

MCC VIII

60° & 90° Front and Back Deburring, 55° & 60° Threading





- **▶** Excellent surface finishing.
- ▶ Patented Nine9 clamping system ensures uniform geometry and accurate position. Fully ground insert geometry for burr free.
- ▶ Deburring Mill 60° & 90°
 - Front & back deburring in one operation, grooving is also possible.
 - The smallest plunge deburring bore from Ø4.2mm.

► Threading Mill 55° & 60°

- The smallest insert Ø5.0 can do M6xP0.75 internal threading.
- For external different threading pitch can be done by NC programing. For example: Ø10.0mm insert can do external threading pitch from P1.0 to P1.75mm, save your tool inventory.



One Insert, **Multiple Operation**

















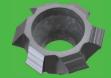
With the integration of the MCC Mill into Nine9's deburring and chamfering tool system, a wide range of machining tasks front and back deburring, contour chamfering, side grooving, and threading can be performed to high standards across various materials.

The system provides excellent positioning repeatability and is able to adjust pitch, enhancing process stability and delivering consistent precision while also simplifying tool management and reducing inven-



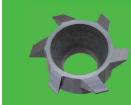




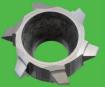


60° **Deburring**

 90° **Deburring**



Parallel Pipe Thread



55°, 60° Tapered Pipe Thread



60° **Parallel** Thread

55°/60°

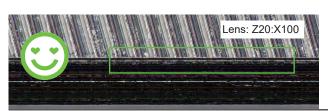


▶ Comparison of Surface Quality >>

Material	Deburring	Vc (m/min)	S (r.p.m.)	f (mm/tooth)	F (mm/min)
SCM415	C0.3	188.5	6000	0.03	1080

Tool: Nine9 MCC Mill

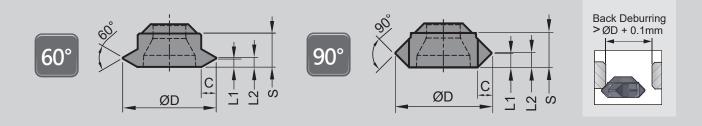
Holder: 00-99626-CR10-08-082 / Insert: R09010-10010-32



Tool: Other brand chamfering cutter



MCC Mill- Front and Back Deburring



▶ Inserts >>

NC2032: • TiAIN coating provides longer tool life.

• For all kinds of steel < HRC60, carbon steel, alloy steel and cast iron.

XP90<u>00</u>: • High positive and sharp edge produces excellent surface finish.

• For non-ferrous material such as aluminum, brass, copper and soft material.

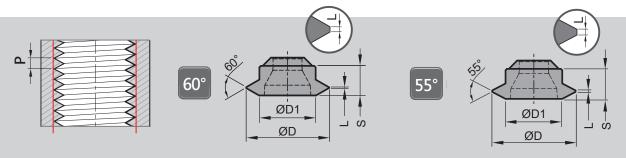
▶ 60° deburring

Size	Code	e Parts No. Coating Grade ØD L1		1.4	L1 L2	S	С	Plunge 0.1C			
Size	Code	Parts No.	Coating	Grade	±0.025	LI	LZ	±0.025	C	min. hole	max. hole
CR05	01R2103	R06005-05010-32	TiAIN	K20F	5.0	0.35	0.45	45 2.00	0.40	4.2	4.8
CKUS	01R2104	R06005-05010-00	Uncoated	NZUI	3.0	0.55	0.43	2.00	0.40		4.0
CR07	01R2301	R06007-06810-32	TiAIN	- K20F	6.8	0.40	0.50	2.35	0.50	5.8	6.6
CRU1	01R2302	R06007-06810-00	Uncoated	NZUF	0.0	0.40	0.50	2.00			0.0
	01R2601	R06010-08510-32	TiAIN		0.5	0.49	0.59	3.60	0.65	7.2	8.3
CR10	01R2602	R06010-08510-00	Uncoated	K20F	8.5	0.49	0.59	3.00	0.05	1.2	0.3
CKIU	01R2603	R06010-10010-32	TiAIN	N∠UF	10.0	0.90	1.00	3.60	1.20	7.6	0.0
	01R2604	R06010-10010-00	Uncoated		10.0	0.90	1.00	3.00	1.20	1.0	9.8

