

JABIL CUTTING TOOLS SHOP

Providing Design Expertise
and High Quality CNC.

Cutters for
Delicate Parts.



Founded: September 2010

Moist Max. Productivity:
250,000 pcs

Mass Production in Taiwan, NPI team
in Wuxi and Chendu.

CNC Cutter for Die steel, Stainless steel,
Aluminum, Titanium, and Plastic...etc.

Applied in Semiconductor, Molding,
CNC industry...etc.

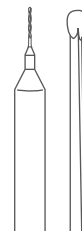
Market in China, US, Europe, Asia...etc.



MINIATURE CUTTER



0.1
Diameter



Comparison
with a match stick

MANUFACTUR

54 high precision cutter grinding machines made from Germany.



INSPECTION

High precision measuring and inspecting automatic machines.



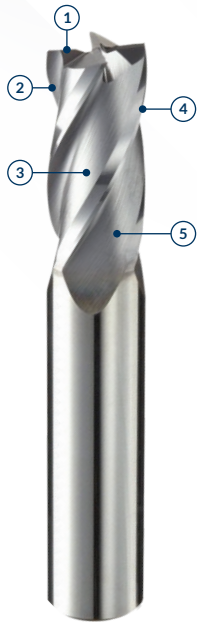
DIVERSITY IN DIAMETER

- Min. milling dia. is 0.01mm
- Max shank dia. is 32mm



COATING

Coating capability boost up 30% cutter lifetime and performance.



1 **Sharp Concavity Angle**

Boosted the performance of helix interpolation milling

2 **Variable Helix Angle**

Suppress vibration and chatter

3 **Polished Flute**

Excellent chip removal

4 **Polished Edge**

Excellent surface quality
Excellent chip removal
Lower cutting resistance

5 **Unique Flute Geometry**

Excellent chip removal
Excellent stability



Die Steel

P 04 - 09

End Mill



Stainless Steel

P 00 - 00

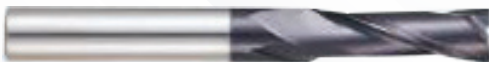
End Mill



Aluminum

P 00 - 00

End Mill



Composite

P 00 - 00

End Mill



Others

P 00 - 00

Form Cutter



TYPE	ITEM	FLUTES	HELIX	MILL DIAMETER	
				MIN	MAX
Square Miniature	2	2	35	0.2	0.9
Square	2	2	35	1	20
Square	4	4	35	1	20
Square	2	2/4	35	1.1	7.9
Square Long Shank	2	2	35	2	20
Square Long Shank	4	4	35	2	20
Long Square Long Shank	2	2	35	2	20
Long Square Long Shank	4	4	35	2	20
Square Long Neck	2	2	35	1	4
Square Taper	2	2	35	1	6
Square	45	3	45	3	20
Square R Trench	4	4	45	1	20
Ball Miniature	2	2	30	0.1R	0.45R
Ball	2	2	30	0.5R	10R
Ball	4	4	30	1R	8R
Ball Long Shank	2	2	30	0.5R	10R
Ball Long Shank	4	4	30	1R	8R
Ball Ex-Long Shank	2	2	30	1R	10R
Ball Long Neck	2	2	30	0.5R	2R
Ball Taper	2	2	30	1R	2R
Radius	2	2	35	1	12
Radius	4	4	35	1	12
Radius Long Shank	4	4	35	3	12



TYPE	ITEM	FLUTES	HELIX	MILL DIAMETER	
				MIN	MAX
Square Miniature	4	4	35	2	20
Square	4	4	35	2	12
Square	4	4	40-42	3	20
Square	4	4	40-42	3	12
Square Long Shank	4	4	51	3	20
Square Long Shank	4	4	51	3	12

