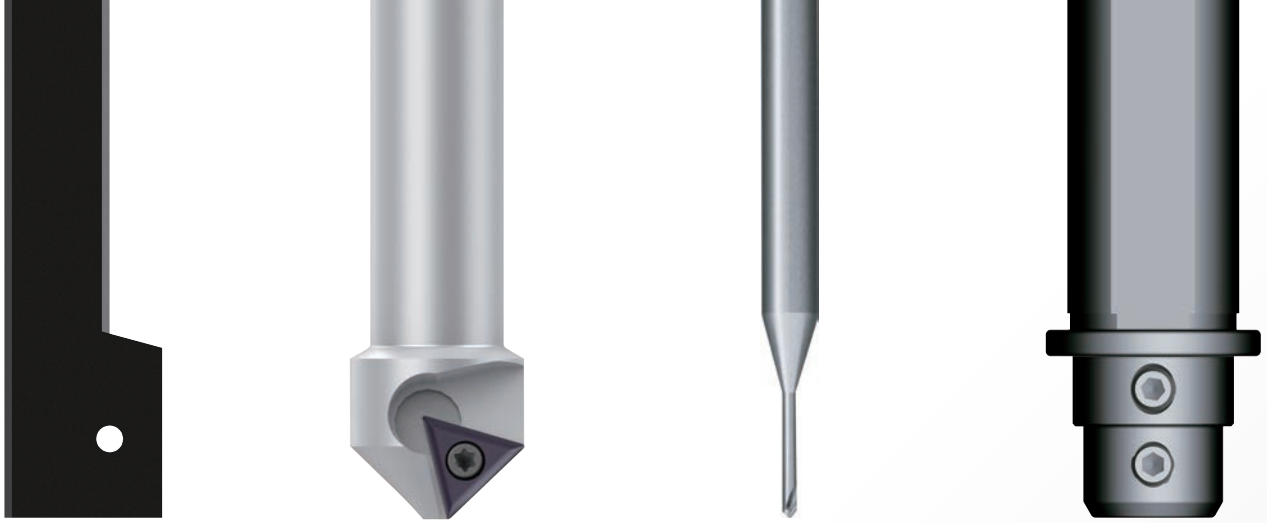




NICECUT®

DIGEST GUIDE
by FUJIGEN KOGYO

FUJIGEN KOGYO CO.,LTD.



NICECUT[®]

INNOVATION × REALIZATION

Through continuous creative innovation and precision execution,
we aspire to be universally trusted as
"FUJIGEN — the ultimate specialists in chamfering solutions"



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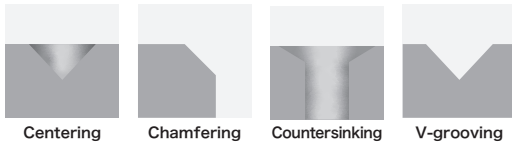
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Momimen nano

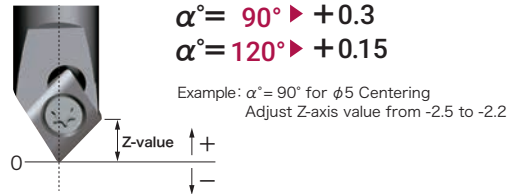


1-blade

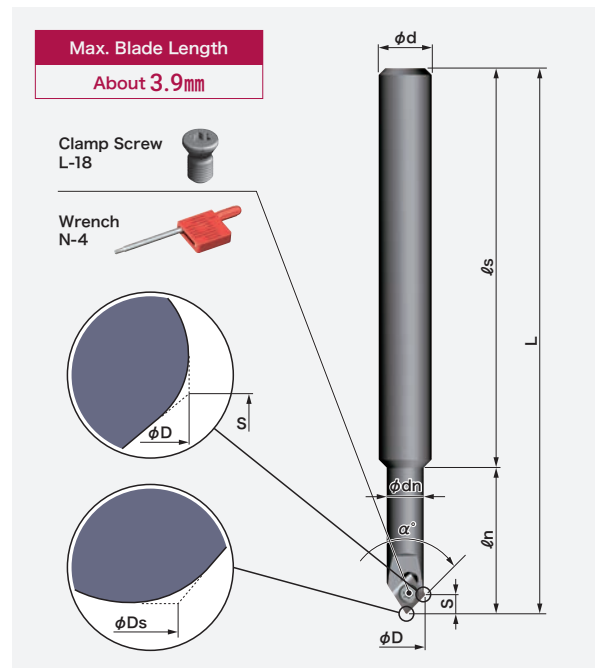
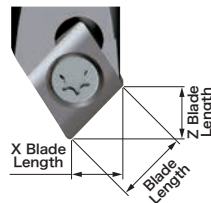


Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.



Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α°
				ϕD	ϕD_s	ϕd	ϕd_n	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length	
SCN0845E	1	About 3.9mm	$\phi 0.6\text{mm} \sim \phi 5.8\text{mm}$	6.0	0.58	8	5.6	82	60	22	2.8	2.7	2.7	90°
SCN0830E	1	About 3.9mm	$\phi 0.6\text{mm} \sim \phi 7.2\text{mm}$	7.3	0.52	8	7	82	60	22	2.0	3.3	1.9	120°

※Insert is not included as standard accessory. Please order separately. ※Clamp screw and wrench are included as standard accessories.

⚠ Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during V-grooving or centering processing.

Insert details ▶ 49 page

Chibimomi

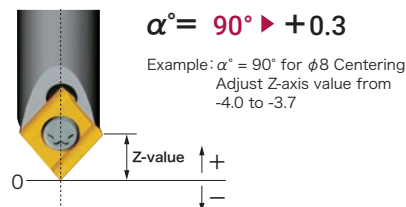


1-blade

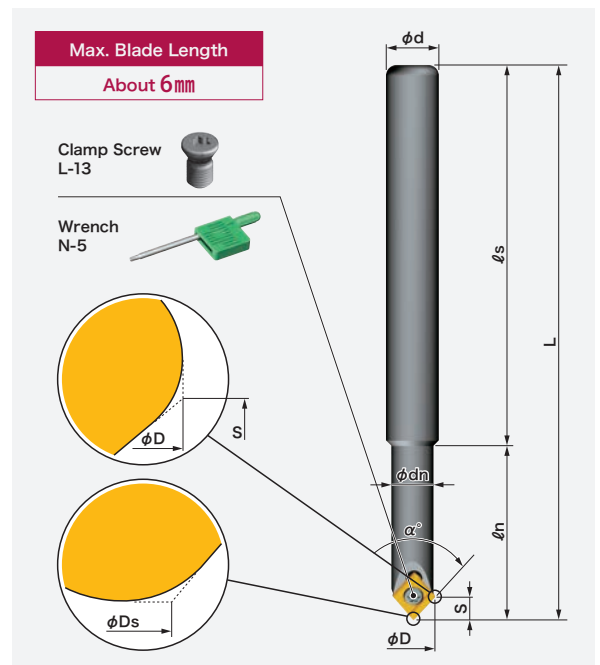
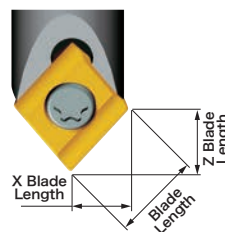


Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.



Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α°
				ϕD	ϕD_s	ϕd	ϕd_n	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length	
SCM1045C	1	About 6mm	$\phi 0.6\text{mm} \sim \phi 8.6\text{mm}$	9.0	0.58	10	8	105	72	33	4.38	4.2	4.2	90°
SCM1045CL	1	About 6mm	$\phi 0.6\text{mm} \sim \phi 8.6\text{mm}$	9.0	0.58	10	8	165	132	33	4.38	4.2	4.2	90°

※Insert is not included as standard accessory. Please order separately. ※Clamp screw and wrench are included as standard accessories.

⚠ Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.

Insert details ▶ 49 page

Momimen



Centering Chamfering Countersinking

1-blade

Reference Guide for Z-Axis Offset Adjustment During Machining

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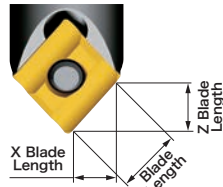


$$\alpha^\circ = 90^\circ \triangleright +0.5$$

$$\alpha^\circ = 118^\circ \triangleright +0.2$$

Example: $\alpha^\circ = 90^\circ$ for $\phi 12$ Centering
Adjust Z-axis value from -6.0 to -5.5

Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α°
				ϕD	ϕD_s	ϕd	ϕd_n	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length	
SC1045C	1	About 9mm	$\phi 2.0\text{mm} \sim \phi 12.5\text{mm}$	13.5	1.00	10	13	110	82	28	6.3	5.6	5.6	90°
SC1245C	1	About 9mm	$\phi 2.0\text{mm} \sim \phi 12.5\text{mm}$	13.5	1.00	12	13	110	82	28	6.3	5.6	5.6	90°
SC1645C	1	About 9mm	$\phi 2.0\text{mm} \sim \phi 12.5\text{mm}$	13.5	1.00	16	13	110	82	28	6.3	5.6	5.6	90°
SC1645CL	1	About 9mm	$\phi 2.0\text{mm} \sim \phi 12.5\text{mm}$	13.5	1.00	16	13	200	172	28	6.3	5.6	5.6	90°
SC1630C	1	About 9mm	$\phi 2.0\text{mm} \sim \phi 15.0\text{mm}$	16.2	1.00	16	16.5	110	82	28	4.6	6.7	4.0	118°
SC1630CL	1	About 9mm	$\phi 2.0\text{mm} \sim \phi 15.0\text{mm}$	16.2	1.00	16	16.5	200	172	28	4.6	6.7	4.0	118°

※Insert is not included as standard accessory. Please order separately. ※Lock pin and wrench are included as standard accessories.



Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.
Do not tighten the insert in the reverse direction during installation.
The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied.

Insert details ▶ 49 page

Dekamomi

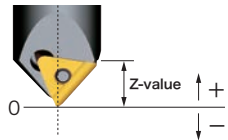


Centering Chamfering Countersinking

1-blade

Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.

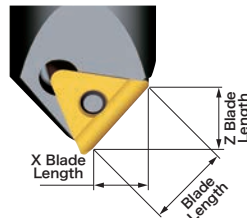


$$\alpha^\circ = 90^\circ \triangleright +1.0$$

$$\alpha^\circ = 120^\circ \triangleright +0.6$$

Example: $\alpha^\circ = 90^\circ$ for $\phi 20$ Centering
Adjust Z-axis value from -10.0 to -9.0

Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α°
				ϕD	ϕD_s	ϕd	ϕd_n	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length	
SC2045T	1	About 14.4mm	$\phi 3.8\text{mm} \sim \phi 22.0\text{mm}$	22.4	1.99	20	22	130	100	30	10.5	9.7	9.7	90°
SC2045TL	1	About 14.4mm	$\phi 3.8\text{mm} \sim \phi 22.0\text{mm}$	22.4	1.99	20	22	200	170	30	10.5	9.7	9.7	90°
SC2545TL	1	About 14.4mm	$\phi 3.8\text{mm} \sim \phi 22.0\text{mm}$	22.4	1.99	25	22	200	150	50	10.5	9.7	9.7	90°
SC2530T	1	About 14.4mm	$\phi 3.8\text{mm} \sim \phi 25.5\text{mm}$	26.6	2.00	25	25	130	95	35	7.4	11.7	6.7	120°
SC3230TL	1	About 14.4mm	$\phi 3.8\text{mm} \sim \phi 25.5\text{mm}$	26.6	2.00	32	25	200	150	50	7.4	11.7	6.7	120°

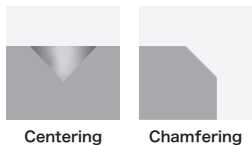
※Insert is not included as standard accessory. Please order separately. ※Lock pin and wrench are included as standard accessories.



Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.
Do not tighten the insert in the reverse direction during installation.
The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied.

Insert details ▶ 49 page

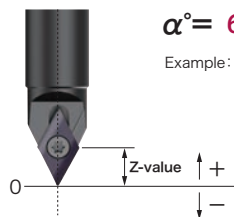
60° Momimen



1-blade

Reference Guide for Z-Axis Offset Adjustment During Machining

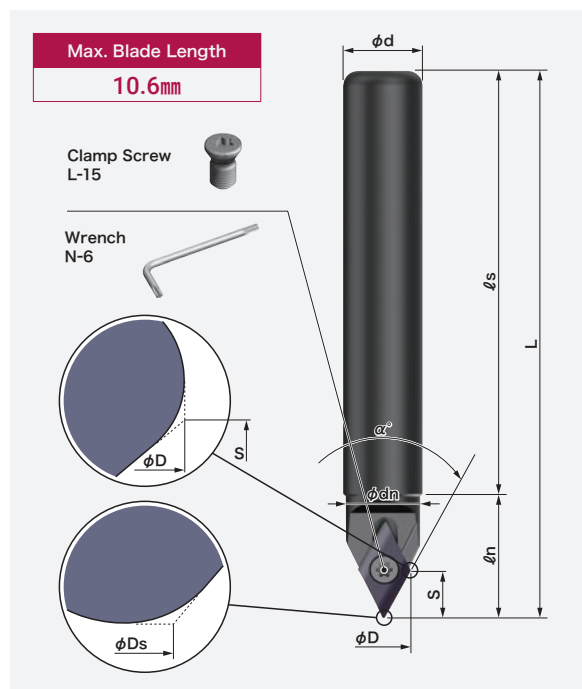
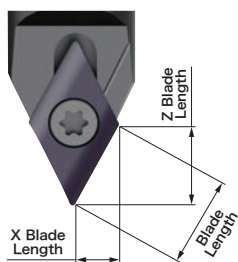
※The values stated herein are representative only and subject to manufacturing tolerances.



$$\alpha^{\circ} = 60^{\circ} \triangleright +0.82$$

Example: $\alpha^{\circ} = 60^{\circ}$ for $\phi 10$ Centering
Adjust Z-axis value from
-8.66 to -7.84

Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α°
				ϕD	ϕD_s	ϕd	ϕd_n	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length	
SC1660DS	1	About 10.6mm	$\phi 1.2\text{mm} \sim \phi 11.5\text{mm}$	11.9	0.97	16	15	110	85	25	9.4	5.3	9.2	60°
SC1660DSL	1	About 10.6mm	$\phi 1.2\text{mm} \sim \phi 11.5\text{mm}$	11.9	0.97	16	15	200	175	25	9.4	5.3	9.2	60°

※Insert is not included as standard accessory. Please order separately. ※Clamp screw and wrench are included as standard accessories.

Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.

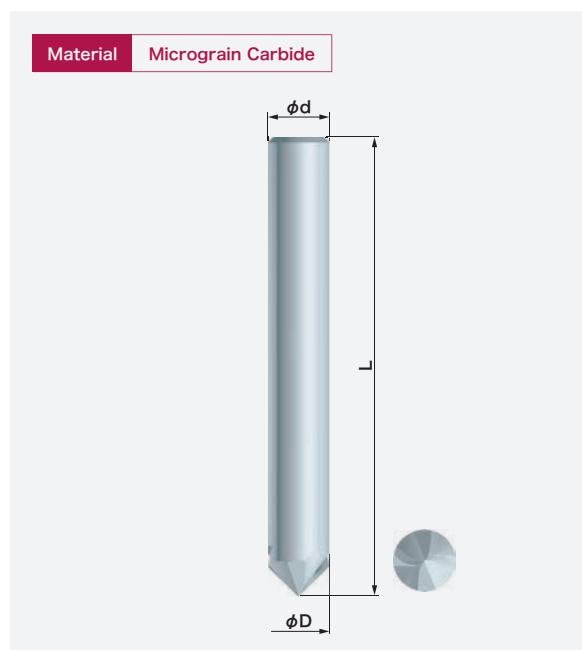
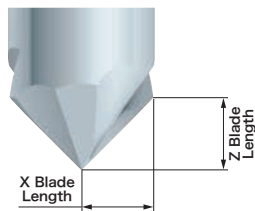
Insert details ▶ 49 page

Alumizamurai



2-blade

Blade Length



Body

Model No.	No. of Blade(s)	Capacity Dish Chamfering Processing	Dimensions(mm)				
			ϕD	ϕd	L	X Blade Length	Z Blade Length
AZ4-90-L60	2	$\phi 0.05\text{mm} \sim \phi 4\text{mm}$	4	4	60	2	2
AZ6-90-L75	2	$\phi 0.05\text{mm} \sim \phi 6\text{mm}$	6	6	75	3	3
AZ10-90-L75	2	$\phi 0.05\text{mm} \sim \phi 10\text{mm}$	10	10	75	5	5
AZ10-90-L120	2	$\phi 0.05\text{mm} \sim \phi 10\text{mm}$	10	10	120	5	5

Non-regrindable

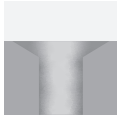
Tsunko



Centering



Chamfering

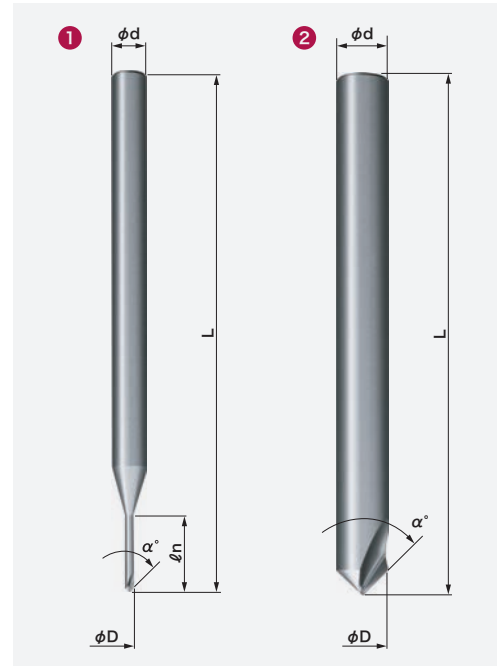


Countersinking

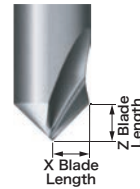
1-blade

Body

Model No.	Fig.	No. of Blade(s)	Capacity Dish Chamfering Processing	Dimensions(mm)						α°	Coating
				ϕD	ϕd	L	ℓn	X Blade Length	Z Blade Length		
TNK0145	1	1	$\phi 0.05\text{mm} \sim \phi 1\text{mm}$	1	4	60	9	0.5	0.5	90°	-
TNK0245	1	1	$\phi 0.05\text{mm} \sim \phi 2\text{mm}$	2	4	60	9	1	1	90°	-
TNK0345	2	1	$\phi 0.05\text{mm} \sim \phi 3\text{mm}$	3	3	60	-	1.5	1.5	90°	-
TNK0445	2	1	$\phi 0.05\text{mm} \sim \phi 4\text{mm}$	4	4	60	-	2	2	90°	-
TNK0545	2	1	$\phi 0.05\text{mm} \sim \phi 5\text{mm}$	5	5	60	-	2.5	2.5	90°	-
TNK0645	2	1	$\phi 0.05\text{mm} \sim \phi 6\text{mm}$	6	6	60	-	3	3	90°	-
TNK0145C	1	1	$\phi 0.05\text{mm} \sim \phi 1\text{mm}$	1	4	60	9	0.5	0.5	90°	AlCrN
TNK0245C	1	1	$\phi 0.05\text{mm} \sim \phi 2\text{mm}$	2	4	60	9	1	1	90°	AlCrN
TNK0345C	2	1	$\phi 0.05\text{mm} \sim \phi 3\text{mm}$	3	3	60	-	1.5	1.5	90°	AlCrN
TNK0445C	2	1	$\phi 0.05\text{mm} \sim \phi 4\text{mm}$	4	4	60	-	2	2	90°	AlCrN
TNK0545C	2	1	$\phi 0.05\text{mm} \sim \phi 5\text{mm}$	5	5	60	-	2.5	2.5	90°	AlCrN
TNK0645C	2	1	$\phi 0.05\text{mm} \sim \phi 6\text{mm}$	6	6	60	-	3	3	90°	AlCrN
TNK0145DLC	1	1	$\phi 0.05\text{mm} \sim \phi 1\text{mm}$	1	4	60	9	0.5	0.5	90°	DLC
TNK0245DLC	1	1	$\phi 0.05\text{mm} \sim \phi 2\text{mm}$	2	4	60	9	1	1	90°	DLC
TNK0345DLC	2	1	$\phi 0.05\text{mm} \sim \phi 3\text{mm}$	3	3	60	-	1.5	1.5	90°	DLC
TNK0445DLC	2	1	$\phi 0.05\text{mm} \sim \phi 4\text{mm}$	4	4	60	-	2	2	90°	DLC
TNK0545DLC	2	1	$\phi 0.05\text{mm} \sim \phi 5\text{mm}$	5	5	60	-	2.5	2.5	90°	DLC
TNK0645DLC	2	1	$\phi 0.05\text{mm} \sim \phi 6\text{mm}$	6	6	60	-	3	3	90°	DLC



Blade Length



60°Tsunko



Centering

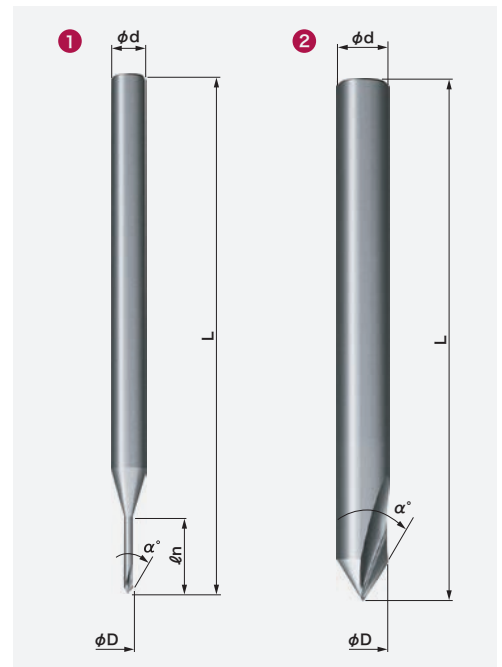


Chamfering

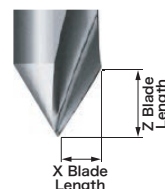
1-blade

Body

Model No.	Fig.	No. of Blade(s)	Capacity Dish Chamfering Processing	Dimensions(mm)						α°	Coating
				ϕD	ϕd	L	ℓn	X Blade Length	Z Blade Length		
TNK0160	1	1	$\phi 0.05\text{mm} \sim \phi 1\text{mm}$	1	4	60	9	0.5	0.87	60°	-
TNK0260	1	1	$\phi 0.05\text{mm} \sim \phi 2\text{mm}$	2	4	60	9	1	1.73	60°	-
TNK0360	2	1	$\phi 0.05\text{mm} \sim \phi 3\text{mm}$	3	3	60	-	1.5	2.6	60°	-
TNK0460	2	1	$\phi 0.05\text{mm} \sim \phi 4\text{mm}$	4	4	60	-	2	3.46	60°	-
TNK0560	2	1	$\phi 0.05\text{mm} \sim \phi 5\text{mm}$	5	5	60	-	2.5	4.33	60°	-
TNK0660	2	1	$\phi 0.05\text{mm} \sim \phi 6\text{mm}$	6	6	60	-	3	5.2	60°	-
TNK0160C	1	1	$\phi 0.05\text{mm} \sim \phi 1\text{mm}$	1	4	60	9	0.5	0.87	60°	AlCrN
TNK0260C	1	1	$\phi 0.05\text{mm} \sim \phi 2\text{mm}$	2	4	60	9	1	1.73	60°	AlCrN
TNK0360C	2	1	$\phi 0.05\text{mm} \sim \phi 3\text{mm}$	3	3	60	-	1.5	2.6	60°	AlCrN
TNK0460C	2	1	$\phi 0.05\text{mm} \sim \phi 4\text{mm}$	4	4	60	-	2	3.46	60°	AlCrN
TNK0560C	2	1	$\phi 0.05\text{mm} \sim \phi 5\text{mm}$	5	5	60	-	2.5	4.33	60°	AlCrN
TNK0660C	2	1	$\phi 0.05\text{mm} \sim \phi 6\text{mm}$	6	6	60	-	3	5.2	60°	AlCrN
TNK0160DLC	1	1	$\phi 0.05\text{mm} \sim \phi 1\text{mm}$	1	4	60	9	0.5	0.87	60°	DLC
TNK0260DLC	1	1	$\phi 0.05\text{mm} \sim \phi 2\text{mm}$	2	4	60	9	1	1.73	60°	DLC
TNK0360DLC	2	1	$\phi 0.05\text{mm} \sim \phi 3\text{mm}$	3	3	60	-	1.5	2.6	60°	DLC
TNK0460DLC	2	1	$\phi 0.05\text{mm} \sim \phi 4\text{mm}$	4	4	60	-	2	3.46	60°	DLC
TNK0560DLC	2	1	$\phi 0.05\text{mm} \sim \phi 5\text{mm}$	5	5	60	-	2.5	4.33	60°	DLC
TNK0660DLC	2	1	$\phi 0.05\text{mm} \sim \phi 6\text{mm}$	6	6	60	-	3	5.2	60°	DLC



Blade Length



※ A flat surface of approximately 0.05mm will be formed at the bottom during V-grooving machining.

Momimen PICO



2-blade



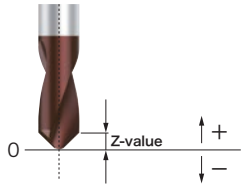
Centering

Chamfering

Countersinking

Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.



SCP0345 ▶ +0.16

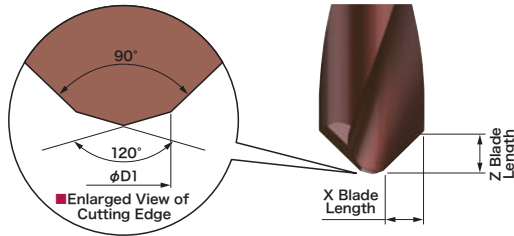
SCP0445 ▶ +0.21

SCP0545 ▶ +0.26

SCP0645 ▶ +0.32

Example: SCP0345 for $\phi 2$ Centering
Adjust Z-axis value from -1.0 to -0.84

Blade Length



Body

Model No.	No. of Blade(s)	Capacity Dish Chamfering Processing	Dimensions(mm)							Coating
			ϕD	$\phi D1$	ϕd	L	$\ell 1$	X Blade Length	Z Blade Length	
SCP0345F	2	$\phi 0.75\text{mm} \sim \phi 3.0\text{mm}$	3	0.75	3	50	8	1.1	1.1	TiAlN
SCP0445F	2	$\phi 1.0\text{mm} \sim \phi 4.0\text{mm}$	4	1.0	4	50	10	1.5	1.5	TiAlN
SCP0545F	2	$\phi 1.25\text{mm} \sim \phi 5.0\text{mm}$	5	1.25	5	50	13	1.8	1.8	TiAlN
SCP0645F	2	$\phi 1.5\text{mm} \sim \phi 6.0\text{mm}$	6	1.5	6	50	15	2.2	2.2	TiAlN
SCP0345FL	2	$\phi 0.75\text{mm} \sim \phi 3.0\text{mm}$	3	0.75	3	100	8	1.1	1.1	TiAlN
SCP0445FL	2	$\phi 1.0\text{mm} \sim \phi 4.0\text{mm}$	4	1.0	4	100	10	1.5	1.5	TiAlN
SCP0545FL	2	$\phi 1.25\text{mm} \sim \phi 5.0\text{mm}$	5	1.25	5	100	13	1.8	1.8	TiAlN
SCP0645FL	2	$\phi 1.5\text{mm} \sim \phi 6.0\text{mm}$	6	1.5	6	100	15	2.2	2.2	TiAlN
SCP0345S	2	$\phi 0.75\text{mm} \sim \phi 3.0\text{mm}$ (High Helix)	3	0.75	3	50	8	1.1	1.1	TiAlN
SCP0445S	2	$\phi 1.0\text{mm} \sim \phi 4.0\text{mm}$ (High Helix)	4	1.0	4	50	10	1.5	1.5	TiAlN
SCP0545S	2	$\phi 1.25\text{mm} \sim \phi 5.0\text{mm}$ (High Helix)	5	1.25	5	50	13	1.8	1.8	TiAlN
SCP0645S	2	$\phi 1.5\text{mm} \sim \phi 6.0\text{mm}$ (High Helix)	6	1.5	6	50	15	2.2	2.2	TiAlN
SCP0345SL	2	$\phi 0.75\text{mm} \sim \phi 3.0\text{mm}$ (High Helix)	3	0.75	3	100	8	1.1	1.1	TiAlN
SCP0445SL	2	$\phi 1.0\text{mm} \sim \phi 4.0\text{mm}$ (High Helix)	4	1.0	4	100	10	1.5	1.5	TiAlN
SCP0545SL	2	$\phi 1.25\text{mm} \sim \phi 5.0\text{mm}$ (High Helix)	5	1.25	5	100	13	1.8	1.8	TiAlN
SCP0645SL	2	$\phi 1.5\text{mm} \sim \phi 6.0\text{mm}$ (High Helix)	6	1.5	6	100	15	2.2	2.2	TiAlN



Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.
Non-regrindable

Chibieco

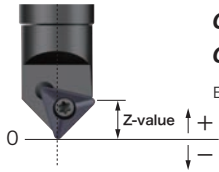


Centering Chamfering Countersinking

1-blade

Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.

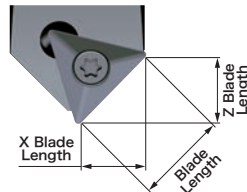


$$\alpha^\circ = 90^\circ \triangleright +0.44$$

$$\alpha^\circ = 120^\circ \triangleright +0.20$$

Example: $\alpha^\circ = 90^\circ$ for $\phi 5$ Centering
Adjust Z-axis value from -2.5 to -2.06

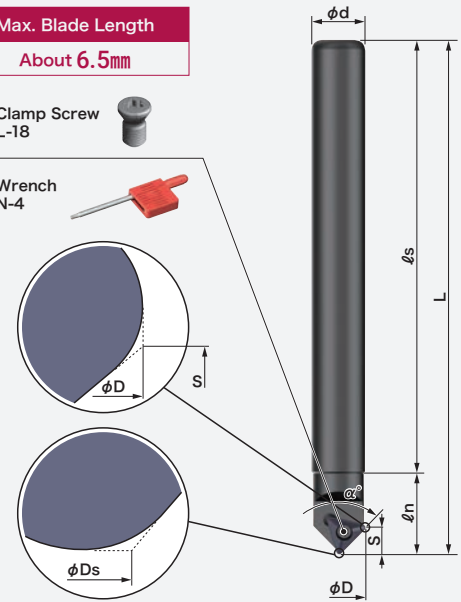
Blade Length



Max. Blade Length
About 6.5mm

Clamp Screw L-18

Wrench N-4



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)									α°
				ϕD	ϕD_s	ϕd	L	l_s	l_n	S	X Blade Length	Z Blade Length	
EMS1045T	1	About 6.5mm	$\phi 1.2\text{mm} \sim \phi 9.7\text{mm}$	10.3	0.88	10	95	80	15	4.7	4.3	4.3	90°
EMS1045TL	1	About 6.5mm	$\phi 1.2\text{mm} \sim \phi 9.7\text{mm}$	10.3	0.88	10	155	140	15	4.7	4.3	4.3	90°
EMS1030T	1	About 6.5mm	$\phi 1.0\text{mm} \sim \phi 11.7\text{mm}$	12.3	0.71	10	95	80	15	3.3	5.3	3.0	120°
EMS1030TL	1	About 6.5mm	$\phi 1.0\text{mm} \sim \phi 11.7\text{mm}$	12.3	0.71	10	155	140	15	3.3	5.3	3.0	120°

※Insert is not included as standard accessory. Please order separately. ※Clamp screw and wrench are included as standard accessories.



Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.

Insert details ▶ 49 page

Momieco

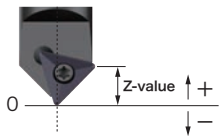


Centering Chamfering Countersinking

1-blade

Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.

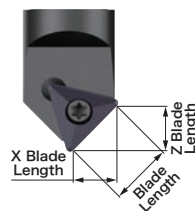


$$\alpha^\circ = 90^\circ \triangleright +0.44$$

$$\alpha^\circ = 120^\circ \triangleright +0.20$$

Example: $\alpha^\circ = 90^\circ$ for $\phi 5$ Centering
Adjust Z-axis value from -2.5 to -2.06

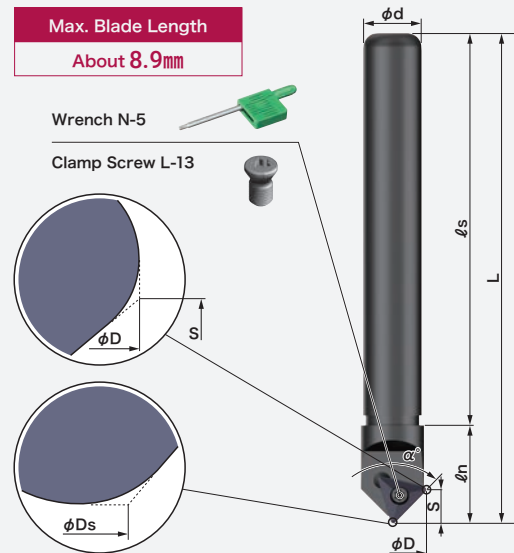
Blade Length



Max. Blade Length
About 8.9mm

Wrench N-5

Clamp Screw L-13



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)									α°
				ϕD	ϕD_s	ϕd	L	l_s	l_n	S	X Blade Length	Z Blade Length	
EMM1245T	1	About 8.9mm	$\phi 1.2\text{mm} \sim \phi 13.6\text{mm}$	14.2	0.88	12	100	80	20	6.7	6.3	6.3	90°
EMM1245TL	1	About 8.9mm	$\phi 1.2\text{mm} \sim \phi 13.6\text{mm}$	14.2	0.88	12	160	140	20	6.7	6.3	6.3	90°
EMM1645T	1	About 8.9mm	$\phi 1.2\text{mm} \sim \phi 13.6\text{mm}$	14.2	0.88	16	100	80	20	6.7	6.3	6.3	90°
EMM1645TL	1	About 8.9mm	$\phi 1.2\text{mm} \sim \phi 13.6\text{mm}$	14.2	0.88	16	160	140	20	6.7	6.3	6.3	90°
EMM1230T	1	About 8.9mm	$\phi 1.0\text{mm} \sim \phi 16.5\text{mm}$	17.1	0.71	12	100	80	20	4.7	7.7	4.4	120°
EMM1230TL	1	About 8.9mm	$\phi 1.0\text{mm} \sim \phi 16.5\text{mm}$	17.1	0.71	12	160	140	20	4.7	7.7	4.4	120°

※Insert is not included as standard accessory. Please order separately. ※Clamp screw and wrench are included as standard accessories.



Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.

Insert details ▶ 50 page

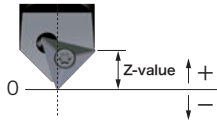
Ecomen



1-blade

Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.



$$\alpha^\circ = 90^\circ \triangleright +0.44$$

$$\alpha^\circ = 120^\circ \triangleright +0.20$$

Example: $\alpha^\circ = 90^\circ$ for $\phi 5$ Centering
Adjust Z-axis value from -2.5 to -2.06

Body

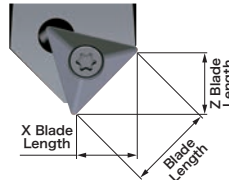
Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α°
				ϕD	ϕD_s	ϕd	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length		
EML2045T	1	About 14.4mm	$\phi 1.2\text{mm} \sim \phi 21.6\text{mm}$	22.0	0.88	20	110	80	30	10.5	10.1	10.1	90°	
EML2045TL	1	About 14.4mm	$\phi 1.2\text{mm} \sim \phi 21.6\text{mm}$	22.0	0.88	20	170	140	30	10.5	10.1	10.1	90°	
EML2545TL	1	About 14.4mm	$\phi 1.2\text{mm} \sim \phi 21.6\text{mm}$	22.0	0.88	25	170	140	30	10.5	10.1	10.1	90°	
※EML2045TH	1	About 14.4mm	$\phi 1.2\text{mm} \sim \phi 21.6\text{mm}$	22.0	0.88	20	110	80	30	10.5	10.1	10.1	90°	
EML2030T	1	About 14.4mm	$\phi 1.0\text{mm} \sim \phi 26.0\text{mm}$	26.6	0.71	20	110	80	30	7.5	12.4	7.1	120°	
EML2030TL	1	About 14.4mm	$\phi 1.0\text{mm} \sim \phi 26.0\text{mm}$	26.6	0.71	20	170	140	30	7.5	12.4	7.1	120°	

※Equipped with oil holes. ※Insert is not included as standard accessory. Please order separately.
※Clamp screw and wrench are included as standard accessories.

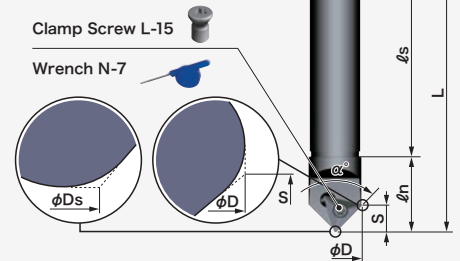


Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.

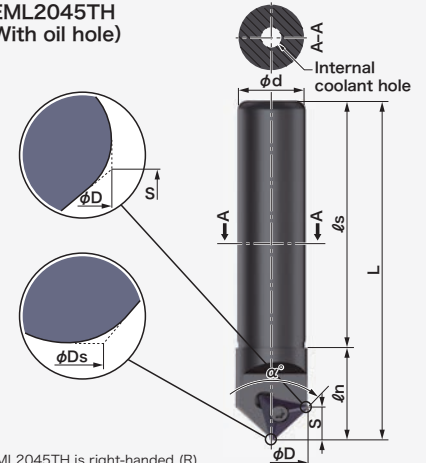
Blade Length



Max. Blade Length
About 14.4mm



EML2045TH
(With oil hole)



※EML2045TH is right-handed (R).

Insert details ▶ 50page

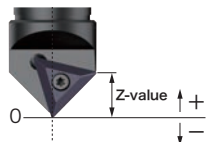
Dodekaeco



1-blade

Reference Guide for Z-Axis Offset Adjustment During Machining

※The values stated herein are representative only and subject to manufacturing tolerances.



$$\alpha^\circ = 90^\circ \triangleright +0.6$$

$$\alpha^\circ = 120^\circ \triangleright +0.25$$

Example: $\alpha^\circ = 90^\circ$ for $\phi 5$ Centering
Adjust Z-axis value from -2.5 to -2

Body

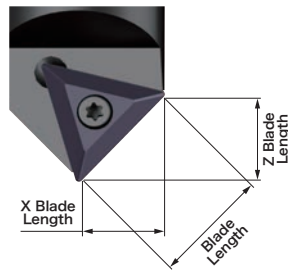
Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α°
				ϕ D	ϕ Ds	ϕ d	L	ℓ s	ℓ n	S	X Blade Length	Z Blade Length		
EMD2545T	1	About 25mm	ϕ 1.6mm $\sim\phi$ 36.0mm	37.1	1.2	25	150	110	40	18	17.6	17.6	90°	
EMD3245T	1	About 25mm	ϕ 1.6mm $\sim\phi$ 36.0mm	37.1	1.2	32	150	110	40	18	17.6	17.6	90°	
EMD3245TL	1	About 25mm	ϕ 1.6mm $\sim\phi$ 36.0mm	37.1	1.2	32	210	170	40	18	17.6	17.6	90°	
EMD3230T	1	About 25mm	ϕ 1.2mm $\sim\phi$ 43.5mm	45.0	0.9	32	150	110	40	12.6	21.3	12.3	120°	

※Insert is not included as standard accessory. Please order separately. ※Clamp screw and wrench are included as standard accessories.

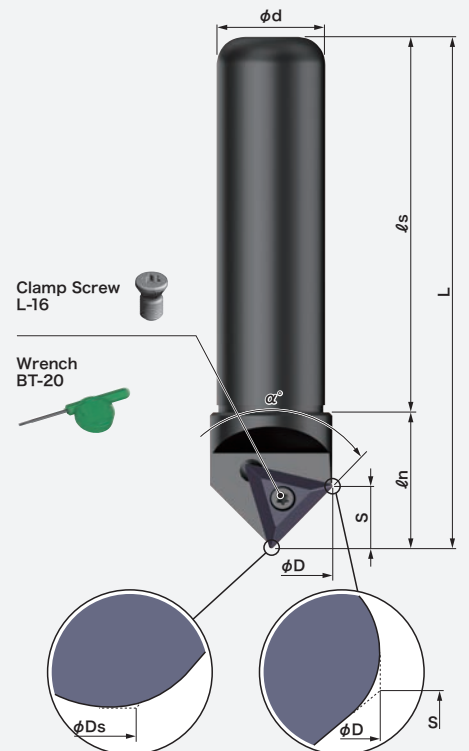


Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.

Blade Length



Max. Blade Length
About 25mm



Insert details ▶ 50page

A-Mentru

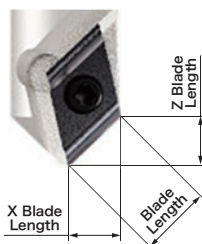


Max. Blade Length
About 5.16mm



Countersinking

Blade Length



1-blade

Body (A-Mentru)

Model No.	No. of Blade(s)	Dimensions(mm)						α°
		ϕD	ϕD_s	ϕd	L	X Blade Length	Z Blade Length	
AMN4508X	1	8.4	1.1	8	75	3.5	3.5	45°
AMN4508XL	1	8.4	1.1	8	150	3.5	3.5	45°

Body (A-Mentru 30°)

Model No.	No. of Blade(s)	Dimensions(mm)								α°
		ϕD	ϕD_s	ϕd	ℓn	ℓs	L	X Blade Length	Z Blade Length	
AMN3010X	1	10.1	1.1	8	10	65	75	4.4	2.5	30°

※An XFXT060102E AC16N insert is included as standard accessory.

※Clamp screw and wrench are included as standard accessories.



Clamp Screw L-18

Wrench N-4

 ϕD_s ϕD

Insert details ► 50 page

Mentrucee



Max. Blade Length
About 15.1mm



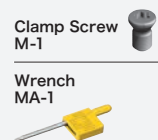
Countersinking

Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)							α°
				ϕD	ϕD_s	ϕd	ϕd_n	L	ℓs	ℓn	
TBM4522T	1	About 15.1mm	$\phi 1.3\text{mm} \sim \phi 22.5\text{mm}$	22.9	1	10	24	80	50	30	45°

※A TNEG160304ER HSS insert is included as standard accessory.

※Clamp screw and wrench are included as standard accessories.



Clamp Screw M-1

Wrench MA-1

 ϕd ϕd_n ϕD_s ϕD

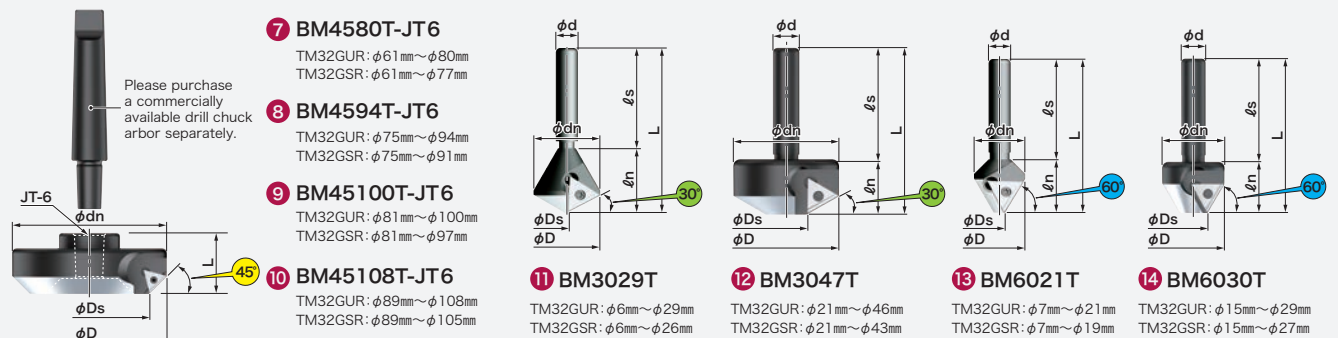
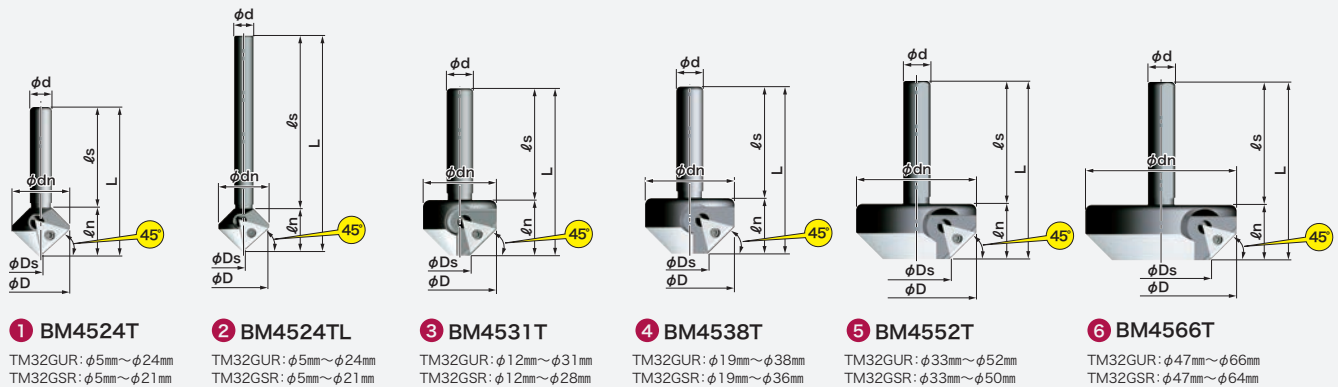
Insert details ► 51 page



1-blade



Countersinking

Clamp Screw
M-1Wrench
MA-1

※A TM32GUR HSS insert is included as standard accessory.
※Clamp screw and wrench are included as standard accessories.

Body

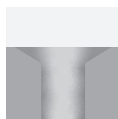
Model No.	Fig.	No. of Blade(s)	Max. Blade Length		Capacity Dish Chamfering Processing		Dimensions(mm)							
			TM32GUR	TM32GSR	TM32GUR	TM32GSR	ϕD	ϕDs	ϕd	ϕdn	L	ℓs	ℓn	angle
BM4524T	1	1	About 15.1mm	About 13.2mm	$\phi 5\text{mm} \sim \phi 24\text{mm}$	$\phi 5\text{mm} \sim \phi 21\text{mm}$	25.20	4.49	10	26	67	45	22	45°
BM4524TL	2	1	About 15.1mm	About 13.2mm	$\phi 5\text{mm} \sim \phi 24\text{mm}$	$\phi 5\text{mm} \sim \phi 21\text{mm}$	25.20	4.49	10	26	110	88	22	45°
BM4531T	3	1	About 15.1mm	About 13.2mm	$\phi 12\text{mm} \sim \phi 31\text{mm}$	$\phi 12\text{mm} \sim \phi 28\text{mm}$	33.06	11.57	12	33	75	50	25	45°
BM4538T	4	1	About 15.1mm	About 13.2mm	$\phi 19\text{mm} \sim \phi 38\text{mm}$	$\phi 19\text{mm} \sim \phi 36\text{mm}$	39.83	18.17	12	40	75	50	25	45°
BM4552T	5	1	About 15.1mm	About 13.2mm	$\phi 33\text{mm} \sim \phi 52\text{mm}$	$\phi 33\text{mm} \sim \phi 50\text{mm}$	53.91	32.17	13	54	80	55	25	45°
BM4566T	6	1	About 15.1mm	About 13.2mm	$\phi 47\text{mm} \sim \phi 66\text{mm}$	$\phi 47\text{mm} \sim \phi 64\text{mm}$	67.94	46.17	13	68	80	55	25	45°
BM4580T-JT6	7	1	About 15.1mm	About 13.2mm	$\phi 61\text{mm} \sim \phi 80\text{mm}$	$\phi 61\text{mm} \sim \phi 77\text{mm}$	81.96	60.17	-	82	40	-	-	45°
BM4594T-JT6	8	1	About 15.1mm	About 13.2mm	$\phi 75\text{mm} \sim \phi 94\text{mm}$	$\phi 75\text{mm} \sim \phi 91\text{mm}$	95.96	74.17	-	96	40	-	-	45°
BM45100T-JT6	9	1	About 15.1mm	About 13.2mm	$\phi 81\text{mm} \sim \phi 100\text{mm}$	$\phi 81\text{mm} \sim \phi 97\text{mm}$	101.96	80.16	-	101	40	-	-	45°
BM45108T-JT6	10	1	About 15.1mm	About 13.2mm	$\phi 89\text{mm} \sim \phi 108\text{mm}$	$\phi 89\text{mm} \sim \phi 105\text{mm}$	109.96	88.17	-	110	40	-	-	45°
BM3029T	11	1	About 15.1mm	About 13.2mm	$\phi 6\text{mm} \sim \phi 29\text{mm}$	$\phi 6\text{mm} \sim \phi 26\text{mm}$	30.2	5.52	10	30	74	45	29	30°
BM3047T	12	1	About 15.1mm	About 13.2mm	$\phi 21\text{mm} \sim \phi 46\text{mm}$	$\phi 21\text{mm} \sim \phi 43\text{mm}$	47.39	21	12	47.5	75	50	25	30°
BM6021T	13	1	About 15.1mm	About 13.2mm	$\phi 7\text{mm} \sim \phi 21\text{mm}$	$\phi 7\text{mm} \sim \phi 19\text{mm}$	21.77	6.60	10	23	69	45	24	60°
BM6030T	14	1	About 15.1mm	About 13.2mm	$\phi 15\text{mm} \sim \phi 29\text{mm}$	$\phi 15\text{mm} \sim \phi 27\text{mm}$	30.38	15	12	30.4	75	50	25	60°

※A TM32GUR HSS insert is included as standard accessory. ※Clamp screw and wrench are included as standard accessories.

⚠ Do not tighten the insert in the reverse direction during installation.

Insert details ▶ 51 page

Mentrudee



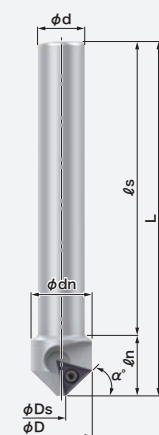
Countersinking

1-blade

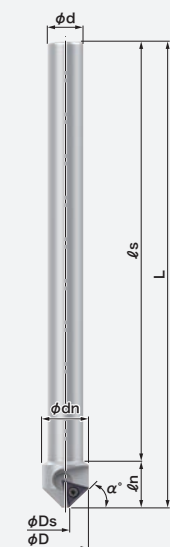
3-blade

Max. Blade Length

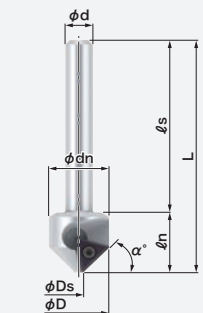
About 7.6mm (TBC4533T: About 22mm)



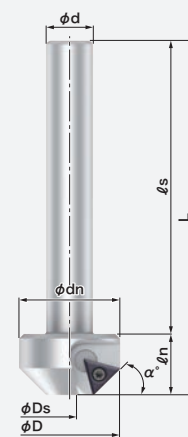
1 MBM4513T
Capacity: $\phi 2.5\text{mm} \sim \phi 11.0\text{mm}$



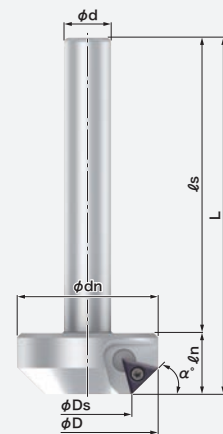
2 MBM4513TL
Capacity: $\phi 2.5\text{mm} \sim \phi 11.0\text{mm}$



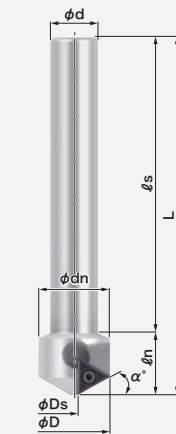
3 MBM4513T-6
Capacity: $\phi 2.5\text{mm} \sim \phi 11.0\text{mm}$



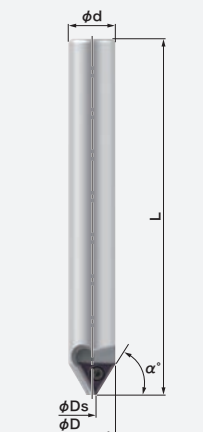
4 MBM4521T
Capacity: $\phi 10.8\text{mm} \sim \phi 19.5\text{mm}$



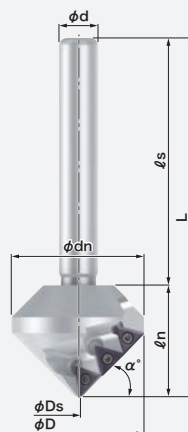
5 MBM4529T
Capacity: $\phi 19.3\text{mm} \sim \phi 27.5\text{mm}$



6 MBM3015T
Capacity: $\phi 2.5\text{mm} \sim \phi 13.0\text{mm}$



7 MBM6010T
Capacity: $\phi 3.0\text{mm} \sim \phi 7.0\text{mm}$



8 TBC4533T
Capacity: $\phi 2.5\text{mm} \sim \phi 31.0\text{mm}$

Clamp Screw
L-18



Wrench
N-4



Body

Model No.	Fig.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)							
					ϕD	ϕDs	ϕd	ϕdn	L	ℓs	ℓn	α°
MBM4513T	1	1	About 7.6mm	$\phi 2.5\text{mm} \sim \phi 11.0\text{mm}$	13.00	2.4	10	13.0	75	62	13	45°
MBM4513TL	2	1	About 7.6mm	$\phi 2.5\text{mm} \sim \phi 11.0\text{mm}$	13.00	2.4	10	13.0	143	130	13	45°
MBM4513T-6	3	1	About 7.6mm	$\phi 2.5\text{mm} \sim \phi 11.0\text{mm}$	13.00	2.4	6	13.0	50	37	13	45°
MBM4521T	4	1	About 7.6mm	$\phi 10.8\text{mm} \sim \phi 19.5\text{mm}$	21.3	10.5	10	21.5	75	62	13	45°
MBM4529T	5	1	About 7.6mm	$\phi 19.3\text{mm} \sim \phi 27.5\text{mm}$	29.5	19.0	10	29.8	75	62	13	45°
MBM3015T	6	1	About 7.6mm	$\phi 2.5\text{mm} \sim \phi 13.0\text{mm}$	15.3	2.4	10	15	75	62	13	30°
MBM6010T	7	1	About 7.6mm	$\phi 3.0\text{mm} \sim \phi 7.0\text{mm}$	10.3	2.7	10	-	75	-	-	60°
TBC4533T	8	3	About 22mm	$\phi 2.5\text{mm} \sim \phi 31.0\text{mm}$	33.7	2.4	10	33.8	90	62	28	45°

※A TCXT080102E AC16N insert is included as standard accessory.

※TBC4533T inserts are not included as standard accessories. Please order separately.

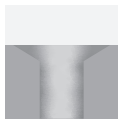
※Clamp screw and wrench are included as standard accessories.

Insert details ▶ 51 page

Chamfering Cutter



Chamfering



Countersinking

2-blade

3-blade

4-blade

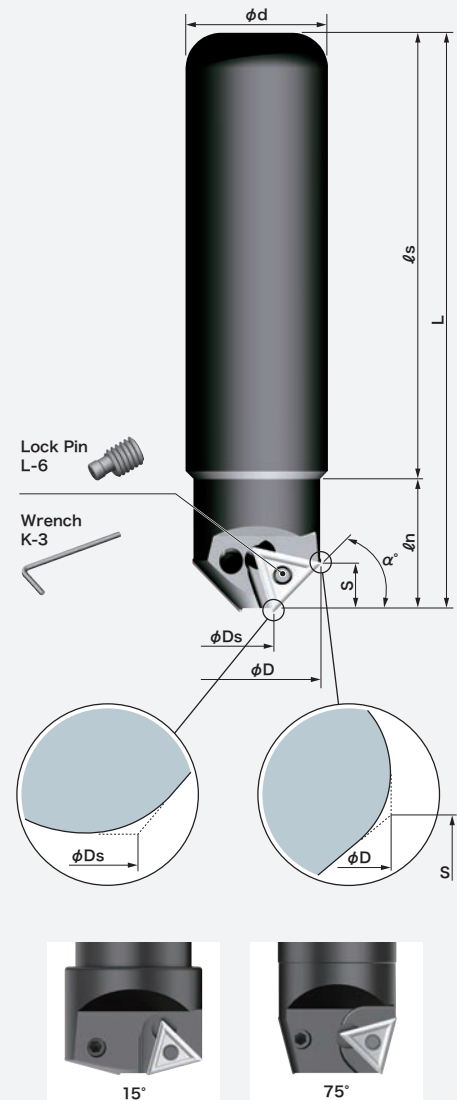
5-blade

Body

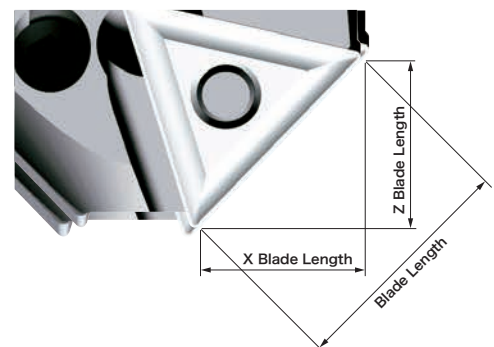
Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)									α°
				ϕD	ϕD_s	ϕd	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length	
NK1536T-20	2	About 15.1mm	$\phi 8.1\sim 37.3$ mm	37.9	8	20	130	100	30	4.0	14.5	3.9	15°
NK1536T	2	About 15.1mm	$\phi 8.1\sim 37.3$ mm	37.9	8	32	130	100	30	4.0	14.5	3.9	15°
NK1536TL	2	About 15.1mm	$\phi 8.1\sim 37.3$ mm	37.9	8	32	170	140	30	4.0	14.5	3.9	15°
NK2035T-20	2	About 15.1mm	$\phi 8.2\sim 36.5$ mm	37.1	8	20	130	100	30	5.3	14.0	5.1	20°
NK2035T	2	About 15.1mm	$\phi 8.2\sim 36.5$ mm	37.1	8	32	130	100	30	5.3	14.0	5.1	20°
NK2035TL	2	About 15.1mm	$\phi 8.2\sim 36.5$ mm	37.1	8	32	170	140	30	5.3	14.0	5.1	20°
NK2535T-20	2	About 15.1mm	$\phi 8.2\sim 35.5$ mm	36.0	8	20	130	100	30	6.5	13.5	6.3	25°
NK2535T	2	About 15.1mm	$\phi 8.2\sim 35.5$ mm	36.0	8	32	130	100	30	6.5	13.5	6.3	25°
NK2535TL	2	About 15.1mm	$\phi 8.2\sim 35.5$ mm	36.0	8	32	170	140	30	6.5	13.5	6.3	25°
NK3030T-20	2	About 15.1mm	$\phi 8.2\sim 34.3$ mm	34.8	8	20	130	100	30	7.7	13.0	7.5	30°
NK3030T-25	2	About 15.1mm	$\phi 8.2\sim 34.3$ mm	34.8	8	25	130	100	30	7.7	13.0	7.5	30°
NK3030T	2	About 15.1mm	$\phi 8.2\sim 34.3$ mm	34.8	8	32	130	100	30	7.7	13.0	7.5	30°
NK3030TL	2	About 15.1mm	$\phi 8.2\sim 34.3$ mm	34.8	8	32	170	140	30	7.7	13.0	7.5	30°
NK3532T-20	2	About 15.1mm	$\phi 8.2\sim 32.9$ mm	33.3	8	20	130	100	30	8.9	12.3	8.6	35°
NK3532T	2	About 15.1mm	$\phi 8.2\sim 32.9$ mm	33.3	8	32	130	100	30	8.9	12.3	8.6	35°
NK3532TL	2	About 15.1mm	$\phi 8.2\sim 32.9$ mm	33.3	8	32	170	140	30	8.9	12.3	8.6	35°
NK4031T-20	2	About 15.1mm	$\phi 8.2\sim 31.4$ mm	31.7	8	20	130	100	30	9.9	11.4	9.6	40°
NK4031T	2	About 15.1mm	$\phi 8.2\sim 31.4$ mm	31.7	8	32	130	100	30	9.9	11.4	9.6	40°
NK4031TL	2	About 15.1mm	$\phi 8.2\sim 31.4$ mm	31.7	8	32	170	140	30	9.9	11.4	9.6	40°
NK4530T-20	2	About 15.1mm	$\phi 8.3\sim 29.6$ mm	29.9	8	20	130	100	30	10.9	10.6	10.6	45°
NK4530T-25	2	About 15.1mm	$\phi 8.3\sim 29.6$ mm	29.9	8	25	130	100	30	10.9	10.6	10.6	45°
NK4530T	2	About 15.1mm	$\phi 8.3\sim 29.6$ mm	29.9	8	32	130	100	30	10.9	10.6	10.6	45°
NK4530TL	2	About 15.1mm	$\phi 8.3\sim 29.6$ mm	29.9	8	32	170	140	30	10.9	10.6	10.6	45°
NK3-4536T	3	About 15.1mm	$\phi 15.3\sim 36.6$ mm	36.9	15	32	130	100	30	10.9	10.6	10.6	45°
NK4-4543T	4	About 15.1mm	$\phi 22.3\sim 43.6$ mm	43.9	22	32	130	100	30	10.9	10.6	10.6	45°
NK5-4559T	5	About 15.1mm	$\phi 38.2\sim 59.6$ mm	59.9	38	32	130	100	30	10.9	10.6	10.6	45°
NK5031T-20	2	About 15.1mm	$\phi 12.3\sim 31.6$ mm	31.9	12	20	130	100	30	11.8	9.6	11.4	50°
NK5031T	2	About 15.1mm	$\phi 12.3\sim 31.6$ mm	31.9	12	32	130	100	30	11.8	9.6	11.4	50°
NK5031TL	2	About 15.1mm	$\phi 12.3\sim 31.6$ mm	31.9	12	32	170	140	30	11.8	9.6	11.4	50°
NK5532T-20	2	About 15.1mm	$\phi 15.3\sim 32.5$ mm	32.7	15	20	130	100	30	12.7	8.6	12.3	55°
NK5532T	2	About 15.1mm	$\phi 15.3\sim 32.5$ mm	32.7	15	32	130	100	30	12.7	8.6	12.3	55°
NK5532TL	2	About 15.1mm	$\phi 15.3\sim 32.5$ mm	32.7	15	32	170	140	30	12.7	8.6	12.3	55°
NK6030T-20	2	About 15.1mm	$\phi 15.3\sim 30.3$ mm	30.5	15	20	130	100	30	13.4	7.5	13.0	60°
NK6030T-25	2	About 15.1mm	$\phi 15.3\sim 30.3$ mm	30.5	15	25	130	100	30	13.4	7.5	13.0	60°
NK6030T	2	About 15.1mm	$\phi 15.3\sim 30.3$ mm	30.5	15	32	130	100	30	13.4	7.5	13.0	60°
NK6030TL	2	About 15.1mm	$\phi 15.3\sim 30.3$ mm	30.5	15	32	170	140	30	13.4	7.5	13.0	60°
NK6533T-20	2	About 15.1mm	$\phi 20.2\sim 33$ mm	33.1	20	20	130	100	30	14.0	6.3	13.5	65°
NK6533T	2	About 15.1mm	$\phi 20.2\sim 33$ mm	33.1	20	32	130	100	30	14.0	6.3	13.5	65°
NK6533TL	2	About 15.1mm	$\phi 20.2\sim 33$ mm	33.1	20	32	170	140	30	14.0	6.3	13.5	65°
NK7032T-20	2	About 15.1mm	$\phi 22.2\sim 32.5$ mm	32.6	22	20	130	100	30	14.5	5.1	14.0	70°
NK7032T	2	About 15.1mm	$\phi 22.2\sim 32.5$ mm	32.6	22	32	130	100	30	14.5	5.1	14.0	70°
NK7032TL	2	About 15.1mm	$\phi 22.2\sim 32.5$ mm	32.6	22	32	170	140	30	14.5	5.1	14.0	70°
NK7533T-20	2	About 15.1mm	$\phi 25.2\sim 33$ mm	33.0	25	20	130	100	30	15.0	3.9	14.5	75°
NK7533T	2	About 15.1mm	$\phi 25.2\sim 33$ mm	33.0	25	32	130	100	30	15.0	3.9	14.5	75°
NK7533TL	2	About 15.1mm	$\phi 25.2\sim 33$ mm	33.0	25	32	170	140	30	15.0	3.9	14.5	75°

Max. Blade Length

About 15.1mm



Blade Length



※Insert is not included as standard accessory.
Please order separately.

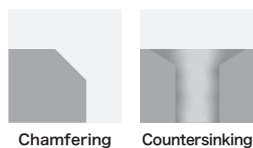
※Lock pin and wrench are included as standard accessories.



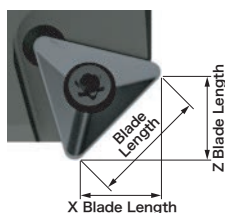
Do not tighten the insert in the reverse direction during installation.

