



BJ Micro Boring Tools

Strive For Simplicity



Quick Tool Change
in less than 2 minutes

Made in Taiwan

CATALOGUE

2024-2025

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About

■ BJ: 30 years of CNC lathe precision machining

With our past 30 year's experiences of CNC lathe precision machining, we found out nowadays that the technicians have difficulties in changing tools and skilled Tech-Worker shortage has been an issue. Therefore, we invested in Research and Design (R&D) to assemble our own CNC grinding machine and produce micro boring tools which are our strengths.

BJ systematic boring tools provides higher precision and premium quality. This is perfect for precision machining and it helps reducing labor cost and increasing productivity. Most importantly, we offer our business partner a golden customer service.

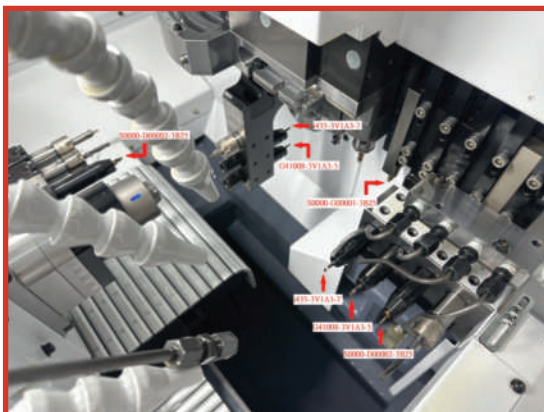
■ 2023 Active the Cutting Tool Laboratory

BJ set up a fully equipped laboratory to improve tool quality, optimize tool design, test tool life, and demonstrate BJ's internal cutting tools to customers. To accurately test and optimize the experimental process, BJ cooperates with the Academy for Academia and Industry Collaboration.

In terms of equipment aspect, BJ purchased Citizen L20E-2M8 CNC Swiss type machine equipped with High Pressure Coolant Through.

All cutting tools in BJ cutting tool laboratory are screwed with BJ Tool Special Torque Screwdrivers for standardization control to eliminate human factors and cause unstable tool life, poor production utilization etc. negative effects.

Visitors can fully understand BJ cutting tools practical application by visiting BJ cutting tool laboratory, including Turning Tool, Grooving Tool, Threading Tool, Face Grooving Tool.



■ Why BJ Tools are Worthy of Your Trust

Before 2014, Baoje Industrial owned dozens of Citizen, Star, and Tsugami CNC Swiss lathes, along with two Nakamura-Tome CNC lathes. For the past 30 years, Baoje has focused exclusively on CNC Swiss machine and CNC lathe machine processing applications. We handle a wide range of materials, including copper, aluminum, carbon steel, and stainless steel, particularly those that are difficult to cut. Our parts are used in automotive, aerospace, electronics, and medical industries. We understand the blind spots and pain points in user-end processing, and we design our micro boring tools to meet customer needs. We know that micro boring tools require high tool rigidity, ample chip space, and effective cooling. BJ tools are available in various tungsten materials, coating options, and tool designs to achieve the best results.

Each of our custom-made tools has an independent digital file, ensuring the quality of each batch remains stable. You receive the same materials and quality with every order. By consistently maintaining our standards, we have served over 800 customers in Taiwan and more than 50 overseas customers. We have created over 10,000 custom-tool records, providing us with a solid foundation to offer exceptional cutting tool technical services.

■ BJ Micro Boring Tool Features

1. Customized upon your request

- ▶▶ We can make exclusive micro/ internal boring tools based on your workpiece or drawing.

2. The concept of systematic boring tool design

- ▶▶ Quick Change Tool (change complete in one (1) minute), fool-proofing function design and Standard operation procedures.

3. Coated using professional and advanced imported equipment.

4. Specialized in “difficult-to-cut” material.

5. Longer lifetime than other brands.

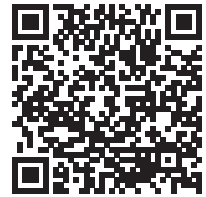


Features

■ BJ Tools & Holders Special Features

Tool locking procedure:

- ▶▶ Find the right angle, align the tool accordingly and insert until the end.
- ▶▶ Slightly lock the rear screw.
- ▶▶ Tightly lock the front screw.
- ▶▶ Firmly relock the rear screw.



View Full Video on YouTube ▶

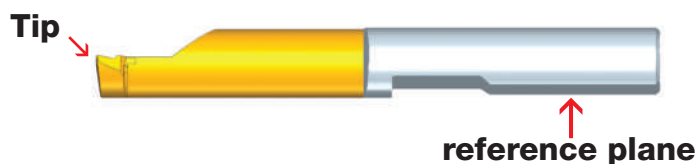
Our Tools are easy to lock and can be changed without removing the holders.

■ Understanding Reference Plane

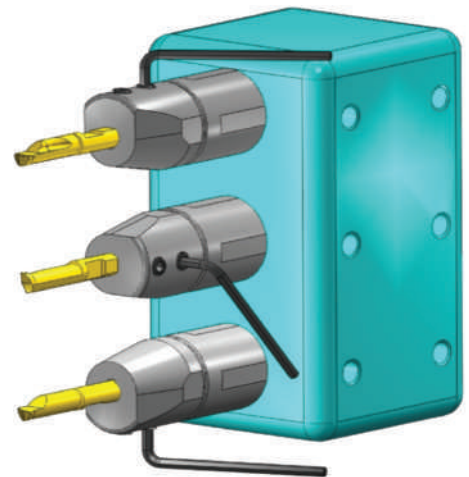
To facilitate easy tool change, regardless of the brands and different machine types, we designed 2 types of reference plane.



- ▶▶ **0°** : Reference plane and tip are on the same side.



- ▶▶ **180°** : Reference plane and tip are opposite sides.
(top and bottom)



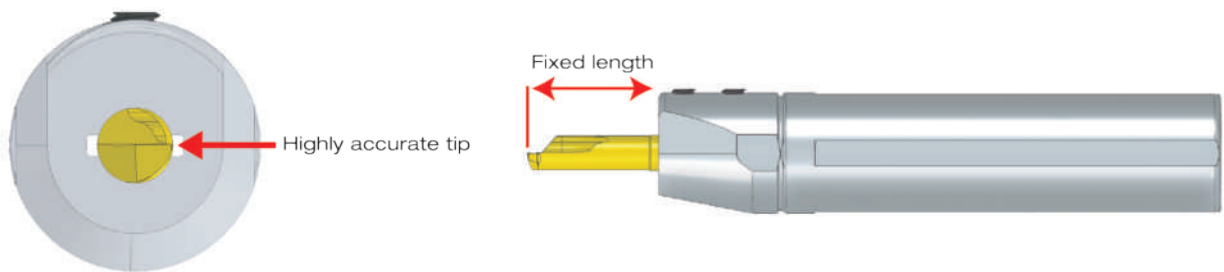
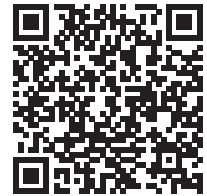
View Full Video on YouTube ▶

BJ vs. Competitors

▶▶ BJ's Tools :

- | Accurate and rapid tool change. Easy for technician to set up.
- | Highly accurate tip and excellent life time.
- | Shorter time for good production and delivery , premium quality, increase efficiency, reduced costs.
- | Customized upon request, reducing tools development time.

▼ YouTube Link

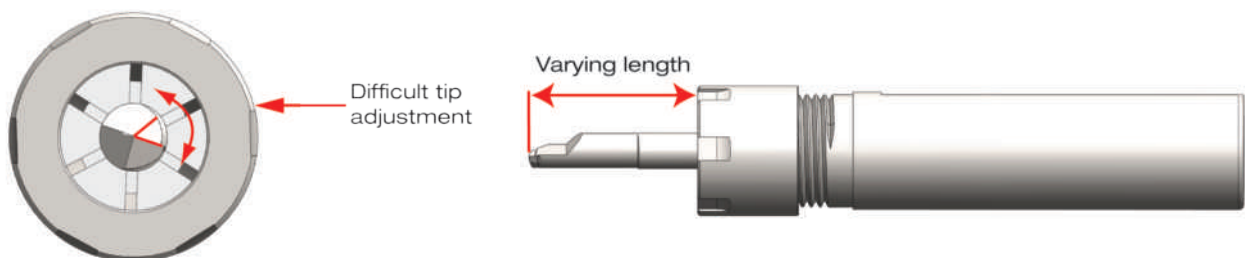


Most Prominent Features :

Easy for beginners to use, preventing and solving technical problems.