▶ 90° deburring

OTRA-107 R09005-04820-32 TIAIN OTRA-107 R09005-04820-32 TIAIN OTRA-108 R09005-05060-32 TIAIN OTRA-108 R09005-05060-00 Uncoated OTRA-103 R09005-05320-32 TIAIN OTRA-103 R09005-05320-32 TIAIN OTRA-103 R09005-05520-32 TIAIN OTRA-103 R09005-05520-32 TIAIN OTRA-103 R09005-05520-32 TIAIN OTRA-103 R09005-05520-00 Uncoated OTRA-103 R09005-05520-00 Uncoated OTRA-103 R09005-05520-00 Uncoated OTRA-103 R09005-05520-00 Uncoated OTRA-103 R09006-05820-32 TIAIN OTRA-203 R09006-05820-00 Uncoated OTRA-203 R09006-05820-00 Uncoated OTRA-205 R09006-05820-00 Uncoated OTRA-205 R09006-06320-32 TIAIN OTRA-205 R09006-06320-32 TIAIN OTRA-206 R09006-06520-00 Uncoated OTRA-205 R09006-06520-32 TIAIN OTRA-206 R09006-06520-00 Uncoated OTRA-206 R09006-06520-32 TIAIN OTRA-208 R09007-06820-32 TIAIN OTRA-208 R09007-06820-32 TIAIN OTRA-208 R09007-06820-32 TIAIN OTRA-208 R09007-07820-32 TIAIN OTRA-308 R09007-07320-00 Uncoated OTRA-305 R09007-07320-00 Uncoated OTRA-305 R09007-07320-00 Uncoated OTRA-305 R09007-07320-32 TIAIN OTRA-306 R09007-07320-32 TIAIN OTRA-306 R09007-07320-32 TIAIN OTRA-308 R09007-07320-32 TIAIN OTRA-308 R09007-07320-32 TIAIN OTRA-308 R09007-07320-32 TIAIN OTRA-308 R09007-07320-30 Uncoated OTRA-308 R09007-07320-30 Unco	Size	Code	Doute No.	Conting	Grade	ØD	L1	L2	S	С	Plung	e 0.1C
O1R4108	Size	Code	Parts No.	Coating	Grade	±0.025	LT	LZ	±0.025	C	min. hole	max. hole
OTR4108		01R4107	R09005-04820-32	TiAIN		18	0.50	0.70		0.30	12	4.6
CR05 01R4102 R09005-05060-00 Uncoated 01R4105 R09005-05320-32 TiAIN 01R4104 R09005-05520-32 TiAIN 01R4104 R09005-05520-00 Uncoated 01R4201 R09006-05820-00 Uncoated 01R4202 R09006-05820-00 Uncoated 01R4203 R09006-06820-00 Uncoated 01R4205 R09006-06820-00 Uncoated 01R4206 R09006-06820-00 Uncoated 01R4207 R09006-06820-00 Uncoated 01R4207 R09006-06520-32 TiAIN 01R4208 R09006-06520-00 Uncoated 01R4208 R09006-06520-00 Uncoated 01R4208 R09006-06520-00 Uncoated 01R4208 R09006-06520-00 Uncoated 01R4208 R09007-07820-32 TiAIN 01R4303 R09007-07820-32 TiAIN 01R4304 R09007-07820-32 TiAIN 01R4304 R09007-07820-32 TiAIN 01R4305 R09007-07820-32 TiAIN 01R4306 R09007-07820-00 Uncoated 01R4307 R09007-07820-00 Uncoated 01R4307 R09007-07820-00 Uncoated 01R4307 R09007-07820-00 Uncoated 01R4308 R09007-07820-00 Uncoate		01R4108	R09005-04820-00	Uncoated	_	4.0	0.50	0.70	_	0.50	4.2	4.0
CR05		01R4101	R09005-05060-32	TiAIN	_	5.0	0.60	1 20		0.40	4.2	ΛΩ
01R4105 R09005-05320-32 TIAIN 5.3 0.65 0.85 0.45 4.4 5.1 01R4106 R09005-05520-00 Uncoated 01R4103 R09005-05520-00 Uncoated 01R4104 R09005-05520-00 Uncoated 01R4201 R09006-05820-32 TIAIN 01R4202 R09006-05820-00 Uncoated 01R4203 R09006-06020-32 TIAIN 01R4204 R09006-06020-03 TIAIN 01R4205 R09006-06320-32 TIAIN 01R4206 R09006-06520-32 TIAIN 01R4207 R09006-06520-32 TIAIN 01R4208 R09006-06520-32 TIAIN 01R4303 R09007-06820-32 TIAIN 01R4304 R09007-06820-32 TIAIN 01R4301 R09007-07020-32 TIAIN 01R4302 R09007-07320-32 TIAIN 01R4306 R09007-07820-32 TIAIN 01R4307 R09007-07820-32 TIAIN 01R4308 R09007-07820-00 Uncoated	CR05	01R4102	R09005-05060-00	Uncoated	KODE	3.0	0.00			0.40	4.2	4.0
