



Power Mill

Indexable milling cutter 10mm.

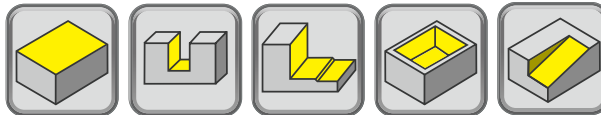
Patented Dual Relief Angle Insert!

Higher feed rate. Higher wearing resistance!



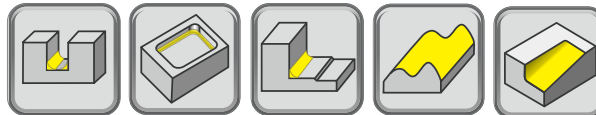
A Series- Shoulder Face Mills

Dia. range: Ø10 ~ Ø25mm



C Series- Torus Radius Mills

Dia. range: Ø10 ~ Ø26mm



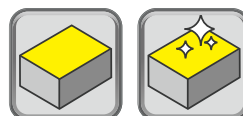
R Series- Round Insert Mills

Dia. range: Ø16 ~ Ø100mm



Face Mills

Dia. range: Ø32 ~ Ø315mm



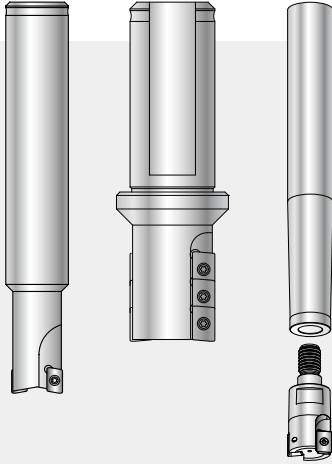
4

Power Mill

Modular Power Mill System

A Series Shoulder Face Mills

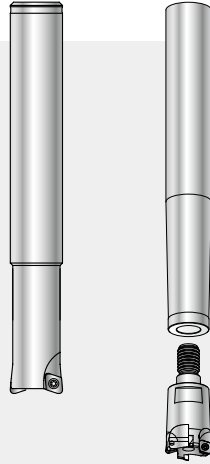
Ø10~Ø25 99802-BC..A..
Ø20 & Ø25 99522..
Ø10~Ø25 99802-M..A..
99805-M..A..



A9MT06...
A9MT10...

C Series Torus Radius Mills

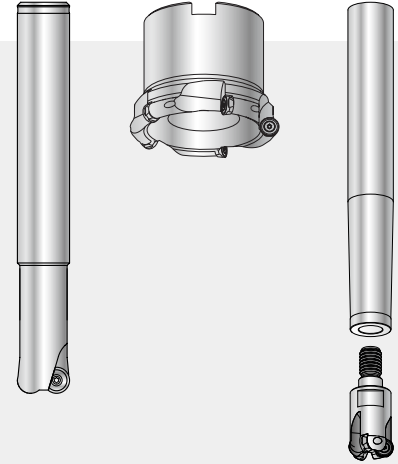
Ø12~Ø25 99802-BC..C..
Ø10~Ø26 99802-M..C..
99805-M..C..



C9MT04...
C9MT15...

R Series Round Insert Mills

Ø16~Ø35 99802-BC..R..
Ø50~Ø100 99802-MC..R..
Ø16~Ø35 99802-M..R..



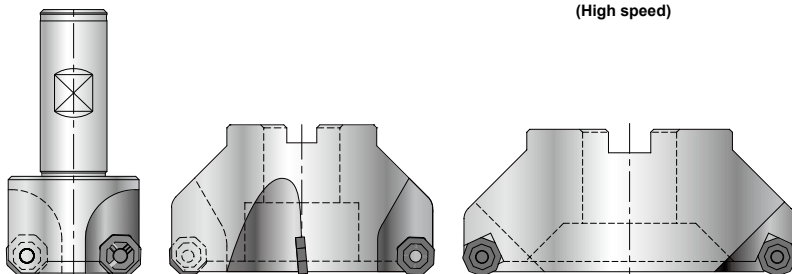
R9MT08...

4

Power Mill

Indexable 16 cutting edge insert face mills

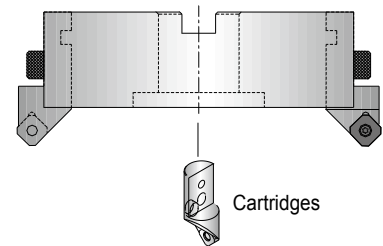
Ø32 99542-032 (Roughing)
Ø50~Ø125 99542-... (CW)
99542-... L (CCW)
Ø63, Ø80 and Ø100 99543-063
99543-080
99543-100 (High speed)



N9GJ11T3F2-0

Aluminium alloy face mills

Ø80~Ø315mm 99511-...