▶▶ Others' Tools :

- | Longer adjustment time, leading to very long machine downtime.
- | Frequent NC code modification, reducing machine efficiency.
- | Not easily adjustable tip, with unstable size and short tool life time.
- | Low yield rate, low production rate and low quality control, resulting in higher cost.



Biggest Blind Spot :

Difficult for unskilled technician to replace the tool and bringing on technical problems.

Micro Boring Tools

BJ Boring Tools Series

Our tools are coated by the PVD method with TiN, TiAlN(S-Fire), AlCrSiN and DLC. They have superior toughness and sharper cutting edges with excellent wear resistance and thermal crack resistance.

▶▶ Premium Quality:

Long lifetime tool, higher quality, speedy delivery and easy for beginner technicians.

▶▶ Reasonable Price:

Very competitive price compared to world's branded tooling company.

▶▶ Easy Exchanging Tool:

Easy positioning and high precision repeatability. It saves time with no mistakes.

▶▶ Customized Design:

We will be at your service all the time.



T 10 Degree Turning Tools



TA 0 Degree Turning Tools



UT 21 Degree Profiling Tools



U 50 Degree Turning Tools



UQ 50 Degree Turning Tools
(Radius Tip)



G Grooving Tools



GQ Round Grooving Tools



B Back Turning Tools



I Threading Tools



D Face Grooving Tools



DQ Round Face Grooving Tools



D Face Grooving Tools
(Customized)



H Through Coolant
- T Tools



H Through Coolant
- UQ Tools



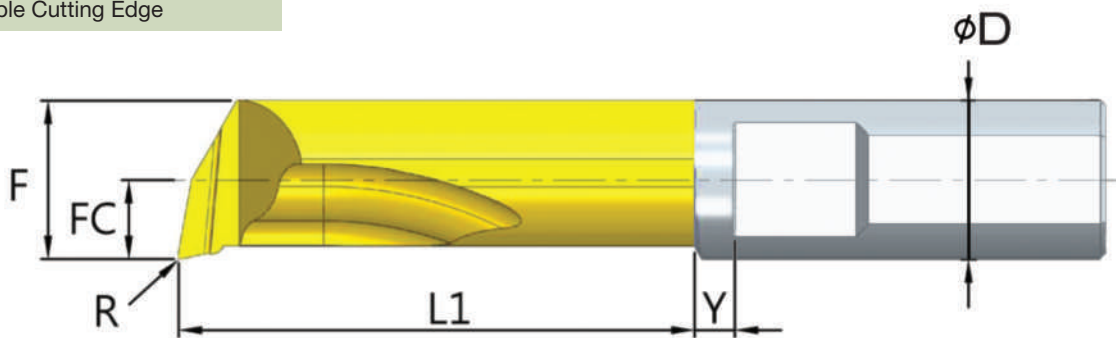
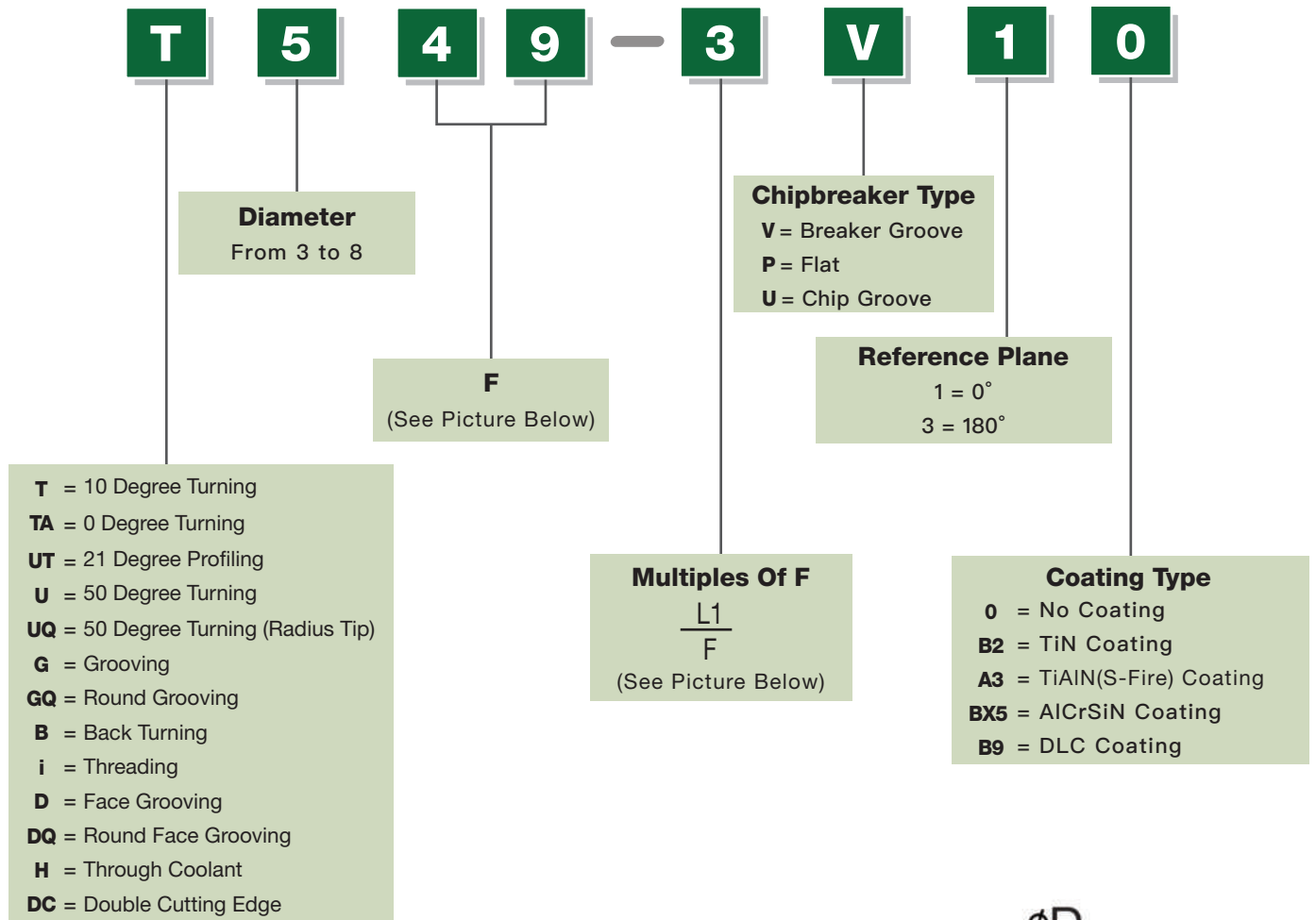
DC Double Cutting Edge
(TT/UU/UQUQ)

Recommended Speed And Feedrate

Workpiece Material	Cutting Speed (m/min)	Feed Rate (mm/rev)	Chipbreaker (V/P)
Bronze	>100m	F0.03-F0.08	P
Aluminum Alloy	>100m	F0.03-F0.08	P
S15C	60m-120m	F0.03-F0.05	V
S45C	50m-60m	F0.03-F0.05	V
12L14	>100m	F0.03-F0.05	P
12L15	80m-100m	F0.03-F0.05	P
SUS303	50m-60m	F0.03-F0.05	P
SUS304	50m-60m	F0.03-F0.05	V
SUS310	50m-60m	F0.03-F0.05	V
SUS316	50m-60m	F0.03-F0.05	V
SUS420	50m-60m	F0.03-F0.05	V
SCM415	50m-60m	F0.03-F0.05	V
SCM435	50m-60m	F0.03-F0.05	V
SKD11	40m-50m	F0.03-F0.05	V
A286	40m-50m	F0.03-F0.05	V
INCONEL 718	40m-50m	F0.03-F0.05	V
WASPALLOY	40m-50m	F0.03-F0.05	V

Tools Identification

Tools Identification



10 Degree Turning Tool

Specification Tool Range

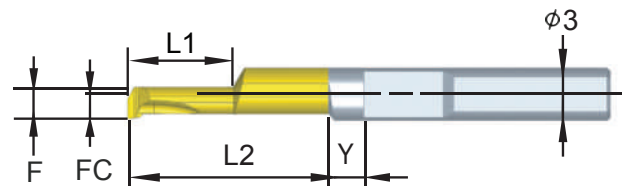
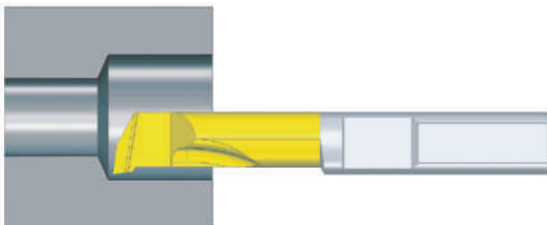
0.6mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

Feature

For Rough or Precision cutting.