O1R4106		01R4105	R09005-05320-32	TiAIN	11201	5.3	0.65		2.00	0.45	1.1	5.1
O1R4104 R09005-05520-00 Uncoated S.5 O.75 O.95 O.55 4.4 S.3		01R4106	R09005-05320-00	Uncoated	_	5.5	0.03	0.00	_	0.43	4.4	J. I
O1R4104 R09005-05520-00 Uncoated		01R4103	R09005-05520-32	TiAIN	_	5.5	0.75	0.95	_	0.55	11	5.3
CR06 O1R4202 R09006-05820-00 Uncoated O1R4203 R09006-06020-32 TiAIN O1R4205 R09006-06020-00 Uncoated O1R4207 R09006-06320-32 TiAIN O1R4208 R09006-06520-32 TiAIN O1R4208 R09006-06520-32 TiAIN O1R4208 R09006-06520-00 Uncoated O1R4303 R09007-06820-00 Uncoated O1R4304 R09007-07020-32 TiAIN O1R4305 R09007-07020-32 TiAIN O1R4306 R09007-07320-32 TiAIN O1R4307 R09007-07320-32 TiAIN O1R4308 R09007-07820-32 TiAIN O1R4308 R09007-07820-30 Uncoated O1R4301 R09007-07820-30 Uncoated O1R4307 R09007-07820-30 TiAIN O1R4308 R09007-07820-00 Uncoated O1R4301 R09007-07820-00 Uncoated O1R4307 R09007-07820-00 Uncoated O1R4308 R09007-07820-00 Uncoated O1R4308 R09007-07820-00 Uncoated O1R4601 R09010-10010-32 TiAIN T.8 1.40 1.60 1.20 T.6 P.8 CR10		01R4104	R09005-05520-00	Uncoated		5.5		0.75 0.95		0.55	4.4	J.J
CR06 O1R4202 R09006-05820-00 O1R4203 R09006-06020-32 TiAIN O1R4205 R09006-06320-32 TiAIN O1R4206 R09006-06320-00 Uncoated O1R4207 R09006-06520-32 TiAIN O1R4208 R09006-06520-32 TiAIN O1R4208 R09007-076820-32 TiAIN O1R4301 R09007-07020-32 TiAIN O1R4302 R09007-07320-00 Uncoated O1R4305 R09007-07320-00 Uncoated O1R4307 R09007-07320-00 Uncoated O1R4307 R09007-07320-32 TiAIN O1R4308 R09007-07320-00 Uncoated O1R4307 R09007-07320-00 Uncoated O1R4308 R09007-07820-32 TiAIN O1R4308 R09007-07820-30 TiAIN O1R4308 R09007-07820-30 TiAIN O1R4308 R09007-07820-00 Uncoated O1R4601 R09010-10010-32 TiAIN K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4201	R09006-05820-32	TiAIN		5.9	0.75	0.05		0.55	17	5.6
CR06 O1R4204 R09006-06020-00 Uncoated O1R4205 R09006-06320-32 TiAIN O1R4206 R09006-06320-00 Uncoated O1R4207 R09006-06520-32 TiAIN O1R4208 R09006-06520-32 TiAIN O1R4208 R09007-06820-32 TiAIN O1R4304 R09007-06820-00 Uncoated O1R4301 R09007-07020-32 TiAIN O1R4302 R09007-07020-00 Uncoated O1R4305 R09007-07320-00 Uncoated O1R4307 R09007-07820-32 TiAIN O1R4308 R09007-07820-00 Uncoated O1R4601 R09010-10010-32 TiAIN K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4202	R09006-05820-00	Uncoated	_	5.0	0.73	0.93	_	0.55	4.7	5.0
CR06 01R4204 R09006-06020-00 Uncoated 01R4205 R09006-06320-32 TiAIN 01R4206 R09006-06320-00 Uncoated 01R4207 R09006-06520-32 TiAIN 01R4208 R09006-06520-00 Uncoated 01R4303 R09007-06820-32 TiAIN 01R4304 R09007-06820-00 Uncoated 01R4301 R09007-07020-32 TiAIN 01R4305 R09007-07020-00 Uncoated 01R4305 R09007-07320-32 TiAIN 01R4306 R09007-07320-32 TiAIN 01R4306 R09007-07320-00 Uncoated 01R4307 R09007-07820-32 TiAIN 01R4308 R09007-07820-32 TiAIN 01R4308 R09007-07820-00 Uncoated 01R4408 R09007-0782		01R4203	R09006-06020-32	TiAIN	TIAIN	6.0	0.85	1 05		0.65	47	5.9
01R4205 R09006-06320-32 TiAIN 01R4206 R09006-06320-00 Uncoated 01R4207 R09006-06520-32 TiAIN 01R4208 R09006-06520-00 Uncoated 01R4303 R09007-06820-32 TiAIN 01R4304 R09007-06820-00 Uncoated 01R4301 R09007-07020-32 TiAIN 01R4305 R09007-07020-00 Uncoated 01R4306 R09007-07320-32 TiAIN 01R4306 R09007-07320-00 Uncoated 01R4307 R09007-07820-32 TiAIN 01R4308 R09007-07820-00 Uncoated	CR06	01R4204	R09006-06020-00	Uncoated	KODE	0.0	0.00		2 40	0.03	4.7	5.0