Insert details ▶ 50 page

Chibieco 2



Blade Length

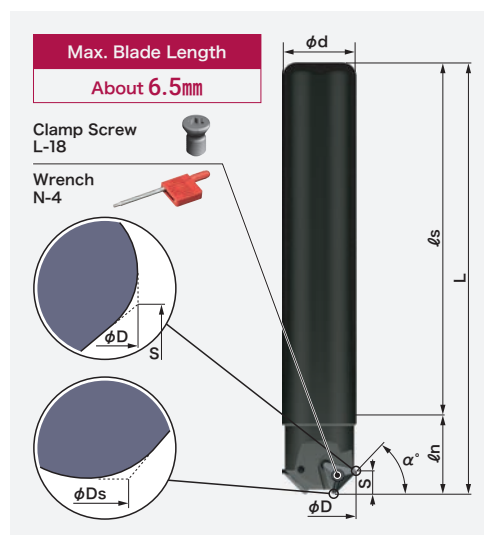


2-blade

Body

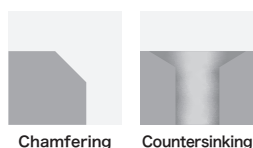
Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α
				ϕ D	ϕ Ds	ϕ d	L	ℓ s	ℓ n	S	X Blade Length	Z Blade Length		
NKS3018T	2	About 6.5mm	ϕ 7.3mm $\sim\phi$ 18mm	18.6	7	16	95	80	15	3.3	5.2	3.0	30°	
NKS4516T	2	About 6.5mm	ϕ 7.4mm $\sim\phi$ 16mm	16.5	7	16	95	80	15	4.7	4.3	4.3	45°	
NKS6017T	2	About 6.5mm	ϕ 11.4mm $\sim\phi$ 17.5mm	17.7	11	16	95	80	15	5.8	3.0	5.2	60°	

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

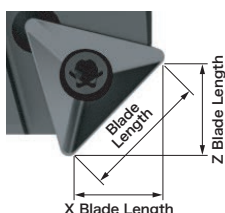


Insert details ▶ 49page

Momieco 2



Blade Length

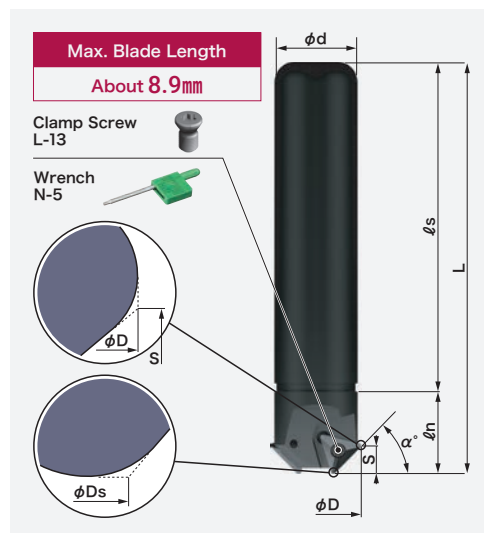


2-blade

Body

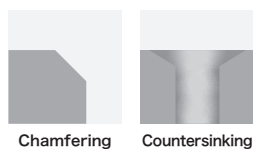
Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α
				ϕ D	ϕ Ds	ϕ d	L	ℓ s	ℓ n	S	X Blade Length	Z Blade Length		
NKM3025T	2	About 8.9mm	ϕ 9.3mm $\sim\phi$ 24.7mm	25.3	9	20	100	80	20	4.7	7.6	4.4	30°	
NKM4522T	2	About 8.9mm	ϕ 9.4mm $\sim\phi$ 21.9mm	22.3	9	20	100	80	20	6.7	6.3	6.3	45°	
NKM6023T	2	About 8.9mm	ϕ 14.4mm $\sim\phi$ 23.2mm	23.4	14	20	100	80	20	8.2	4.4	7.6	60°	

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

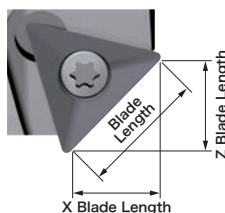


Insert details ▶ 50page

Ecomen 2



Blade Length

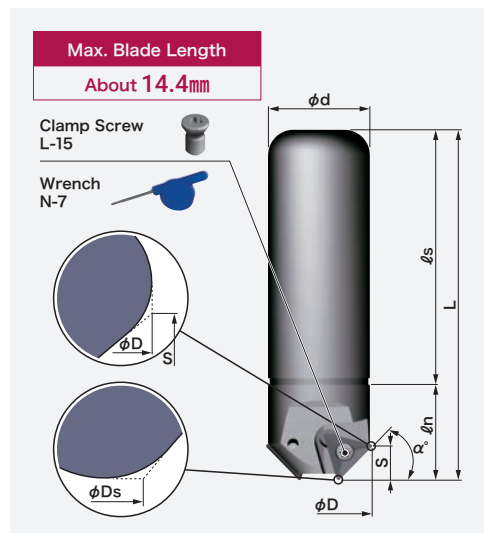


2-blade

Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)										α
				ϕ D	ϕ Ds	ϕ d	L	ℓ s	ℓ n	S	X Blade Length	Z Blade Length		
NKL3036T	2	About 14.4mm	ϕ 11.3mm $\sim\phi$ 36.2mm	36.9	11	32	110	80	30	7.5	12.4	7.1	30°	
NKL4534T	2	About 14.4mm	ϕ 13.4mm $\sim\phi$ 33.7mm	34.1	13	32	110	80	30	10.5	10.1	10.1	45°	
NKL6034T	2	About 14.4mm	ϕ 20.4mm $\sim\phi$ 34.7mm	34.9	20	32	110	80	30	12.9	7.1	12.4	60°	

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

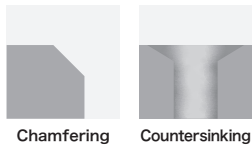


Insert details ▶ 50page

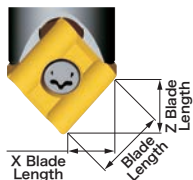
Men men



1-blade



Blade Length



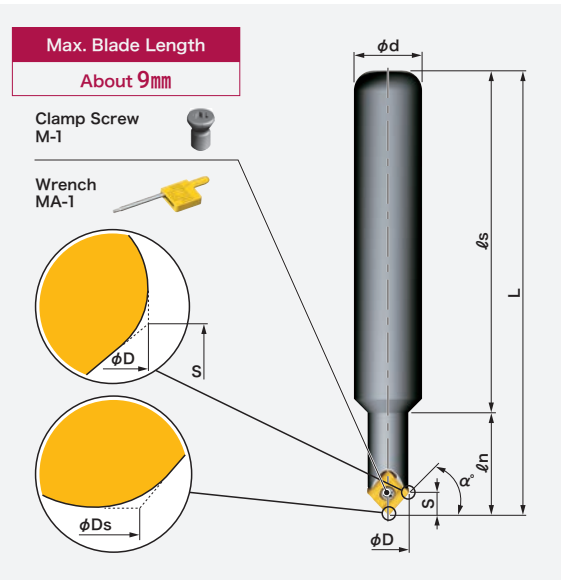
Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)									α°
				ϕD	ϕD_s	ϕd	L	ℓs	ℓn	S	X Blade Length	Z Blade Length	
SNK1516C	1	About 9mm	$\phi 1.0 \sim \phi 16.3\text{mm}$	18.0	0.5	20	125	95	30	2.3	7.1	1.9	15°
SNK2016C	1	About 9mm	$\phi 1.7 \sim \phi 16.6\text{mm}$	18.2	1.1	20	125	95	30	3.1	7.1	2.6	20°
SNK2515C	1	About 9mm	$\phi 1.2 \sim \phi 15.6\text{mm}$	17.0	0.6	20	125	95	30	3.8	6.9	3.2	25°
SNK3015C	1	About 9mm	$\phi 1.3 \sim \phi 15.0\text{mm}$	16.3	0.7	20	125	95	30	4.5	6.8	3.9	30°
SNK3514C	1	About 9mm	$\phi 1.3 \sim \phi 14.3\text{mm}$	15.5	0.7	20	125	95	30	5.2	6.4	4.5	35°
SNK4013C	1	About 9mm	$\phi 1.4 \sim \phi 13.5\text{mm}$	14.6	0.8	20	125	95	30	5.9	6.0	5.0	40°
SNK4512C	1	About 9mm	$\phi 1.5 \sim \phi 12.7\text{mm}$	13.5	0.9	20	125	95	30	6.4	5.5	5.5	45°
SNK5014C	1	About 9mm	$\phi 4.6 \sim \phi 14.7\text{mm}$	15.5	4.0	20	125	95	30	7.0	5.0	6.0	50°
SNK5514C	1	About 9mm	$\phi 5.6 \sim \phi 14.6\text{mm}$	15.2	5.0	20	125	95	30	7.5	4.5	6.4	55°
SNK6015C	1	About 9mm	$\phi 7.2 \sim \phi 15.1\text{mm}$	15.6	6.7	20	125	95	30	7.9	3.9	6.8	60°
SNK6515C	1	About 9mm	$\phi 8.5 \sim \phi 15.1\text{mm}$	15.5	8.0	20	125	95	30	8.4	3.2	6.9	65°
SNK7014C	1	About 9mm	$\phi 9.4 \sim \phi 14.8\text{mm}$	15.1	9.0	20	125	95	30	8.7	2.6	7.1	70°
SNK7514C	1	About 9mm	$\phi 10.3 \sim \phi 14.4\text{mm}$	14.5	10	20	125	95	30	9.0	1.9	7.1	75°

※Insert is not included as standard accessory. Please order separately.

※Clamp screw and wrench are included as standard accessories.

Insert details ▶ 49 page

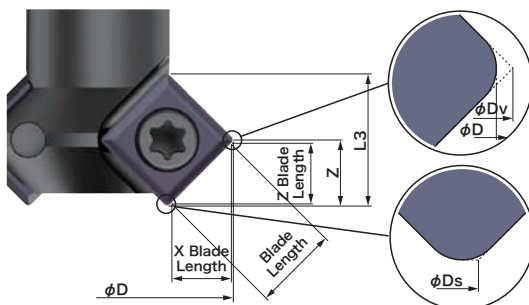


Chibi Ryanmen



Details

2-blade 6-blade

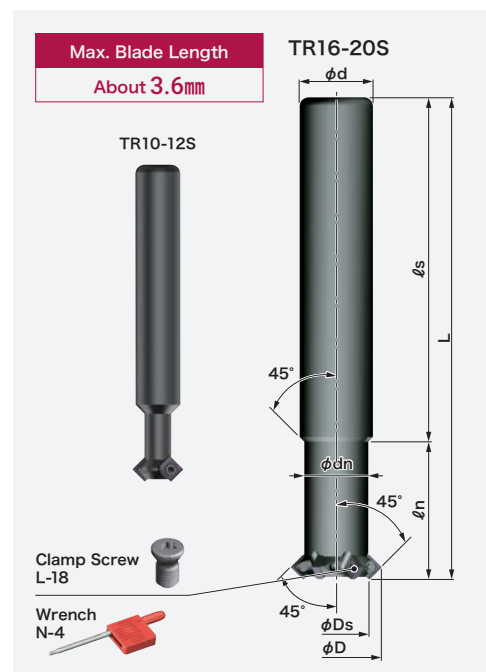


Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)												X Blade Length	Z Blade Length
				φD	φDs	φDv	φdn	φd	L	ℓs	ℓn	L3	Z				
TR10-12S	2	About 3.6mm	φ6.2mm~φ11mm	11.3	6	11.4	6	10	70	55	15	5.45	2.72	2.5	2.5		
TR16-20S	6	About 3.6mm	φ14.8mm~φ19.5mm	19.8	14.5	19.9	14	16	105	75	30	5.45	2.72	2.5	2.5		

※Insert is not included as standard accessory. Please order separately.

※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 52 page

Youngmen

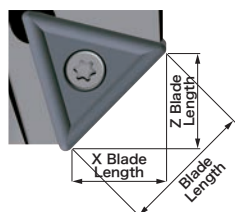


Chamfering

1-blade

3-blade

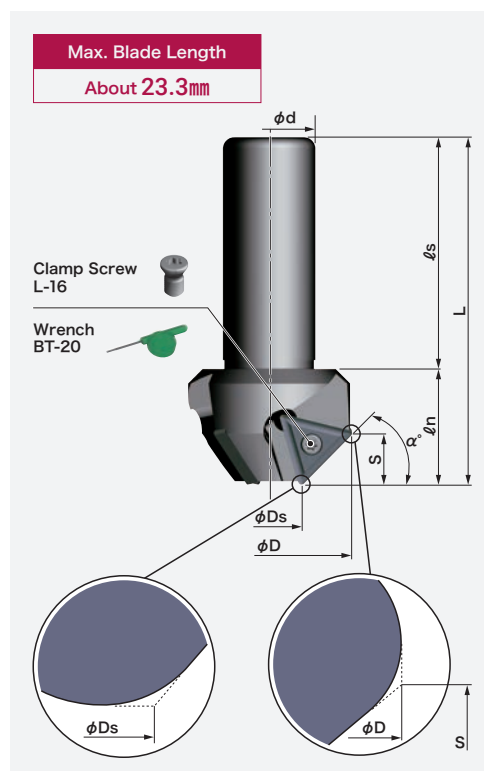
Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)										α
			ϕD	ϕD_s	ϕd	L	ℓs	ℓn	S	X Blade Length	Z Blade Length		
BNK4546T-1	1	About 23.3mm	46.5	12.0	32	120	80	40	17.2	16.5	16.5	45°	
BNK3062T	3	About 23.3mm	62.2	20.0	32	120	80	40	12.2	20.1	11.6	30°	
BNK4558T	3	About 23.3mm	58.2	23.8	32	120	80	40	17.2	16.5	16.5	45°	
BNK6058T	3	About 23.3mm	58.2	33.8	32	120	80	40	21.1	11.6	20.1	60°	

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 51-52 page

Gentlemen



Chamfering

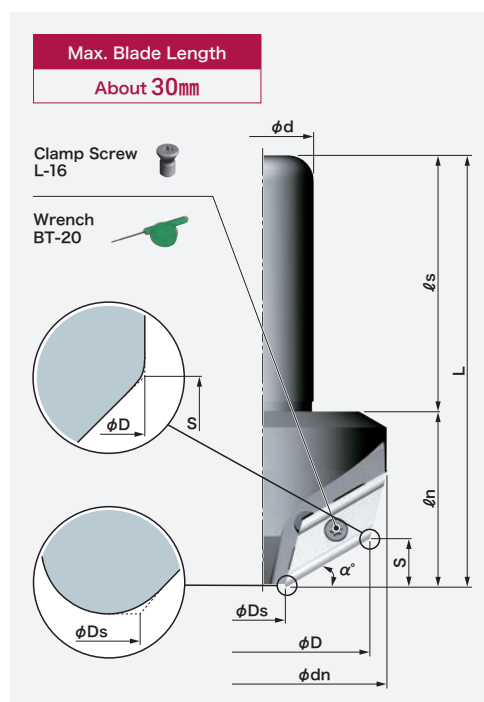
1-blade

3-blade

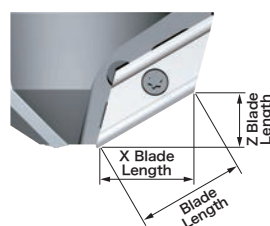
Body

Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)										α°
			ϕD	ϕD_s	ϕd	ϕd_n	L	ℓ_s	ℓ_n	S	X Blade Length	Z Blade Length	
NK4554X-1	1	About 30mm	54.9	12.0	32	-	135	80	55	21.4	21.1	21.1	45°
NK0574X	3	About 30mm	75.1	15.0	32	103.1	135	80	55	2.6	29.7	2.6	5°
NK1074X	3	About 30mm	74.5	15.0	32	99.5	135	80	55	5.2	28.9	5.1	10°
NK1571X	3	About 30mm	73.3	15.0	32	95.2	135	80	55	7.8	28.7	7.7	15°
NK2070X	3	About 30mm	71.8	15.0	32	90.3	135	80	55	10.3	28.1	10.2	20°
NK2568X	3	About 30mm	69.8	15.0	32	84.9	135	80	55	12.8	27.0	12.6	25°
NK3080X	3	About 30mm	67.4	15.0	32	79.0	135	80	55	15.1	25.8	14.9	30°
NK3563X	3	About 30mm	64.6	15.0	32	72.8	135	80	55	17.4	24.4	17.1	35°
NK4060X	3	About 30mm	61.4	15.0	32	66.3	135	80	55	19.5	22.9	19.2	40°
NK4557X	3	About 30mm	57.9	15.0	32	-	135	80	55	21.4	21.1	21.1	45°
NK5056X	3	About 30mm	57.0	18.0	32	-	135	80	55	23.2	19.2	22.9	50°
NK5556X	3	About 30mm	56.8	22.0	32	-	135	80	55	24.8	17.1	24.4	55°
NK6054X	3	About 30mm	54.3	24.0	32	-	135	80	55	26.3	14.9	25.8	60°
NK6553X	3	About 30mm	53.6	28.0	32	-	145	80	65	27.5	12.6	27.0	65°
NK7052X	3	About 30mm	52.8	32.0	32	-	145	80	65	28.5	10.2	28.1	70°
NK7550X	3	About 30mm	50.7	35.0	32	-	145	80	65	29.3	7.7	28.7	75°
NK8048X	3	About 30mm	48.5	38.0	32	-	145	80	65	29.9	5.1	28.9	80°
NK8547X	3	About 30mm	47.3	42.0	32	-	145	80	65	30.3	2.6	29.7	85°

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.



Blade Length



Insert details ▶ 52 page

Tutankhamen

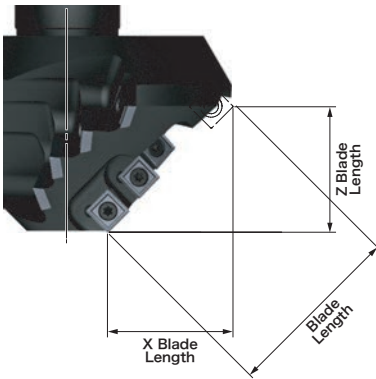


1(12)-blade

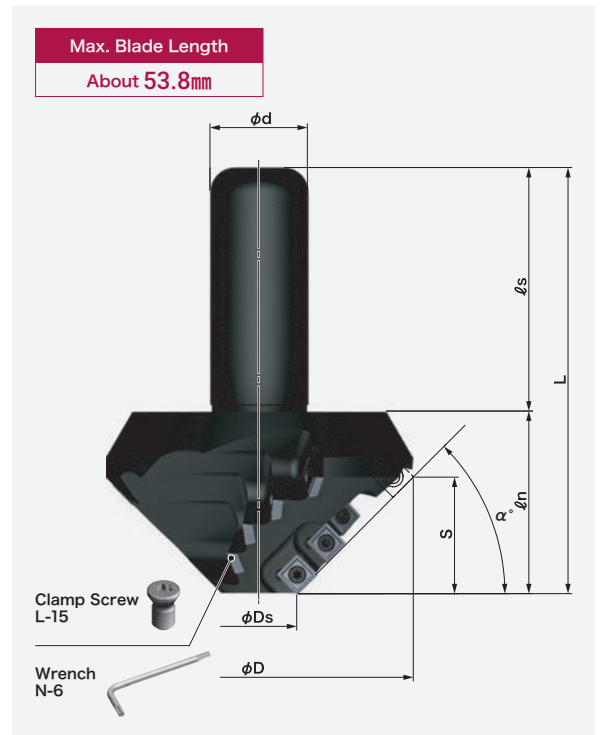


Chamfering

Blade Length



Body



Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)								α°	
			ϕ D	ϕ Ds	ϕ d	L	ℓ s	ℓ n	S	X Blade Length		Z Blade Length
TTK45101S	1 (12)	53.8mm	101.6	25	32	140	80	60	38.3	38.0	38.0	45°

※Insert is not included as standard accessory. Please order separately.

※Clamp screw and wrench are included as standard accessories.

Insert details ▶ 52page

Dekkamen

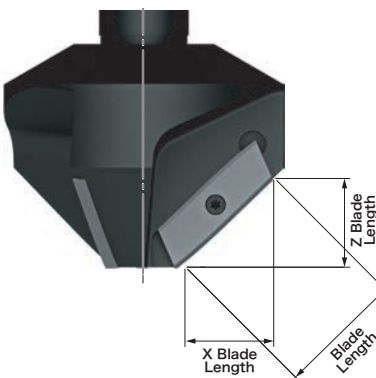


3-blade

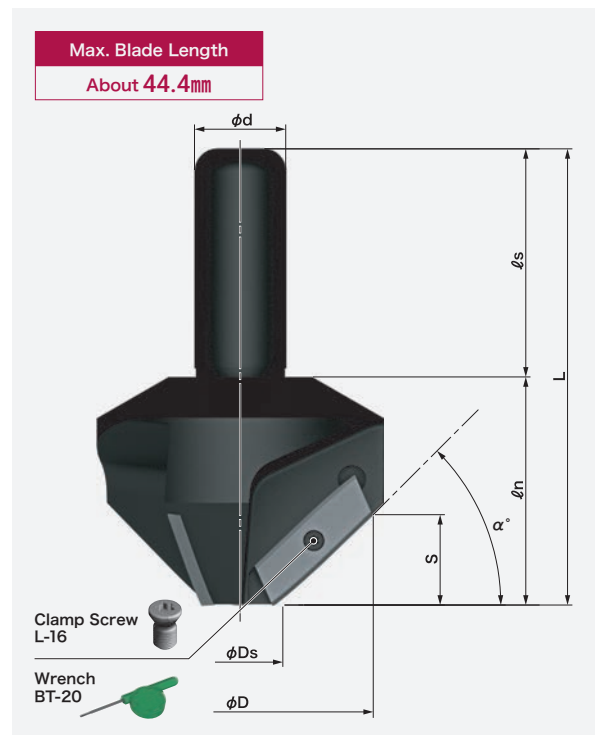


Chamfering

Blade Length



Body



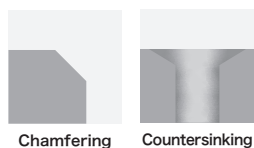
Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)								α°	
			φD	φDs	φd	L	ℓs	ℓn	S	X Blade Length		Z Blade Length
DKM4593X	3(Variable pitch)	44.4mm	93.4	30	32	160	80	80	31.69	31.4	31.4	45°

※Inserts are not included as standard accessories. Please order separately.

※Clamp screw and wrench are included as standard accessories.

Insert details ▶ 52page

Choumen Kai

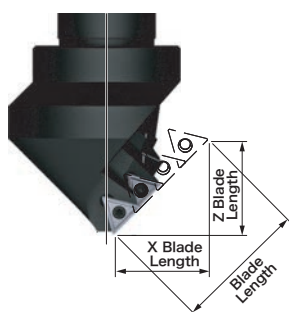


Chamfering

Countersinking

1 (4)-blade

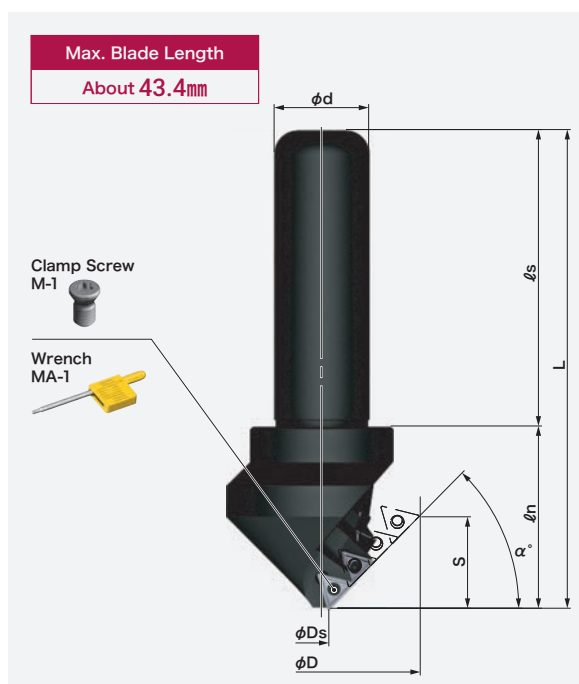
Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)									α°
			ϕ D	ϕ Ds	ϕ d	L	ℓ s	ℓ n	S	X Blade Length	Z Blade Length	
TYOK3078T	1(4)	43.4mm	78.1	2.6	32	168	100	68	21.9	37.6	21.7	30°
TYOK4566T	1(4)	43.4mm	66.4	5	32	162	100	62	31.0	30.7	30.7	45°
TYOK6052T	1(4)	43.4mm	52.2	9	32	174	100	74	37.9	21.7	37.6	60°

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

[Insert details ▶ 52page](#)


Nezumiru



Chamfering

3-blade

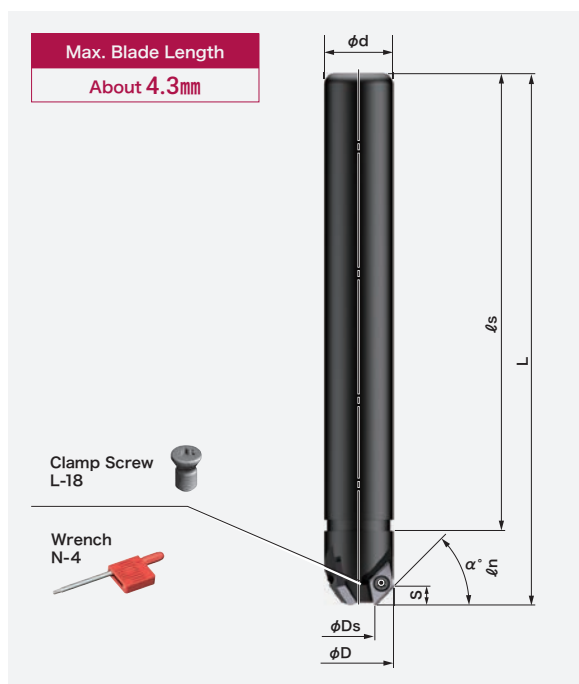
Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)									α°
				ϕ D	ϕ Ds	ϕ d	L	ℓ s	ℓ n	S	X Blade Length	Z Blade Length	
NZM4512D	3	About 4.3mm	$\phi 6.2\text{mm} \sim \phi 12.2\text{mm}$	12.4	6	12	93	80	13	3.2	3	3	45°
NZM4512DL	3	About 4.3mm	$\phi 6.2\text{mm} \sim \phi 12.2\text{mm}$	12.4	6	12	163	150	13	3.2	3	3	45°

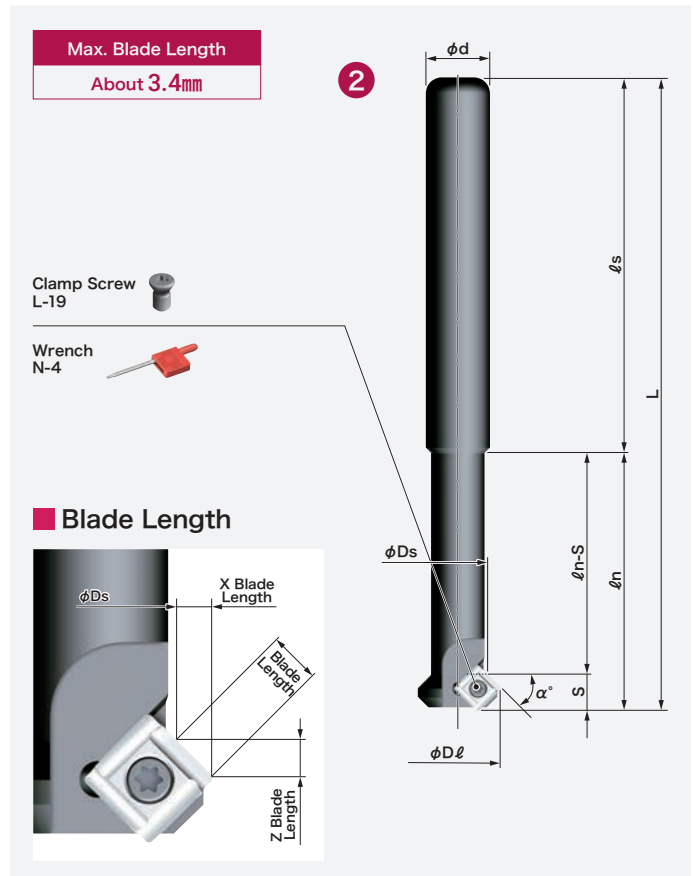
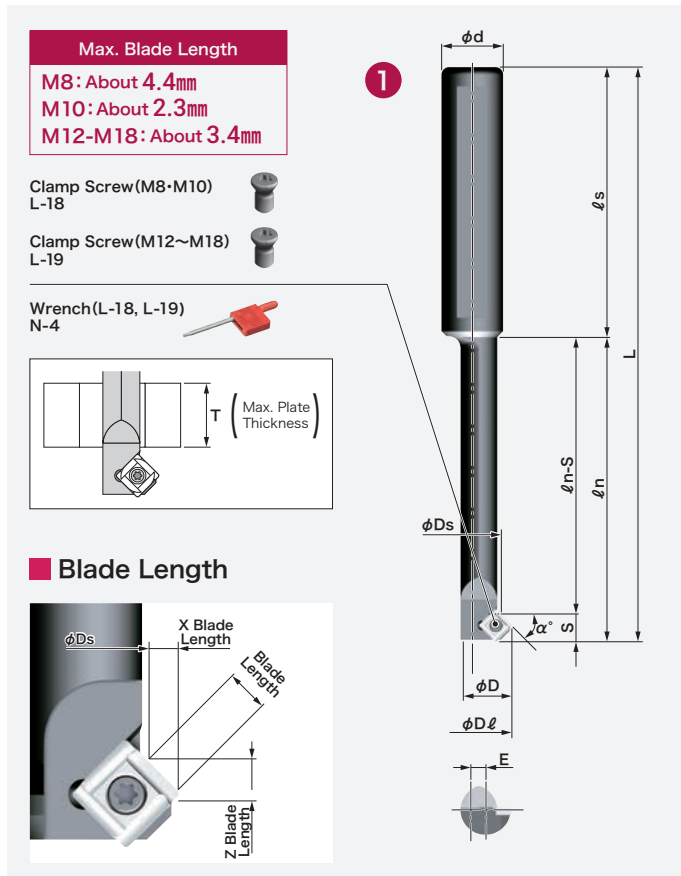
※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

[Insert details ▶ 52page](#)


Uratorimen-C



1-blade

Back
Chamfering

Body

Model No.	Fig.	No. of Blade(s)	Max. Blade Length	Hole Diameter	Back Chamfering Capability	Dimensions(mm)														α°
						φD	φDℓ	φDs	φd	L	ℓs	ℓn	ℓn-S	S	T	E	X Blade Length	Z Blade Length		
UMH12-6.8S-M8-30	①	1	About 4.4mm	φ6.8	φ6.8mm~φ9.5mm	6.2	9.7	6.8	12	107	70	37	32.1	4.9	28	1.76	1.2	0.7	30°	
UMH12-8.5S-M10-30	①	1	About 2.3mm	φ8.5	φ8.5mm~φ11.5mm	7.5	11.7	8.5	12	117	70	47	42.0	5.0	38	2.11	1.4	0.8	30°	
UMH12-10S-M12-30	①	1	About 3.4mm	φ10.0	φ10.0mm~φ14.4mm	9.0	14.8	10.0	12	129	70	59	52.2	6.8	47	2.92	2.1	1.2	30°	
UMH12-12S-M14-30	①	1	About 3.4mm	φ12.0	φ12.0mm~φ16.4mm	10.0	16.8	12.0	12	134	70	64	57.2	6.8	52	3.42	2.1	1.2	30°	
UMH12-14S-M16-30	①	1	About 3.4mm	φ14.0	φ14.0mm~φ18.4mm	12.0	18.8	14.0	12	139	70	69	62.2	6.8	57	3.41	2.1	1.2	30°	
UMH16-16S-M18-30	①	1	About 3.4mm	φ16.0	φ16.0mm~φ20.4mm	14.0	20.8	16.0	16	149	70	79	72.2	6.8	67	3.41	2.1	1.2	30°	
UM12-16S-30	②	1	About 3.4mm	-	Over φ16.0mm	-	16.0	11.0	12	118	70	48	41.1	6.9	38	-	2.1	1.2	30°	
UMH12-6.8S-M8	①	1	About 4.4mm	φ6.8	φ6.8mm~φ9.6mm	6.2	9.7	6.8	12	107	70	37	32.2	4.8	28	1.76	1.3	1.3	45°	
UMH12-8.5S-M10	①	1	About 2.3mm	φ8.5	φ8.5mm~φ11.6mm	7.5	11.7	8.5	12	117	70	47	42.0	5.0	38	2.11	1.5	1.5	45°	
UMH12-10S-M12	①	1	About 3.4mm	φ10.0	φ10.0mm~φ14.5mm	9.0	14.8	10.0	12	129	70	59	52.1	6.9	47	2.92	2.2	2.2	45°	
UMH12-12S-M14	①	1	About 3.4mm	φ12.0	φ12.0mm~φ16.5mm	10.0	16.8	12.0	12	134	70	64	57.1	6.9	52	3.42	2.2	2.2	45°	
UMH12-14S-M16	①	1	About 3.4mm	φ14.0	φ14.0mm~φ18.5mm	12.0	18.8	14.0	12	139	70	69	62.1	6.9	57	3.41	2.2	2.2	45°	
UMH16-16S-M18	①	1	About 3.4mm	φ16.0	φ16.0mm~φ20.5mm	14.0	20.8	16.0	16	149	70	79	72.1	6.9	67	3.41	2.2	2.2	45°	
UM12-16S	②	1	About 3.4mm	-	Over φ16.0mm	-	16.0	11.0	12	118	70	48	41.0	7.0	38	-	2.3	2.3	45°	
UMH12-6.8S-M8-60	①	1	About 4.4mm	φ6.8	φ6.8mm~φ9.6mm	6.2	9.7	6.8	12	107	70	37	32.0	5.0	28	1.76	1.4	2.4	60°	
UMH12-8.5S-M10-60	①	1	About 2.3mm	φ8.5	φ8.5mm~φ11.3mm	7.5	11.4	8.5	12	117	70	47	42.0	5.0	38	1.96	1.4	2.4	60°	
UMH12-10S-M12-60	①	1	About 3.4mm	φ10.0	φ10.0mm~φ13.3mm	9.0	13.5	10.0	12	129	70	59	52.7	6.3	47	2.27	1.6	2.8	60°	
UMH12-12S-M14-60	①	1	About 3.4mm	φ12.0	φ12.0mm~φ15.3mm	10.0	15.5	12.0	12	134	70	64	57.7	6.3	52	2.77	1.6	2.8	60°	
UMH12-14S-M16-60	①	1	About 3.4mm	φ14.0	φ14.0mm~φ17.3mm	12.0	17.5	14.0	12	139	70	69	62.7	6.3	57	2.76	1.6	2.8	60°	
UMH16-16S-M18-60	①	1	About 3.4mm	φ16.0	φ16.0mm~φ19.3mm	14.0	19.5	16.0	16	149	70	79	72.7	6.3	67	2.76	1.6	2.8	60°	
UM12-14.5S-60	②	1	About 3.4mm	-	Over φ14.5mm	-	14.5	11.0	12	118	70	48	41.7	6.3	38	-	1.6	2.8	60°	

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

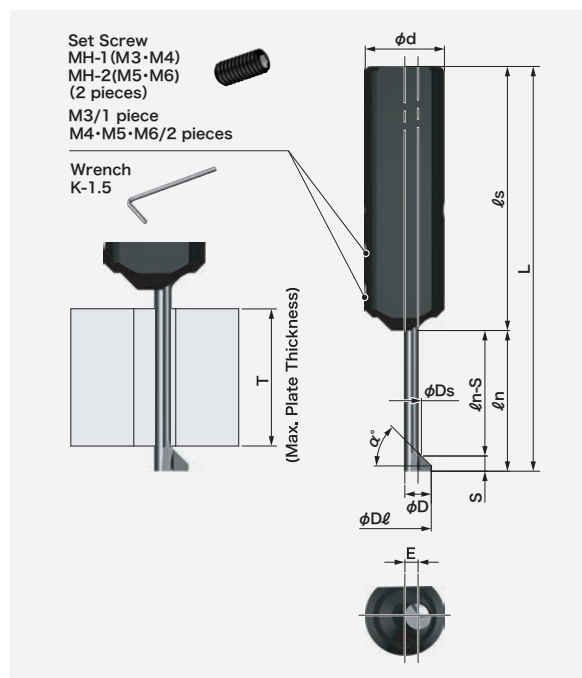
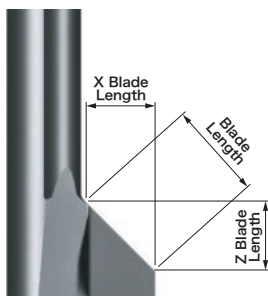
Insert details ▶ 53 page

Uratorimen SOLID



Blade Length

1-blade



Body

Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)												α°
			ϕD	$\phi D\ell$	ϕd	L	ℓs	ℓn	$\ell n-s$	S	T	E	X Blade Length	Z Blade Length	
UMHS-M3	1	1.06mm	2	4	10	51.5	40	11.5	10	1.5	8	1	0.75	0.75	45°
UMHS-M4	1	1.27mm	2.6	5.2	10	54.7	40	14.7	13	1.7	11	1.3	0.9	0.9	45°
UMHS-M5	1	1.63mm	3.2	6.5	12	57.9	40	17.9	16	1.9	14	1.65	1.15	1.15	45°
UMHS-M6	1	2.12mm	4	8	12	61.3	40	21.3	19	2.3	17	2	1.5	1.5	45°

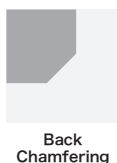
※Bit is not included as standard accessory. Please order separately.
 ※Set screw and wrench are included as standard accessories.