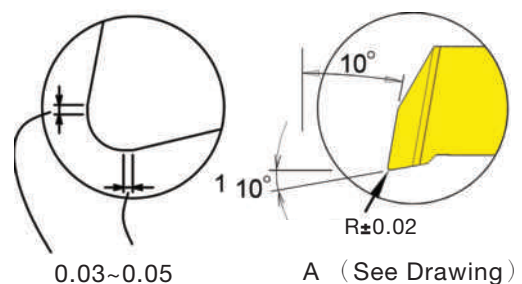
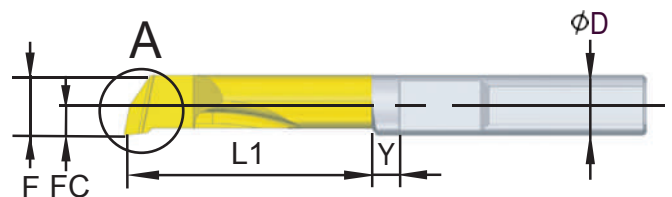
Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- 3** : Multiples of F
- : Chipbreaker Type
V=Breaker Groove
P=Flat
- ☆** : Reference Plane
1=0°
3=180°
- : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



V Breaker Groove



Reference Plane 0°



P Flat



Reference Plane 180°

T Tool

10 Degree Turning Tool

Item Number	D	Minimum Diameter	F	FC	R	Multiples	L1	L2	Y	Chipbreaker	Reference Plane (degree)	Coating Type
T306-4V1A3	3	0.7	0.6	1.4	0.03	4	2.7	4.7	2.3	✓	0	S-Fire (TiAlN)
T310-4V1A3	3	1.2	1.0	1.4	0.03	4	4.5	6.2	2.8	✓	0	S-Fire (TiAlN)
T318-3V1A3	3	2.0	1.8	1.4	0.05	3	6	7	4	✓	0	S-Fire (TiAlN)
T318-4V1A3						4	8	10.0	3.4			
T318-5V1A3						5	10	12	4			
T318-6V1A3						6	12	12	4			
T318-7V1A3						7	14	17	3			
T329-3V1A3	3	3.2	2.9	1.4	0.1	3	9			✓	0	S-Fire (TiAlN)
T329-4V1A3						4	11.4					
T329-5V1A3						5	14	-	2			
T329-6V1A3						6	18					
T329-7V1A3						7	21					
T439-3V1A3	4	4.2	3.9	1.9	0.1	3	11			✓	0	S-Fire (TiAlN)
T439-4V1A3						4	14.5					
T439-5V1A3						5	18	-	2			
T439-6V1A3						6	23					
T439-7V1A3						7	27					
T549-3V1A3	5	5.2	4.9	2.4	0.1	3	15			✓	0	S-Fire (TiAlN)
T549-4V1A3						4	19					
T549-5V1A3						5	23	-	2			
T549-6V1A3						6	30					
T549-7V1A3						7	35					
T659-3V1A3	6	6.2	5.9	2.9	0.1	3	17			✓	0	S-Fire (TiAlN)
T659-4V1A3						4	23					
T659-5V1A3						5	28	-	2			
T659-6V1A3						6	34					
T659-7V1A3						7	42					
T879-3V1A3	8	8.2	7.9	3.9	0.1	3	22			✓	0	S-Fire (TiAlN)
T879-4V1A3						4	30					
T879-5V1A3						5	38	-	2			
T879-6V1A3						6	46					
T879-7V1A3						7	54					

- ▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / ØD / Tip Radius / Front angle, according to your requirement beside standard 10 degree turning tool.
- ▶ Can manufacture inch dimension on request.

10 Degree Turning Tool (T-R0.2 Tool)

Item Number	D	Minimum Diameter	F	FC	R	Multiples	L1	L2	Y	Chipbreaker	Reference Plane (degree)	Coating Type
T318-3V1A3-R10	3	2.0	1.8	1.4	0.1	3	6	7	4	✓	0	S-Fire (TiAIN)
T318-4V1A3-R10						4	8	10	3.4			
T318-5V1A3-R10						5	10	12	4			
T329-3V1A3-R20	3	3.2	2.9	1.4	0.2	3	9			✓	0	S-Fire (TiAIN)
T329-4V1A3-R20						4	11.4					
T329-5V1A3-R20						5	14	-	2			
T329-6V1A3-R20						6	18					
T329-7V1A3-R20						7	21					
T439-3V1A3-R20	4	4.2	3.9	1.9	0.2	3	11			✓	0	S-Fire (TiAIN)
T439-4V1A3-R20						4	14.5					
T439-5V1A3-R20						5	18	-	2			
T439-6V1A3-R20						6	23					
T439-7V1A3-R20						7	27					
T549-3V1A3-R20	5	5.2	4.9	2.4	0.2	3	15			✓	0	S-Fire (TiAIN)
T549-4V1A3-R20						4	19					
T549-5V1A3-R20						5	23	-	2			
T549-6V1A3-R20						6	30					
T549-7V1A3-R20						7	35					
T659-3V1A3-R20	6	6.2	5.9	2.9	0.2	3	17			✓	0	S-Fire (TiAIN)
T659-4V1A3-R20						4	23					
T659-5V1A3-R20						5	28	-	2			
T659-6V1A3-R20						6	34					
T659-7V1A3-R20						7	42					
T879-3V1A3-R20	8	8.2	7.9	3.9	0.2	3	22			✓	0	S-Fire (TiAIN)
T879-4V1A3-R20						4	30					
T879-5V1A3-R20						5	38	-	2			
T879-6V1A3-R20						6	46					
T879-7V1A3-R20						7	54					

- ▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / ØD / Tip Radius / Front angle, according to your requirement beside standard 10 degree turning tool.
- ▶ Can manufacture inch dimension on request.

0 Degree Turning Tool

▶▶ Specification Tool Range

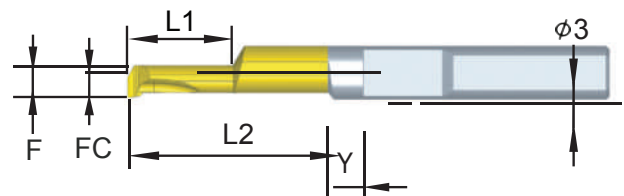
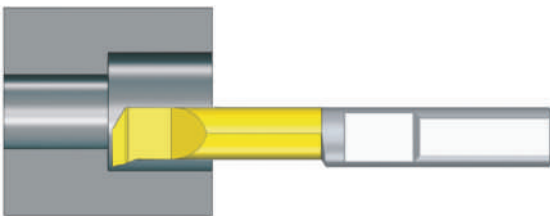
0.6mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

▶▶ Feature

It is suitable for blind hole workpiece, for rough or precision cutting.