O1R4206		01R4205	R09006-06320-32	TiAIN	NZUI	6.3	1 00		2.40	0.80	47	6.1
CR07 R09006-06520-00 Uncoated 01R4303 R09007-06820-32 TiAIN 01R4304 R09007-07020-32 TiAIN 01R4305 R09007-07020-30 Uncoated 01R4305 R09007-07020-30 Uncoated 01R4306 R09007-07320-30 Uncoated 01R4307 R09007-07320-00 Uncoated 01R4307 R09007-07820-30 Uncoated 01R4308 R09007-07820-30 Uncoated 01R4308 R09007-07820-00 Uncoated 01		01R4206	R09006-06320-00	Uncoated	_	0.3	1.00	1.20	_	0.00	4.7	0.1
CR07 CR07 CR09		01R4207	R09006-06520-32	TiAIN	_	6.5	1 10	1 30		0.00	47	6.3
CR07 01R4304 R09007-06820-00 Uncoated 01R4301 R09007-07020-32 TiAIN TiAIN 01R4302 R09007-07320-32 TiAIN 01R4306 R09007-07320-00 Uncoated 01R4307 R09007-07820-32 TiAIN 01R4308 R09007-07820-00 Uncoated 01R4308 R09007-07820-00 Uncoated 01R4308 R09007-07820-00 Uncoated 01R4601 R09010-10010-32 TiAIN K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8 R09007-07820-00		01R4208	R09006-06520-00	Uncoated		6.5	1.10	1.30		0.90	4.7	0.5
CR07 01R4304 R09007-06820-00 Uncoated		01R4303	R09007-06820-32	TiAIN		6.8	0.00	1 10		0.70	5.4	6.6
CR07 01R4302 R09007-07020-00 Uncoated 01R4305 R09007-07320-32 TiAIN 01R4306 R09007-07320-00 Uncoated 01R4307 R09007-07820-32 TiAIN 01R4308 R09007-07820-00 Uncoated 01R4601 R09010-10010-32 TiAIN K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4304	R09007-06820-00	Uncoated	_	0.0	0.90	1.10	_	0.70	3.4	0.0
CR07 01R4302 R09007-07020-00 Uncoated 01R4305 R09007-07320-32 TiAIN 01R4306 R09007-07320-00 Uncoated 01R4307 R09007-07820-32 TiAIN 01R4308 R09007-07820-00 Uncoated 01R4601 R09010-10010-32 TiAIN K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4301	R09007-07020-32	TiAIN	_	7.0	1 00	1 20		0.80	5 <i>1</i>	6.9
01R4305 R09007-07320-32 TiAIN 01R4306 R09007-07320-00 Uncoated 01R4307 R09007-07820-32 TiAIN 01R4308 R09007-07820-00 Uncoated 01R4601 R09010-10010-32 TiAIN CR10 CR10 CR10	CR07	01R4302	R09007-07020-00	Uncoated	KODE	7.0	1.00	1.20	2.0	0.00	3.4	0.0
01R4306 R09007-07320-00 Uncoated 01R4307 R09007-07820-32 TiAlN 01R4308 R09007-07820-00 Uncoated 01R4601 R09010-10010-32 TiAlN CR10 K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4305	R09007-07320-32	TiAIN	NZUI	7.3	1 15	1 25	3.0	0.05	5 <i>1</i>	7 1
01R4308 R09007-07820-00 Uncoated 7.8 1.40 1.60 1.20 5.4 7.6 CR10 R09010-10010-32 TiAIN K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4306	R09007-07320-00	Uncoated		7.5	1.13	1.55		0.93	3.4	7.1
01R4308 R09007-07820-00 Uncoated 01R4601 R09010-10010-32 TiAIN K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4307	R09007-07820-32	TiAIN		7.0	1 10	4.00	_	1 20	E 1	7.6
CR10 K20F 10.0 1.45 1.55 3.60 1.20 7.6 9.8		01R4308	R09007-07820-00	Uncoated		7.8	1.40	1.40 1.60		1.20	J.4	7.0
NZUF 10.0 1.40 1.00 0.00 1.20 7.0 9.0	CP10	01R4601	R09010-10010-32	TiAIN	KONE	10.0	1.45 1.55	15 155	3 60	1.20	7.6	0.8
01R4602 R09010-10010-00 Uncoated	CKIU	01R4602	R09010-10010-00	Uncoated	NZUF			3.60	1.20	7.0	9.0	