[Bit details ▶ 53 page](#)

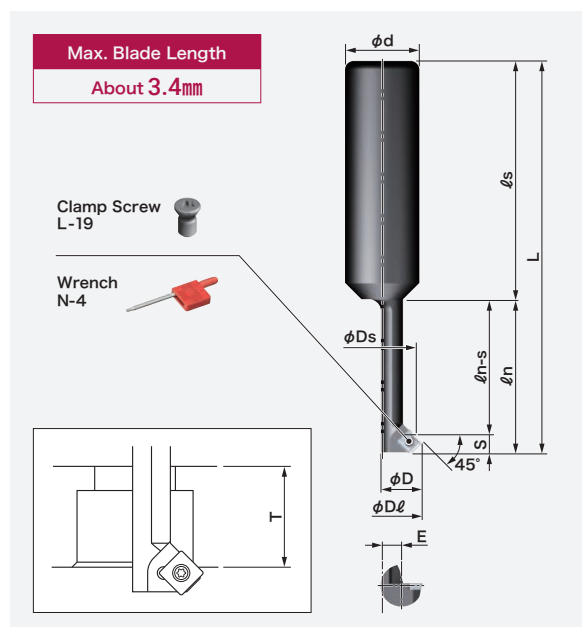
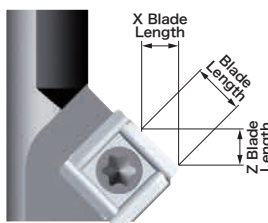
Urazagurimen-C



1-blade



Blade Length



Body

Model No.	No. of Blade(s)	Max. Blade Length	Hole Diameter	Capacity Dish Chamfering Processing	Dimensions(mm)													X Blade Length	Z Blade Length
					ϕ D	ϕ D ℓ	ϕ Ds	ϕ d	L	ℓ s	ℓ n	ℓ n-S	S	T	E				
UMZH25-16S-M14CS	1	About 3.4mm	ϕ 16mm	ϕ 23mm~ ϕ 26.7mm	14	27	23	25	132	80	52	45.5	6.5	40	6.52	1.9	1.9		
UMZH25-18S-M16CS	1	About 3.4mm	ϕ 18mm	ϕ 26mm~ ϕ 29.7mm	16	30	26	25	142	80	62	55.5	6.5	50	7.01	1.9	1.9		
UMZH32-20S-M18CS	1	About 3.4mm	ϕ 20mm	ϕ 29mm~ ϕ 32.7mm	18	33	29	32	154	80	74	67.5	6.5	61	7.51	1.9	1.9		
UMZH32-22S-M20CS	1	About 3.4mm	ϕ 22mm	ϕ 32mm~ ϕ 35.7mm	20	36	32	32	164	80	84	77.5	6.5	71	8.01	1.9	1.9		

※ ϕDs matches the counterbore diameter of the cap bolt. ※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

[Insert details ▶ 53 page](#)

Multi-Angle Mini

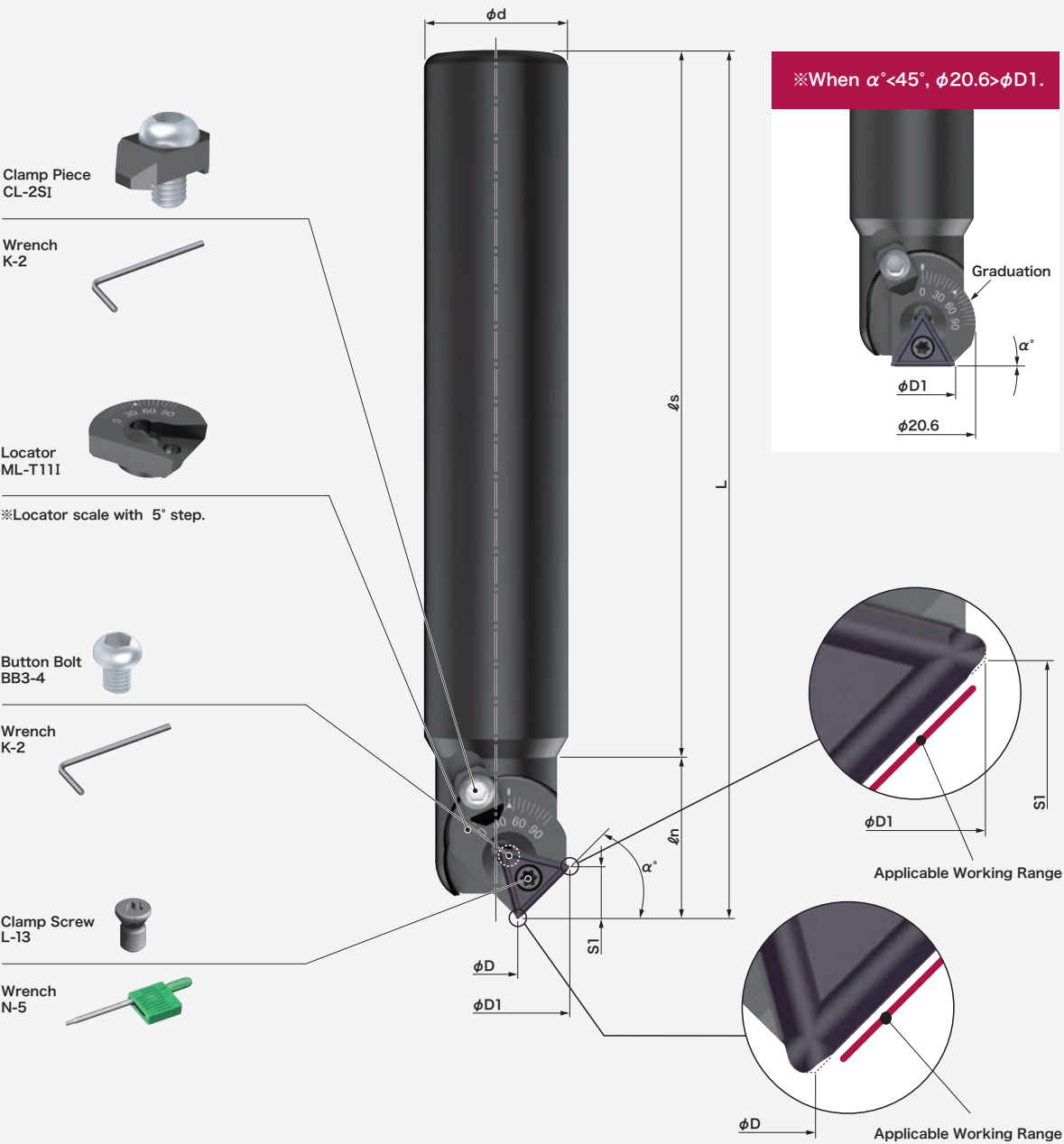


1-blade



Chamfering

Max. Blade Length
About 8.69mm



Body

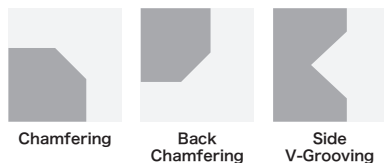
Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)						
			ϕD	$\phi D1$	ϕd	S1	L ※1	ℓs	ℓn ※3
MAM20-19T1	1	About 8.69mm	※2	※2	20	※2	(120)	97.1	(22.6)

※Insert is not included as standard accessory. Please order separately.
※All accessories included as standard accessories.

※1...Dimensions vary depending on the angle.
※2...Please refer to the angle dimension table on our official website.
※3...These dimensions apply when the scale is set to 45°.

Insert details ▶ 53 page

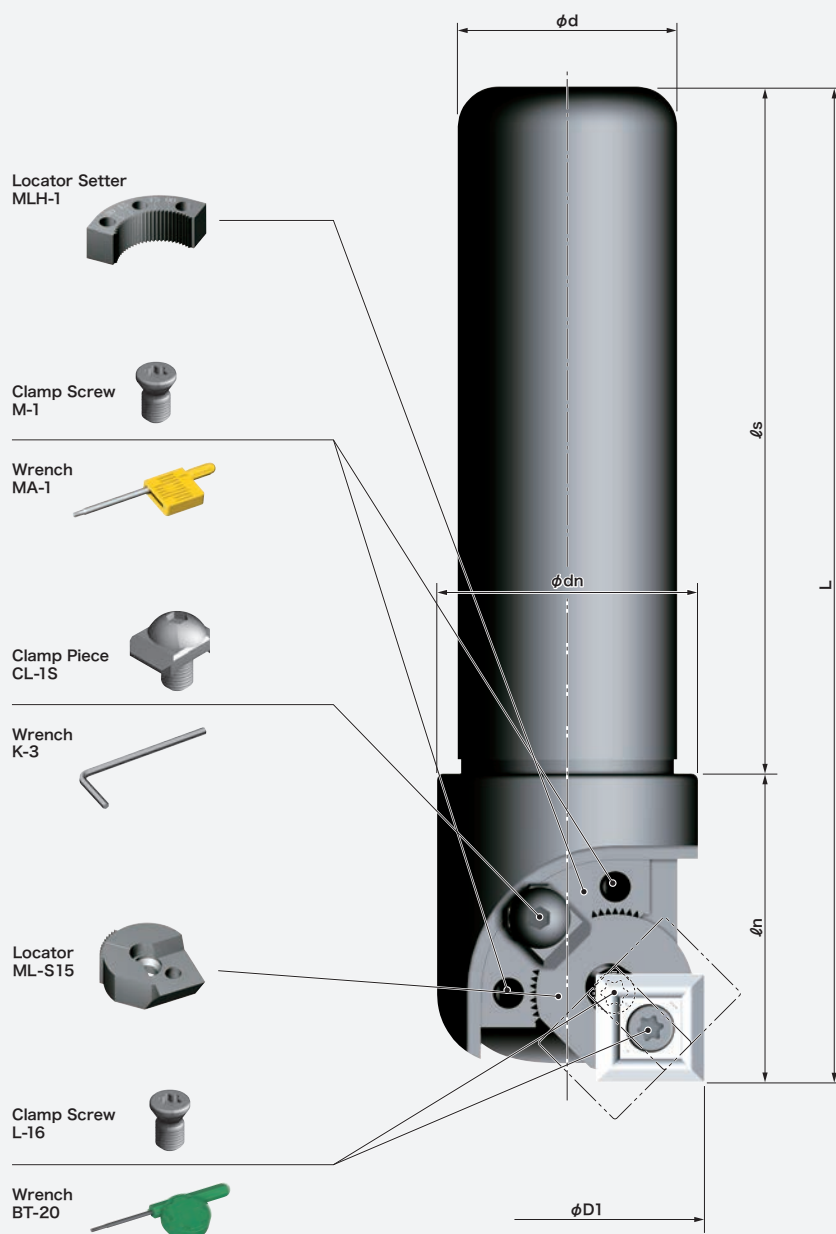
Multi-Angle mill



1-blade

Max. Blade Length

About 15mm



Body

Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)					
			ϕD	ϕd	ϕdn	L	ℓs	ℓn
MAM32-50S	1	About 15mm	※1	32	38	145	100	45
MAM32-50SL	1	About 15mm	※1	32	38	200	155	45

※Insert is not included as standard accessory. Please order separately.
 ※All accessories included as standard accessories.

※1...Please refer to the angle dimension table on our official website.

Insert details ► 53 page



1-blade



Chamfering

Max. Blade Length

About 23.3mm

Clamp Piece
CL-1S

Wrench
K-3

Locator
ML-T27

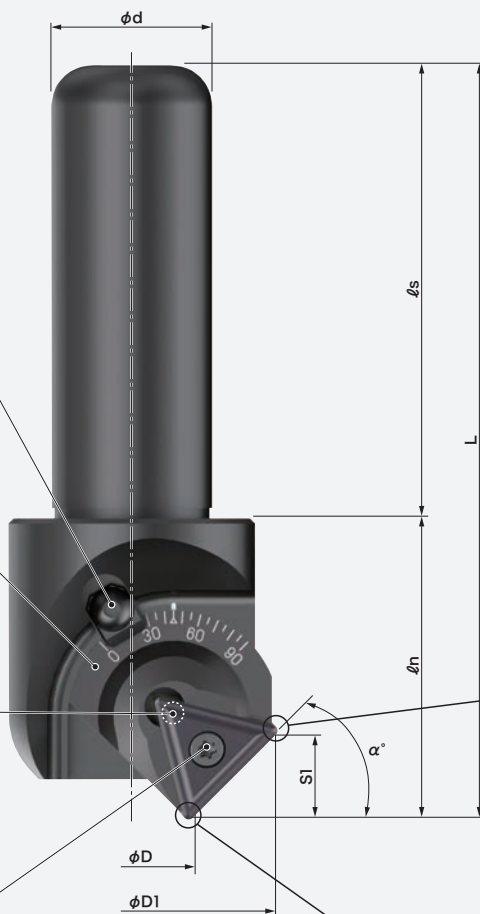
※Locator scale with 5° step.

Cap Bolt
CP5-10

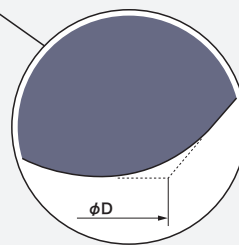
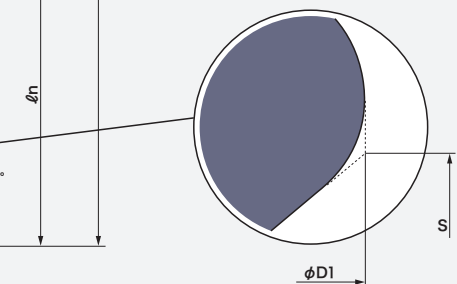
Wrench
K-4

Clamp Screw
L-16

Wrench
BT-20



When $\alpha^\circ < 45^\circ$, $\phi 58.7 > \phi D1$.



Body

Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)						
			φD	φD1	φd	L ※1	ℓs	ℓn ※3	S1
MRY32-58T	1	About 23.3mm	※2	※2	32	(150)	90	(60)	※2

※Insert is not included as standard accessory. Please order separately.
※All accessories included as standard accessories.

※1...Dimensions vary depending on the angle.
※2...Please refer to the angle dimension table on our official website.
※3...These dimensions apply when the scale is set to 45°.

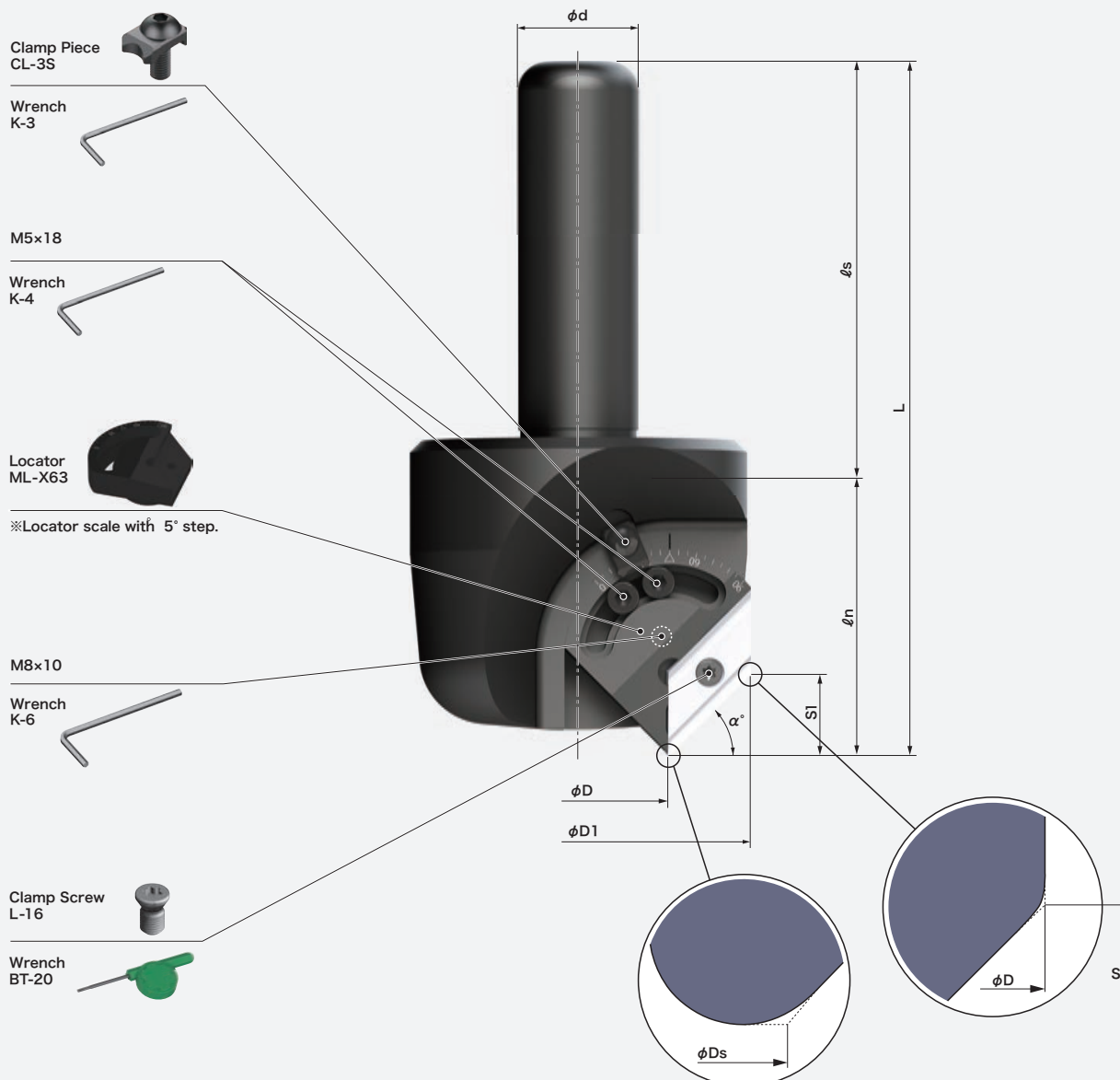
Insert details ▶ 51-52 page



Chamfering

Max. Blade Length

About 30mm



Body

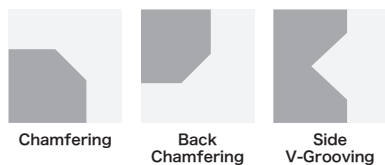
Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)							
			ϕD	$\phi D1$	ϕd	ϕdn	$L \times 1$	ℓs	$\ell n \times 3$	$S1$
MRG32-91X	1	About 30mm	※2	※2	32	89	182.8	100	82.8	※2

※Insert is not included as standard accessory. Please order separately.
 ※All accessories included as standard accessories.

※1...Dimensions vary depending on the angle.
 ※2...Please refer to the angle dimension table on our official website.
 ※3...These dimensions apply when the scale is set to 45°.

Insert details ▶ 52 page

Ryanmencut-V



1-blade Staggered 2-blade Staggered 4-blade

Max. Blade Length
About 4.4mm

Effective cutting edge diameter > $\phi 13$

Applicable Working Range

From nose R to the center = 6.57

$\phi Ds2$

Not Applicable for $\phi 6.7-13mm$.

1

Clamp Screw L-15

Wrench N-6

MRV12-19S Details

Max. Blade Length
About 12.4mm

2

Clamp Screw M-1

Wrench MA-1

From nose R to the center = 9.0

RV16-35T/RV25-46T Details

Body

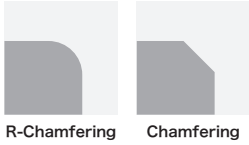
Model No.	Fig.	No. of Blade(s)	Max. Blade Length	Capacity Dish Chamfering Processing	Dimensions(mm)											
					φD	φDs	φDs2	φDv	φd	L	ℓs	ℓn	L3	Z	X Blade Length	Z Blade Length
MRV12-19S	①	1	About 4.4mm	φ13mm~φ19.2mm	19.5	6.7	13	19.8	12	150	128	22	–	6.57	3	3
RV16-35T	②	Staggered 2	About 12.4mm	φ18.3mm~φ35.6mm	35.9	18	–	36.2	16	200	175	25	18.3	9.13	8.7	8.7
RV25-46T	②	Staggered 4	About 12.4mm	φ28.3mm~φ45.2mm	45.6	28	–	45.9	25	200	175	25	17.9	8.97	8.5	8.5

※Insert is not included as standard accessory. Please order separately. ※Clamp screw and wrench are included as standard accessories.

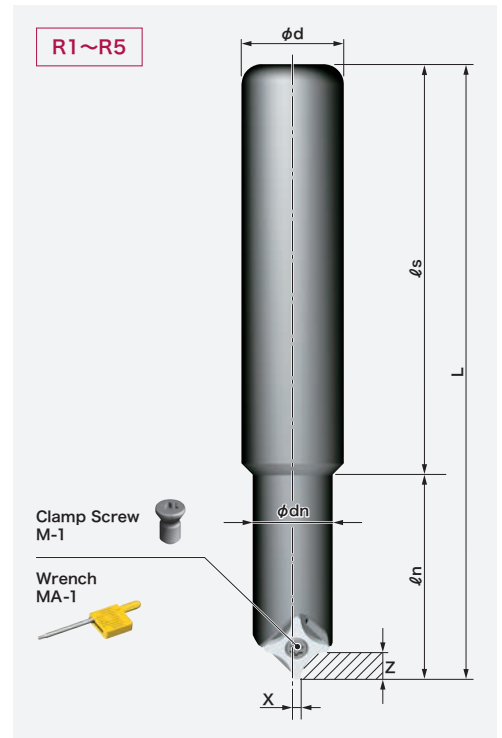
⚠ ·MRV12-19S:L-15,N-6 ·RV16-35T/RV25-46T:M-1,MA-1

Insert details ▶ 52 page

Mini-R



1-blade



Parameter Settings

Processing R	X-axis Position(mm)	Z-axis Position(mm)
R1	4.46	3.46
R2	3.99	3.94
R3	3.53	4.43
R4	3.09	4.91
R5	2.67	5.40

※The values stated herein are representative only and subject to manufacturing tolerances.

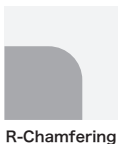
Body

Model No.	No. of Blade(s)	Max. Cutting Edge Length C-chamfering	Capacity R-chamfering	Dimensions(mm)				
				ϕd	ϕdn	L	ℓs	ℓn
MR20-16S	1	About 6.8mm	R1~R5	20	15.6	120	80	40

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

Insert details ▶ 54~56 page

R-Giga



3-blade

Parameter Settings

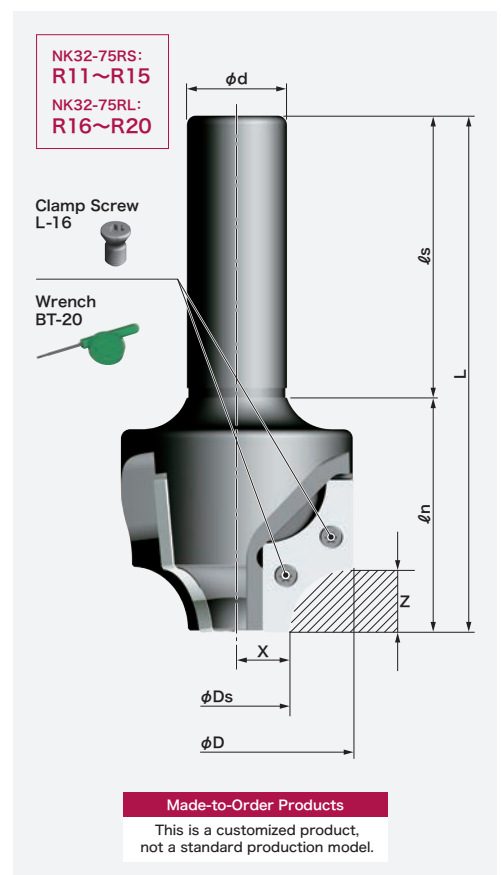
Processing R	X-axis Position(mm)	Z-axis Position(mm)
R11	17.50	11.77
R12	17.50	12.70
R13	17.50	13.63
R14	17.50	14.56
R15	17.50	15.48
R16	17.50	16.41
R17	17.50	17.34
R18	17.50	18.27
R19	17.50	19.20
R20	17.50	20.12

※The values stated herein are representative only and subject to manufacturing tolerances.

Body

Model No.	No. of Blade(s)	Capacity R-chamfering	Dimensions(mm)					
			ϕD	ϕDs	ϕd	L	ℓs	ℓn
NK32-75RS	3	R11~R15	75.5	35	32	165	90	75
NK32-75RL	3	R16~R20	75.5	35	32	165	90	75

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 55 page

R-Special Jr.



R-Chamfering

1-blade

Parameter Settings

Processing R	X-axis Position(mm)	X-axis Position(mm)
R0.5	8.05	4.42
R0.75	7.93	4.55
R1	7.80	4.67
R1.5	7.55	4.92
R2	7.30	5.17
R2.5	7.06	5.42
R3	6.81	5.67
R3.5	6.56	5.91
R4	6.31	6.16
R4.5	6.06	6.41
R5	5.82	6.66

※The values stated herein are representative only and subject to manufacturing tolerances.

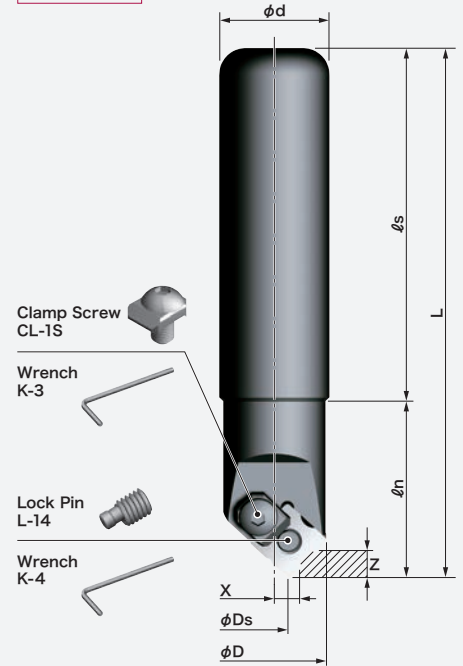
Body

Model No.	No. of Blade(s)	Capacity R-chamfering	Dimensions(mm)					
			ϕD	ϕD_s	ϕd	L	ℓs	ℓn
NK20-05R	1	R0.5~R5	25	8.4	20	120	80	40
NK25-05R	1	R0.5~R5	25	8.4	25	120	80	40

※Insert is not included as standard accessory. Please order separately.

※Lock pin and wrench and clamp piece are included as standard accessories.

R0.5~R5



⚠ Do not tighten the insert in the reverse direction during installation.

Insert details ▶ 54 page

R-Special



R-Chamfering

3-blade

Parameter Settings

Processing R	X-axis Position(mm)	X-axis Position(mm)
R0.5	23.54	4.42
R0.75	23.42	4.54
R1	23.29	4.66
R1.5	23.04	4.91
R2	22.79	5.16
R2.5	22.54	5.41
R3	22.29	5.66
R3.5	22.04	5.91
R4	21.78	6.16
R4.5	21.53	6.41
R5	21.28	6.65

※The values stated herein are representative only and subject to manufacturing tolerances.

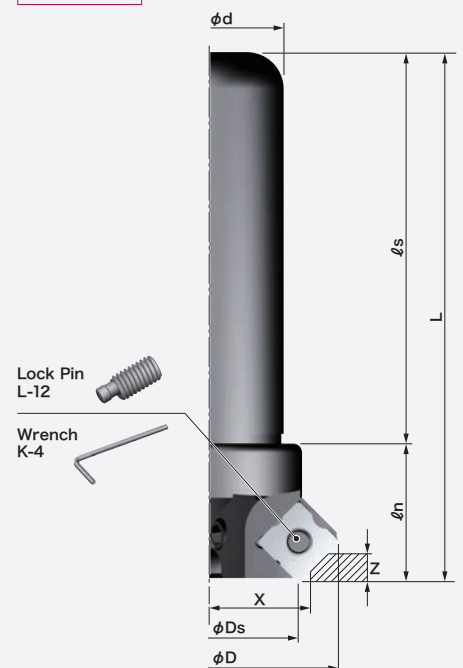
Body

Model No.	No. of Blade(s)	Capacity R-chamfering	Dimensions(mm)					
			ϕD	ϕD_s	ϕd	L	ℓs	ℓn
NK20-40R-3	3	R0.5~R5	56	39.3	20	115	85	30
NK32-40R-3	3	R0.5~R5	56	39.3	32	115	85	30

※Insert is not included as standard accessory. Please order separately.

※Lock pin and wrench are included as standard accessories.

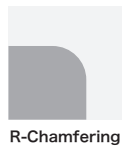
R0.5~R5



⚠ Do not tighten the insert in the reverse direction during installation.

Insert details ▶ 54 page

R-Nouveau Jr.



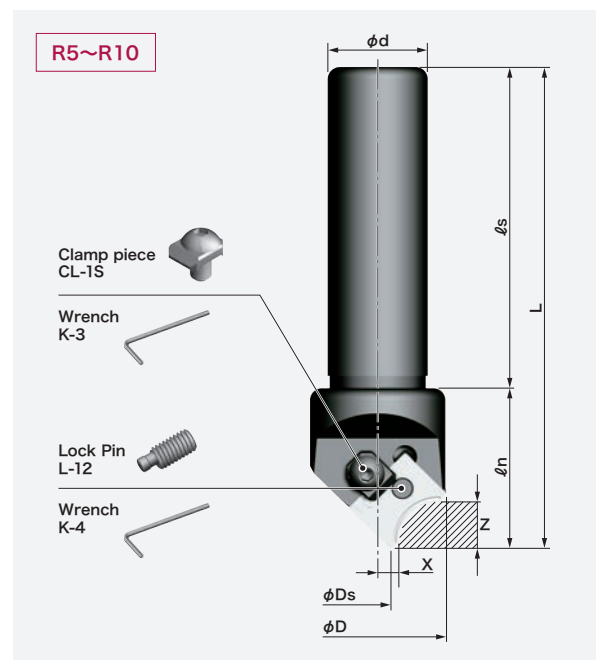
R-Chamfering

1-blade

Parameter Settings

Processing R	X-axis Position(mm)	X-axis Position(mm)
R5	6.00	6.70
R6	5.41	7.21
R7	5.64	8.42
R8	6.00	9.65
R9	5.41	10.16
R10	6.00	11.62

※The values stated herein are representative only and subject to manufacturing tolerances.



Body

Model No.	No. of Blade(s)	Capacity R-chamfering	Dimensions(mm)					
			φD	φDs	φd	L	ℓs	ℓn
NK20-10R	1	R5~R10	35.4	8.9	20	120	80	40
NK25-10R	1	R5~R10	35.4	8.9	25	120	80	40

※Insert is not included as standard accessory. Please order separately.

※Lock pin and wrench and clamp piece are included as standard accessories.



Do not tighten the insert in the reverse direction during installation.

Insert details ▶ 55 page

R-Nouveau



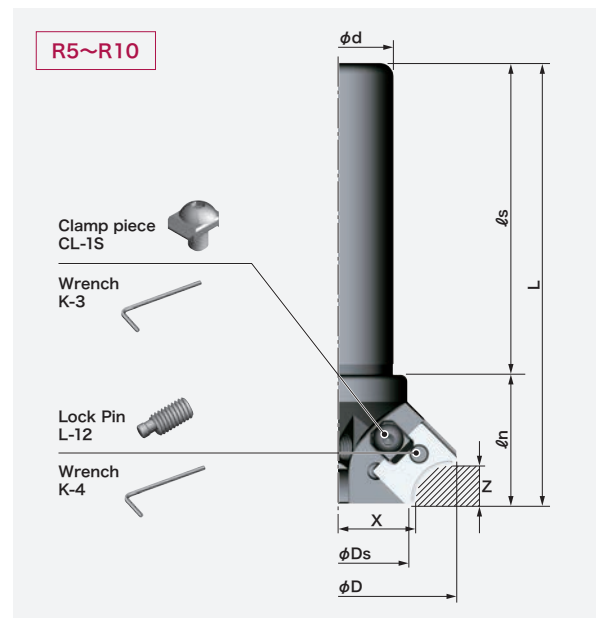
R-Chamfering

3-blade

Parameter Settings

Processing R	X-axis Position(mm)	X-axis Position(mm)
R5	22.80	6.80
R6	22.25	7.32
R7	22.49	8.56
R8	22.80	9.80
R9	22.25	10.32
R10	22.80	11.80

※The values stated herein are representative only and subject to manufacturing tolerances.