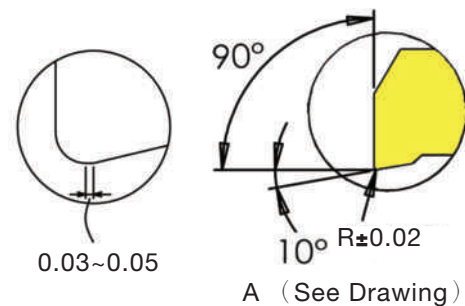
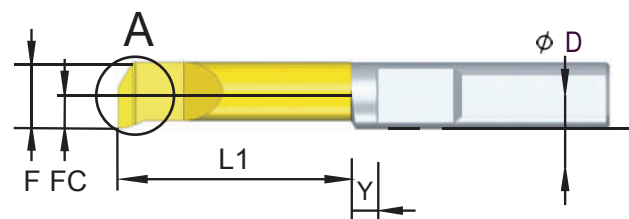
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

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BX5=AlCrSiN Coating
B9 =DLC Coating



V Breaker Groove



Reference Plane 0°



P Flat



Reference Plane 180°

0 Degree Turning Tool

Item Number	D	Minimum Diameter	F	FC	R	Multiples	L1	L2	Y	Chipbreaker	Reference Plane (Degree)	Coating Type
TA306-4V1A3	3	0.7	0.6	1.4	0.03	4	2.7	5	2	✓	0	S-Fire (TiAIN)
TA310-4V1A3	3	1.2	1.0	1.4	0.03	4	4.5	6.2	2.8	✓	0	S-Fire (TiAIN)
TA318-3V1A3	3	2.0	1.8	1.4	0.05	3	6	7	4	✓	0	S-Fire (TiAIN)
TA318-4V1A3						4	8	10.1	3.3			
TA318-5V1A3						5	10	12.5	3.5			
TA318-6V1A3						6	12	12	4			
TA318-7V1A3						7	14	17	3			
TA329-3V1A3	3	3.2	2.9	1.4	0.1	3	9			✓	0	S-Fire (TiAIN)
TA329-4V1A3						4	11.4					
TA329-5V1A3						5	14	-	2			
TA329-6V1A3						6	18					
TA329-7V1A3						7	21					
TA439-3V1A3	4	4.2	3.9	1.9	0.1	3	11			✓	0	S-Fire (TiAIN)
TA439-4V1A3						4	14.5					
TA439-5V1A3						5	18	-	2			
TA439-6V1A3						6	23					
TA439-7V1A3						7	27					
TA549-3V1A3	5	5.2	4.9	2.4	0.1	3	15			✓	0	S-Fire (TiAIN)
TA549-4V1A3						4	19					
TA549-5V1A3						5	23	-	2			
TA549-6V1A3						6	30					
TA549-7V1A3						7	35					
TA659-3V1A3	6	6.2	5.9	2.9	0.1	3	17			✓	0	S-Fire (TiAIN)
TA659-4V1A3						4	23					
TA659-5V1A3						5	28	-	2			
TA659-6V1A3						6	34					
TA659-7V1A3						7	42					

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / ØD / Tip Radius / Front angle, according to your requirement beside standard 0 degree turning tool.
- ▶▶ Can manufacture inch dimension on request.

21 Degree Profiling Tool NEW

▶▶ Specification Tool Range

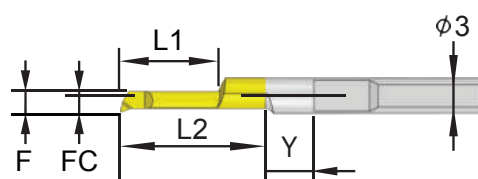
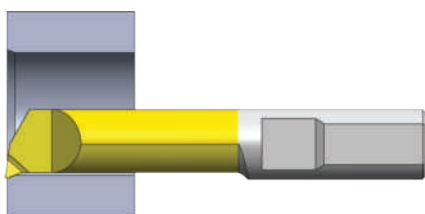
0.6mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

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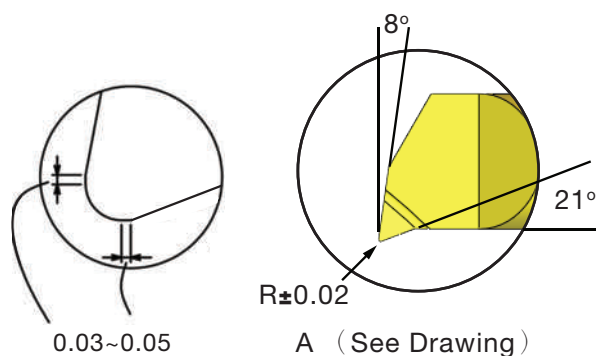
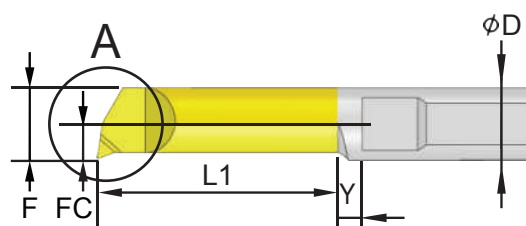
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- | 3 : Multiples of F
- | □ : Chipbreaker Type
V=Breaker Groove
P=Flat
- | ☆ : Reference Plane
1=0°
3=180°
- | ○ : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



V Breaker Groove / Reference Plane 0°

21 Degree Profiling Tool NEW

Item Number	D	Minimum Diameter	F	FC	R	Multiples	L1	L2	Y	Chipbreaker	Reference Plane (Degree)	Coating Type
UT310-4V1A3	3	1.2	1.0	1.4	0.03	4	4.5	6.2	2.8	✓	0	S-Fire (TiAIN)
UT318-3V1A3						3	6	7	4			
UT318-4V1A3						4	8	10.0	3.4			
UT318-5V1A3	3	2.0	1.8	1.4	0.05	5	10	12	4	✓	0	S-Fire (TiAIN)
UT318-6V1A3						6	12	12	4			
UT318-7V1A3						7	14	17	3			
UT329-3V1A3						3	9					
UT329-4V1A3						4	11.4					
UT329-5V1A3	3	3.2	2.9	1.4	0.1	5	14	-	2	✓	0	S-Fire (TiAIN)
UT329-6V1A3						6	18					
UT329-7V1A3						7	21					
UT439-3V1A3						3	11					
UT439-4V1A3						4	14.5					
UT439-5V1A3	4	4.2	3.9	1.9	0.1	5	18	-	2	✓	0	S-Fire (TiAIN)
UT439-6V1A3						6	23					
UT439-7V1A3						7	27					
UT549-3V1A3						3	15					
UT549-4V1A3						4	19					
UT549-5V1A3	5	5.2	4.9	2.4	0.1	5	23	-	2	✓	0	S-Fire (TiAIN)
UT549-6V1A3						6	30					
UT549-7V1A3						7	35					
UT659-3V1A3						3	17					
UT659-4V1A3						4	23					
UT659-5V1A3	6	6.2	5.9	2.9	0.1	5	28	-	2	✓	0	S-Fire (TiAIN)
UT659-6V1A3						6	34					
UT659-7V1A3						7	42					

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / Φ D / Tip Radius / Front angle, according to your requirement beside standard 21 degree profiling tool.
- ▶▶ Can manufacture inch dimension on request.

U Tool

50 Degree Turning Tool

▶▶ Specification Tool Range

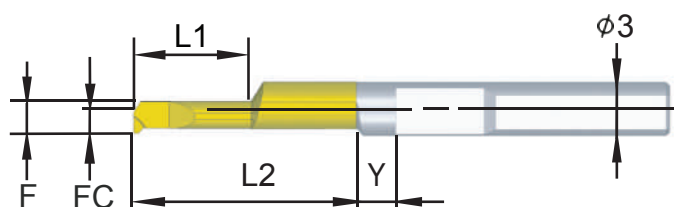
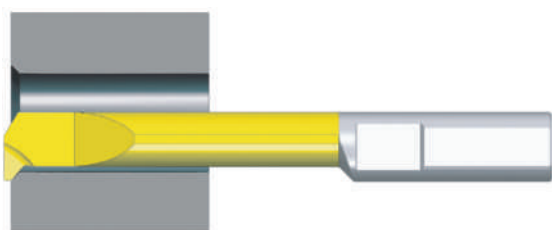
1.0mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

▶▶ Feature

Can turn and chamfer. For rough or precision cutting.