HIGH HARDENED STEEL



TYPE	ITEM	FLUTES	HELIX	MILL DIAMETER	
				MIN	MAX
Square Miniature	2	2	35	0.2	0.9
Square	2	2	35	1	12
Square	4	4	35	1	12
Square Long Neck	2	2	35	0.5	4
Square Multi-Flutes	45	6/8	45	6	25
Ball Miniature	2	2	30	0.1R	0.45R
Ball	2	2	30	0.5R	6R
Ball	4	4	30	1R	6R
Ball Long Shank	2	2	30	0.5R	6R
Ball Long Neck	2	2	30	0.2R	3R
Radius	2	2	35	1	12
Radius	4	4	35	1	12
Radius	4	4	35	2	12

CARBIDE END MILLS

Square Type 4 Flutes - Miniature



Mill Dia. (D1)	Tolerance (mm)
Up to 0.9	+0/-0.02

* Shank Dia. Tolerance: h6

D1	L1	L	d	F
Mill Dia.	Flute Length	Overall Length	Shank Dia.	No. of Flute
0.2	0.4	38	3	2
0.25	0.5	38	3	2
0.3	0.6	38	3	2
0.35	0.7	38	3	2
0.4	0.8	38	3	2
0.5	1	38	3	2
0.6	1.2	38	3	2
0.7	1.4	38	3	2
0.8	1.6	38	3	2
0.9	1.8	38	3	2
0.2	0.4	50	4	2
0.3	0.6	50	4	2
0.4	0.8	50	4	2
0.5	1	50	4	2
0.6	1.2	50	4	2
0.7	1.4	50	4	2
0.8	1.6	50	4	2
0.9	1.8	50	4	2

(unit):mm

CARBIDE END MILLS

Square Type 2 Flutes - Miniature



Mill Dia. (D1) Up to	Tolerance (mm)
8	+0/-0.02
12	+0/-0.025
20	+0/-0.03

■ Shank Dia. Tolerance: h6

D1	L1	L	d	F
Mill Dia.	Flute Length	Overall Length	Shank Dia.	No. of Flute
1	3	50	4	2
1.5	3	50	4	2
2	6	50	4	2
2.5	6	50	4	2
3	9	50	4	2
3.5	9	50	4	2
4	12	50	4	2
2	6	50	6	2
2.5	6	50	6	2
3	9	50	6	2
3.5	9	50	6	2
4	12	50	6	2
4.5	12	50	6	2
5	15	50	6	2
5.5	15	50	6	2
6	18	50	6	2
6.5	20	60	8	2
7	20	60	8	2
7.5	20	60	8	2
8	24	60	8	2
8.5	24	75	10	2
9	27	75	10	2
9.5	27	75	10	2
10	30	75	10	2
10.5	30	75	12	2
11	30	75	12	2
11.5	30	75	12	2
12	30	75	12	2
15	40	100	16	2
16	40	100	16	2
20	45	100	20	2

(unit):mm

CARBIDE END MILLS

Square Type 4 Flutes - Miniature



Mill Dia. [D1]	Tolerance [mm]
Up to 6	+0/-0.02
12	+0/-0.025
20	+0/-0.03

■ Shank Dia. Tolerance: h8

D1	L1	L	d	F
Mill Dia.	Flute Length	Overall Length	Shank Dia.	No. of Flute
1	3	50	4	4
1.5	3	50	4	4
2	6	50	4	4
2.5	6	50	4	4
3	9	50	4	4
3.5	9	50	4	4
4	12	50	4	4
2	6	50	6	4
2.5	6	50	6	4
3	9	50	6	4
3.5	9	50	6	4
4	12	50	6	4
4.5	12	50	6	4
5	15	50	6	4
5.5	15	50	6	4
6	18	50	6	4
6.5	20	60	8	2
7	20	60	8	4
7.5	20	60	8	4
8	24	60	8	4
8.5	24	75	10	4
9	27	75	10	4
9.5	27	75	10	4
10	30	75	10	4
10.5	30	75	12	4
11	30	75	12	4
11.5	30	75	12	4
12	30	75	12	4
15	40	100	16	4
16	40	100	16	4
20	45	100	20	4

(unit):mm