Body

Model No.	No. of Blade(s)	Capacity R-chamfering	Dimensions(mm)					
			φD	φDs	φd	L	ℓs	ℓn
NK25-70R	3	R5~R10	69.2	42.3	25	130	90	40
NK32-70R	3	R5~R10	69.2	42.3	32	130	90	40
NK32-70RL	3	R5~R10	69.2	42.3	32	200	150	50

※Insert is not included as standard accessory. Please order separately.

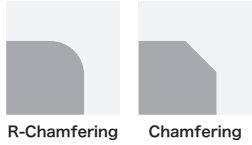
※Lock pin and wrench and clamp piece are included as standard accessories.



Do not tighten the insert in the reverse direction during installation.

Insert details ▶ 55 page

Ryanmencut-R [N TYPE]



Staggered 4-blade

Parameter Settings

Processing R	X-axis Position (mm)	Z1-axis Position (mm)	Z2-axis Position (mm)
R0.5	19.55	4.42	16.08
R0.75	19.42	4.54	15.96
R1	19.30	4.66	15.84
R1.5	19.05	4.91	15.59
R2	18.80	5.16	15.34
R2.5	18.55	5.41	15.09
R3	18.29	5.66	14.84
R3.5	18.04	5.91	14.59
R4	17.79	6.16	14.34
R4.5	17.54	6.41	14.09
R5	17.29	6.65	13.85

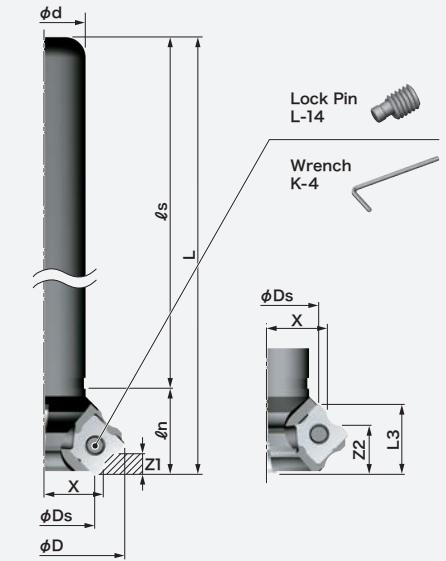
※The values stated herein are representative only and subject to manufacturing tolerances.

Body

Model No.	No. of Blade(s)	Max. Cutting Edge Length C-chamfering	Capacity R-chamfering	Dimensions(mm)							
				φD	φDs	φd	L	ℓs	ℓn	L3	
RR25-48N	Staggered 4	About 5.6mm	R0.5~R5	48	31.3	25	200	175	25	20.5	

※Insert is not included as standard accessory. Please order separately.
 ※Lock pin and wrench are included as standard accessories.

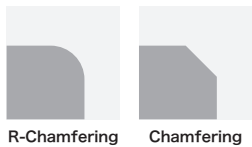
R0.5~R5



Do not tighten the insert in the reverse direction during installation.

Insert details ▶ 54・56 page

Ryanmencut-R [S TYPE]



Staggered 2-blade

Staggered 4-blade

Parameter Settings

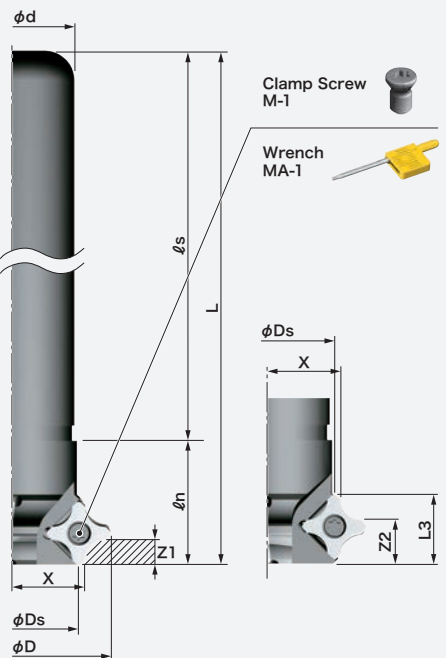
Inserts Model No.	Processing R	RR16-30S			RR25-40S		
		X-axis Position (mm)	Z1-axis Position (mm)	Z2-axis Position (mm)	X-axis Position (mm)	Z1-axis Position (mm)	Z2-axis Position (mm)
SNEQ090308-1RY ZA20N	R1	9.48	1.53	14.47	14.44	1.53	14.47
SNEQ090308-2RY ZA20N	R2	9.48	2.52	13.48	14.44	2.52	13.48
SNEQ090308-3RY ZA20N	R3	9.48	3.52	12.48	14.44	3.52	12.48
SNEQ090308-4RY ZA20N	R4	9.48	4.51	11.49	14.44	4.51	11.49
SNEQ090308-XRY ZA20N	1・2・3・4R	-	-	-	-	-	-
SNEQ090308-1RM ZA20N	R1	11.44	3.55	12.45	16.42	3.55	12.45
SNEQ090308-2RM ZA20N	R2	10.94	4.04	11.96	15.92	4.04	11.96
SNEQ090308-3RM ZA20N	R3	10.45	4.54	11.46	15.42	4.54	11.46
SNEQ090308-4RM ZA20N	R4	9.95	5.04	10.96	14.92	5.04	10.96
SNEQ090308-5RM ZA20N	R5	9.46	5.50	10.5	14.42	5.5	10.5
SNEQ090308-XRM ZA20N	1・2・3・4R	-	-	-	-	-	-

Body

Model No.	No. of Blade(s)	Max. Cutting Edge Length C-chamfering	Capacity R-chamfering	Dimensions(mm)							
				φD	φDs	φd	L	ℓs	ℓn	L3	
RR16-30S-4R	Staggered 2	About 5.6mm	R1~R5	30	17.9	16	200	175	25	16	
RR16-30S-5R	Staggered 2	About 5.6mm	R1~R5	30	17.9	16	200	175	25	16	
RR25-40S-4R	Staggered 4	About 5.6mm	R1~R5	40	27.8	25	200	175	25	16	
RR25-40S-5R	Staggered 4	About 5.6mm	R1~R5	40	27.8	25	200	175	25	16	

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

R1~R5



Precautions when using RY inserts
 Please ensure the front and back sides are oriented and mounted correctly.

Insert details ▶ 54・56 page

Urazaguru-solid



Back Counterboring

1-blade

Body

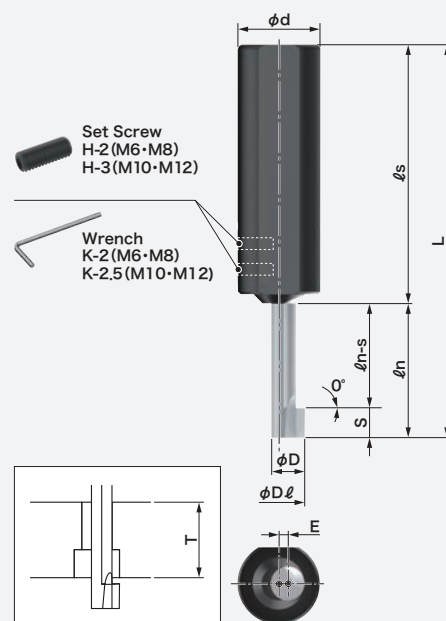
Model No.	No. of Blade(s)	Capacity (Bolt Hole Size)	Dimensions(mm)									
			ϕD	$\phi D\ell$	ϕd	L	ℓS	ℓn	$\ell n-s$	S	T	E
UZHS-M6	1	M6	5.6	11	20	106	80	26	20.5	5.5	15	2.7
UZHS-M8	1	M8	8	14	25	113	80	33	25.5	7.5	20	3
UZHS-M10	1	M10	10	17.5	32	140	100	40	30.5	9.5	25	3.75
UZHS-M12	1	M12	13	20	32	152	100	52	40.5	11.5	35	3.5

※ $\phi D\ell$ size is matched to the cap bolt.

※Bit is not included as standard accessory. Please order separately.

※Grub screw and wrench are included as standard accessories.

Bit material Micrograin Carbide



Parts vary by main unit model.
 ・M6/M8:H-2, K-2 ・M10/M12:H-3, K-2.5

Bit details ▶ 55 page

Urazaguru



Back Counterboring

1-blade

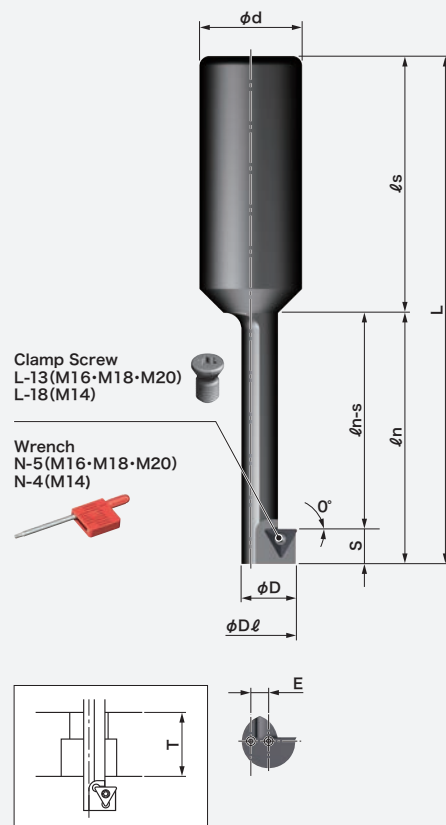
Body

Model No.	No. of Blade(s)	Capacity (Bolt Hole Size)	Dimensions(mm)									
			ϕD	$\phi D\ell$	ϕd	L	ℓS	ℓn	$\ell n-s$	S	T	E
UZH25-16T-M14CS	1	M14	14	23	25	133	80	53	45	8	40	4.55
UZH25-18T-M16CS	1	M16	16	26	25	146	80	66	55	11	50	5.04
UZH32-20T-M18CS	1	M18	18	29	32	158	80	78	67	11	61	5.54
UZH32-22T-M20CS	1	M20	20	32	32	168	80	88	77	11	71	6.03

※ $\phi D\ell$ size is matched to the cap bolt.

※Insert is not included as standard accessory. Please order separately.

※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 49-50 page

Parts vary by main unit model.
 ・M14:L-18, N-2 ・M16~M20:L-13, N-5

New Nice Cut

NS TYPE



NT TYPE



3-blade



Face Milling

Shoulder Milling

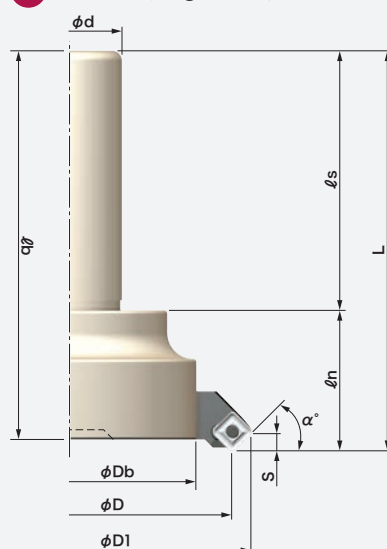
Base

NK32078-03
NK32108-03
NK32128-03

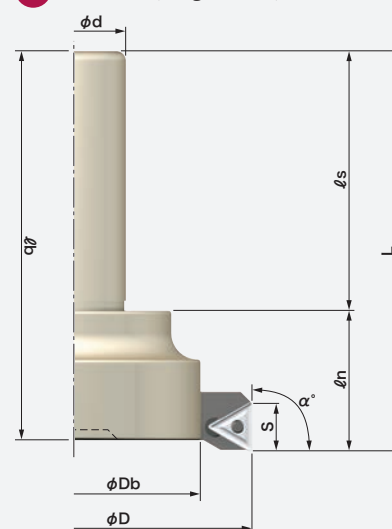


Clamp Screw L-20x3pcs
Cap Screw CP6-15x3pcs
Wrench N-6x1 K-5x1
Standard accessories.

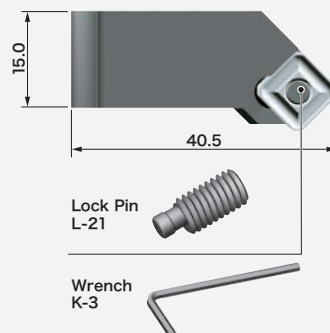
1 NS TYPE (Negative S)



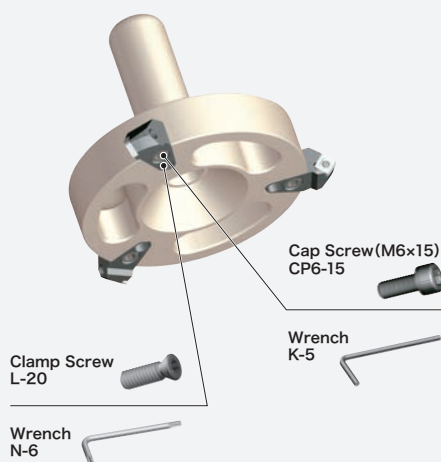
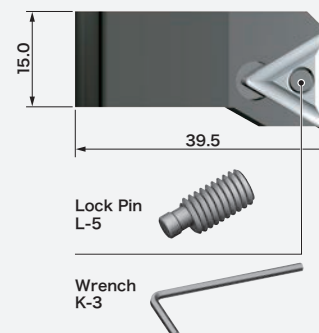
2 NT TYPE (Negative T)



Arm AMNS-03(NS TYPE)



Arm AMNT-03(NT TYPE)



※The new NICECUT Arm cannot be mounted on the old model.

※Inserts and wrench are not included as standard accessories. Please order separately.
※Lock pin is included as standard accessory.

Body

Model No.	Fig.	No. of Blade(s)	Capacity Face Milling	Dimensions(mm)										Weight(g)	α°	Base	Arm
				φD	φD1	φDb	φd	L	ℓs	ℓn	ℓb	S					
NKN20-100S-03	①	3	φ100mm	100	112	78	20	123.5	80	43.5	120	5.0	1,525	45°	–	AMNS-03	
NKN32-100S-03	①	3	φ100mm	100	112	78	32	123.5	80	43.5	120	5.0	1,825	45°	NK32078-03	AMNS-03	
NKN20-130S-03	①	3	φ130mm	130	142	108	20	123.5	80	43.5	120	5.0	2,755	45°	–	AMNS-03	
NKN32-130S-03	①	3	φ130mm	130	142	108	32	123.5	80	43.5	120	5.0	3,055	45°	NK32108-03	AMNS-03	
NKN32-150S-03	①	3	φ150mm	150	162.5	128	32	120	85	35	116.5	5.0	2,505	45°	NK32128-03	AMNS-03	
NKN32-110T-03	②	3	φ110mm	110	–	78	32	123.5	80	43.5	120	14.5	1,849	90°	NK32108-03	AMNT-03	
NKN32-140T-03	②	3	φ140mm	140	–	108	32	123.5	80	43.5	120	14.5	3,079	90°	NK32108-03	AMNT-03	
NKN32-160T-03	②	3	φ160mm	160	–	128	32	120	85	35	116.5	14.5	2,529	90°	NK32128-03	AMNT-03	

※Insert is not included as standard accessory. Please order separately.

※Clamp screw and lock pin and cap screw and wrench are included as standard accessories.



The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied. Do not tighten the insert in the reverse direction during installation or replacement.

Insert details ▶ 56-57 page

Aeromill

NS (Negative)

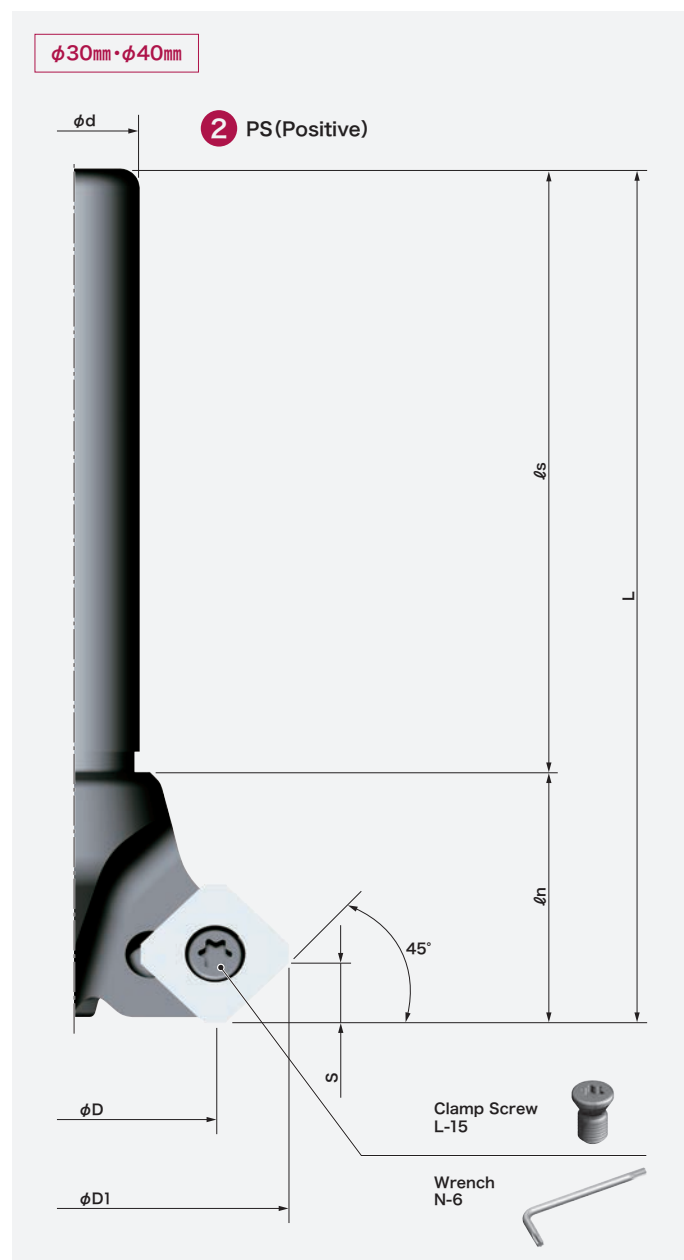
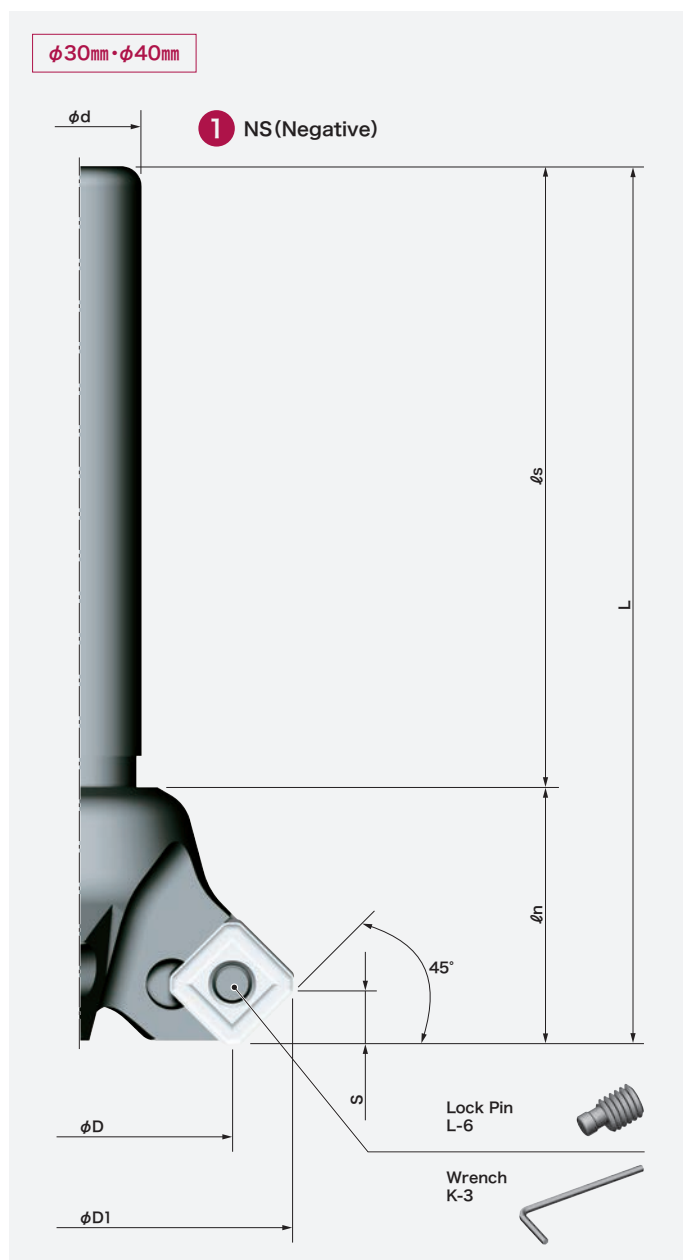


PS (Positive)



3-blade

Face Milling



Body

Model No.	Fig.	No. of Blade(s)	Capacity Face Milling	Dimensions(mm)							Weight(g)
				ϕD	$\phi D1$	ϕd	L	ℓs	ℓn	S	
ARN12-30S	①	3	$\phi 30\text{mm}$	30	42	12	85	60	25	5.0	132
ARN16-40S	①	3	$\phi 40\text{mm}$	40	52	16	85	60	25	5.0	210
ARP12-30S	②	3	$\phi 30\text{mm}$	30	43.2	12	85	60	25	6.0	116
ARP16-40S	②	3	$\phi 40\text{mm}$	40	53.6	16	85	60	25	6.0	224

※Insert is not included as standard accessory. Please order separately.

※Lock pin and wrench are included as standard accessories.(NS TYPE) ※Clamp screw and wrench are included as standard accessories.(PS TYPE)



The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied. Do not tighten the insert in the reverse direction during installation or replacement.

Insert details ▶ 56 page

NEW Tiko Cutter



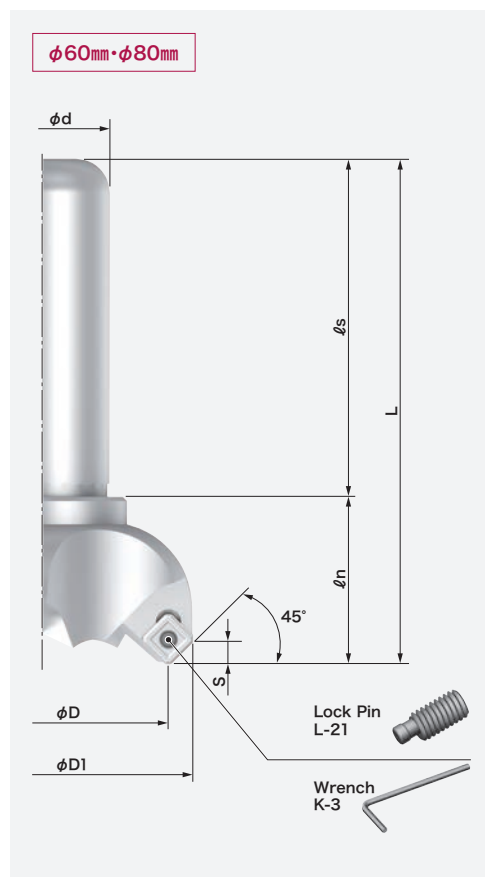
Face Milling

3-blade

Body

Model No.	No. of Blade(s)	Capacity Face Milling	Dimensions(mm)							Weight(g)
			ϕD	$\phi D1$	ϕd	L	ℓs	ℓn	S	
TKN20-60S-03	3	$\phi 60\text{mm}$	60	73	20	120	80	40	5.0	668
TKN20-80S-03	3	$\phi 80\text{mm}$	80	93	20	120	80	40	5.0	826
TKN32-60S-03	3	$\phi 60\text{mm}$	60	73	32	120	80	40	5.0	968
TKN32-80S-03	3	$\phi 80\text{mm}$	80	93	32	120	80	40	5.0	1,126

※Insert is not included as standard accessory. Please order separately.
 ※Lock pin and wrench are included as standard accessories.



The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied. Do not tighten the insert in the reverse direction during installation or replacement.

Insert details ▶ 56page

Sumicco



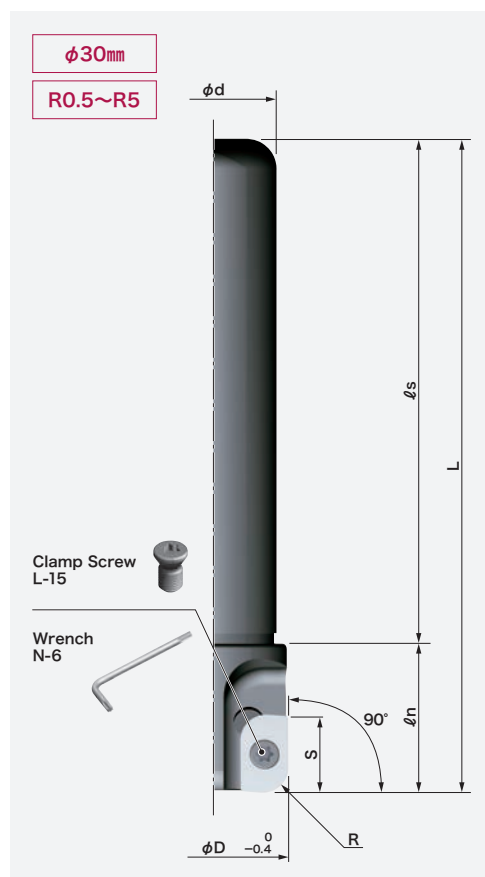
Corner Radius Shoulder Milling

2-blade

Body

Model No.	No. of Blade(s)	Capacity Corner R Shoulder Milling	Dimensions(mm)						Weight(g)	
			ϕ D	ϕ d	L	ℓ s	ℓ n	S		
SK25-30ASR	2	R0.5~R2.5	ϕ 30mm	30	25	130	100	30	15	478
SK25-30ASRL	2	R0.5~R2.5	ϕ 30mm	30	25	200	170	30	15	748
SK25-30ALR	2	R2.5~R5	ϕ 30mm	30	25	130	100	30	15	474
SK25-30ALRL	2	R2.5~R5	ϕ 30mm	30	25	200	170	30	15	746

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 58page

Dekasumi



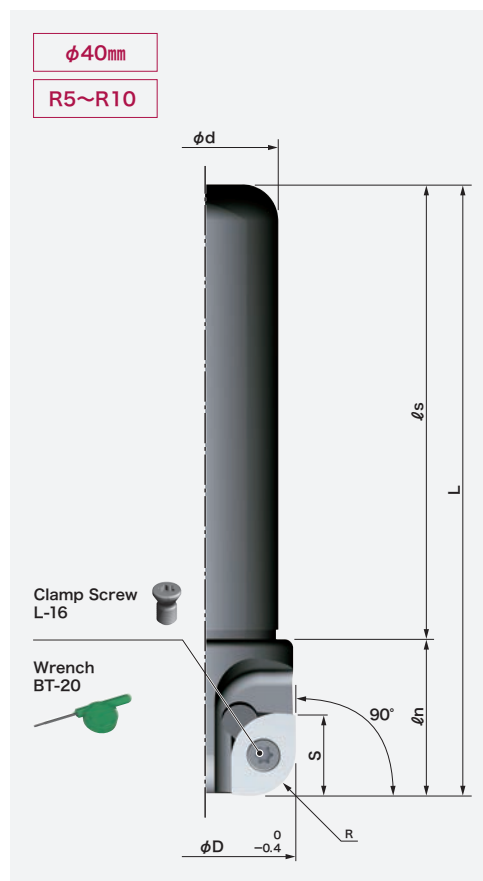
Corner Radius
Shoulder Milling

2-blade

Body

Model No.	No. of Blade(s)	Capacity Corner R Shoulder Milling	$\phi 40\text{mm}$	Dimensions(mm)						Weight(g)
				ϕD	ϕd	L	ℓs	ℓn	S	
DC32-40ASR	2	R5~R7	$\phi 40\text{mm}$	40	32	135	100	35.0	18.1	820
DC32-40ASRL	2	R5~R7	$\phi 40\text{mm}$	40	32	185	150	35.0	18.1	1,140
DC32-40ALR	2	R8~R10	$\phi 40\text{mm}$	40	32	134.6	100	34.6	17.6	813
DC32-40ALRL	2	R8~R10	$\phi 40\text{mm}$	40	32	184.6	150	34.6	17.6	1,140

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 58 page

Skat Cut



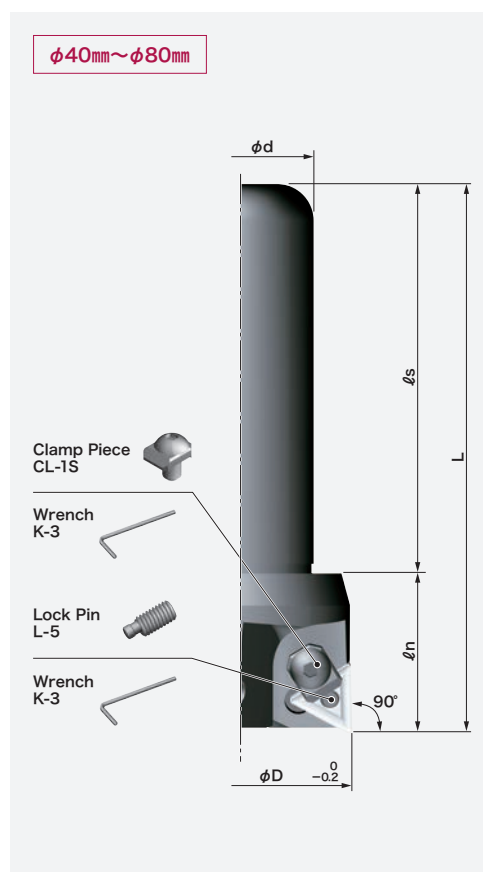
Shoulder
Milling

3-blade

Body

Model No.	No. of Blade(s)	Capacity Shoulder Milling	$\phi 40\text{mm}$	Dimensions(mm)					Weight(g)
				ϕD	ϕd	L	ℓs	ℓn	
NK9040T-20	3	$\phi 40\text{mm}$	40	20	120	85	35	520	
NK9040T	3	$\phi 40\text{mm}$	40	32	120	85	35	700	
NK9050T-20	3	$\phi 50\text{mm}$	50	20	120	85	35	540	
NK9050T	3	$\phi 50\text{mm}$	50	32	120	85	35	800	
NK9060T	3	$\phi 60\text{mm}$	60	32	120	85	35	950	
NK9070T	3	$\phi 70\text{mm}$	70	32	120	85	35	1,200	
NK9080T	3	$\phi 80\text{mm}$	80	32	120	85	35	1,200	

※Insert is not included as standard accessory. Please order separately.
 ※Lock pin and wrench and clamp piece are included as standard accessories.

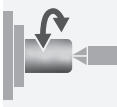


Insert details ▶ 57 page



The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied. Do not tighten the insert in the reverse direction during installation or replacement.

Oilsshar



Turning Tools

Significant Boost in Insert Life

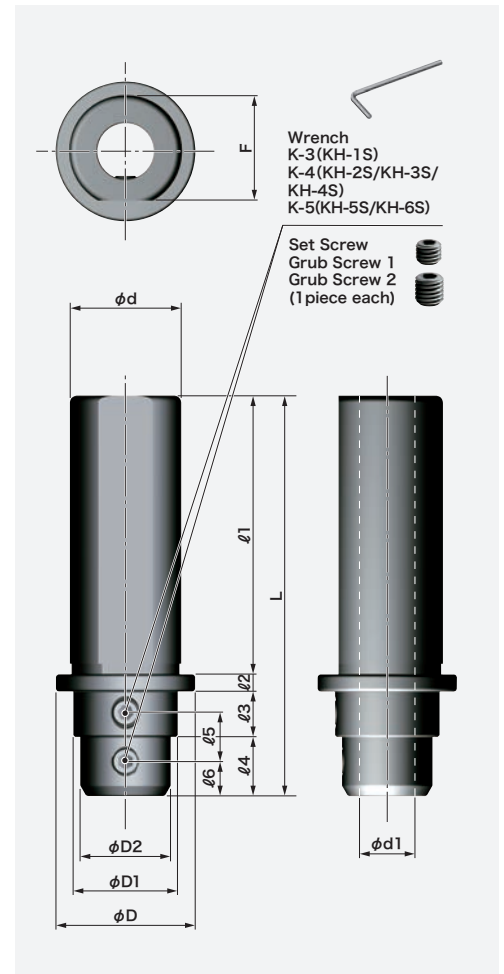
For Lathes

- Ideal for inner diameter turning and boring processing on turning centers.
- The innovative stepped sleeve design ensures cutting fluid is directly and efficiently guided to the cutting edge. Coolant thoroughly penetrates every corner of the inner diameter during machining, delivering an approximate 20% increase in insert life.
- With the adjustment screw conveniently positioned at the front, the boring bar projection length can be easily adjusted without removing the sleeve from the tool holder.

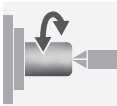
Body

Model No.	Dimensions(mm)													Set Screw
	φD	φD1	φD2	φd	φd1	L	ℓ1	ℓ2	ℓ3	ℓ4	ℓ5	ℓ6	F	
KJD32S08	40	28	24	32	8	115	80	5	15	15	14	10	30	KH-1S
KJD32S10	40	25	—	32	10	115	80	5	30	—	14	10	30	KH-2S
KJD32S12	40	25	—	32	12	115	80	5	30	—	14	10	30	KH-2S
KJD32S16	40	30	26	32	16	115	80	5	13	17	14	10	30	KH-2S
KJD32S20	40	32	—	32	20	115	80	5	30	—	13	11	30	KH-2S
KJD40S08	47	28	24	40	8	120	80	5	15	20	16	12	38	KH-1S
KJD40S10	47	32	28	40	10	120	80	5	15	20	15	13	38	KH-3S
KJD40S12	47	32	28	40	12	120	80	5	15	20	15	13	38	KH-3S
KJD40S16	47	34	31	40	16	120	80	5	15	20	15	13	38	KH-4S
KJD40S20	47	35	—	40	20	120	80	5	35	—	15	13	38	KH-5S
KJD40S25	48	40	—	40	25	120	80	15	25	—	17.5	15	38	KH-6S

※Wrench is not included as standard accessory. ※Set screws are included as standard accessories.