Cartridges

N9MT11T3HR300
Mirror milling

N9GJ11T3F2
Mirror milling

A Series Shoulder Face Mills

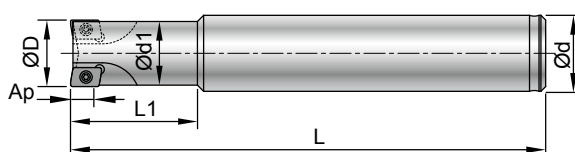
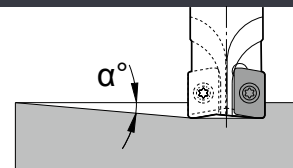


Features:

- Strong insert with high positive geometry and helical cutting edges.
- Shoulder mill with good cutting performance and cutting edge strength.

Holder

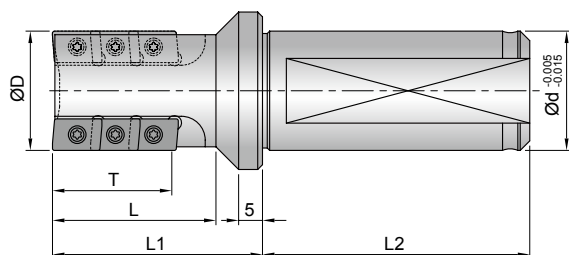
► Cylindrical Shank



Part No.	Type	ØD	No. of teeth	Ød h6	Ød1	α°	Ap	L1	L	Insert type
00-99802-BC10-10A06	BC10-10A06-100	10	2	10	9.8	5.0	5	40	100	A9...0602...
00-99802-BC12-10A06	BC12-10A06-80	10	2	12	9.8	5.0	5	20	80	
00-99802-BC12-11A06	BC12-11A06-80	11	2	12	10.8	4.5	5	22	80	
00-99802-BC12-12A06	BC12-12A06-80	12	2	12	11.4	4.0	5	24	80	
00-99802-BC16-13A06	BC16-13A06-100	13	2	16	12.4	3.5	5	26	100	
00-99802-BC16-14A06	BC16-14A06-100	14	2	16	13.4	3.0	5	28	100	
00-99802-BC16-15A06	BC16-15A06-100	15	3	16	14.4	2.5	5	30	100	
00-99802-BC16-16A06	BC16-16A06-100	16	3	16	15.4	2.0	5	32	100	A9...1035...
00-99802-BC16-16A10	BC16-16A10-100	16	2	16	14.5	2.5	9	32	100	
00-99802-BC20-20A10	BC20-20A10-120	20	3	20	18.5	2.0	9	40	120	
00-99802-BC25-25A10	BC25-25A10-150	25	3	25	23.5	1.3	9	50	150	

► Helical mills

- Side lock shank.
- For used on BT40.



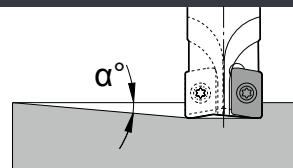
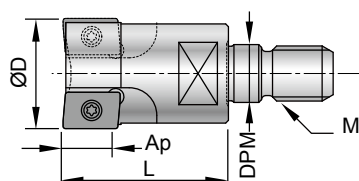
Part No.	Type	ØD	No. of teeth	Ød	T	L	L1	L2	Insert type
00-99522-20	SB20-EM20x3T	20	3	20	18	24.5	35	50	A9..1035...
00-99522-25	SB25-EM25x6T	25	6	25	25	34.25	44	56	

A Series Shoulder Face Mills



Holder

► Screw-Fit Type



Part No.	Type	ØD	No. of teeth	α°	Ap	L	M	DPM	Insert type
00-99805-M05-10A06	M05-10A06	10	2	5.0	5	13	M5xP0.8	5.5	A9...0602...
00-99805-M05-11A06	M05-11A06	11	2	4.5	5	13	M5xP0.8	5.5	
00-99805-M06-12A06	M06-12A06	12	2	4.0	5	13	M6xP1.0	6.5	
00-99805-M06-13A06	M06-13A06	13	2	3.5	5	13	M6xP1.0	6.5	
00-99805-M08-14A06	M08-14A06	14	2	3.0	5	13	M8xP1.25	8.5	
00-99805-M08-15A06	M08-15A06	15	3	2.5	5	15	M8xP1.25	8.5	
00-99805-M08-16A06	M08-16A06	16	3	2.0	5	15	M8xP1.25	8.5	
00-99805-M08-17A06	M08-17A06	17	3	1.5	5	15	M8xP1.25	8.5	
00-99802-M08-16A10	M08-16A10	16	2	2.5	9	25	M8xP1.25	8.5	A9...1035...
00-99802-M10-20A10	M10-20A10	20	3	2.0	9	30	M10xP1.5	10.5	
00-99802-M12-25A10-3T	M12-25A10-3T	25	3	1.3	9	35	M12xP1.75	12.5	
00-99805-M12-25A10	M12-25A10	25	3	1.3	9	20	M12xP1.75	12.5	

* For Nine9 extension bar, see page 6-3.

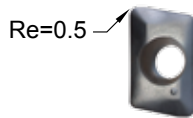
A Series Shoulder Face Mills



Features:

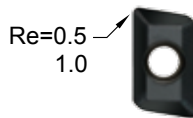
- Submicron carbide inserts are fully ground for high precision output.
- Good cutting performance and cutting edge strength, which produce perfect 90° shoulders.