MCC Mill- Parallel Thread



▶ Inserts >>

NC2032: • TiAIN coating provides longer tool life.

• For all kinds of steel < HRC50, carbon steel, alloy steel and cast iron.

XP90<u>00</u>: • High positive and sharp edge produces excellent surface finish.

• For non-ferrous material such as aluminum, brass, copper and soft material.

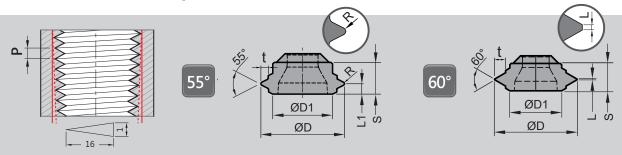
▶ 60° Parallel Thread: such as metric thread.

Size	Code	Parts No.	Coating	Grade	ØD	ØD1	L	S	Pit	tch range
Size	Code	Parts NO.	Coating	Grade	±0.025	וטש	L	±0.025		mm
	01R2101	R06005-05006-32	TiAIN		5.0	3.9	0.06	2.0	Internal	0.6 ~ 0.75
CR05	01R2102	R06005-05006-00	Uncoated	K20F	5.0	3.9	0.00	2.0	External	0.5 ~ 0.7
CKUS	01R2103	R06005-05010-32	TiAIN	NZUI*	5.0	3.9	0.10	2.0	Internal	0.8 ~ 1.0
	01R2104	R06005-05010-00	Uncoated		5.0	3.8	0.10	2.0	External	0.6 ~ 0.8
CR07	01R2301	R06007-06810-32	TiAIN	K20F	0F 6.8	5.5	0.10	2.35	Internal	0.8 ~ 1.25
- CRU1	01R2302	R06007-06810-00	Uncoated	NZUI	0.0	5.5	0.10	2.33	External	0.7 ~ 1.0
	01R2601	R06010-08510-32	TiAIN		0.5	2.0	0.40	3.60	Internal	1.0 ~ 1.5
CR10	01R2602	R06010-08510-00	Uncoated	KONE	8.5	6.9	0.10	3.00	External	0.7 ~ 1.0
OKIU	01R2603	R06010-10010-32	TiAIN		10.0	6.9	0.10	3.60	Internal	1.0 ~ 2.0
	01R2604	R06010-10010-00	Uncoated		10.0 6.9		0.9		External	1.0 ~ 1.75

▶ 55° Parallel Pipe Thread: such as ISO/JIS-G, PF, Rp, PS; BSPP.