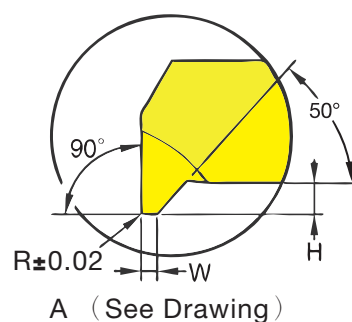
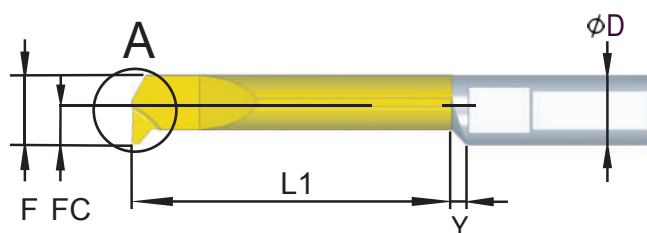
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- 3 : Multiples of F
- : Chipbreaker Type
V=Breaker Groove
P=Flat
- ☆ : Reference Plane
1=0°
3=180°
- : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



V Breaker Groove



Reference Plane 0°



P Flat



Reference Plane 180°

50 Degree Turning Tool

Item Number	D	Minimum Diameter	F	FC	R	W	H	Multiples	L1	L2	Y	Chipbreaker	Reference Plane (Degree)	Coating Type
U318-3V1A3								3	6	6.78	4.22			
U318-4V1A3								4	8	9.9	3.5			
U318-5V1A3	3	2.0	1.8	1.4	0.05	0.3	0.5	5	10	14	2	✓	0	S-Fire (TiAIN)
U318-6V1A3								6	12	12	4			
U318-7V1A3								7	14	17	3			
U329-3V1A3								3	9					
U329-4V1A3								4	11.4					
U329-5V1A3	3	3.2	2.9	1.4	0.05	0.4	0.7	5	14	-	2	✓	0	S-Fire (TiAIN)
U329-6V1A3								6	18					
U329-7V1A3								7	21					
U439-3V1A3								3	11					
U439-4V1A3								4	14.5					
U439-5V1A3	4	4.2	3.9	1.9	0.1	0.5	0.8	5	18	-	2	✓	0	S-Fire (TiAIN)
U439-6V1A3								6	23					
U439-7V1A3								7	27					
U549-3V1A3								3	15					
U549-4V1A3								4	19					
U549-5V1A3	5	5.2	4.9	2.4	0.1	0.5	1.1	5	23	-	2	✓	0	S-Fire (TiAIN)
U549-6V1A3								6	30					
U549-7V1A3								7	35					
U659-3V1A3								3	17					
U659-4V1A3								4	23					
U659-5V1A3	6	6.2	5.9	2.9	0.1	0.5	1.2	5	28	-	2	✓	0	S-Fire (TiAIN)
U659-6V1A3								6	34					
U659-7V1A3								7	42					

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / W / H / ΦD / Tip Radius / Front angle, according to your requirement beside standard 50 degree front turning + back chamfering tool.
- ▶▶ Can manufacture inch dimension on request.

50 Degree Turning Tool (Radius Tip)

▶▶ Specification Tool Range

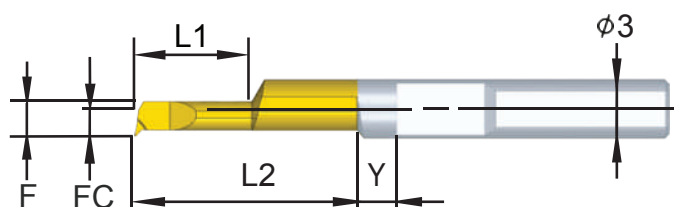
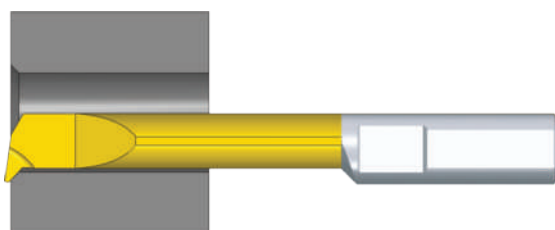
1.0mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

▶▶ Feature

Can turn and chamfer. For rough or precision cutting.

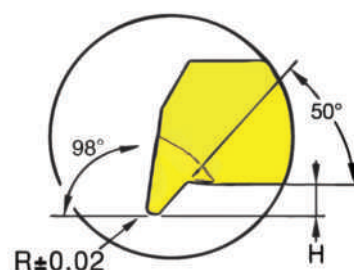
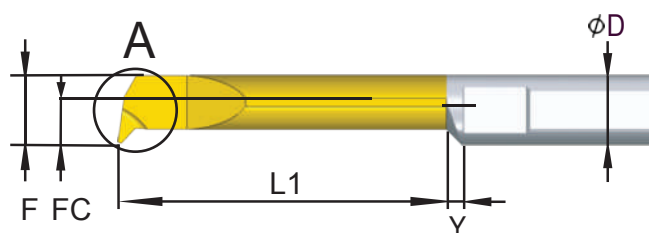
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- 3 : Multiples of F
- : Chipbreaker Type
V=Breaker Groove
P=Flat
- ☆ : Reference Plane
1=0°
3=180°
- : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



V Breaker Groove



Reference Plane 0°



P Flat



Reference Plane 180°

50 Degree Turning Tool (Radius Tip)

Item Number	D	Minimum Diameter	F	FC	R	H	Multiples	L1	L2	Y	Chipbreaker	Reference Plane (Degree)	Coating Type
UQ318-3V1A3-R05							3	6	6.5	4.5			
UQ318-4V1A3-R05	3	2.0	1.8	1.4	0.05	0.5	4	8	10.4	3	✓	0	S-Fire (TiAIN)
UQ318-5V1A3-R05							5	10	13	3			
UQ329-3V1A3-R10							3	9					
UQ329-4V1A3-R10							4	11.4					
UQ329-5V1A3-R10	3	3.2	2.9	1.4	0.1	0.7	5	14	-	2	✓	0	S-Fire (TiAIN)
UQ329-6V1A3-R10							6	18					
UQ329-7V1A3-R10							7	21					
UQ439-3V1A3-R20							3	11					
UQ439-4V1A3-R20							4	14.5					
UQ439-5V1A3-R20	4	4.2	3.9	1.9	0.2	0.8	5	18	-	2	✓	0	S-Fire (TiAIN)
UQ439-6V1A3-R20							6	23					
UQ439-7V1A3-R20							7	27					
UQ549-3V1A3-R20							3	15					
UQ549-4V1A3-R20							4	19					
UQ549-5V1A3-R20	5	5.2	4.9	2.4	0.2	1.1	5	23	-	2	✓	0	S-Fire (TiAIN)
UQ549-6V1A3-R20							6	30					
UQ549-7V1A3-R20							7	35					
UQ659-3V1A3-R20							3	17					
UQ659-4V1A3-R20							4	23					
UQ659-5V1A3-R20	6	6.2	5.9	2.9	0.2	1.4	5	28	-	2	✓	0	S-Fire (TiAIN)
UQ659-6V1A3-R20							6	34					
UQ659-7V1A3-R20							7	42					

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / W / H / Φ D / Tip Radius / Front angle, according to your requirement beside standard 50 degree front turning + back chamfering tool.
- ▶▶ Can manufacture inch dimension on request.

Grooving Tool

Specification Tool Range

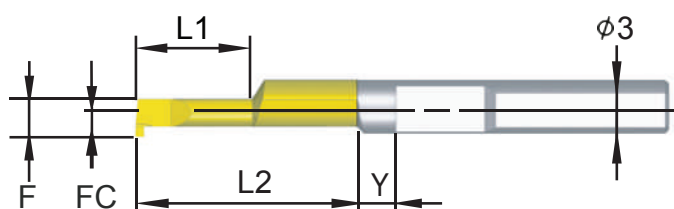
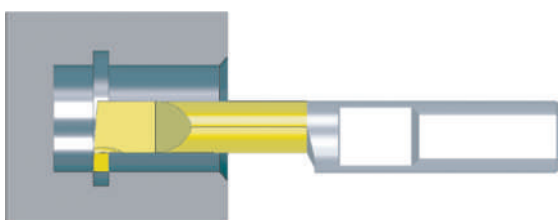
1.0mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

Feature

For Rough or Precision cutting.