Insert



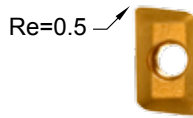
A9MT060205-NC5072

- High rigidity, special edge honing, resistance of impact during milling operation.
- Special chip breaker design for high removal rate.
- P40 tougher grade for smooth cutting, good for all kinds of steel.



A9GT060205H-NC2033

- Sharp cutting edge and high positive rake angle, good for finishing milling and surface roughness.
- Re 0.5 and Re1.0 for your option.
- Suitable for all kinds of steel.

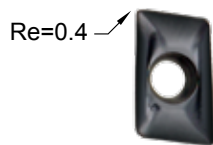


A9FT060205H-NC9031

- Sharp cutting edge and high positive rake angle, low friction coefficient for Non-Ferrous metal.
- Good for Al, Al-alloy, Copper, Copper alloy and Non-Ferrous metal.

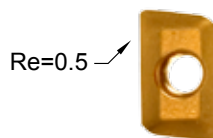
Insert Size	Parts No.	Coating	Grade		Dimensions					Screw / Key
					L	W	S	Re	Ap	
06	A9MT0602 05 -NC5072	TiAlN	P40		6.5	4	2.45	0.5	5	*NS-18037 0.6Nm NK-T6
	A9GT0602 05H-NC2033	TiAlN	K20F		6.5	4	2.45	0.5	5	
	A9GT0602 10H-NC2033	TiAlN	K20F		6.5	4	2.45	1.0	5	
	A9FT0602 05H-NC9031	TiN	K20F		6.5	4	2.45	0.5	5	

*Torque screwdriver is recommended, see page 6-4.



A9MT1035-NC2032

- High rigidity, special edge honing, resistance of impact during milling operation.
- Special chip breaker design for high removal rate.
- Good for hard cutting carbon steel and alloy steel.



A9FT103505H-NC9031

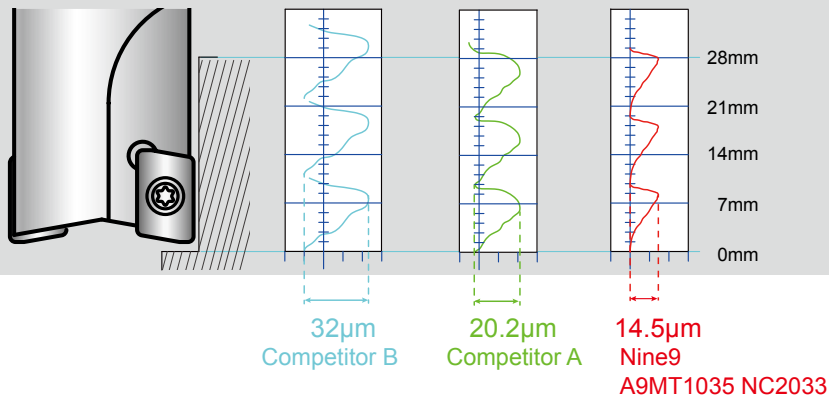
- Sharp cutting edge and high positive rake angle, low friction coefficient for Non-Ferrous metal.
- Good for Al, Al-alloy, Copper, Copper alloy and Non-Ferrous metal.

Insert Size	Parts No.	Coating	Grade		Dimensions					Screw / Key
					L	W	S	Re	Ap	
10	A9MT1035-NC2032	TiAlN	K20F		10	6.6	3.5	0.4	9	*NS-25060 0.9Nm NK-T7
	A9FT103505H-NC9031	TiN	K20F		10	6.6	3.5	0.5	9	

*Torque screwdriver is recommended, see page 6-4.

A Series Shoulder Face Mills

Surface Roughness Comparison



- Nine9 A series shoulder face mill insert receive a better result of surface finish.

Cutting Data

- Reduce the feed rate 30% from the below table for slotting operation.
- Ramping Angle should be Under α° .

► Insert Size: 6.5mm (Holder dia. Ø10~Ø17mm) : >>

Work Material	Sample Code (JIS)	Grade	Vc (m/min)	fz (mm/tooth)	Ap(mm)	Ap(mm)	Ae(mm)
Carbon Steel	P5	NC5072	80~150	0.03~0.07	1.5	4	1.5
		NC2033					
Low-alloy Steel, C ≤ 0.3%	SCM440	NC5072	80~150	0.03~0.07	1.5	4	1
		NC2033					
High-alloy Steel, C > 0.3%	SKD11	NC5072	60~120	0.03~0.07	1.0	2.5	1
		NC2033					
Stainless Steel	SUS304	NC5072	60~120	0.01~0.05	0.5	2	1
		NC2033					
Casting Iron	FC25	NC5072	60~120	0.03~0.07	1.0	2.5	1
		NC2033					
Malleable Cast Iron, Grey Cast Iron		NC5072	100~150	0.03~0.07	1.5	4	1.5
		NC2033					
Al, Al-alloy	A6061	NC9031	200~500	0.03~0.07	2	4	2