Sizo	Size Code Parts No. Coati		Coating	oating Grade	ØD	ØD1		S	Pitch range
Size	Code	Parts NO.	Coating	Grade	±0.025	0.025	L	±0.025	TPI
CR07	01R1301	R05507-06512-32	TiAIN	K20F	6.56	5.32	0.12	2.35	28
CRUT	01R1302	R05507-06512-00	Uncoated	NZUI	0.50	3.32	0.12	2.00	20
CB10	01R1601	R05510-10018-32	TiAIN	KONE	10.0	6.92	0.18	3.60	19 & 14
CR10 —	01R1602	R05510-10018-00	Uncoated	K20F	10.0	0.92			13 0 14

MCC Mill- Tapered Thread



▶ Inserts >>

NC2032: • TiAIN coating provides longer tool life.

• For all kinds of steel < HRC50, carbon steel, alloy steel and cast iron.

XP9000: • High positive and sharp edge produces excellent surface finish.

 For non-ferrous material such as aluminum, brass, copper and soft material.

▶ 55° Tapered Pipe Thread: such as ISO/JIS-R, PT, Rc; BSPT.

• Mill a tapered thread directly into a drilled hole without the need to pre-mill the taper.

Size	Code	Parts No. Coating Grade		ØD	ØD1 t		R	L1	S	Pitch range	
Size	Code	Faits No.	Coating	Grade	±0.025	·	K	LI	±0.025	TPI	
	01R1603	R05510-09516-32	TiAIN	K20F	9.50	6.8	0.85	0.18	1.18	3.6	19
CB40	01R1604	R05510-09516-00	Uncoated	NZUF	9.50	0.0	0.03	0.10	1.10	3.0	19
CR10 -	01R1605	R05510-10025-32	TiAIN	KOOF	10.0	6.0	1 16	0.25	1 10	2.6	1.1
	01R1606	R05510-10025-00	Uncoated	K20F	10.0	6.8	1.16	0.25	1.42	3.6	14

▶ 60° Tapered Thread: such as NPT.

Size	Code	Parts No.	Coating	Grade	ØD	ØD1	4		S	Pitch range
Size	Code	Parts NO.	Coating	Grade	±0.025	ι	L	±0.025	TPI	
	01R2605	R06010-09808-32	TiAIN	K20F	9.80	6.8	1.08	0.08	3.6	18
	01R2606	R06010-09808-00	Uncoated	NZUI	9.00	0.0	1.00	0.00	3.0	10
CR10 —	01R2607	R06010-10810-32	TiAIN	KONE	10.8	6.0	1.00	0.10	2.6	14
	01R2608	R06010-10810-00	Uncoated	K20F		6.8		0.10	3.6	14



MCC Mill Indexable type

- Minimum Consumable Cutting Reduces the tungsten carbide raw material, reduces carbon emission.
- One holder supports various inserts. Economical and flexibility.
- •Min. deburring bore from $\emptyset 4.2 \sim \emptyset 10$ mm. The smallest internal threading from M6xP0.75.

MCC Mill- Holder

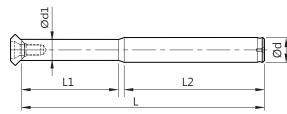
▶ Feature >>

- Patented clamping system for accurate positioning.
- Dual-contact insert pocket, the repeatability is guaranteed.



▶ Cylindrical Shank >>

- Various OAL holders for your choice.
- Carbide shank holders good for fine finish.