Esleeve



Turning Tools

Small-Diameter Sleeve for Lathes

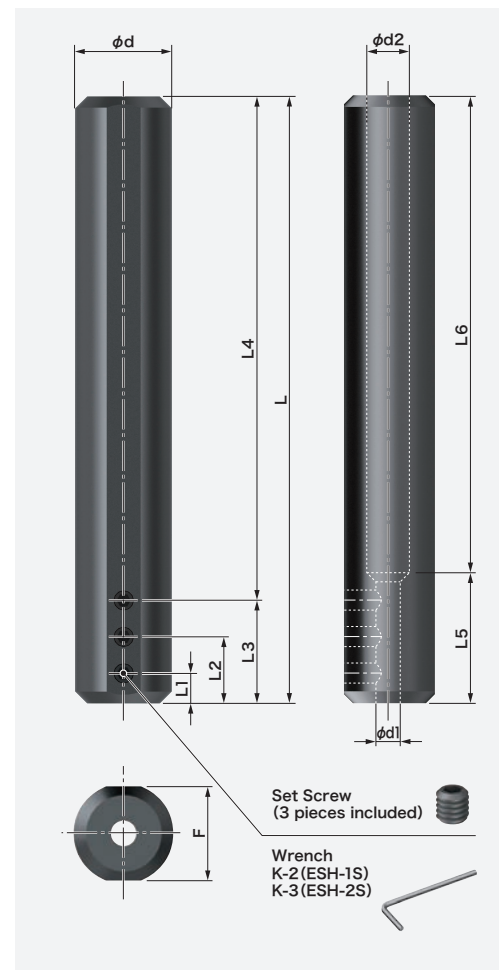
For Lathes

- Capable of securely clamping small-diameter tool bits and drills.
- Perfectly suited for small-diameter hole-drilling processing.

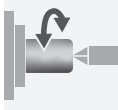
Body

Model No.	Dimensions(mm)											Set Screw
	ϕd	$\phi d1$	$\phi d2$	L	L1	L2	L3	L4	L5	L6	F	
ESL0416	16	4	10	100	5	11	17	83	20	80	15	ESH-1S
ESL0516	16	5	10	100	5	11	17	83	20	80	15	ESH-1S
ESL0616	16	6	10	100	5	11	17	83	20	80	15	ESH-1S
ESL0816	16	8	10	100	6	16	26	74	40	60	15	ESH-2S
ESL1016	16	10	12	100	6	16	26	74	40	60	15	ESH-2S
ESL0420	20	4	10	100	5	11	17	83	20	80	19	ESH-1S
ESL0520	20	5	10	100	5	11	17	83	20	80	19	ESH-1S
ESL0620	20	6	10	100	5	11	17	83	20	80	19	ESH-1S
ESL0820	20	8	10	100	6	16	26	74	40	60	19	ESH-2S
ESL1020	20	10	12	100	6	16	26	74	40	60	19	ESH-2S
ESL1220	20	12	14	100	6	16	26	74	40	60	19	ESH-2S

※Wrench is not included as standard accessory. ※A set of 3 set screws is included as standard accessory.



Colesleeve

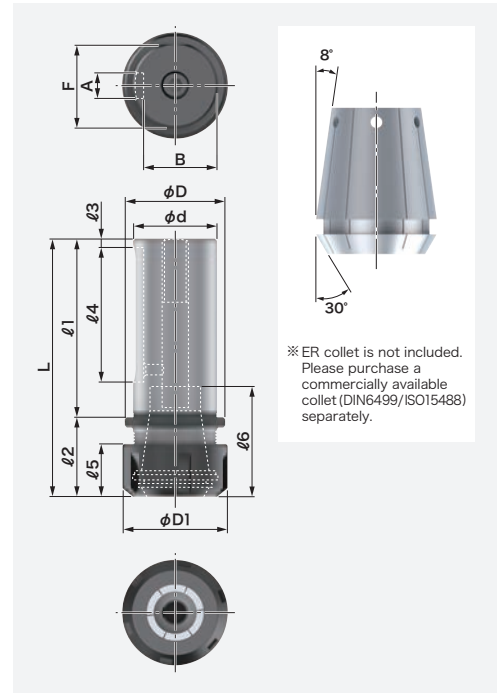
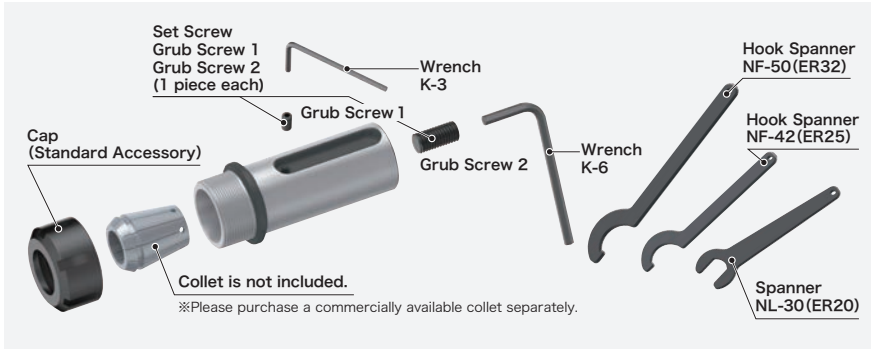


Turning Tools

Universal spring collet enables the utilization of drills with various shank diameters.

For Lathes

- Fully interchangeable with standard ER collet systems.
- Designed for mounting on lathes and tool bit holders.
- Supports thru-coolant when paired with center-through collets.

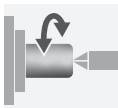


Body

Model No.	Dimensions(mm)													Matching Collet	Set Screw	Spanner
	φD	φD1	φd	L	ℓ1	ℓ2	ℓ3	ℓ4	ℓ5	ℓ6	A	B	F			
CER20-C32-120	38	34	32	121	85	36	14	54	21.7	51	12	27	31	ER20	ERSH-1S	NL-30
CER20-C40-120	48	34	40	121	85	36	14	54	21.7	51	12	35	39	ER20	ERSH-2S	NL-30
CER25-C32-120	38	42	32	121	85	36	14	54	24	51	12	27	31	ER25	ERSH-1S	NF-42
CER25-C40-120	48	42	40	121	85	36	14	54	24	51	12	35	39	ER25	ERSH-2S	NF-42
CER32-C40-120	48	50	40	123	85	38	14	54	25	52	12	35	39	ER32	ERSH-2S	NF-50

※Wrench, spanner and collet are not included as standard accessories. ※Set screws are included as standard accessories.

Outdriller



Turning Tools

Center hole machining via OD tool profile!

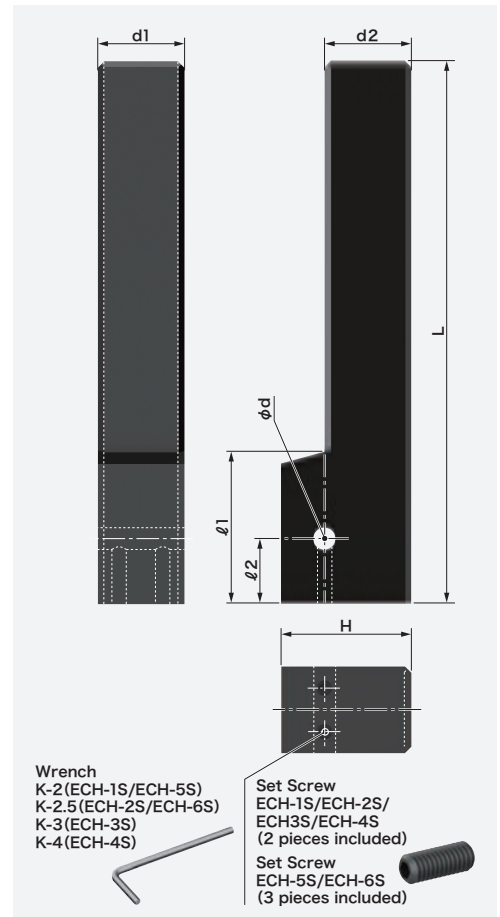
For Lathes

- Enables internal diameter machining, including center drilling, using standard outer diameter tool geometry.
- Eliminates the need to switch to a dedicated ID holder, drastically reducing setup and changeover times.
- Highly beneficial when the number of available stations on the tool holder is limited.

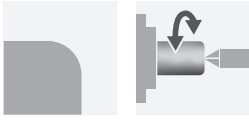
Body

Model No.	Dimensions(mm)							Set Screw
	φd	φd1	φd2	L	ℓ1	ℓ2	H	
ESB2020K05	5	20	20	125	35	15	30	ECH-1S
ESB2020K06	6	20	20	125	35	15	30	ECH-2S
ESB2020K08	8	20	20	125	35	15	30	ECH-3S
ESB2020K10	10	20	20	125	35	15	30	ECH-4S
ESB2020K12	12	20	20	125	35	15	30	ECH-4S
ESB2525M05	5	25	25	150	35	15	35	ECH-5S
ESB2525M06	6	25	25	150	35	15	35	ECH-6S
ESB2525M08	8	25	25	150	35	15	35	ECH-3S
ESB2525M10	10	25	25	150	35	15	35	ECH-4S
ESB2525M12	12	25	25	150	35	15	35	ECH-4S

※Wrench is not included as standard accessory. ※Set screws are included as standard accessories.



10R-Bit



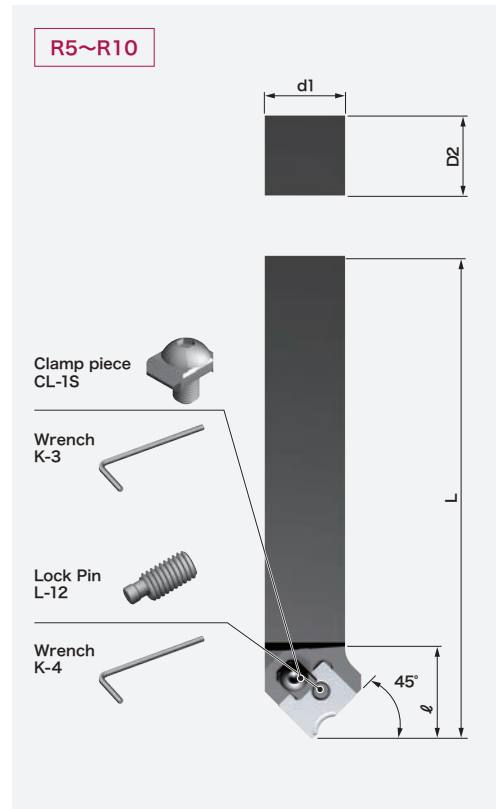
R-Chamfering Turning Tools

1-blade

■ Body

Model No.	No. of Blade(s)	Capacity R-chamfering	Dimensions(mm)			
			d1	D2	L	<i>ℓ</i>
25CR	1	R5~R10	25	25	150	30

※Insert is not included as standard accessory. Please order separately.
※Lock pin and wrench and clamp piece are included as standard accessories.



 The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied. Do not tighten the insert in the reverse direction during installation or replacement.

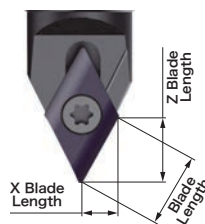
Insert details ► 55 page

60° Momimen for turning



Chamfering Turning Tools

■ Blade Length

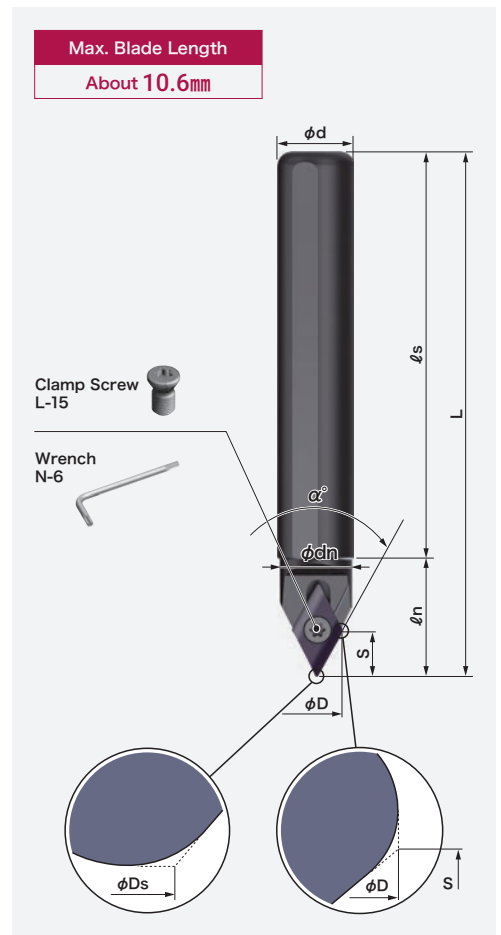


1-blade

■ **Body**

Model No.	No. of Blade(s)	Max. Blade Length	Dimensions(mm)										α°
			ϕD	ϕD_s	ϕd	ϕdn	L	l_s	l_n	S	X Blade Length	Z Blade Length	
ST1660DS	1	About 10.6mm	11.9	0.97	16	15	110	85	25	9.4	5.3	9.2	60°

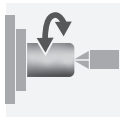
※Insert is not included as standard accessory. Please order separately.
※Clamp screw and wrench are included as standard accessories.



 Due to the specialized insert geometry, the tip area does not form a perfect vertex angle during centering processing.

Insert details ► 49 page

Sumicco R-Bit

Corner Radius
Shoulder Milling

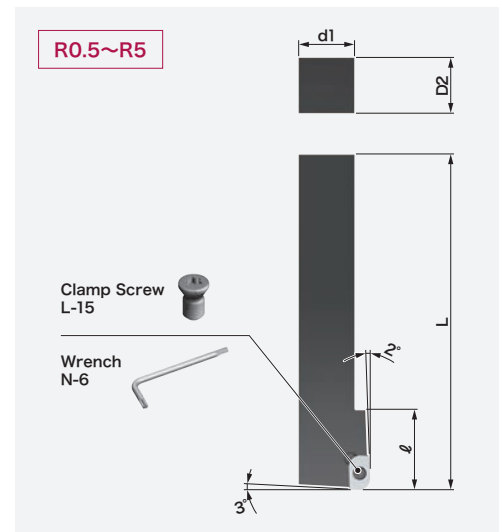
Turning Tools

1-blade

Body

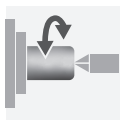
Model No.	No. of Blade(s)	Capacity Corner R Shoulder Milling	Dimensions(mm)			
			d1	D2	L	ℓ
25SKB	1	R0.5~R5	25	25	150	36

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 58 page

Dekasumi R-Bit

Corner Radius
Shoulder Milling

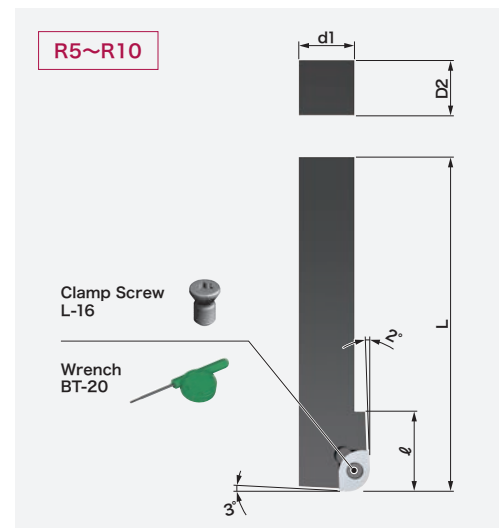
Turning Tools

1-blade

Body

Model No.	No. of Blade(s)	Capacity Corner R Shoulder Milling	Dimensions(mm)			
			d1	D2	L	ℓ
25DCB	1	R5~R10	25	25	150	36

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

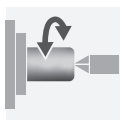


Insert details ▶ 58 page

R-Nature



R-Chamfering



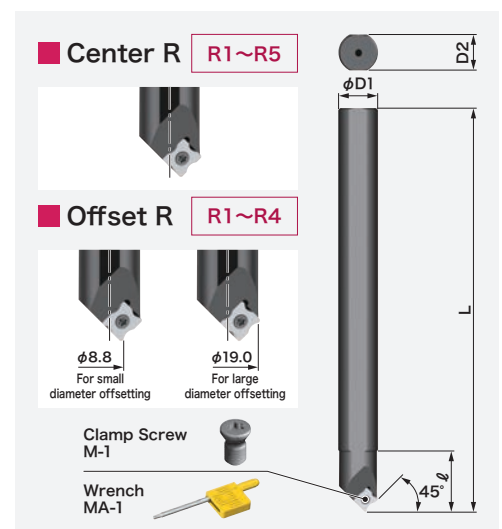
Turning Tools

1-blade

Body

Model No.	No. of Blade(s)	Capacity Inner Diameter R-chamfering	Dimensions(mm)				Hand
			φD1	D2	L	ℓ	
18SR-R	1	Center R(R1~R5) Offset R(R1~R4)	20	18	200	30	Right
18SR-L	1	Center R(R1~R5) Offset R(R1~R4)	20	18	200	30	Left

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.



Insert details ▶ 54·56page

Nice-Corner F3



3-blade



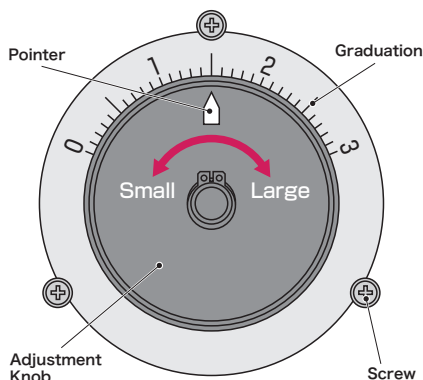
Chamfering

~C3

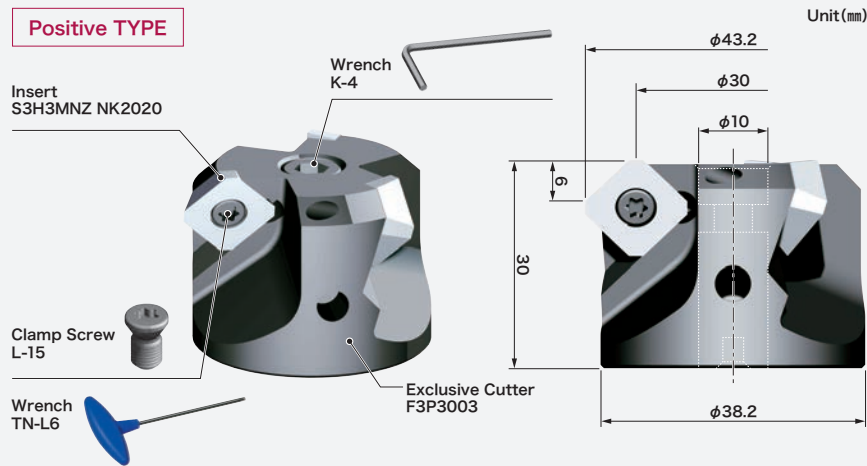


Adjustment Knob

Quick and easy adjustment via a clear chamfering scale



Positive TYPE



Built-in Exclusive Cutter (Standard Accessory)

Model. No	No. of Blade(s)
F3P3003	3

※In case of cutter only purchases, inserts and wrenches must be ordered separately.

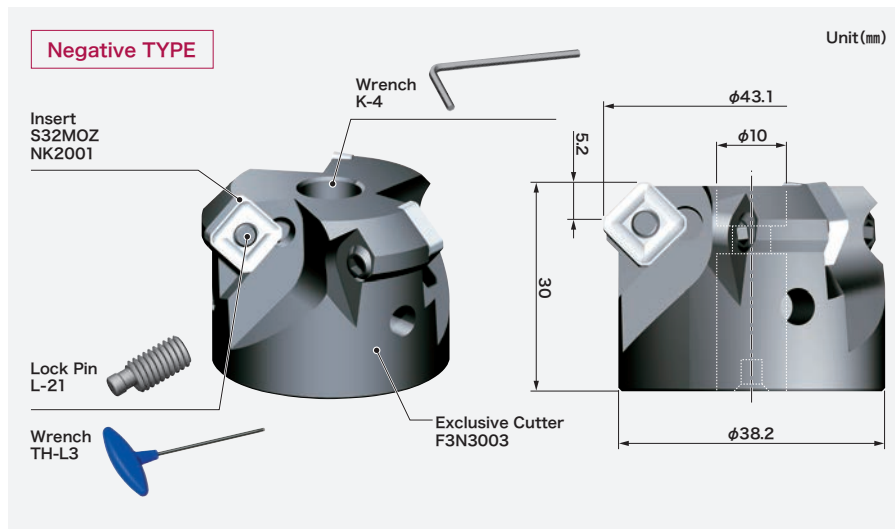
List of Standard Accessories (Positive TYPE)

Product Name	Model No.	Quantity
Exclusive Cutter	F3P3003	1
Clamp Screw	L-15	3
Wrench	K-4 / K-6 / TN-L6	1pc each
Fuses	F-15A	1pc (1 spare included)
Power Cable	PC-1	1
Insert	S3H3MNZ NK2020	3

Body(Positive TYPE)

Model No.	No. of Blade(s)	Capacity	Power Supply	Rotation Speed	Dimensions(mm)	Weight	Guide Plate	Exclusive Cutter
Fixed Guide Plate F3	3	Max. C MAX C3	100V (Max500W)	8,000r.p.m.	W230×D250×H327	23kg (Except power cable)	F3L-250	F3P3003
Fixed Guide Plate (for Thin Plates) F3-250T	3	Max. C MAX C1	100V (Max500W)	8,000r.p.m.	W230×D250×H327	23kg (Except power cable)	F3L-250T	F3P3003
Slide Guide Plate F3-400S	3	Max. C MAX C3	100V (Max500W)	8,000r.p.m.	W230×D400×H362	28kg (Except power cable)	F3S-400	F3P3003
Slide Guide Plate (for Thin Plates) F3-400ST	3	Max. C MAX C1	100V (Max500W)	8,000r.p.m.	W230×D400×H362	28kg (Except power cable)	F3S-400T	F3P3003

Insert details ▶ 56 page



Built-in Exclusive Cutter (Standard Accessory)

Model No.	No. of Blade(s)
F3N3003	3

※Cutter body only. Please purchase the inserts and wrench (K-4 / TH-L3) separately.
※L-21x3pcs are included.

List of Standard Accessories (Negative TYPE)

Product Name	Model No.	Quantity
Exclusive Cutter	F3N3003	1
Lock Pin	L-21	3
Wrench	K-4 / K-6 / TH-L3	1pc each
Fuses	F-15A	1pc (1spare included)
Power Cable	PC-1	1
insert	S32MOZ NK2001	3

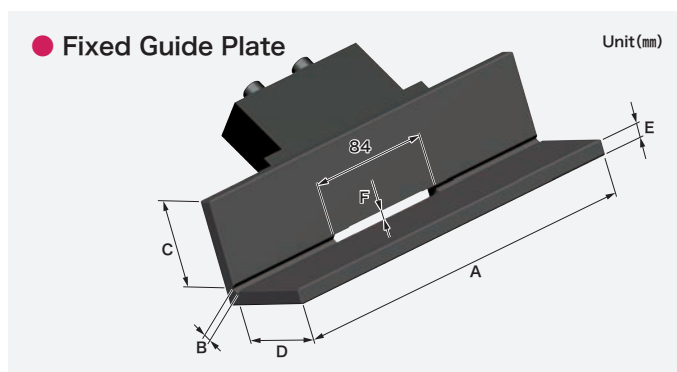
Body(Negative TYPE)

Model No.	No. of Blade(s)	Capacity	Power Supply	Rotation Speed	Dimensions(mm)	Weight	Guide Plate	Exclusive Cutter
Fixed Guide Plate F3-N	3	Max. C MAX C3	100V(Max500W)	8,000r.p.m.	W230xD250xH327	23kg (Except power cable)	F3L-250	F3N3003
Fixed Guide Plate (for Thin Plates) F3-250T-N	3	Max. C MAX C1	100V(Max500W)	8,000r.p.m.	W230xD250xH327	23kg (Except power cable)	F3L-250T	F3N3003
Slide Guide Plate F3-400S-N	3	Max. C MAX C3	100V(Max500W)	8,000r.p.m.	W230xD400xH362	28kg (Except power cable)	F3S-400	F3N3003
Slide Guide Plate (for Thin Plates) F3-400ST-N	3	Max. C MAX C1	100V(Max500W)	8,000r.p.m.	W230xD400xH362	28kg (Except power cable)	F3S-400T	F3N3003

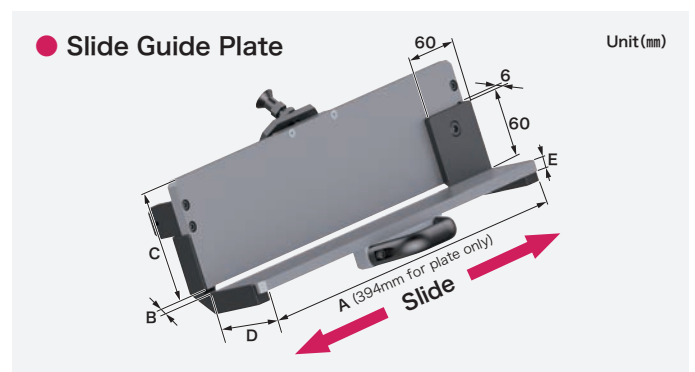
⚠ The eccentric locking mechanism may cause poor machining accuracy or insert breakage if reverse torque is applied. Do not tighten the insert in the reverse direction during installation or replacement.

Insert details ▶ 56 page

Option(s)



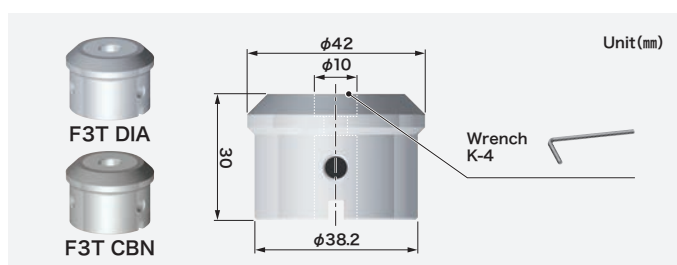
Model No.	Dimensions(mm)						Max. Plate Length	Max. Plate Thickness	Max. C
	A	B	C	D	E	F			
F3L-250	250	6	55	55	10	6	—	6mm or more	MAX C3
F3L-250T	250	2	55	55	10	2	—	2.5mm or more	MAX C1



Model No.	Dimensions(mm)						Max. Plate Length	Max. Plate Thickness	Max. C
	A	B	C	D	E	F			
F3S-400	400	5	100	60	10	5	250mm	6mm or more	MAX C3
F3S-400T	400	2	100	60	10	2	250mm	2.5mm or more	MAX C1

※Chamfering is possible for workpieces up to 250mm.

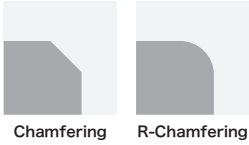
Exclusive Electroplated Grindstone



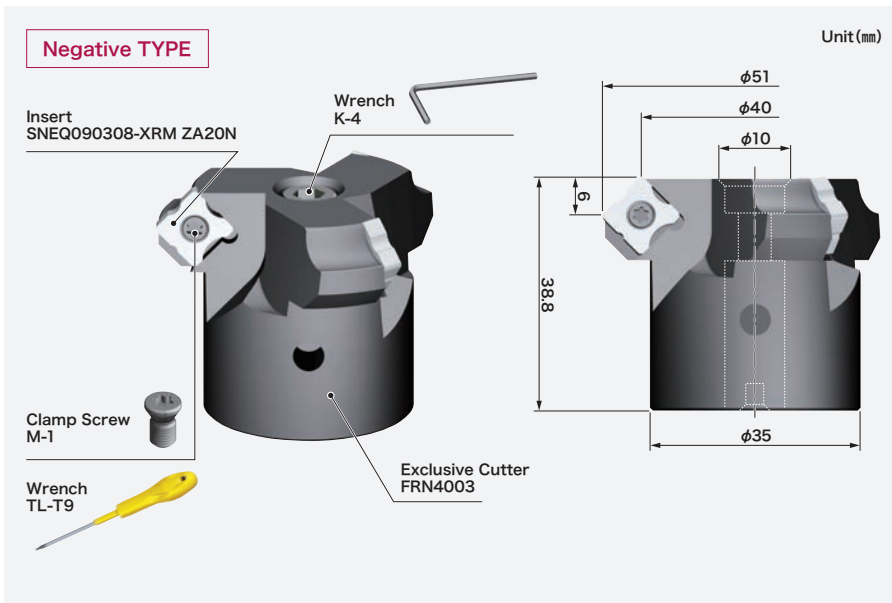
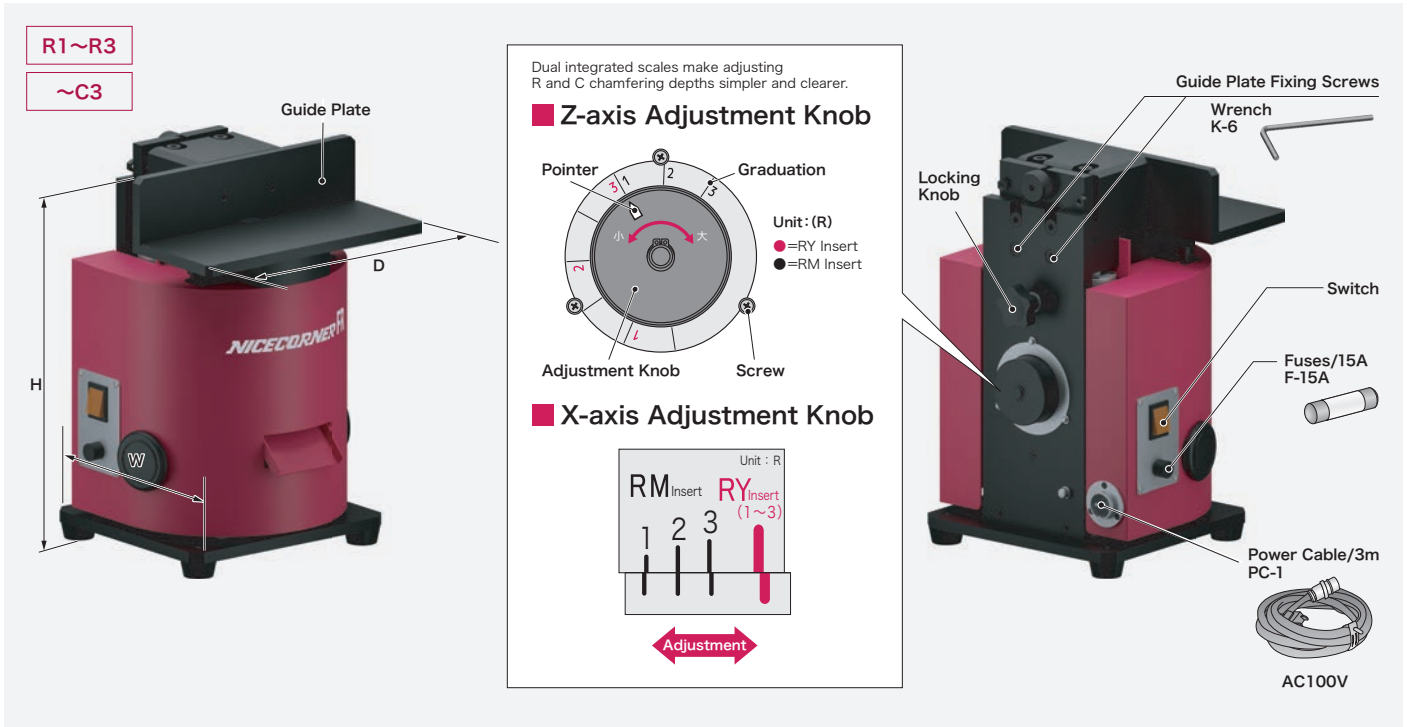
Target Workpieces	Model No.
Ceramics Glass Carbide	F3T DIA (DIA #100)
HSS Hardened Steel HRC≥45	F3T CBN (CBN #100)

※Wrench K-4 separately, please purchase.

Nice-Corner FR



3-blade



Built-in Exclusive Cutter (Standard Accessory)

Model No.	No. of Blade(s)
FRN4003	3

※Cutter body only. Please purchase the inserts and wrench (K-4 / TH-L9) separately.

※Clamp screw (M-1) are included as standard accessories.