► Insert Size: 10mm (Holder Ø16~Ø25mm) : >>

Work Material	Sample Code (JIS)	Grade	Vc (m/min)	fz (mm/tooth)	Ap(mm)	Ap(mm)	Ae(mm)
Carbon Steel	P5	NC2032	150~250	0.08~0.15	3	8	3
Low-alloy Steel, C ≤ 0.3%	SCM440	NC2032	150~250	0.08~0.15	3	8	2
High-alloy Steel, C > 0.3%	SKD11	NC2032	120~200	0.08~0.15	2	4	2
Stainless Steel	SUS304	NC2032	80~120	0.04~0.08	1	4	2
Casting Iron	FC25	NC2032	120~200	0.08~0.12	2	5	2
Malleable Cast Iron, Grey Cast Iron		NC2032	100~150	0.06~0.10	3	8	3
Al, Al-alloy	A6061	NC9031	200~500	0.03~0.07	5	8	3

C Series Torus Radius Mills

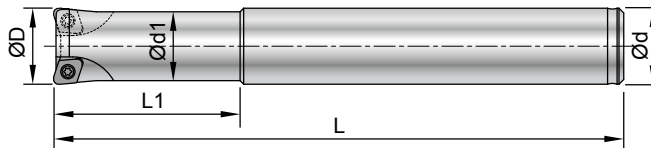
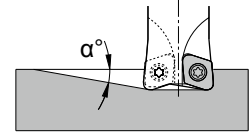


Features:

- Good for corner finishing.
- Series C is developed for replacement of the other milling cutters with ram feed.

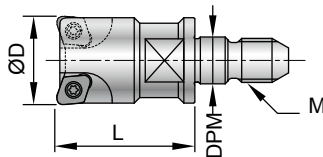
Holder

► Cylindrical Shank



Part No.	Type	ØD	No. of teeth	Ød h6	Ød1	α°	L1	L	Insert type
00-99802-BC12-12C5	BC12-12C5	12	2	12	10.5	8.0	30	100	C9MT05T105 C9MT05T110H
00-99802-BC16-16C5	BC16-16C5	16	3	16	14.5	5.5	40	120	
00-99802-BC20-20C5	BC20-20C5	20	3	20	18	4.0	50	130	
00-99802-BC25-25C5	BC25-25C5	25	4	25	23	3.0	60	150	

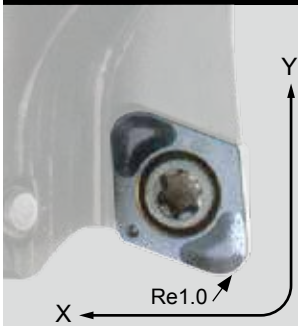
► Screw-Fit Type



Part No.	Type	ØD	No. of teeth	α°	L	M	DPM	Insert type
00-99802-M05-10C4	M05-10C4	10	2	8	15	M5xP0.8	5.5	C9MT040105 C9MT040110
00-99802-M05-11C4	M05-11C4	11	2	6	15	M5xP0.8	5.5	
00-99802-M06-12C5	M06-12C5	12	2	8	25	M6xP1.0	6.5	C9MT05T105 C9MT05T110H
00-99802-M06-13C5	M06-13C5	13	2	7.5	25	M6xP1.0	6.5	
00-99802-M08-16C5	M08-16C5	16	3	5.5	25	M8xP1.25	8.5	
00-99802-M08-17C5	M08-17C5	17	3	5	25	M8xP1.25	8.5	
00-99802-M10-20C5	M10-20C5	20	3	4	30	M10xP1.5	10.5	
00-99802-M10-21C5	M10-21C5	21	3	3.5	30	M10xP1.5	10.5	
00-99802-M12-25C5	M12-25C5	25	4	3	35	M12xP1.75	12.5	
00-99802-M12-26C5	M12-26C5	26	4	2.5	35	M12xP1.75	12.5	
00-99805-M05-11C5	M05-11C5	11	2	10	13	M5xP0.8	5.5	C9MT05T105 C9MT05T110H
00-99805-M06-12C5	M06-12C5	12	2	8	13	M6xP1.0	6.5	
00-99805-M06-13C5	M06-13C5	13	2	7.5	13	M6xP1.0	6.5	
00-99805-M08-16C5	M08-16C5	16	3	5.5	15	M8xP1.25	8.5	
00-99805-M08-17C5	M08-17C5	17	3	5	15	M8xP1.25	8.5	
00-99805-M10-20C5	M10-20C5	20	3	4	15	M10xP1.5	10.5	
00-99805-M10-21C5	M10-21C5	21	3	3.5	15	M10xP1.5	10.5	
00-99805-M12-25C5	M12-25C5	25	4	3	20	M12xP1.75	12.5	
00-99805-M12-26C5	M12-26C5	26	4	2.5	20	M12xP1.75	12.5	

* For Nine9 extension bar, see page 6-3.

C Series Torus Radius Mills



Features:

- Submicron carbide inserts are fully ground.
- Special design milling cutter and ground insert for semi-finishing 3D surface milling for mold industry.