Size	Code	Parts No.	Туре	Shank	Ød	Ød1	L1	L2	L	Screw / Key
	70R104	00-99626-CR05-06-039	BC06-CR05-039		6	3.5	4	33	39	
	70R105	00-99626-CR05-06-045	BC06-CR05-045	•	6	3.5	10	33	45	_
CR05	70R103	00-99626-CR05-08-076	BC08-CR05-076	Steel	8	3.5	10	60	74	*NS-20045 0.6Nm/
CRUS	70R101	00-99626-CR05-05-043	BC05-CR05-043		5	3.5	16	24	41	NK-T6
	70R106	00-99626-CR05-06-051	BC06-CR05-051		6	3.5	16	33	51	_
	70R107	00-99626-CR05-06-051W	BC06-CR05-051W	Carbide	6	3.5	16	33	51	_
	70R201	00-99626-CR06-06-041	BC06-CR06-041		6	4.3	6	33	41	*NS-22062
CR06	70R202	00-99626-CR06-06-047	BC06-CR06-047	Steel	6	4.3	12	33	47	0.9Nm /
	70R203	00-99626-CR06-06-053	BC06-CR06-053		6	4.3	18	33	53	NK-T7
	70R304	00-99626-CR07-06-041	BC06-CR07-041		6	5.0	6	33	41	
	70R303	00-99626-CR07-08-078	BC08-CR07-078		8	5.0	13	60	75	-
CR07	70R305	00-99626-CR07-06-049	BC06-CR07-049	Steel	6	5.0	14	33	49	*NS-25060
CRU	70R301	00-99626-CR07-06-052	BC06-CR07-052		6	5.0	21	27	49	- 0.9Nm / NK-T7
	70R306	00-99626-CR07-06-057	BC06-CR07-057		6	5.0	22	33	57	-
	70R307	00-99626-CR07-06-057W	BC06-CR07-057W	Carbide	6	5.0	22	33	57	
	70R604	00-99626-CR10-08-049	BC08-CR10-049		8	6.8	7	40	49	
	70R603	00-99626-CR10-08-082	BC08-CR10-082	Steel	8	6.8	16	60	78	NS-35080
CR10	70R605	00-99626-CR10-08-059	BC08-CR10-059	Steel	8	6.8	17	40	59	2.5Nm /
	70R606	00-99626-CR10-08-069	BC08-CR10-069		8	6.8	27	40	69	NK-T15
	70R607	00-99626-CR10-08-084W	BC08-CR10-084W	Carbide	8	6.8	27	55	84	

^{*}Torque screwdriver is recommended.

▶ Single Set >>

• Included one holder and one insert is available on request.

Davida Na	included			Holder included	Contont		
Parts No.	Type / grade	ØD ±0.025	С	S ±0.025	Shank	L	Content
00-99626-R106-4101	R09005-05060-32	5.0	0.4	2.00	00-99626-CR05-06-051	51	1 tool holder
00-99626-R306-4301	R09007-07020-32	7.0	0.7	2.35	00-99626-CR07-06-057	57	+ 1 inserts
00-99626-R606-4601	R09010-10010-32	10.0	1.2	3.60	00-99626-CR10-08-069	69	+ 1 key

Cutting Data

▶60° & 90° deburring mill >>

	Workpiece material	Vc (m/min)	Feed rate (mm / tooth)	Grade of insert
	Carbon steel	80 ~ 250	0.005 ~ 0.12	NC2032
	Alloy steel	60 ~ 200	0.005 ~ 0.10	NC2032
M	Stainless steel	40 ~ 120	0.005 ~ 0.10	NC2032
K	Cast iron	60 ~ 180	0.005 ~ 0.10	NC2032
N	Non-ferrous metal	100 ~ 500	0.005 ~ 0.15	XP9000
Н	Hardened steel < HRC60	30 ~ 80	0.005 ~ 0.05	NC2032

▶ 55° & 60° threading mill >>

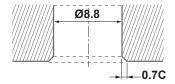
	Workpiece material	Vc (m/min)	Feed rate (mm / tooth)	Grade of insert
L	Carbon steel	40 ~ 120	0.002 ~ 0.013	NC2032
	Alloy steel	30 ~ 90	0.002 ~ 0.01	NC2032
M	Stainless steel	30 ~ 80	0.002 ~ 0.01	NC2032
K	Cast iron	40 ~ 100	0.002 ~ 0.01	NC2032
N	Non-ferrous metal	60 ~ 200	0.002 ~ 0.013	XP9000
Н	Hardened steel < HRC50	20 ~ 60	0.002 ~ 0.008	NC2032

▶ Performance >>

Work Task: C0.7 back chamfering

Material: Stainless Steel

Machine: MECTRON MTS-C420



Tool	Nine				
	MCC Deburring Mill Holder: 00-99626-CR07-049 Insert: R09007-07020-32	Carbide chamfering cutter			
Deburring	0.7 mm	0.7 mm			
Dia. of cutter mm	7	8			
Teeth of cutter	6	3			
Spindle Speed r.p.m.	2500	2500			
Feed rate mm/min	300	150			
	RESULT				
Tool life	720 workpiece kigher	90 workpiece			