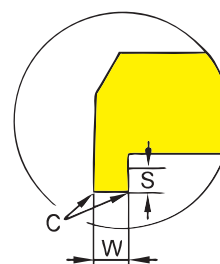
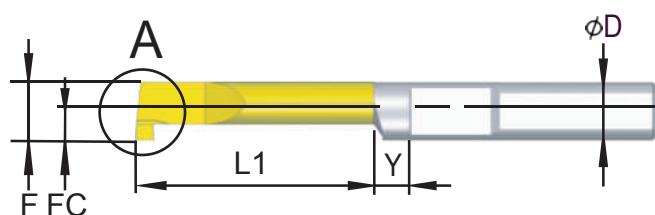
Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- 3** : Multiples of F
- : Chipbreaker Type
V=Breaker Groove
P=Flat
- ☆** : Reference Plane
1=0°
3=180°
- : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



A (See Drawing)



V Breaker Groove



Reference Plane 0°



P Flat



Reference Plane 180°

Grooving Tool

Item Number	D	Minimum Diameter	F	FC	W	S	H	Multiples	L1	Y	C±0.01	Chipbreaker	Reference Plane (Degree)	Coating Type
G318-05035-3V1A3	3	2.0	1.8	1.4	0.5	0.35	0.5	3	9	2	0	✓	0	S-Fire (TiAlN)
G318-05035-4V1A3								4	11.4					
G30505-3V1A3	3	3.2	2.9	1.4	0.5	0.5	0.7	3	9	2	0.04	✓	0	S-Fire (TiAlN)
G30505-4V1A3								4	11.4					
G30505-5V1A3								5	14					
G307508-3V1A3	3	3.2	2.9	1.4	0.75	0.8	1.0	3	9	2	0.04	✓	0	S-Fire (TiAlN)
G307508-4V1A3								4	11.4					
G307508-5V1A3								5	14					
G40505-3V1A3	4	4.2	3.9	1.9	0.5	0.5	0.7	3	11	2	0.04	✓	0	S-Fire (TiAlN)
G40505-4V1A3								4	14.5					
G40505-5V1A3								5	18					
G407508-3V1A3	4	4.2	3.9	1.9	0.75	0.8	1.0	3	11	2	0.04	✓	0	S-Fire (TiAlN)
G407508-4V1A3								4	14.5					
G407508-5V1A3								5	18					
G50506-3V1A3	5	5.2	4.9	2.4	0.5	0.6	0.8	3	15	2	0.04	✓	0	S-Fire (TiAlN)
G50506-4V1A3								4	19					
G50506-5V1A3								5	23					
G51010-3V1A3	5	5.2	4.9	2.4	1.0	1.0	1.2	3	15	2	0.04	✓	0	S-Fire (TiAlN)
G51010-4V1A3								4	19					
G51010-5V1A3								5	23					
G512515-3V1A3	5	5.2	4.9	2.4	1.25	1.5	1.7	3	15	2	0.04	✓	0	S-Fire (TiAlN)
G512515-4V1A3								4	19					
G512515-5V1A3								5	23					
G60506-3V1A3	6	6.2	5.9	2.9	0.5	0.6	0.8	3	17	2	0.04	✓	0	S-Fire (TiAlN)
G60506-4V1A3								4	23					
G60506-5V1A3								5	28					
G61015-3V1A3	6	6.2	5.9	2.9	1.0	1.5	1.7	3	17	2	0.04	✓	0	S-Fire (TiAlN)
G61015-4V1A3								4	23					
G61015-5V1A3								5	28					
G61518-3V1A3	6	6.2	5.9	2.9	1.5	1.8	2.0	3	17	2	0.04	✓	0	S-Fire (TiAlN)
G61518-4V1A3								4	23					
G61518-5V1A3								5	28					
G62022-3V1A3	6	6.2	5.9	2.9	2.0	2.2	2.4	3	17	2	0.04	✓	0	S-Fire (TiAlN)
G62022-4V1A3								4	23					
G62022-5V1A3								5	28					

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ Internal grooving tools have several sizes (W and S), please call for inquiries.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / W / S / C / ΦD / Tip Radius, according to your requirement beside standard grooving tool.
- ▶▶ Can manufacture inch dimension on request.

Round Grooving Tool NEW

▶▶ Specification Tool Range

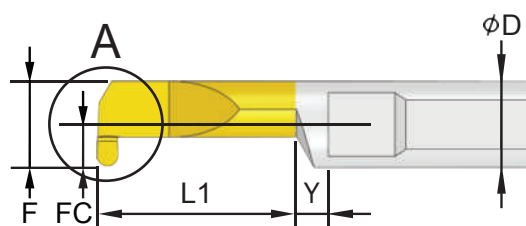
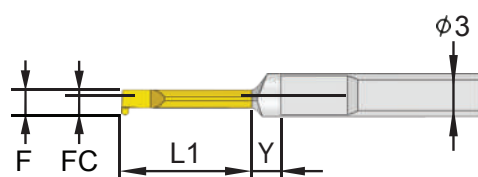
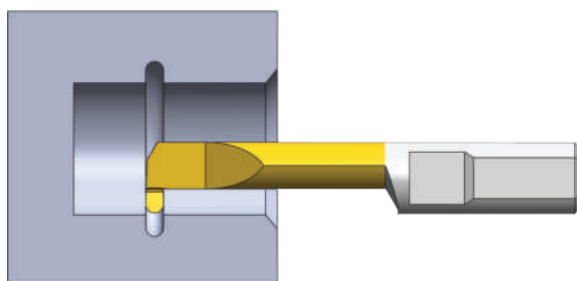
1.0mm~ 8mm. Tungsten carbide materials are imported from Europe and Japan.

▶▶ Feature

For Rough or Precision cutting.

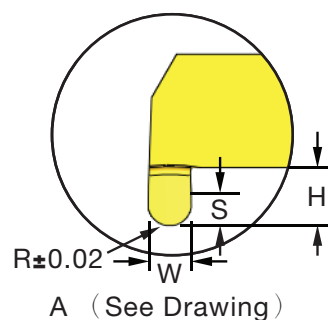
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- | 3 : Multiples of F
- | □ : Chipbreaker Type
V=Breaker Groove
P=Flat
- | ☆ : Reference Plane
1=0°
3=180°
- | ○ : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



A (See Drawing)



V Breaker Groove / Reference Plane **0°**

Round Grooving Tool NEW

Item Number	D	Minimum Diameter	F	FC	W	S	H	Multiples	L1	Y	R	Chipbreaker	Reference Plane (Degree)	Coating Type
GQ318-05035-3V1A3-R25	3	2.0	1.8	1.4	0.5	0.35	0.5	3	9	2	0.25	✓	0	S-Fire (TiAlN)
GQ30607-3V1A3-R30	3	3.2	2.9	1.4	0.6	0.7	0.8	3	9	2	0.3	✓	0	S-Fire (TiAlN)
GQ30607-5V1A3-R30								5	14					
GQ30808-3V1A3-R40	3	3.2	2.9	1.4	0.8	0.8	1.0	3	9	2	0.4	✓	0	S-Fire (TiAlN)
GQ30808-5V1A3-R40								5	14					
GQ40505-3V1A3-R25	4	4.2	3.9	1.9	0.5	0.5	0.7	3	11	2	0.25	✓	0	S-Fire (TiAlN)
GQ40505-5V1A3-R25								5	18					
GQ407508-3V1A3-R375	4	4.2	3.9	1.9	0.75	0.8	1.0	3	11	2	0.375	✓	0	S-Fire (TiAlN)
GQ407508-5V1A3-R375								5	18					
GQ51010-3V1A3-R50	5	5.2	4.9	2.4	1.0	1.0	1.2	3	15	2	0.5	✓	0	S-Fire (TiAlN)
GQ51010-5V1A3-R50								5	23					
GQ512515-3V1A3-R625	5	5.2	4.9	2.4	1.25	1.5	1.7	3	15	2	0.625	✓	0	S-Fire (TiAlN)
GQ512515-5V1A3-R625								5	23					
GQ61015-3V1A3-R50	6	6.2	5.9	2.9	1.0	1.5	1.7	3	17	2	0.5	✓	0	S-Fire (TiAlN)
GQ61015-5V1A3-R50								5	28					
GQ61518-3V1A3-R75	6	6.2	5.9	2.9	1.5	1.8	2.0	3	17	2	0.75	✓	0	S-Fire (TiAlN)
GQ61518-5V1A3-R75								5	28					
GQ62022-3V1A3-R100	6	6.2	5.9	2.9	2.0	2.2	2.4	3	17	2	1.0	✓	0	S-Fire (TiAlN)
GQ62022-5V1A3-R100								5	28					

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ Internal grooving tools have several sizes (W and S), please call for inquiries.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / W / S / C / ΦD / Tip Radius, according to your requirement beside standard round grooving tool.
- ▶▶ Can manufacture inch dimension on request.