Insert

Re= 0.5
Re= 1.0



C9MT040105-NC30

C9MT040110-NC30

C9MT05T105-NC30

- Flat cutting edge design, universal type for all kind of materials.

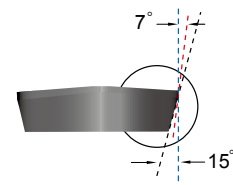
Re= 0.5
Re= 1.0



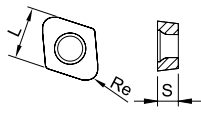
C9MT05T110H-NC2032

- High positive angle, special chip breaker design, higher wearing resistance.
- Good for hardened material.

Dual Relief Angle Insert



*Higher feed rate!
Higher wearing resistance!*

Parts No.	Coating	Grade		Dimensions			Screw	Key
				L	S	Re		
C9MT040105-NC30	AlTiN	K10F		4	1.59	0.5		
C9MT040110-NC30	AlTiN	K10F		4	1.59	1.0	*NS-18037 0.6Nm	NK-T6
C9MT05T105-NC30	AlTiN	K10F		5	2.0	0.5		
C9MT05T110H-NC2032	AlTiN	K20F		5	2.0	1.0	*NS-20045 0.6Nm	NK-T6

*Torque screwdriver is recommended, see page 6-4.

Cutting Data

Work Material	Sample Code (JIS)	Grade	Vc (m/min)	fz (mm/tooth)	Cutting Depth Ap(mm)
Carbon Steel	P5	NC30	150~300	0.2~0.5	0.2~0.5
		NC2032			
Alloy Steel	SCM440	NC30	120~250	0.2~0.5	0.2~0.5
		NC2032			
Stainless Steel	SUS304	NC30	120~200	0.2~0.4	0.2~0.4
		NC2032			
Hardened Steel < HRC52	SKD61	NC2032	100~150	0.1~0.3	0.1~0.3

* Recommend Ae below 2.5mm.

Round Insert Mills

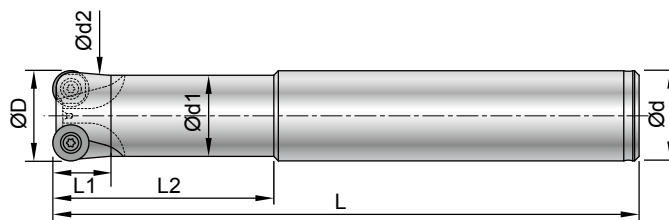
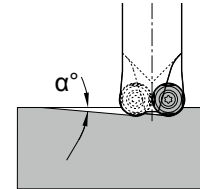


Features:

- High feed rate capability.
- Corner radius, especially good for 3D corner milling, reliable tool life and high performance.

Holder

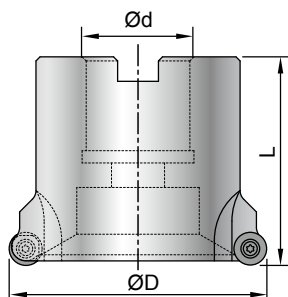
► Cylindrical Shank



Part No.	Type	ØD	No. of teeth	Ød	Ød1	Ød2	α°	L1	L2	L	Insert type
00-99802-BC16-16R4	BC16-16R4-120	16	2	16	14.5	-	4.5	-	40	120	R9MT0803 R9MT0803F
00-99802-BC20-20R4	BC20-20R4-130	20	3	20	18	17	2.5	20	50	130	
00-99802-BC25-25R4-45°	BC25-25R4-150-45°	25	3	25	23	21	1.5	30	60	150	
00-99802-BC32-35R4	BC32-35R4-200	35	3	32	30	-	1.0	-	80	200	

The insert pocket of the cutter 25R4-45° has rotated 45°. The cutter can take advantage of the reverse side of the used insert for second use.

► Radius Cutter with Bore Type



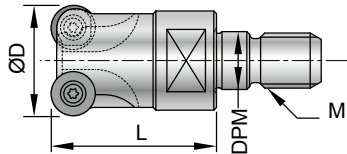
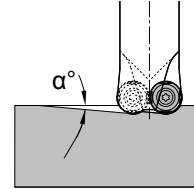
Part No.	Type	ØD	No. of teeth	Ød	L	Insert type
00-99802-MC22-50R4	MC22-50R4	50	4	22	51	R9MT0803 R9MT0803F
00-99802-MC25-63R4	MC25-63R4	63	5	25.4	51	
00-99802-MC25-80R4	MC25-80R4	80	5	25.4	51	
00-99802-MC31-100R4	MC31-100R4	100	6	31.75	61	