List of Standard Accessories

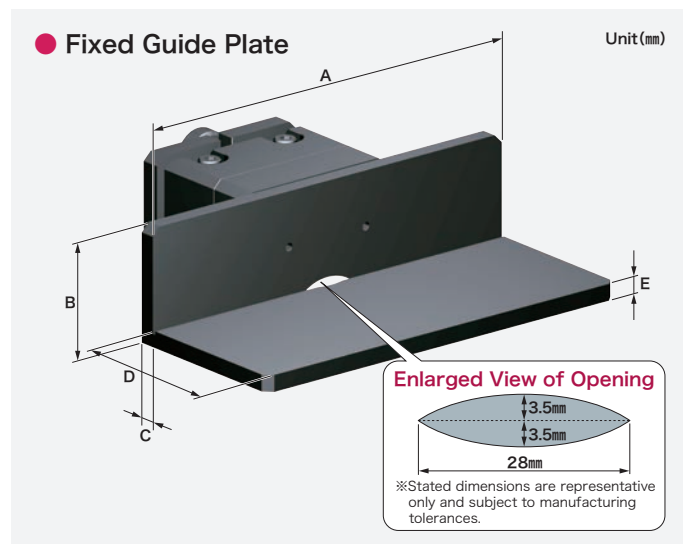
Product Name	Model No.	Quantity
Exclusive Cutter	FRN4003	1
Clamp Screw	M-1	3
Wrench	K-4 / K-6 / TL-T9	1pc each
Fuses	F-15A	1pc (1 spare included)
Power Cable	PC-1	1
Insert	SNEQ090308-XRM ZA20N	3

Body

Model No.	No. of Blade(s)	Capacity	Power Supply	Rotation Speed	Dimensions(mm)	Weight	Guide Plate	Insert
Fixed Guide Plate FR	3	R-chamfering R1~R3 C-chamfering ~C3	100V (Max500W)	8,000r.p.m.	W240xD250xH360	27kg (Except power cable)	FRL-250	SNEQ090308-XRM ZA20N
Slide Guide Plate FR-400S	3	R-chamfering R1~R3 C-chamfering ~C3	100V (Max500W)	8,000r.p.m.	W290xD400xH400	32kg (Except power cable)	FRS-400	SNEQ090308-XRM ZA20N

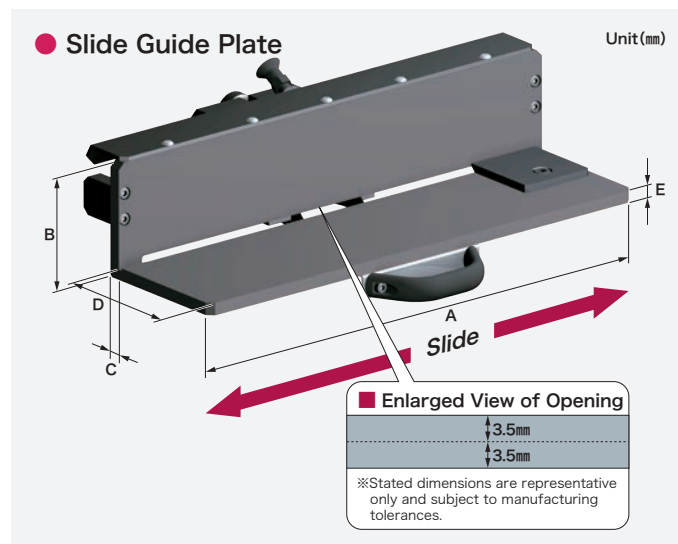
Insert details ▶ 54・56page

Option(s)



Model No.	Dimensions(mm)					Max. C	Maximum R chamfer
	A	B	C	D	E		
FRL-250	250	70	10	100	10	MAX C3	MAX R3

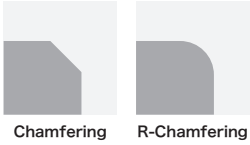
※Min. Plate Thickness 4mm.



Model No.	Dimensions(mm)					Max. C	Maximum R chamfer
	A	B	C	D	E		
FRS-400	400	90	10	105	10	MAX C3	MAX R3

※Chamfering is possible for workpieces up to 250mm.
※Min. Plate Thickness 4mm.

Nice-Corner FN



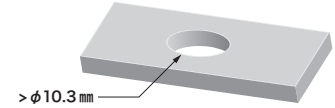
Specification

Optimal Air Pressure	0.49~0.68MPa(5~7kgf/cm ²)
No-Load Speed	10000r.p.m.

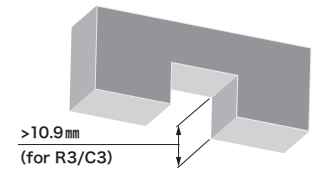
1-blade

Processable Chamfering Dimensions (Examples by Machining Profile)

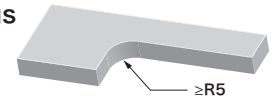
Hole Diameter



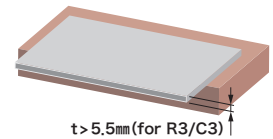
Groove Depth



Radius



Thickness



Body

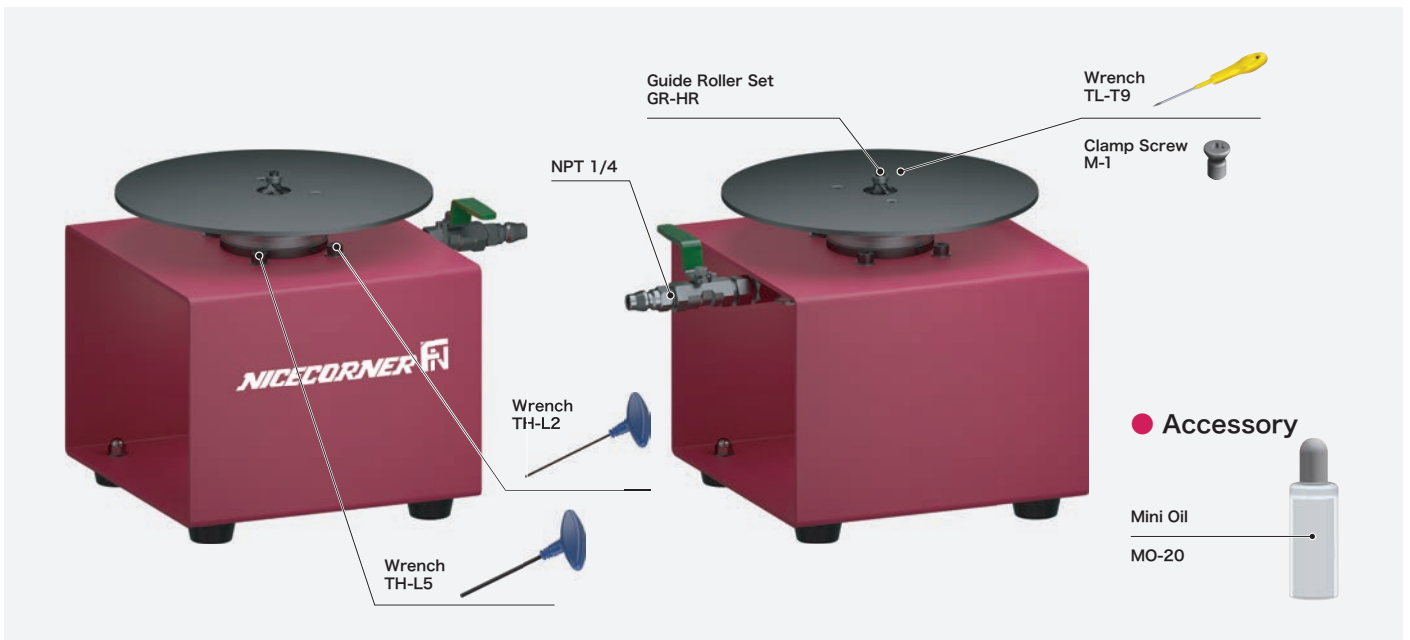
Model No.	Dimensions (mm)	Minimum Processing diameter	Capacity	Weight
FN	W300xD200xH200	$\phi 10.3$	Up to 3C(3R)	5.4kg

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

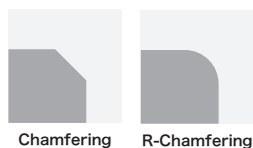
For details on chamfering inserts, please refer to 56page.

For details on radius inserts, please refer to 56page.

Standard Accessories



Han-Chan-man

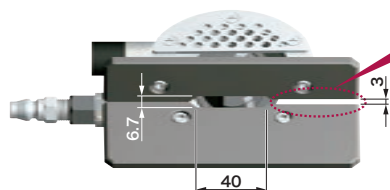


Specification

3-blade

Optimal Air Pressure	0.49~0.68MPa (5~7kgf/cm ²)
No-Load Speed	10,000r.p.m.
Air Consumption	0.19m ³ /min
Capacity	From slight chamfer to C4
Max. Plate Thickness	6.0mm or more
Weight	2kg

Enlarged View of Opening



A specific clearance gap has been engineered to effectively prevent the formation of burrs and ridges.

The guide plate groove is designed with an expanded clearance exclusively around the cutter section.

※Stated dimensions are representative only and subject to manufacturing tolerances.

Body

Model No.	No. of Blade(s)	Dimensions(mm)	Guide Plate Total Length(mm)	Weight	Exclusive Cutter
HAM4-150CP3003	3	W93xD205xH119	150	2kg	HMP3003(Positive TYPE)

※Insert is not included as standard accessory.

Please order separately.

※Clamp screw and wrench are included as standard accessories.

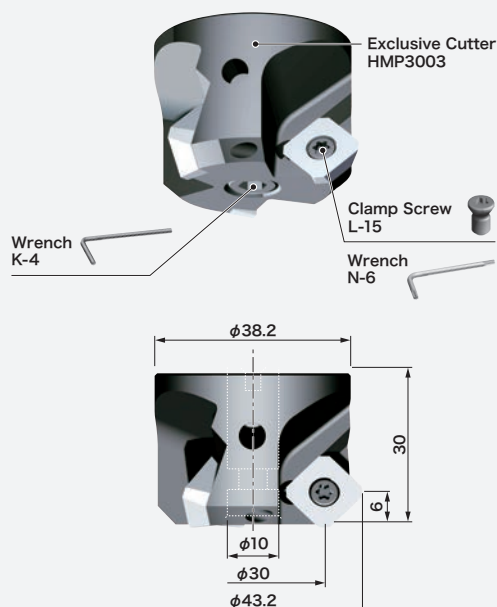
Insert details ▶ 54-56-59page

Standard Accessories

Positive TYPE

Unit(mm)

Exclusive Cutter



※Cutter body only. Please purchase the inserts and wrench (K-4 / N-6) separately. Clamp screws L-15 x 3pcs are equipped as standard.

Accessory

Mini Oil
MO-20

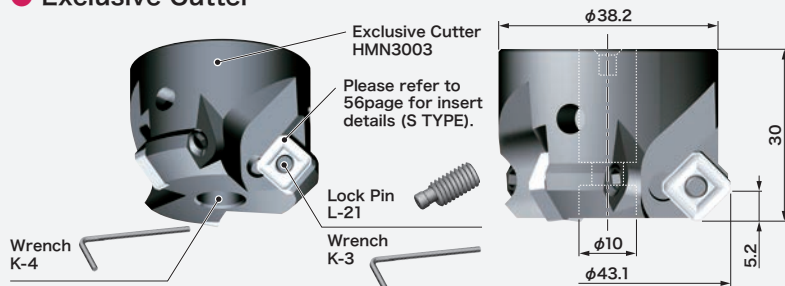


Option(s)

Negative TYPE

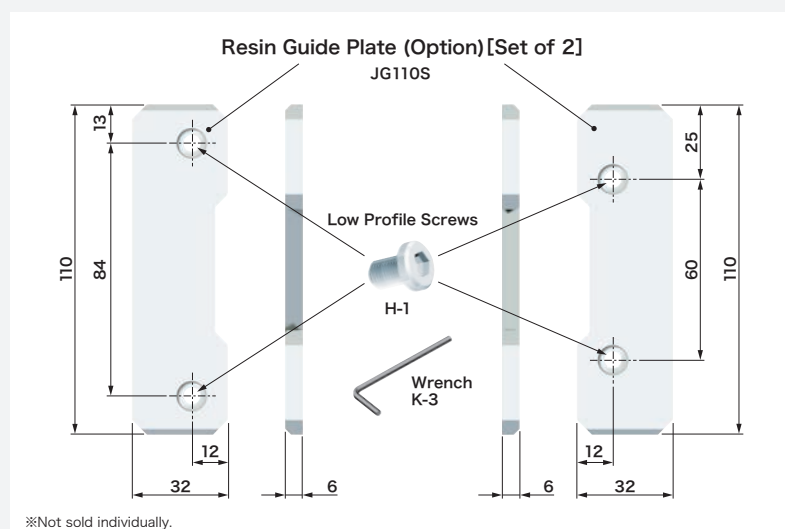
Unit(mm)

Exclusive Cutter



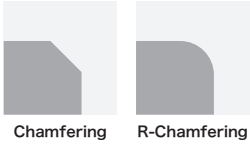
※Cutter body only. Please purchase the inserts and wrench (K-3 / K-4) separately. Lock pins L-21 x 3pcs are equipped as standard.

Resin Guide Plate



※Not sold individually.

Mini Han-Chan



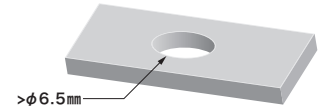
■ Specification

Optimal Air Pressure	0.49~0.68MPa(5~7kgf/cm ²)	Capacity	From slight chamfer to C1.5
No-Load Speed	19,000~23,000r.p.m.	Max. Plate Thickness	2.5mm~
Air Consumption	0.5m ³ /min	Weight	About 0.4kg

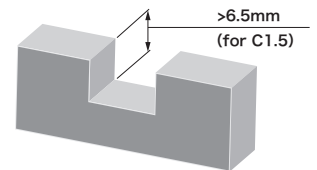
3-blade

■ Processable Chamfering Dimensions
(Examples by Machining Profile)

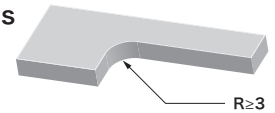
● Hole Diameter



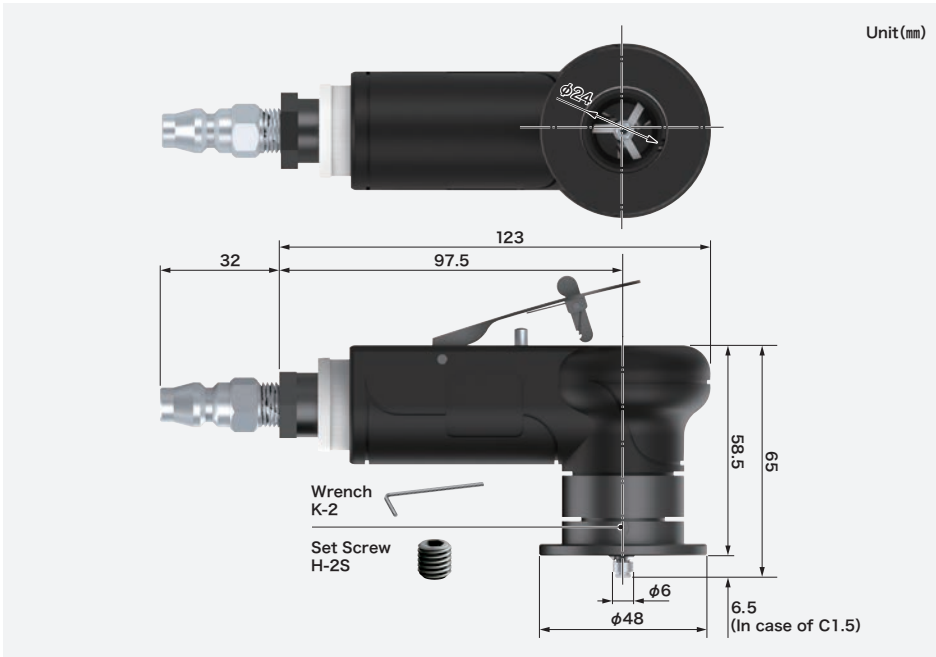
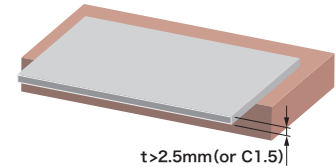
● Groove Depth



● Radius



● Thickness



■ Body

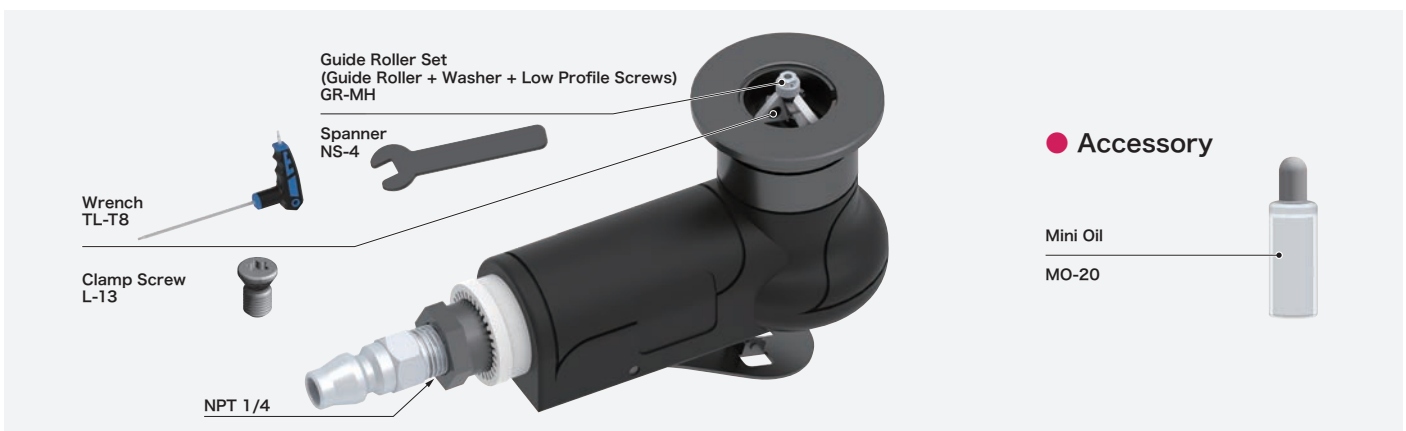
Model No.	No. of Blade(s)	Dimensions(mm)	Weight
HAM1.5-48TP0603	3	W48×D155×H85	0.4kg

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

For details on chamfering inserts,
please refer to 59page.

For details on radius inserts,
please refer to 59page.

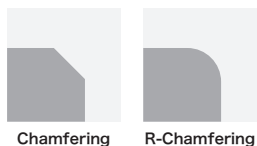
■ Standard Accessories



■ Option(s) ※Sold separately



Han-Chan-man R



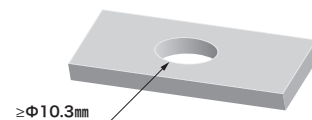
■ Specification

Optimal Air Pressure	0.49~0.68MPa (5~7kgf/cm ²)	Capacity	Up to R3 (C3)
No-Load Speed	10,000r.p.m.	Max. Plate Thickness	5.5mm~
Air Consumption	0.19m ³ /min	Weight	About 1.3kg

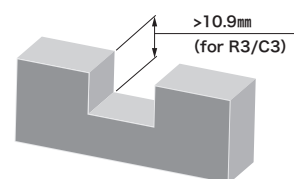
1-blade

■ Processable Chamfering Dimensions
(Examples by Machining Profile)

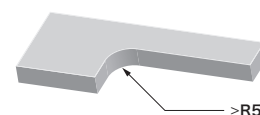
● Hole Diameter



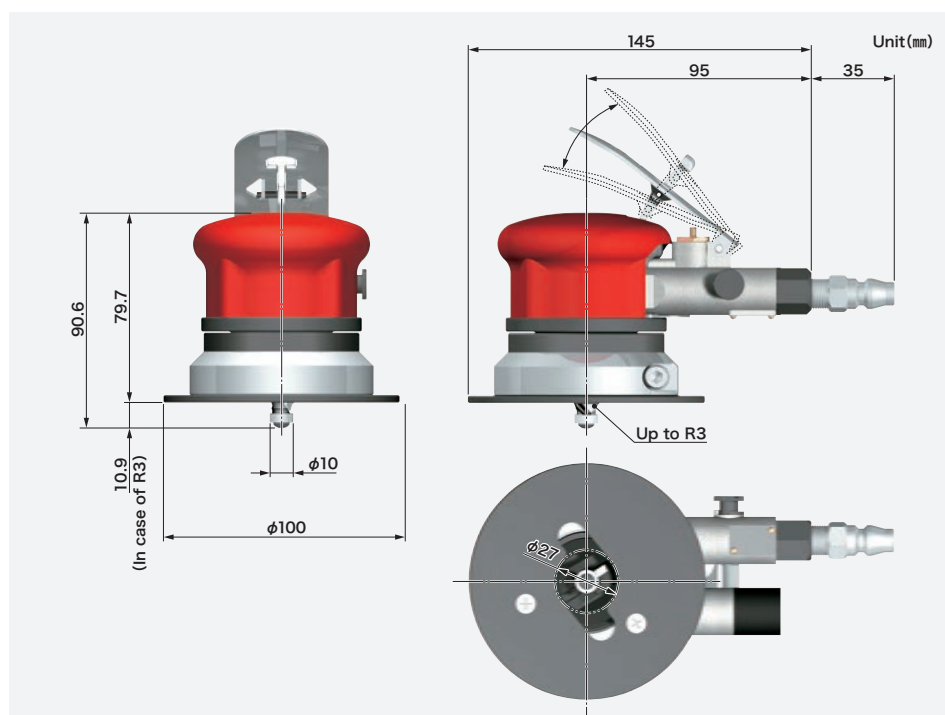
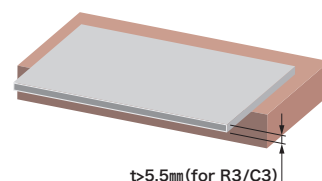
● Groove Depth



● Radius



● Thickness



■ Body

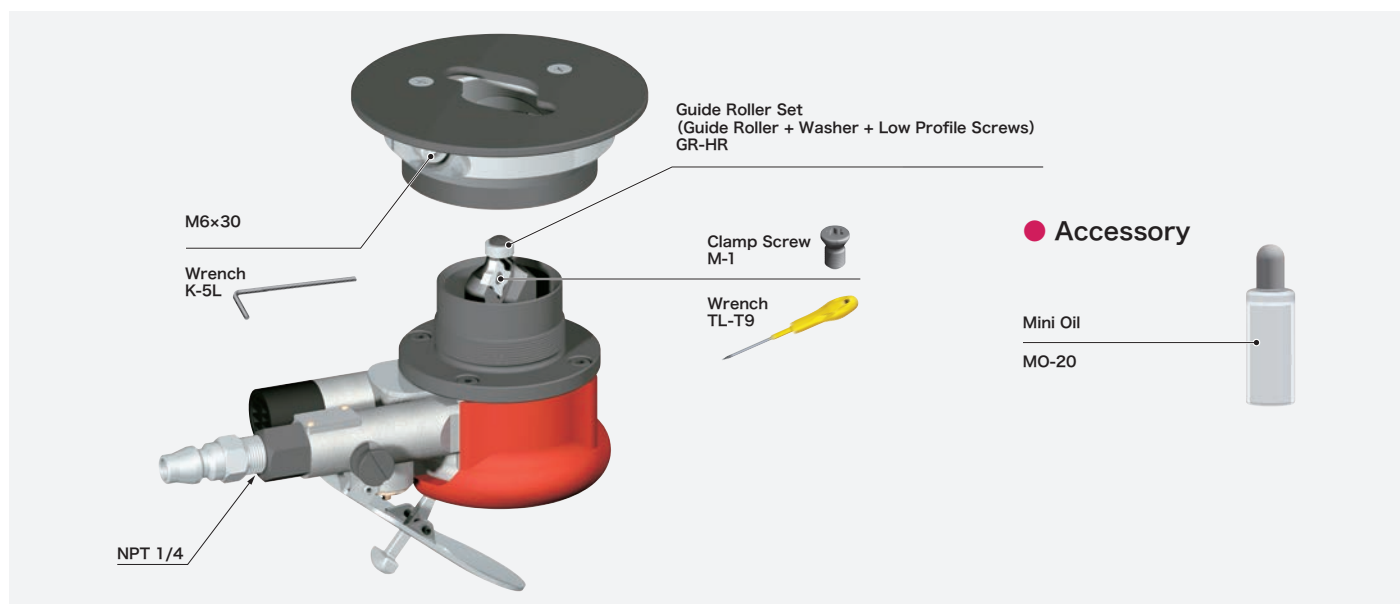
Model No.	No. of Blade(s)	Dimensions(mm)	Weight
HAM3R-100S	1	W100×D180×H90.6	1.3kg

※Insert is not included as standard accessory. Please order separately.
 ※Clamp screw and wrench are included as standard accessories.

For details on chamfering inserts,
please refer to 56page. ▶

For details on radius inserts,
please refer to 54page. ▶

■ Standard Accessories



● Accessory

Mini Oil
MO-20



Baritori-no-oni

STICK TYPE



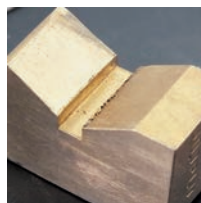
GRIP TYPE



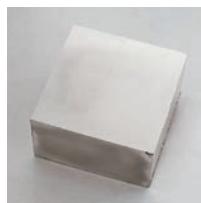
- Application: Deburring, shaving, scratch removal, milling mark removal
- Materials: Hardened steel, general steel, carbide, stainless steel, aluminum, brass, copper, ceramics, glass, stone



Deburring



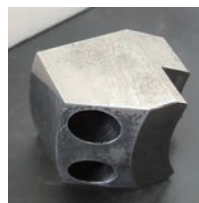
Deburring



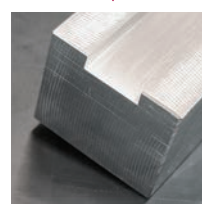
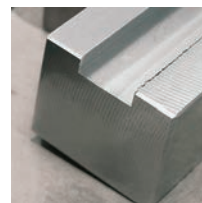
Chamfering



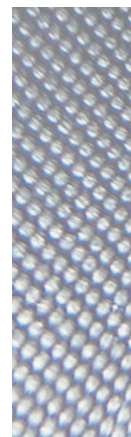
Milling mark removal



Carbide shaving



Keyway milling mark removal

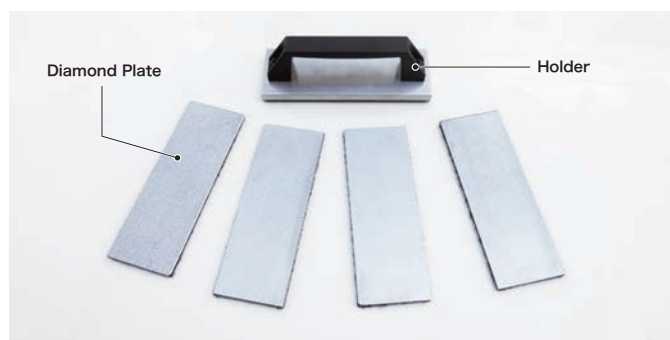


Detailed view

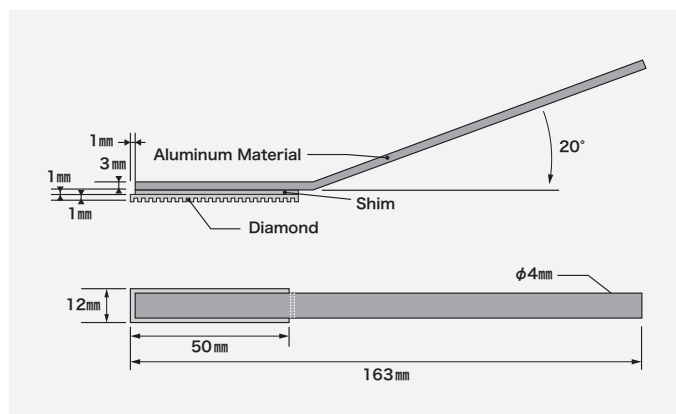
Aluminum Stick Type



Detachable Grip



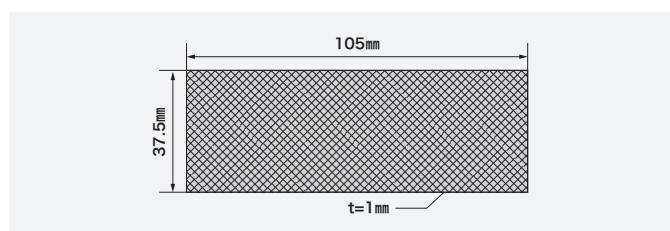
Dimension Details



Body

Model No.	Material	Pcs / Box
BOS-12D-4	Diamond	#160 #400 #600 #1200 4pcs set (1 of each)
BOS-12D-4#160	Diamond	#160 4pcs set
BOS-12D-4#400	Diamond	#400 4pcs set
BOS-12D-4#600	Diamond	#600 4pcs set
BOS-12D-4#1200	Diamond	#1200 4pcs set

Dimension Details



Body

Model No.	Material	Pcs / Box
BOS-HG-#160	Diamond	Holder +Plate#160 1set
BOS-HG-#400	Diamond	Holder +Plate#400 1set
BOS-HG-#600	Diamond	Holder +Plate#600 1set
BOS-HG-#1200	Diamond	Holder +Plate#1200 1set

Diamond Plate Only

Model No.	Material	Pcs / Box
BOS-HG-P-#160	Diamond	Plate#160 1pc
BOS-HG-P-#400	Diamond	Plate#400 1pc
BOS-HG-P-#600	Diamond	Plate#600 1pc
BOS-HG-P-#1200	Diamond	Plate#1200 1pc

Migaki-no-oni

STICK TYPE



GRIP TYPE



- Application: Rust removal, discoloration removal, dirt removal, surface finishing
- Materials: Metal, wood, ceramics, rubber, glass, tile, paper, plastic



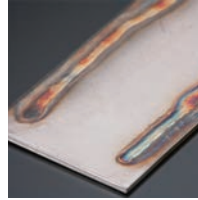
Polishing



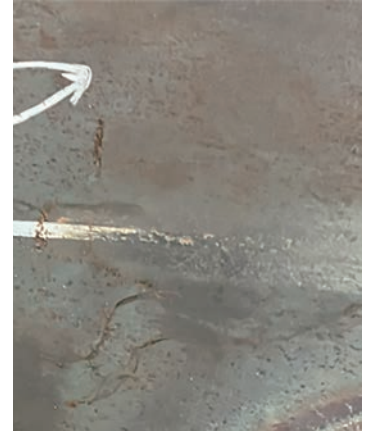
Rust removal



Oxide film removal



Discoloration removal


Oxide film removal
after wire cutting


Erasing permanent marker lines

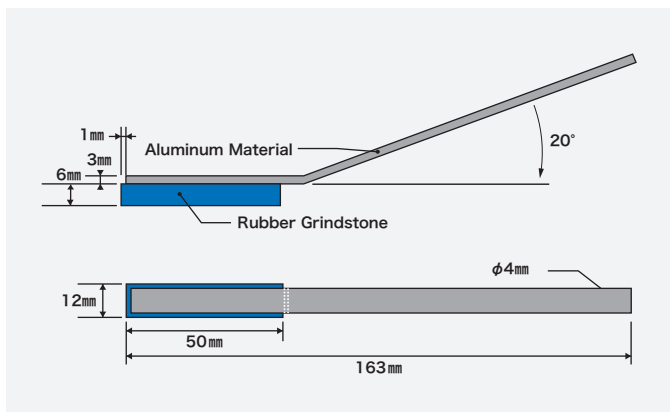
Aluminum Stick Type



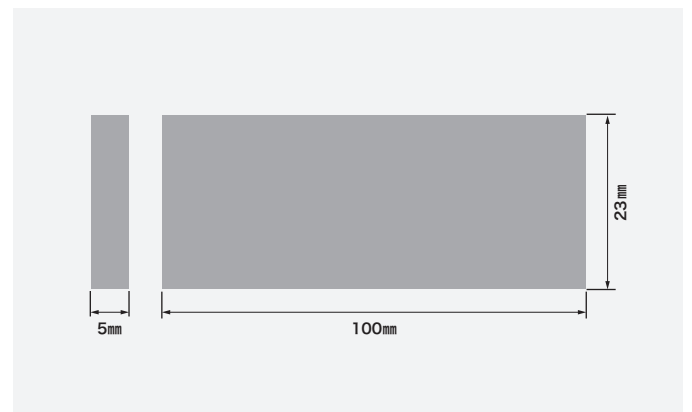
Wooden Grip Type



Dimension Details



Dimension Details



Body

Model No.	Material	Pcs / Box
MOS-12S-5	Rubber grindstone	5pcs set (1 of each)
MOS-12S-5#46	Rubber grindstone	#46 5pcs set
MOS-12S-5#80	Rubber grindstone	#80 5pcs set
MOS-12S-5#120	Rubber grindstone	#120 5pcs set
MOS-12S-5#220	Rubber grindstone	#220 5pcs set
MOS-12S-5#320	Rubber grindstone	#320 5pcs set

Body

Model No.	Material	Pcs / Box
MOS-HG-#46	Rubber grindstone	#46 1pc
MOS-HG-#80	Rubber grindstone	#80 1pc
MOS-HG-#120	Rubber grindstone	#120 1pc
MOS-HG-#220	Rubber grindstone	#220 1pc
MOS-HG-#320	Rubber grindstone	#320 1pc