▶ Sample program of internal thread milling

Workpiece: S45C Thread: M6xP1.0 Prebore: ø5 depth 9.5 mm O00001 (M6*P1.0*9L) Tool holder: 00-99626-CR05-06-045 G00 G90 X0. Y0. S5100 M03 Insert: R06005-05010-32 G43 H01 Z30. M08 Cutting data: 75. Vc= 80 m/min. G01 Z-9. F150. fz= 0.004mm/tooth G03 X0.52 Y0. R1. F35. S= 5100 rpm F= 122.4mm/min. G03 I-0.52 Z-8. F122.4 (feed rate of tool center) G03 I-0.52 Z-7. G03 I-0.52 Z-6. G03 I-0.52 Z-5. G03 I-0.52 Z-4. G03 I-0.52 Z-3. G03 I-0.52 Z-2. G03 I-0.52 Z-1. G03 I-0.52 Z0. G03 I-0.52 Z1. G00 G90 Z5. M09 G28 G91 Z0. M05 G28 G91 Y0. M30 Ø5^{+0.15} % M6xP1.0

Workpiece: Carbon steel Thread: M8xP1.25 %1030 Prebore: ø6.8 depth 12.5 mm G00G90X0.Y0. Tool holder: 00-99626-CR07-06-049 S4680 M03 Insert: R06007-06810-32 G43H03Z30. M08 Z5. Cutting data: G01 Z-12. F200. Vc= 100 m/min. G03 X0.65 Y0. R0.8 F46.8 fz= 0.005mm/tooth G03 I-0.65 Z0-10.75 F140.4 S= 4680 rpm G03 I-0.65 Z-9.5 F= 140.4 mm/min. G03 I-0.65 Z-8.25 (feed rate of tool center) G03 I-0.65 Z-7. G03 I-0.65 Z-5.75 G03 I-0.65 Z-4.5 G03 I-0.65 Z-3.25 G03 I-0.65 Z-2. G03 I-0.65 Z-0.75 G03 I-0.65 Z0.5 12.5 G00 G90 Z5. M09 G00 G90 Z30. M05

Workpiece: Carbon steel Thread: PT 1/4 Prebore: ø10.7 depth 15.5 mm Tool holder: 00-99626-CR10-08-069 Insert: R05510-09516-32 15.5 5 Cutting data: Vc= 100 m/min. fz= 0.007mm/tooth S= 3183 rpm Ø10.7 F= 135 mm/min. (feed rate of tool center) PT 1/4 (main program); G65P0419U54.X0.Y45.Z20.R0.T7.V100.F0.007Q15.D0.1; M05: M09: G91G28Z0.; G91G28Y0.; M30; (sub program); O0419: IF[#4120EQ#20]GOTO99; G17G21G40G80; N99; #101=13.157+#7; #102=9.5: #103=19.; #100=#101-#102; #104=10.; #105=[25.4/#103]; #106=3.1416/180; #107=[[#22]*1000]/[[#102]*3.1416]; #111=0.: #112=[#100/2]; #113=0 #114=[#105*1.5]; #115=[#112+[[#105*[1/32]]*1.5]]; #112=#115; S#107M03; /M8: G90G#21G00X#24Y#25; G43Z#26H#4120: G90G00X[#112+#24]Y[#113+#25]Z[#114+#18] F[[#4119*#9]*6.]; N1000; #116=[#116+#104]; #119=[[[-#105]*[#116/360.]]+#114]; #120=[#112-[[#105*[1/32]]*[#116/360.]]]; #117=[[COS[[[#116*#106]/3.1416]*180.]]*#120]; #118=[[SIN[[[#116*#106]/3.1416]*180.]]*[-#120]]; G90G02X[#117+#24]Y[#118+#25]Z[#119+#18] R[#120]F[[#4119*#9]*6.]; IF[[ABS[#119]]GE#17]GOTO9000; GÖTO1000; N9000; G90G01X#24Y#25; G90G01Z#18F1500.; G90G00Z#26; M09 M99;

Friendly reminding: Upward and outward thread milling is recommended for all threads, except 55° PT threading.

G28 G91 Z0.

M30

%



Ø6.8

M8*P1.25