Round Insert Mills



Holder

► Screw Fit Type



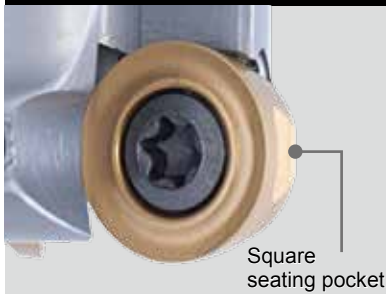
Part No.	Type	ØD	No. of teeth	α°	L	M	DPM	Insert type
00-99802-M08 -16R4	M08-16R4	16	2	4.5	25	M8 x P1.25	8.5	R9MT0803 R9MT0803F
00-99802-M08-17R4	M08-17R4	17	2	4.0	25	M8 x P1.25	8.5	
00-99802-M10-20R4	M10-20R4	20	3	2.5	30	M10 x P1.5	10.5	R9MT0803 R9MT0803F
00-99802-M10-21R4	M10-21R4	21	3	2.0	30	M10 x P1.5	10.5	
00-99802-M12-25R4-3T	M12-25R4-3T	25	3	1.5	35	M12 x P1.75	12.5	
00-99802-M12-26R4-3T	M12-26R4-3T	26	3	1.3	35	M12 x P1.75	12.5	
00-99802-M16-35R4	M16-35R4-4T	35	4	1.0	40	M16 x P2.0	16.5	

* For Nine9 extension bar, see page 6-3.

4

Power Mill

Round Insert Mills



Features:

- Round insert with square seating pocket for exact positioning, especially for unstable cutting condition.
- Maximum number of teeth for feed operation.

Insert



R9MT0803F-NC2032

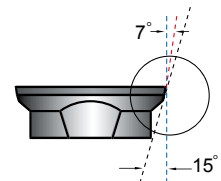
- Universal grade for all kinds of material.



R9MT0803-NC40

- Sharp cutting edge and high positive angle. Good for stainless steel.

Dual Relief Angle Insert



Higher feed rate!
Higher wearing resistance!

Part No.	Coating	Grade		Dimensions			Screw	Key
				lc	S	R		
R9MT0803-NC40	TiN	K20F		8	3.17	4	NS-30072 2.0Nm	NK-T9
R9MT0803F-NC2032	AlTiN	K20F						

Cutting Data

Work Material	Sample Code (JIS)	Grade	Vc (m/min)	fz (mm/tooth)	Cutting Depth Ap(mm)
Carbon Steel	P5	NC2032	150~250	0.3~0.8	0.4~1.0
		NC2032	120~180	0.3~0.5	0.4~0.6
Alloy steel	SCM440	NC2032	120~180	0.3~0.6	0.4~0.6
		NC2032	100~150	0.2~0.4	0.3~0.6
Stainless Steel	SUS304	NC40	100~140	0.3~0.5	0.3~0.6
Hardened Steel < HRC52	SKD61	NC2032	60~120	0.2~0.4	0.3~0.4
Casting Iron	FC25	NC2032	120~180	0.3~0.8	0.4~0.6

$$S = \frac{Vc \times 1000}{\pi \times D} \text{ r.p.m}$$

$$F = fz \times S \times n \text{ mm/min.}$$

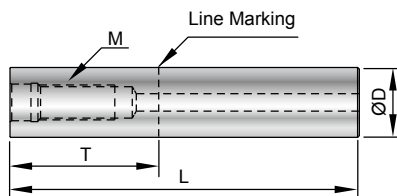
* S: Spindle Speed (r.p.m.). Vc: Cutting Speed (m/min.)

F: Feed Rate (mm/min.) fz: Feed per Tooth D: Drill Dia. n: No. of Flute

Extension Bar for A, C, R

► Steel Type

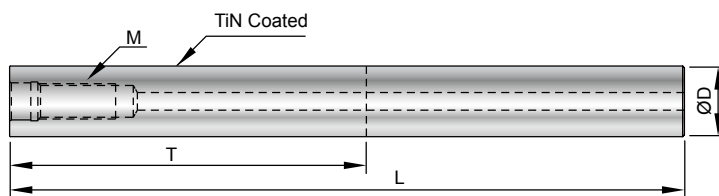
- T is the maximum overhang length.



Part No.	Type	ØD	T	L	M	Assemble Torque
00-99801-10S	BC10-075M05S	10	25	75	M5xP0.8	6.5Nm
00-99801-12S	BC12-075M06S	12	25	75	M6xP1.0	11.0 Nm
00-99801-14S	BC14-090M08S	14	30	90	M8xP1.25	25.0 Nm
00-99801-16S	BC16-090M08S	16	35	90	M8xP1.25	25.0 Nm
00-99801-18S	BC18-100M10S	18	40	100	M10xP1.5	50.0 Nm
00-99801-20S	BC20-100M10S	20	40	100	M10xP1.5	50.0 Nm
00-99801-25S	BC25-120M12S	25	50	120	M12xP1.75	60.0 Nm
00-99801-32S	BC32-150M16S	32	65	150	M16xP2.0	-

► Solid Carbide Type

- T is the maximum overhang length.
- Carbide extension bar with longer tool length is available on request. (REVA brand)



Part No.	Type	ØD	T	L	M	Assemble Torque
00-99801-10W	BC10-100M05W	10	50	100	M5xP0.8	6.5 Nm
00-99801-12W	BC12-100M06W	12	60	100	M6xP1.0	11.0 Nm
00-99801-14W	BC14-120M08W	14	70	120	M8xP1.25	25.0 Nm
00-99801-16W	BC16-150M08W	16	80	150	M8xP1.25	25.0 Nm
00-99801-18W	BC18-150M10W	18	90	150	M10xP1.5	50.0 Nm
00-99801-20W	BC20-200M10W	20	100	200	M10xP1.5	50.0 Nm
00-99801-25W	BC25-200M12W	25	125	200	M12xP1.75	60.0 Nm

* For more extension bar, please refer to P6-3.

