2/100
50	0.5	0.9/100
52	0.5	0.9/100
63	0.4	0.7/100
66	0.4	0.7/100
80	0.3	0.5/100
100	0.2	0.3/100
115	0.2	0.3/100
125	0.2	0.3/100



SNGX (HFC)

32	0.2	0.3
35	0.2	0.3
40	0.2	0.3
42	0.2	0.3
50	0.3	0.4
52	0.3	0.4
63	0.3	0.4
66	0.3	0.4
80	0.3	0.4
100	0.3	0.4
115	0.3	0.4
125	0.3	0.4



		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
35		0.648	0.837	1.183	1.449	1.673	2.049	2.366	2.646	2.898	3.347	3.742
40		0.693	0.894	1.265	1.549	1.789	2.191	2.530	2.828	3.098	3.578	4.000
42		0.710	0.917	1.296	1.587	1.833	2.245	2.592	2.898	3.175	3.666	4.099
50		0.775	1.000	1.414	1.732	2.000	2.449	2.828	3.162	3.464	4.000	4.472
52		0.790	1.020	1.442	1.766	2.040	2.498	2.884	3.225	3.533	4.079	4.561
63		0.869	1.122	1.587	1.944	2.245	2.750	3.175	3.550	3.888	4.490	5.020
66		0.890	1.149	1.625	1.990	2.298	2.814	3.250	3.633	3.980	4.596	5.138
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
115		1.175	1.517	2.145	2.627	3.033	3.715	4.290	4.796	5.254	6.066	6.782
125		1.225	1.581	2.236	2.739	3.162	3.873	4.472	5.000	5.477	6.325	7.071

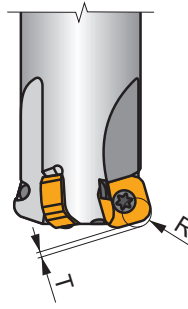


	SNGX			
	0.2	0.5	1.0	1.7
	1.20	1.00	0.50	0.25



SNGX (HFC)

	D _{MIN}	D _{MAX}		
32	48.0	63.8	0.7	1.4
35	54.0	69.8	0.8	1.5
40	64.0	79.8	0.9	1.5
42	68.0	83.8	1.0	1.6
50	84.0	99.8	0.9	1.4
52	88.0	103.8	1.0	1.4
63	109.0	125.8	1.0	1.4
66	115.0	131.8	1.1	1.4
80	143.0	159.8	1.0	1.3
100	183.0	199.8	0.9	1.1
115	213.0	229.8	1.1	1.3
125	233.0	249.8	1.2	1.4



SNGX	R	T
SNGX 110416	4.6	0.92