Carbide Inserts

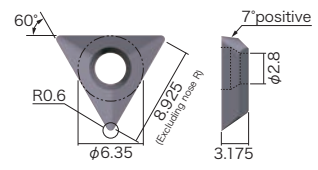
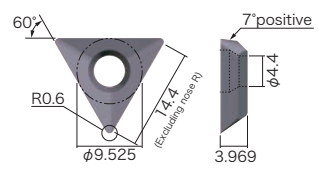
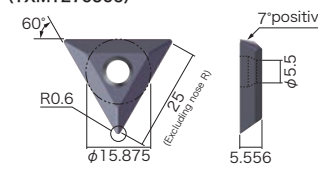
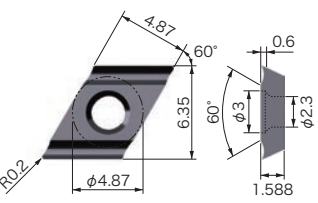
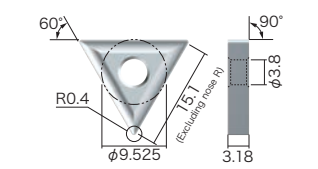
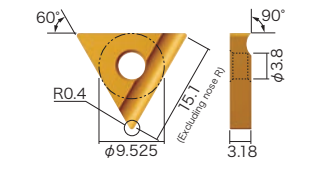
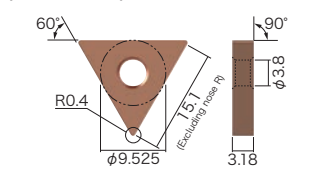
●---Optimal ○---Good △---Machinable Blank---Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC45	Hardened Steel HRC45-55	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack
For Momimen nano(P3) (ENGX040102F)(ENGX040102) 	ENGX040102F	ZC16N	Micrograin Carbide	None	Sharp edge	2						○	●	●		12
	ENGX040102	AC15N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	△		●					12
For Chibimomi(P3) (C22GUX)(C22GUXF)(C22GUXT) 	C22GUX	NK1010	Carbide K10	None	Sharp edge	2						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	2	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	2	○	○	△		○					12
		NK5050	Carbide K10	TiN	Sharp edge	2						○	●	●		12
		NK6060	Carbide M20	TiAlN	Honing edge	2	○	○			○					12
		NK8080	Carbide K10	TiAlN	Sharp edge	2						○	●	●		12
	C22GUXF	AC16N	Micrograin Carbide	AlCrN	Sharp edge	2	○	○			●	○	○	○		12
	C22GUXT	AC16N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	●				12
For Momimen(P4)/Men men(P15) (C32GUX) 	C32GUX	NK2001	Cermet	None	Honing edge	2	●	●								12
		NK1010	Carbide K10	None	Sharp edge	2						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	2	○	○			○	△				12
		NK3030	Carbide M20	TiN	Honing edge	2	○	○	△		○					12
		NK5050	Carbide K10	TiN	Sharp edge	2						○	●	●		12
		NK6060	Carbide M20	TiAlN	Honing edge	2	○	○			○					12
		NK8080	Carbide K10	TiAlN	Sharp edge	2						○	●	●		12
		AC15D	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	●				12
		AC25D	Micrograin Carbide	AlCrN	Sharp edge	2	○	○			●	○	○	○		12
		HSS	HSS	None	Sharp edge	2	○	○			△	○	○	○		12
		HSS TiN	HSS	TiN	Sharp edge	2	○	○			○	○	○	○		12
For Dekamomi(P4) (T32GUX)(T32GUXF)(T32GUXT) 	T32GUX	NK2001	Cermet	None	Honing edge	2	●	●								12
		NK1010	Carbide K10	None	Sharp edge	2						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	2	○	○			○	△				12
		NK3030	Carbide M20	TiN	Honing edge	2	○	○	△		○					12
		NK5050	Carbide K10	TiN	Sharp edge	2						○	●	●		12
		NK6060	Carbide M20	TiAlN	Honing edge	2	○	○			○					12
		NK8080	Carbide K10	TiAlN	Sharp edge	2						○	●	●		12
		HSS	HSS	None	Sharp edge	2	○	○			△	○	○	○		12
		HSS TiN	HSS	TiN	Sharp edge	2	○	○			○	○	○	○		12
	T32GUXF	AC16N	Micrograin Carbide	AlCrN	Sharp edge	2	○	○			●	○	○	○		12
	T32GUXT	AC16N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	●				12
For 60°Momimen(SC1660DS/SC1660DSL)(P5)/ 60°Momimen for turning(P37) (DCXT11X304F) 	DCXT11X304E	AC16N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	○				12
	DCXT11X304F	ZC16N	Micrograin Carbide	None	Sharp edge	2						○	●	●		12
		AC16N	Micrograin Carbide	AlCrN	Sharp edge	2	●	●			●	○				12
For Chibieco(P8)/Chibieco 2(P14)/ Urazaguru(P30) (TXMT080206) 	TXMT080206	ZA10N	Carbide K10	None	Sharp edge	3						○	●	●		12
		AC15N	Micrograin Carbide	AlCrN	Honing edge	3	●	●	○		●	●				12

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

●...Optimal ○...Good △...Machinable Blank...Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC45	Hardened Steel HRC45-65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack
For Momieco(P8)/Momieco 2(P14)/Urazaguru(P30) (TXMT110306) 	TXMT110306	ZA10N	Carbide K10	None	Sharp edge	3						○	●	●		12
		AC15N	Micrograin Carbide	AlCrN	Honing edge	3	●	●	○		●	●				12
For Ecomen(P9)/Ecomen2(P14) (TXMT16T306) 	TXMT16T306	ZA10N	Carbide K10	None	Sharp edge	3						○	●	●		12
		AC15N	Micrograin Carbide	AlCrN	Honing edge	3	●	●	○		●	●				12
For Dodekaeco(P9) (TXMT270506) 	TXMT270506	ZA10N	Carbide K10	None	Sharp edge	3						○	●	●		3
		AC16N	Micrograin Carbide	AlCrN	Honing edge	3	●	●	○		●	●				3
For A-Mentru(P10) (XFXT060102F) (XFXT060102E) 	XFXT060102F	ZC16N	Micrograin Carbide	None	Sharp edge	2						○	●	●		3
	XFXT060102E	AC16N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	○				3
For Chamfering Cutter(P13) (T32MOR) 	T32MOR	NK2001	Cermet	None	Honing edge	6	●	●								12
		NK1010	Carbide K10	None	Sharp edge	6						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	6	○	○			○	△				12
		NK3030	Carbide M20	TiN	Honing edge	6	○	○	△		○					12
		AC16N	Micrograin Carbide	AlCrN	Honing edge	6	●	●	○		●	●				12
For Chamfering Cutter(P13) (TT32GUR) (TT32GURF) 	TT32GUR	NK2001	Cermet	None	Honing edge	2	●	●								12
		NK1010	Carbide K10	None	Sharp edge	2						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	2	○	○			○	△				12
		NK3030	Carbide M20	TiN	Honing edge	2	○	○	△		○					12
		NK5050	Carbide K10	TiN	Sharp edge	2						○	●	●		12
		NK8080	Carbide K10	TiAlN	Sharp edge	2						○	●	●		12
		AC15N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	●				12
		HSS	HSS	None	Sharp edge	2	○	○			△	○	○	○		12
		HSS TiN	HSS	TiN	Sharp edge	2	○	○			○	○	○	○		12
	TT32GURF	TC16N	Micrograin Carbide	TiSiN	Sharp edge	2									●	12
For Chamfering Cutter(P13) (TNEA160304) 	TNEA160304	TC16N	Micrograin Carbide	TiSiN	Honing edge	6			○	●						12

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

●---Optimal ○---Good △---Machinable Blank---Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC=45	Hardened Steel HRC=45-55	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack
For Mentrube(P11) (TM32GUR) 	TM32GUR	HSS	HSS	None	Sharp edge	2	○	○			△	○	○	○		3
		HSS TiAlN	HSS	TiAlN	Sharp edge	2	○	○			○	○	○	○		3
For Mentrube(P11) (TM32GSR) 	TM32GSR	HSS	HSS	None	Sharp edge	6	○	○			△	○	○	○		3
		HSS TiAlN	HSS	TiAlN	Sharp edge	6	○	○			○	○	○	○		3
		AC16N	Micrograin Carbide	AlCrN	Honing edge	6	●	●	○		●	●				3
For Mentrucce(P10) (TNEG160304ER) 	TNEG160304ER	HSS	HSS	None	Honing edge	2	○	○			○	○	○	○		3
For Mentrucce(P10) (TNXT160304FR) (TNXT160304ER) 	TNXT160304ER	HSS	HSS	None	Sharp edge	3	○	○			△	○	○	○		3
		HSS	HSS	None	Honing edge	3	○	○			○	○	○	○		3
		HSS AlCrN	HSS	AlCrN	Honing edge	3	●	●			○	○	○	○		3
For Mentrudee(P12) (TCXT080102F) (TCXT080102E) 	TCXT080102E	ZC16N	Micrograin Carbide	None	Sharp edge	3	○	○			△	○	●	●		3
		AC16N	Micrograin Carbide	AlCrN	Honing edge	3	●	●			●	○	△	△		3
For Youngmen(P16)/ Mr.youngmen(P23) (TNEX270412) 	TNEX270412	ZA10T	Carbide K10	None	Sharp edge	2						○	●	●		3
For Youngmen(P16)/ Mr.youngmen(P23) (TNEQ270412) 	TNEQ270412	ZA10N	Carbide K10	None	Honing edge	6						●				3

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

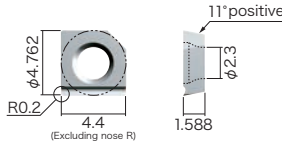
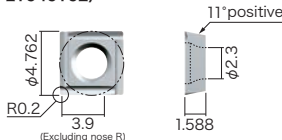
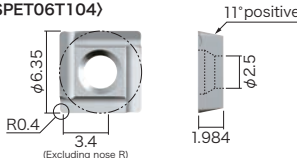
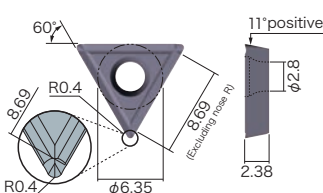
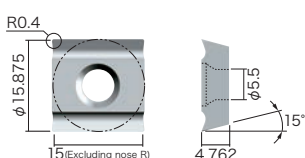
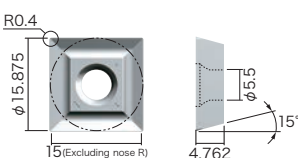
●---Optimal ○---Good △---Machinable Blank---Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC45	Hardened Steel HRC45-65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack
For Youngmen(P16)/ Mr.youngmen(P23) (TNMX270412) 	TNMX270412	AC15N	Micrograin Carbide	AlCrN	Honing edge	6	●	●	○		●	●				3
For Gentlemen(P16)/ Mr.gentlemen(P24) (X63GUR) 	X63GUR	NK1010	Carbide K10	None	Sharp edge	2						○	●	●		3
		NK2020	Carbide M20	None	Honing edge	2	○	○			○	△				3
		AC15N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	●				3
For Chibi Ryanmen(P15) (SPEW030102) 	SPEW030102	ZA10N	Carbide K10	None	Sharp edge	4						○	●	●		12
For Chibi Ryanmen(P15) (SPMT030102) 	SPMT030102	ZA20N	Carbide M20	None	Sharp edge	4	○	○			○	△				12
		AC16N	Micrograin Carbide	AlCrN	Sharp edge	4	●	●	○		●	●				12
For Choumen Kai(P18)/Ryanmencut-V(P25) (T22MOR) 	T22MOR	NK5050	Carbide K10	TiN	Sharp edge	3	●	●	○		●	●				12
		AC16N	Micrograin Carbide	AlCrN	Honing edge	3	●	●	○		●	●				12
For Tutankhamen(P17)/Ryanmencut-V(P25) (SPMT090304) 	SPMT090304	AC16N	Micrograin Carbide	AlCrN	Honing edge	4	●	●	○		●	●				12
For Dekkamen(P17) (XCXT160404) 	XCXT160404	AC16N	Micrograin Carbide	AlCrN	Honing edge	2	●	●	○		●	●				3
For Nezumiru(P18) (DCET040102F)(DCET040102E) 	DCET040102F	ZC16N	Micrograin Carbide	None	Sharp edge	2						○	●	●		12
	DCET040102E	AC16N	Micrograin Carbide	AlCrN	Honing edge	2	●	●			●	○				12

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

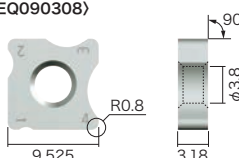
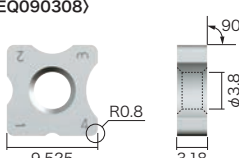
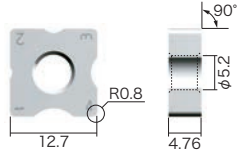
●...Optimal ○...Good △...Machinable Blank...Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC=45	Hardened Steel HRC45~65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack																										
For Uratorimen SOLID(P20) (UMHS-M) 	UMHS-M3B	B	Micrograin Carbide	None	None	1						△	○	○		1																										
	UMHS-M4B										△	○	○		1																											
	UMHS-M5B										△	○	○		1																											
	UMHS-M6B					△	○	○		1																																
<table><tr><th>Model No.</th><th>φD</th><th>L</th></tr><tr><td>UMHS-M3B</td><td>2mm</td><td>19.5mm</td></tr><tr><td>UMHS-M4B</td><td>2.6mm</td><td>25.7mm</td></tr><tr><td>UMHS-M5B</td><td>3.2mm</td><td>31.9mm</td></tr><tr><td>UMHS-M6B</td><td>4mm</td><td>38.3mm</td></tr><tr><td>UMHS-M3BC</td><td>2mm</td><td>19.5mm</td></tr><tr><td>UMHS-M4BC</td><td>2.6mm</td><td>25.7mm</td></tr><tr><td>UMHS-M5BC</td><td>3.2mm</td><td>31.9mm</td></tr><tr><td>UMHS-M6BC</td><td>4mm</td><td>38.3mm</td></tr></table>	Model No.	φD	L	UMHS-M3B	2mm	19.5mm	UMHS-M4B	2.6mm	25.7mm	UMHS-M5B	3.2mm	31.9mm	UMHS-M6B	4mm	38.3mm	UMHS-M3BC	2mm	19.5mm	UMHS-M4BC	2.6mm	25.7mm	UMHS-M5BC	3.2mm	31.9mm	UMHS-M6BC	4mm	38.3mm	UMHS-M3BC	BC	Micrograin Carbide	TiAlN	None	1	○	○			○	○			1
Model No.	φD	L																																								
UMHS-M3B	2mm	19.5mm																																								
UMHS-M4B	2.6mm	25.7mm																																								
UMHS-M5B	3.2mm	31.9mm																																								
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UMHS-M6BC	4mm	38.3mm																																								
UMHS-M4BC	○	○			○	○			1																																	
UMHS-M5BC	○	○			○	○			1																																	
UMHS-M6BC	○	○			○	○			1																																	
For Uratorimen-C(M8)(P19) (SP-SPET040102) 	SP-SPET040102	NK1010	Carbide K10	None	Sharp edge	1					○	○	○			12																										
		NK2020	Carbide M20	None	Honing edge	1	○	○			○	△				12																										
		AC16N	Micrograin Carbide	AlCrN	Honing edge	1	○	○	○		○	○				12																										
For Uratorimen-C(M10)(P19) (SPET040102) 	SPET040102	NK1010	Carbide K10	None	Sharp edge	4					○	○	○			12																										
		NK2020	Carbide M20	None	Honing edge	4	○	○			○	△				12																										
		AC16N	Micrograin Carbide	AlCrN	Honing edge	4	○	○	○		○	○				12																										
For Uratorimen-C(M12~18/UM12-16S)(P19) /Urazagurimen-C(P20) (SPET06T104) 	SPET06T104	NK1010	Carbide K10	None	Sharp edge	4					○	○	○			12																										
		NK2020	Carbide M20	None	Honing edge	4	○	○			○	△				12																										
		AC16N	Micrograin Carbide	AlCrN	Honing edge	4	○	○	○		○	○				12																										
For Multi-Angle Mini(P21) (TPET110204)  ※Chipbreaker is continuous along 3 sides.	TPET110204	ZA10N	Carbide K10	None	Sharp edge	3					○	○	○			3																										
		AC15N	Micrograin Carbide	AlCrN	Honing edge	3	○	○			○	○				3																										
For Multi-Angle mill(P22) (SDET150404) 	SDET150404	ZA10N	Carbide K10	None	Sharp edge	2					○	○	○			3																										
For Multi-Angle mill(P22) (SDMT150404) 	SDMT150404	ZA20N	Carbide M20	None	Honing edge	4	○	○			○	△				3																										
		AC15N	Micrograin Carbide	AlCrN	Honing edge	4	○	○	○		○	○				3																										

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

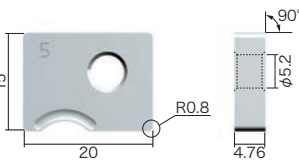
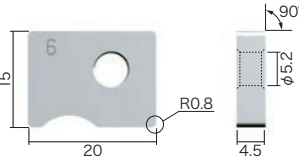
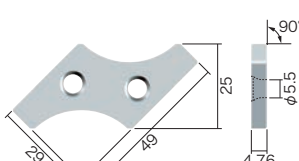
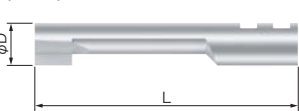
◎...Optimal ○...Good △...Machinable Blank...Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC45	Hardened Steel HRC45-65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack
For Ryanmencut-R[S TYPE] (8-corner) (P29)/ R-Nature(P38)/Nice-Corner FR (4-corner) (P41-42)/ Nice-Corner FN(P43)/ Han-Chan-manR(P44) (SNEQ090308)  ※4RY cannot be used with Nice-Corner FR (4-corner) or Han-Chan-man R. ※CA20N is the recommended insert for Nice-Corner FR and Han-Chan-man R. It cannot be used with Ryanmencut-R [S TYPE] (8-corner).	SNEQ090308-1RY	ZA20N	Carbide M20	None	Same R on all corners	4/8	○	○			○	△	△			12
	SNEQ090308-2RY						○	○			○	△	△			12
	SNEQ090308-3RY						○	○			○	△	△			12
	SNEQ090308-4RY						○	○			○	△	△			12
	SNEQ090308-XRY	ZA20N	Carbide M20	None	R1·2·3·4	4/8	○	○			○	△	△			12
	SNEQ090308-1RY	CA20N	Carbide M20	DLC	Same R on all corners	4/8								◎		12
	SNEQ090308-2RY													◎		12
	SNEQ090308-3RY													◎		12
For Mini-R(P26)/Ryanmencut-R[S TYPE] (P29)/ R-Nature(P38)/Nice-Corner FR (P41-42) (SNEQ090308)  ※CA20N is the recommended insert for Nice-Corner FR. It cannot be used with Ryanmencut-R [S TYPE].	SNEQ090308-1RM	ZA20N	Carbide M20	None	Same R on all corners	8	○	○			○	△	△			12
	SNEQ090308-2RM						○	○			○	△	△			12
	SNEQ090308-3RM						○	○			○	△	△			12
	SNEQ090308-4RM						○	○			○	△	△			12
	SNEQ090308-5RM						○	○			○	△	△			12
	SNEQ090308-XRM	ZA20N	Carbide M20	None	R1·2·3·4	8	○	○			○	△	△			12
	SNEQ090308-1RM	CA20N	Carbide M20	DLC	Same R on all corners	8								◎		12
	SNEQ090308-2RM													◎		12
	SNEQ090308-3RM													◎		12
For R-Special Jr.(P27)/ R-Special(P27)/ Ryanmencut-R (RR25-48N) (P29)/ (N43GXR8) 	N43GXR8	NK2001	Cermet	None	R1·2·3·4	8	◎	◎								3/12
	N43GXR8-1R	NK2001	Cermet	None	Same R on all corners	8	◎	◎								3/12
	N43GXR8-2R						◎	◎								3/12
	N43GXR8-3R						◎	◎								3/12
	N43GXR8-4R						◎	◎								3/12
	N43GXR8-5R						◎	◎								3/12
	N43GXR8	NK1010	Carbide K10	None	R1·2·3·4	8						△	◎	◎		3/12
	N43GXR8	NK2020	Carbide M20	None	R1·2·3·4	8	○	○			○	△				3/12
	N43GXR8-1R	NK2020	Carbide M20	None	Same R on all corners	8	○	○			○	△				3/12
	N43GXR8-2R						○	○			○	△				3/12
	N43GXR8-3R						○	○			○	△				3/12
	N43GXR8-4R						○	○			○	△				3/12
	N43GXR8-0.5R						○	○			○	△				3/12
	N43GXR8-0.75R	NK2020	Carbide M20	None	Same R on all corners	8	○	○			○	△				3/12
	N43GXR8-1.5R						○	○			○	△				3/12
	N43GXR8-2.5R						○	○			○	△				3/12
	N43GXR8-3.5R						○	○			○	△				3/12
	N43GXR8-4.5R						○	○			○	△				3/12
	N43GXR8-5R	AC16N	Micrograin Carbide	AlCrN	R1·2·3·4	8	○	○			○	△				3/12
	N43GXR8-1R						◎	◎			◎	○				3/12
	N43GXR8-2R						◎	◎			◎	○				3/12
	N43GXR8-3R						◎	◎			◎	○				3/12
	N43GXR8-4R						◎	◎			◎	○				3/12
	N43GXR8-0.5R						◎	◎			◎	○				3/12
	N43GXR8-0.75R	AC16N	Micrograin Carbide	AlCrN	Same R on all corners	8	◎	◎			◎	○				3/12
	N43GXR8-1.5R						◎	◎			◎	○				3/12
	N43GXR8-2.5R						◎	◎			◎	○				3/12
	N43GXR8-3.5R						◎	◎			◎	○				3/12
	N43GXR8-4.5R						◎	◎			◎	○				3/12
	N43GXR8-5R	CA20N	Carbide M20	DLC	Same R on all corners	8	◎	◎			◎	○				3/12
	N43GXR8-3R													◎		3/12
	N43GXR8-4R													◎		3/12
	N43GXR8-5R													◎		3/12

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

●...Optimal ○...Good △...Machinable Blank...Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC=45	Hardened Steel HRC45-65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack		
For R-Nouveau Jr.(P28)/ R-Nouveau(P28)/10R-Bit(P37) (N54GCR)  (N54GCR Semi-standard inserts)  ※Semi-standard inserts do not feature a chipbreaker.	N54GCR-5R	NK2020	Carbide M20	None	-	1	○	○			○	△				3		
	N54GCR-8R						○	○			○	△				3		
	N54GCR-10R						○	○			○	△				3		
	N54GCR-5R	AC16T	Micrograin Carbide	AlCrN	-	1	●	●			●					3		
	N54GCR-8R						●	●			●					3		
	N54GCR-10R						●	●			●					3		
	For R-Giga(P26) (XNEW3004)  Made-to-Order Products	N54GCR-6R	NK2020	Carbide M20	None	-	1	○	○			○	△				3	
		N54GCR-7R						○	○			○	△				3	
		N54GCR-9R						○	○			○	△				3	
		N54GCR-6R	AC16T	Micrograin Carbide	AlCrN	-	1	●	●			●					3	
N54GCR-7R		●						●			●					3		
N54GCR-9R		●						●			●					3		
For Urazaguru-solid(P30) (UZHS) 	XNEW3004-11R	NK2020	Carbide M20	None	Honing edge	2	○	○			○	△				3		
	XNEW3004-12R						○	○			○	△				3		
	XNEW3004-13R						○	○			○	△				3		
	XNEW3004-14R						○	○			○	△				3		
	XNEW3004-15R						○	○			○	△				3		
	XNEW3004-16R						○	○			○	△				3		
	XNEW3004-17R						○	○			○	△				3		
	XNEW3004-18R						○	○			○	△				3		
	XNEW3004-19R						○	○			○	△				3		
	XNEW3004-20R						○	○			○	△				3		
For Urazaguru-solid(P30) (UZHS)	UZHS-M6	B	Micrograin Carbide	None	-	1						△	●	●		1		
	UZHS-M8											△	●	●		1		
	UZHS-M10											△	●	●		1		
	UZHS-M12											△	●	●		1		
	UZHS-M6	BC	Micrograin Carbide	AlCrN	-	1	●	●			●	○				1		
	UZHS-M8						●	●			●	○				1		
	UZHS-M10						●	●			●	○				1		
	UZHS-M12						●	●			●	○				1		
	UZHS-M6B																	
	UZHS-M8B																	
	UZHS-M10B																	
	UZHS-M12B																	

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

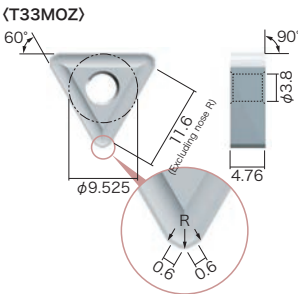
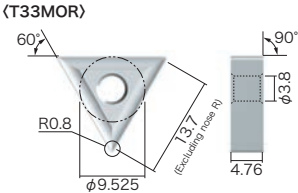
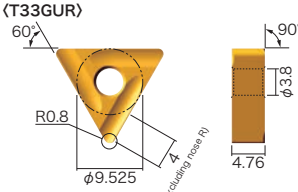
●...Optimal ○...Good △...Machinable Blank...Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC45	Hardened Steel HRC45-65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack
For Mini-R(P26)/Ryanmencut-R[STYPE](P29)/ New Nice Cut^(NS TYPE)(P31)/Aeromill^(NS TYPE)(P32)/ NEW Tiko Cutter(P33)/R-Nature(P38)/ Nice-Corner F3(P39-40)/ Nice-Corner FR(P41-42)/Nice-Corner FN(P43)/ Han-Chan-man^(Negative TYPE)(P44)/ Han-Chan-man R(P46) S TYPE (S32MOZ) (S32GUR) (S32GUR DIA) (S32GURV)	S32MOZ	NK2001	Cermet	None	Honing edge	8	●	●								12
		NK2050	Cermet	None	Honing edge	8	●	●								12
		AB01F	Cermet	AlCrN	Honing edge	8	●	●								12
		NK1010	Carbide K10	None	Sharp edge	8						○				12
		NK2020	Carbide M20	None	Honing edge	8	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	8	○	○	△		○					12
		AC15T	Micrograin Carbide	AlCrN	Honing edge	8	●	●	○		●	●				12
	S32GUR	NK2001	Cermet	None	Honing edge	8	●	●								12
		NK1010	Carbide K10	None	Sharp edge	8						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	8	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	8	○	○	△		○					12
		NK5050	Carbide K10	TiN	Sharp edge	8						○	●	●		12
		NK6060	Carbide M20	TiA#N	Honing edge	8	○	○			○					12
		NK8080	Carbide K10	TiA#N	Sharp edge	8						○	●	●		12
	S32GUR	DIA	Sintering diamond	None	Sharp edge	1									●	1
	S32GURV	ZC16N	Micrograin Carbide	None	Sharp edge	4							●	●		12
For Ryanmencut-R(P29) N TYPE (N43MOZ) (N43GUR)	N43MOZ	NK2001	Cermet	None	Honing edge	8	●	●								12
		NK1010	Carbide K10	None	Sharp edge	8						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	8	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	8	○	○	△		○					12
		NK6060	Carbide M20	TiA#N	Honing edge	8	○	○			○					12
		NK8080	Carbide K10	TiA#N	Sharp edge	8						○	●	●		12
	N43GUR	NK2001	Cermet	None	Honing edge	8	●	●								12
		NK1010	Carbide K10	None	Sharp edge	8						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	8	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	8	○	○	△		○					12
		NK6060	Carbide M20	TiA#N	Honing edge	8	○	○			○					12
		NK8080	Carbide K10	TiA#N	Sharp edge	8						○	●	●		12
For Aeromill^(PS TYPE)(P32)/NEW Tiko Cutter(P33)/ New Nice Cut^(PS TYPE)(P31)/ Nice-Corner F3(P39-40)/ Han-Chan-man^(Negative TYPE)(P44) (S3H3MNZ)(S3H3GNZ)(S3H3GNXE)	S3H3MNZ	NK2001	Cermet	None	Honing edge	4	●	●								12
		NK2020	Carbide M20	None	Honing edge	4	○	○			○					12
		AC15D	Micrograin Carbide	AlCrN	Honing edge	4	●	●	○		●	●				12
	S3H3GNZ	NK1010	Carbide K10	None	Sharp edge	4						○	●	●		12
		NK9090 (Mirror polished finish)	Carbide K10	None	Sharp edge	4							○	○		12
	S3H3GNXE	AC16N	Micrograin Carbide	AlCrN	Honing edge	4	●	●	○		●	●				12

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

●---Optimal ○---Good △---Machinable Blank---Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC=45	Hardened Steel HRC=45-55	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack
For New Nice Cut(P31)/Skat Cut(P34)																
T TYPE																
	T33MOZ	NK2001	Cermet	None	Honing edge	6	●	●								12
		NK1010	Carbide K10	None	Sharp edge	6						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	6	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	6	○	○	△		○					12
		NK6060	Carbide M20	TiAlN	Honing edge	6	○	○			○					12
	T33MOR	NK2001	Cermet	None	Honing edge	6	●	●								12
		NK1010	Carbide K10	None	Sharp edge	6						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	6	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	6	○	○	△		○					12
		NK6060	Carbide M20	TiAlN	Honing edge	6	○	○			○					12
	T33GUR	NK2001	Cermet	None	Honing edge	6	●	●								12
		NK1010	Carbide K10	None	Sharp edge	6						○	●	●		12
		NK2020	Carbide M20	None	Honing edge	6	○	○			○					12
		NK3030	Carbide M20	TiN	Honing edge	6	○	○	△		○					12
		NK5050	Carbide K10	TiN	Sharp edge	6						○	●	●		12
		NK6060	Carbide M20	TiAlN	Honing edge	6	○	○			○					12
		NK8080	Carbide K10	TiAlN	Sharp edge	6						○	●	●		12

※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

●---Optimal ○---Good △---Machinable Blank---Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC45	Hardened Steel HRC45-65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack																						
Sumicco(P33)/Sumicco R-Bit(P38) 85° 15°positive 3.18 φ4.4 9.525 15.875 Blade Length 1 ※Available in 0.5mm R increments. Cutting edge length of Sumikko insert (excl. nose R) <table><thead><tr><th>Insert Type</th><th>Blade Length 1</th></tr></thead><tbody><tr><td>0.5R</td><td>15mm</td></tr><tr><td>1R</td><td>14.4mm</td></tr><tr><td>1.5R</td><td>13.9mm</td></tr><tr><td>2R</td><td>13.3mm</td></tr><tr><td>2.5R</td><td>12.8mm</td></tr><tr><td>3R</td><td>12.2mm</td></tr><tr><td>3.5R</td><td>11.7mm</td></tr><tr><td>4R</td><td>11.1mm</td></tr><tr><td>4.5R</td><td>10.5mm</td></tr><tr><td>5R</td><td>10mm</td></tr></tbody></table>	Insert Type	Blade Length 1	0.5R	15mm	1R	14.4mm	1.5R	13.9mm	2R	13.3mm	2.5R	12.8mm	3R	12.2mm	3.5R	11.7mm	4R	11.1mm	4.5R	10.5mm	5R	10mm	A52GNR-0.5R	NK1010	Carbide K10	None	Sharp edge	2						○	●	●		12
	Insert Type	Blade Length 1																																				
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	4R	11.1mm																																				
	4.5R	10.5mm																																				
	5R	10mm																																				
	A52GNR-1R					○	●	●		12																												
	A52GNR-1.5R					○	●	●		12																												
A52GNR-2R					○	●	●		12																													
A52GNR-2.5R					○	●	●		12																													
A52GNR-3R					○	●	●		12																													
A52GNR-3.5R					○	●	●		12																													
A52GNR-4R					○	●	●		12																													
A52GNR-4.5R					○	●	●		12																													
A52GNR-5R					○	●	●		12																													
A52GNR-0.5R					○	○			○					12																								
A52GNR-1R					○	○			○					12																								
A52GNR-1.5R					○	○			○					12																								
A52GNR-2R					○	○			○					12																								
A52GNR-2.5R		NK2020	Carbide M20	None	Honing edge	2	○	○			○					12																						
A52GNR-3R	○						○			○					12																							
A52GNR-3.5R	○						○			○					12																							
A52GNR-4R	○						○			○					12																							
A52GNR-4.5R	○						○			○					12																							
A52GNR-5R	○						○			○					12																							
A52GNR-0.5R	●						●	○		●	●			12																								
A52GNR-1R	●						●	○		●	●			12																								
A52GNR-1.5R	●						●	○		●	●			12																								
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A52GNR-2.5R	●	●	○		●	●			12																													
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A52GNR-3.5R	●	●	○		●	●			12																													
A52GNR-4R	●	●	○		●	●			12																													
A52GNR-4.5R	●	●	○		●	●			12																													
A52GNR-5R	●	●	○		●	●			12																													
Dekasumi(P34)/Dekasumi R-Bit(P38) (ADEW19T3) 85° 15°positive 3.969 φ5.5 14.288 19.050 Blade Length 1 ※Available in 1.0mm R increments. Cutting edge length of Dekasumi insert (excl. nose R) <table><thead><tr><th>Insert Type</th><th>Blade Length 1</th></tr></thead><tbody><tr><td>5R</td><td>13.2mm</td></tr><tr><td>6R</td><td>12mm</td></tr><tr><td>7R</td><td>11mm</td></tr><tr><td>8R</td><td>9.8mm</td></tr><tr><td>9R</td><td>8.7mm</td></tr><tr><td>10R</td><td>7.7mm</td></tr></tbody></table>	Insert Type	Blade Length 1	5R	13.2mm	6R	12mm	7R	11mm	8R	9.8mm	9R	8.7mm	10R	7.7mm	ADEW19T3-5R	NK1010	Carbide K10	None	Sharp edge	2						○	●	●		4								
	Insert Type	Blade Length 1																																				
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	ADEW19T3-9R						○	●	●		4																											
	ADEW19T3-10R						○	●	●		4																											
	ADEW19T3-5R		NK2020	Carbide M20	None	Honing edge	2	○	○			○					4																					
ADEW19T3-6R	○	○								○					4																							
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ADEW19T3-8R	○	○								○					4																							
ADEW19T3-9R	○	○								○					4																							
ADEW19T3-10R	○	○								○					4																							
ADEW19T3-5R	●	●						○		●	●			4																								
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※Depending on the type of resin material, machining may be difficult.

Carbide Inserts

●Optimal ○Good △Machinable Blank…Unsuitable

Fig.	Model No.	Material Model No.	Material	Coating	Cutting Edge Shape	Usable Corner(s)	Carbon Steel	Alloy Steel	Hardened Steel HRC=45	Hardened Steel HRC45~65	Stainless Steel	Cast Iron	Resin	Aluminum	Titanium Titanium Alloy Nickel Alloy	Qty per pack

※Depending on the type of resin material, machining may be difficult.

MEMO

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