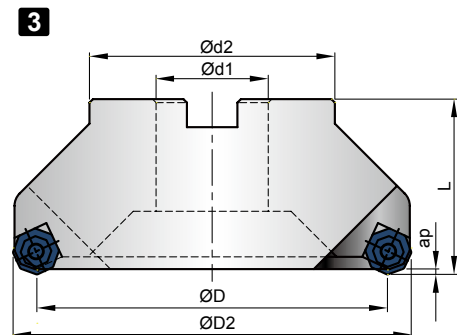
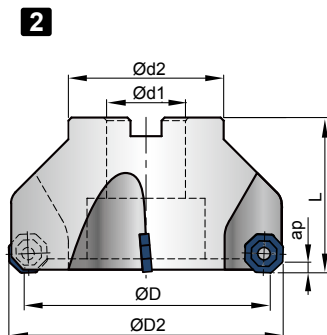
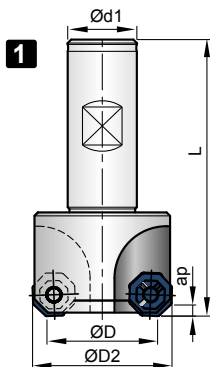
Face milling cutter for steel



Features:

- Target M/C user.
- High power for metal removal.
- High feed Rate 0.5 mm/tooth.
- An economical 8 corners per side (16 corners in total)
- 3mm maximum depth of cut.

Cutter



4

Power Mill

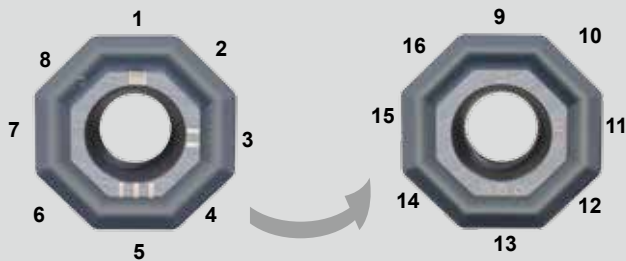
► Multi-edge rough milling cutter - Clockwise

Fig.	Part No.	Type	ØD	ØD2	No. of teeth	Ød1	Ød2	ap	L	Insert type
1	00-99542-032	SB20-32R-11J	32	40	3	20	-	3	80	N9GJ11T3F2-O
	00-99542-050	MC22-50R-11J	50	58	3	22	50	3	45	
	00-99542-063	MC22-63R-11J	63	71	4	22	50	3	45	
2	00-99542-080	MC25.4-80R-11J	80	88	5	25.4	50	3	50	
	00-99542-100	MC31.75-100R-11J	100	108	6	31.75	70	3	50	
	00-99542-125	MC38.1-125R-11J	125	133	6	38.1	85	3	63	
3	00-99543-063	MC22-63R-11J-6T	63	75	6	22	50	1.5	45.5	
	00-99543-080	MC27-80R-11J-8T	80	92	8	27	60	1.5	50.5	
	00-99543-100	MC32-100R-11J-10T	100	113	10	32	70	1.5	50	

► Multi-edge rough milling cutter - Counterclockwise

Fig.	Part No.	Type	ØD	ØD2	No. of teeth	Ød1	Ød2	ap	L	Insert type
2	00-99542-050L	MC22-50L-11J	50	58	3	22	50	3	45	N9GJ11T3F2-O
	00-99542-063L	MC22-63L-11J	63	71	4	22	50	3	45	
	00-99542-080L	MC25.4-80L-11J	80	88	5	25.4	50	3	50	
	00-99542-100L	MC31.75-100L-11J	100	108	6	31.75	70	3	50	
	00-99542-125L	MC38.1-125L-11J	125	133	6	38.1	85	3	63	

Face milling cutter for steel



Features:

- Double-sided inserts for low costs.
- Easy to indentify the sequence.

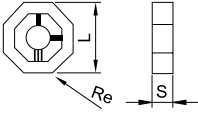
Insert

Double-sided



N9GJ11T3F2-O

- Good for carbon steel and alloy steel, stainless steel and cast iron.
- Each insert has 16 cutting edges.