B Tool

Back Turning Tool NEW

▶▶ Specification Tool Range

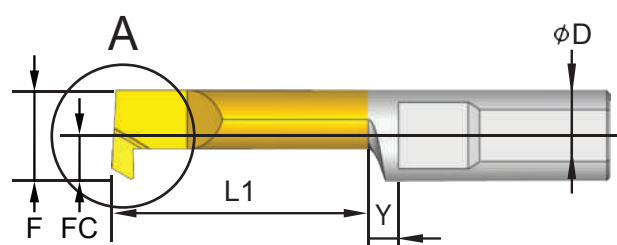
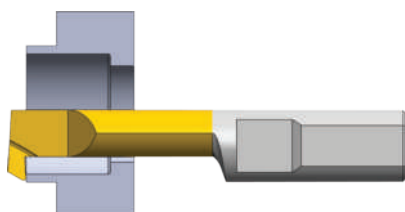
1.0mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

▶▶ Feature

For Rough or Precision cutting.

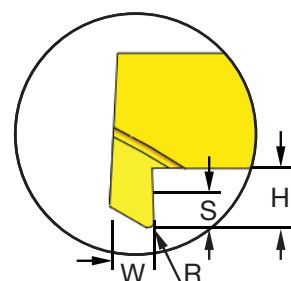
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3□☆○

- | 3 : Multiples of F
- | □ : Chipbreaker Type
V=Breaker Groove
P=Flat
- | ☆ : Reference Plane
1=0°
3=180°
- | ○ : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



A (See Drawing)



V Breaker Groove / Reference Plane 0°

Back Turning Tool NEW

Item Number	D	Minimum Diameter	F	FC	W	S	H	Multiples	L1	Y	R	Chipbreaker	Reference Plane (Degree)	Coating Type
B31505-3V1A3-R10	3	3.2	2.9	1.4	1.5	0.5	0.7	3	9	2	0.1	✓	0	S-Fire (TiAIN)
B31505-5V1A3-R10								5	14					
B41508-3V1A3-R15	4	4.2	3.9	1.9	1.5	0.8	1.0	3	11	2	0.15	✓	0	S-Fire (TiAIN)
B41508-5V1A3-R15								5	18					
B51510-3V1A3-R20	5	5.2	4.9	2.4	1.5	1.0	1.2	3	15	2	0.2	✓	0	S-Fire (TiAIN)
B51510-5V1A3-R20								5	23					
B61518-3V1A3-R20	6	6.2	5.9	2.9	1.5	1.8	2.0	3	17	2	0.2	✓	0	S-Fire (TiAIN)
B61518-5V1A3-R20								5	28					

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / W / S / ΦD / Tip Radius, according to your requirement beside standard back turning tool.
- ▶▶ Can manufacture inch dimension on request.

Threading Tool

▶▶ Specification Tool Range

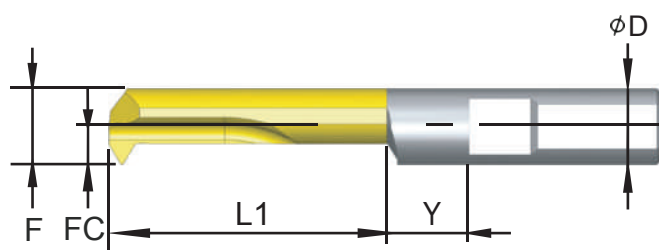
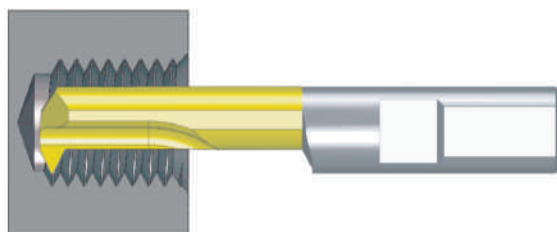
1.0mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

▶▶ Feature

For 60° thread use.

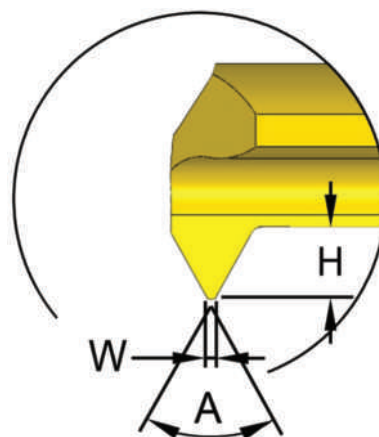
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3□☆○

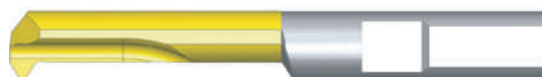
- 3 : Multiples of F
- : Chipbreaker Type
V=Breaker Groove
P=Flat
- ☆ : Reference Plane
1=0°
3=180°
- : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



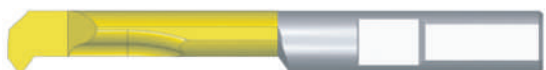
A (See Drawing)



V Breaker Groove



Reference Plane 0°



P Flat



Reference Plane 180°

Threading Tool

Item number	D	F	FC	A	H	W	Maximum Pitch	Multiples	L1	Y	Chipbreaker	Reference Plane (degree)	Coating Type
i321-3V1A3								3	8	3			
i321-4V1A3	3	2.1	1.05	60	0.55	0.03	0.6	4	10.4	3	✓	0	S-Fire (TiAlN)
i321-5V1A3								5	13	3			
i326-3V1A3								3	9	2			
i326-4V1A3	3	2.6	1.4	60	0.7	0.04	0.7	4	10.9	2.5	✓	0	S-Fire (TiAlN)
i326-5V1A3								5	13	3			
i435-3V1A3								3	10	3			
i435-4V1A3	4	3.5	1.9	60	0.8	0.05	0.8	4	12.5	4	✓	0	S-Fire (TiAlN)
i435-5V1A3								5	15	5			
i545-3V1A3								3	15	2			
i545-4V1A3	5	4.5	2.4	60	1.2	0.07	1.25	4	16	5	✓	0	S-Fire (TiAlN)
i545-5V1A3								5	18	7			
i659-3V1A3								3	17	2			
i659-4V1A3	6	5.9	2.9	60	1.4	0.11	1.5	4	19	6	✓	0	S-Fire (TiAlN)
i659-5V1A3								5	22	8			
i879-3V1A3								3	21	3			
i879-4V1A3	8	7.9	3.9	60	2.0	0.135	1.75	4	26	6	✓	0	S-Fire (TiAlN)
i879-5V1A3								5	32	8			

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and S-Fire coating. Please inform us if need 180 reference plane, flat, uncoated or TiN coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / W / H / A° / ØD / Tip Radius, according to your requirement besides standard threading tool.
- ▶▶ Can manufacture inch dimension on request.

D Tool

Face Grooving Tool

Specification Tool Range

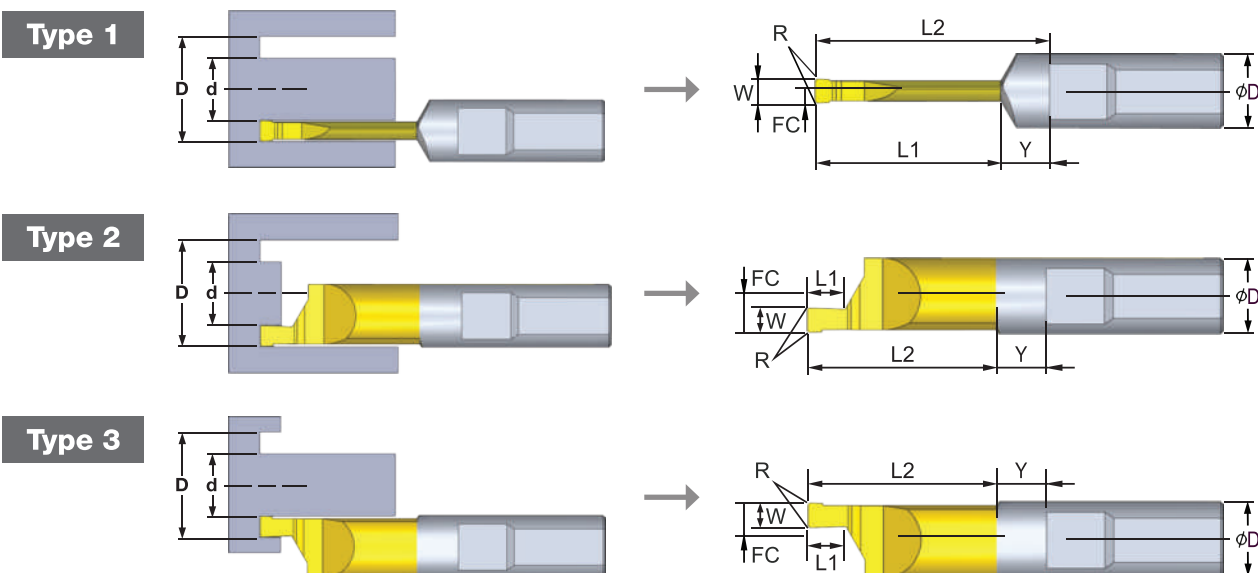
0.2mm~ 8mm.Tungsten carbide materials are imported from Europe and Japan.