Parts No.	Coating	Grade		Dimensions			Screw	Key
				L	S	Re		
N9GJ11T3F2-O-NC2032	AlTiN	K20F		12.2	3.97	0.8	 NS-35080 2.5Nm	 NK-T15

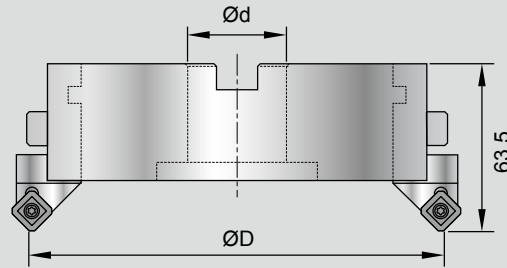
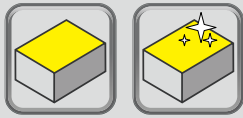
4

Power Mill

Cutting Data

Work Material	Sample Code (JIS)	Grade	Vc (m/min.)	fz (mm / tooth)
Carbon steel	P5	NC2032	120~250	0.1~0.5
Alloy steel	SCM440	NC2032	120~200	0.1~0.3
Stainless Steel	SUS304	NC2032	80~120	0.1~0.3
Casting iron	FC25	NC2032	100~200	0.1~0.5

Aluminum alloy face mill for aluminum



Cutter

► Milling cutter body

- Ideal for cutting aluminum alloy material.
- Aluminum alloy face milling cutter series provides the opportunity to assemble the body with different cartridges for a wide range of applications.
- Extra lightweight, only 1/3 to 1/2 the weight of steel body cutters.
(Weight of 160mm steel cutter is about 8.5kgs, 99511 is only 2.9kgs.)
- Suitable for machining centers, fine milling on big surface or when the weight of the cutter is restricted.

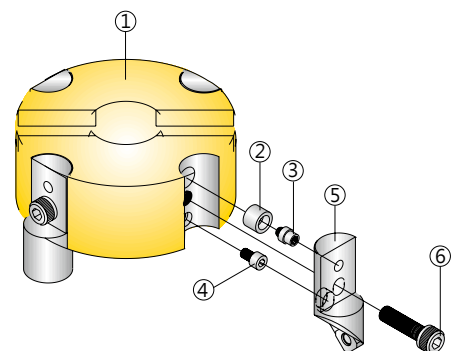
Part No.	Type	ØD	No. of teeth	Ød	Kg
00-99511-080	80S-AL	80	4	22	1.1
00-99511-100	100S-AL	100	4	22	1.4
00-99511-125	125S-AL	125	4	38.1	2.1
00-99511-160	160S-AL	160	4	38.1	2.9
00-99511-200	200S-AL	200	4	38.1	4.2
00-99511-250	250S-AL	250	4	38.1	6.5
00-99511-315	315S-AL	315	6	38.1	8.0

► Cartridges

Part No.	Type	Insert (Insert to be used)	ap	Screw	Key
00-99511-00A	SSFER-D25	SEHW1204	0.7	NS-45095	T15
00-99511-05A	STGCR-D25	TCGT16T3	0.5	NS-35080	
00-99511-10A	SSFER0°-D25	SEHW1204	0.5	NS-45095	
00-99511-20A	SAFPR-D25	APKT1604	0.7	NS-35080	
00-99511-39A	SNF9R-D25	N9MT11T3HR300	0.1	NS-35080	
00-99511-41A	SGFGR-D25	N9GJ11T3F2	0.3	NS-35080	

► Spare

Part No.		
	Cutter bodies	①
99511-00H	Screw sheath	②
MS1364	Eccentric adjustment screw	③
99511-00G	Seat Clamp Bolt	④
	Cartridges	⑤
99511-00I	M8 Set Screws	⑥
NK-DT25	Adjustment Wrench	
NK-T15	Key	



Aluminum alloy face mill for mirror finishing

Excellent Surface Finish

Mirror finish



Cutting Data		Insert		N9MT11T3HR300 (Nine9)	SEHW1204 (Diamond insert)
VC	m/min.			1000	1000
fz	mm / tooth			0.10	0.20
Ap	mm			0.05	0.10
Surface roughness (Ra) μm				0.056	0.092
				0.092	0.800

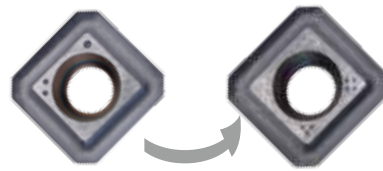
Insert

Double-sided



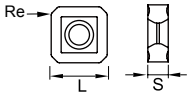
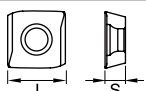
N9GJ11T3F2-NC2033

- Double-sided insert for low costs.
- Easy to identify the sequence.
- Each insert has 8 cutting edges.



N9MT11T3HR300-NC9031

- For mirror finishing. Surface roughness below Ra 0.10 μm .
- Each insert has 2 cutting edges.

Parts No.	Coating	Grade		Dimensions			Screw	Key
				L	S	Re		
N9GJ11T3F2-NC2033	TiAlN	K20F	Re 	10.9	3.97	0.6	 NS-35080 2.5Nm	 NK-T15
N9MT11T3HR300-NC9031	-	K20F		11.11	3.98	-	 NS-35080 2.5Nm	 NK-T15

4

Power Mill

Cutting Data

Work Material	Sample Code (JIS)	Grade	Vc (m/min.)	fz (mm / tooth)	Cutting Depth Ap(mm)
Non-ferrous metal (Al, Cu)	A6061	NC9031	200~500	0.1~0.3	0.05~0.15
		NC2033	200~500	0.05~0.15	0.1~0.5