Feature

Machined workpiece aperture > $\Phi 6$, suitable for difficult-to-cut materials, applicable for rough and finish turning.

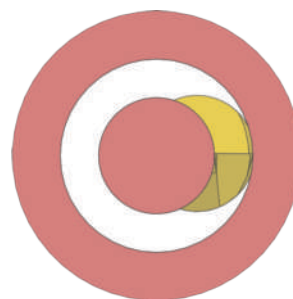
Remark

Coated by imported equipment.



Tool Numbering : 3□☆○

- 3 : Multiples of F
- : Chipbreaker Type
V=Breaker Groove
P=Flat
- ☆ : Reference Plane
1=0°
3=180°
- : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



- ▶ Front view showcasing that the tool is designed to not interfere during the machining process of the workpiece.

Face Grooving Tool

Type	Item number	D	Minimum Diameter	FC	W	R	L1	L2	Y	Chipbreaker	Reference Plane (Degree)	Coating Type
Type 1	D605V-R03-L1.6-1B25	6	7.0	0.25	0.5	0.03	1.6	10	8.4	✓	0	TiN
	D610V-R10-L4-1B25	6	8.0	0.5	1.0	0.1	4	10	6	✓	0	TiN
	D615V-R15-L6-1B25	6	9.0	0.75	1.5	0.15	6	12	6	✓	0	TiN
	D620V-R20-L8-1B25	6	10.0	1.0	2.0	0.2	8	15	7	✓	0	TiN
Type 2	D605RV-R03-L1.2-1B25	6	7.0	2.9	0.5	0.03	1.2	15	4	✓	0	TiN
	D610RV-R10-L1.5-1B25	6	8.0	2.9	1.0	0.1	1.5	15	4	✓	0	TiN
	D615RV-R15-L2.5-1B25	6	9.0	2.9	1.5	0.15	2.5	15	4	✓	0	TiN
	D620RV-R20-L3-1B25	6	10.0	2.9	2.0	0.2	3	15	4	✓	0	TiN
Type 3	D605LV-R03-L1.2-1B25	6	7.0	2.9	0.5	0.03	1.2	15	4	✓	0	TiN
	D610LV-R10-L1.5-1B25	6	8.0	2.9	1.0	0.1	1.5	15	4	✓	0	TiN
	D615LV-R15-L2.5-1B25	6	9.0	2.9	1.5	0.15	2.5	15	4	✓	0	TiN
	D620LV-R20-L3-1B25	6	10.0	2.9	2.0	0.2	3	15	4	✓	0	TiN

►► Above item numbers are 0 degree reference plane, V breaker groove, and TiN coating. Please inform us if need 180 reference plane, flat, uncoated or S-Fire coating.

Round Face Grooving Tool NEW

▶▶ Specification Tool Range

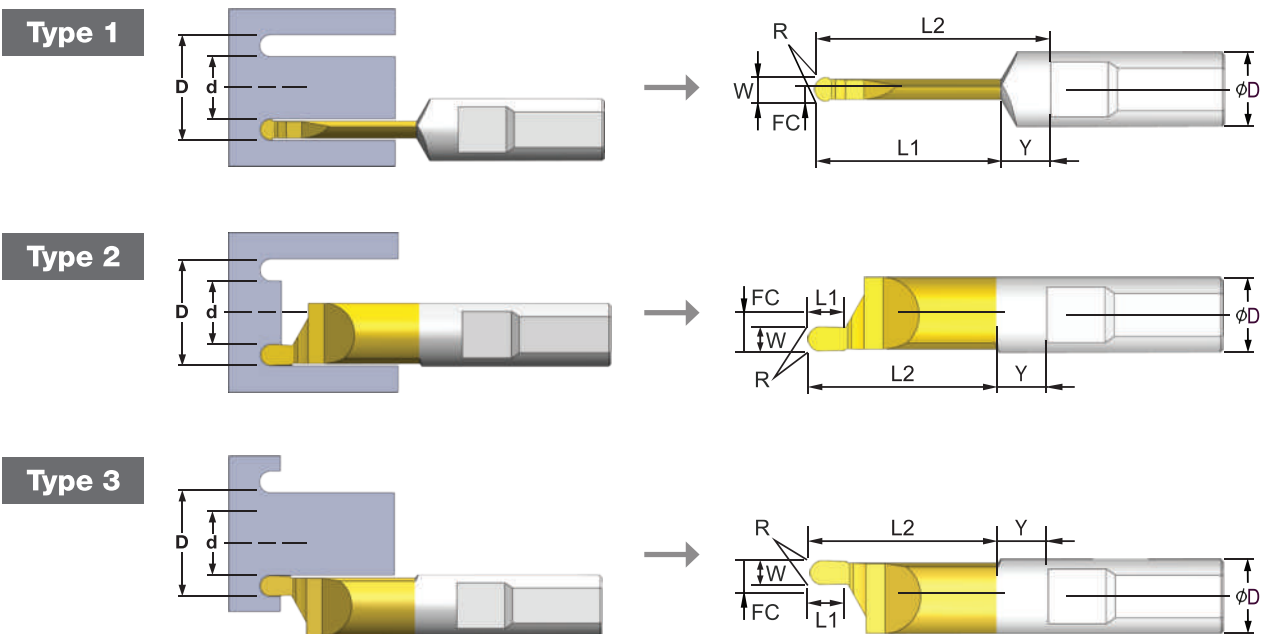
0.2mm~ 8mm. Tungsten carbide materials are imported from Europe and Japan.

▶▶ Feature

Machined workpiece aperture > $\Phi 6$, suitable for difficult-to-cut materials, applicable for rough and finish turning.

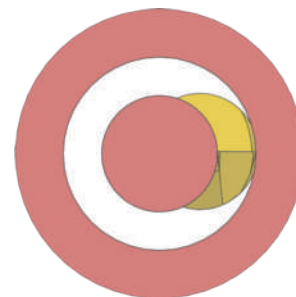
▶▶ Remark

Coated by imported equipment.



Tool Numbering : 3□☆○

- 3 : Multiples of F
- : Chipbreaker Type
V=Breaker Groove
P=Flat
- ☆ : Reference Plane
1=0°
3=180°
- : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



- ▶▶ Front view showcasing that the tool is designed to not interfere during the machining process of the workpiece.

Round Face Grooving Tool NEW

Type	Item number	D	Minimum Diameter	FC	W	R	L1	L2	Y	Chipbreaker	Reference Plane (Degree)	Coating Type
Type 1	DQ605V-R25-L1.6-1B25	6	7.0	0.25	0.5	0.25	1.6	10	8.4	✓	0	TiN
	DQ610V-R50-L4-1B25	6	8.0	0.5	1.0	0.5	4	10	6	✓	0	TiN
	DQ615V-R75-L6-1B25	6	9.0	0.75	1.5	0.75	6	12	6	✓	0	TiN
	DQ620V-R100-L8-1B25	6	10.0	1.0	2.0	1.0	8	15	7	✓	0	TiN
Type 2	DQ605RV-R25-L1.2-1B25	6	7.0	2.9	0.5	0.25	1.2	15	4	✓	0	TiN
	DQ610RV-R50-L1.5-1B25	6	8.0	2.9	1.0	0.5	1.5	15	4	✓	0	TiN
	DQ615RV-R75-L2.5-1B25	6	9.0	2.9	1.5	0.75	2.5	15	4	✓	0	TiN
	DQ620RV-R100-L3-1B25	6	10.0	2.9	2.0	1.0	3	15	4	✓	0	TiN
Type 3	DQ605LV-R25-L1.2-1B25	6	7.0	2.9	0.5	0.25	1.2	15	4	✓	0	TiN
	DQ610LV-R50-L1.5-1B25	6	8.0	2.9	1.0	0.5	1.5	15	4	✓	0	TiN
	DQ615LV-R75-L2.5-1B25	6	9.0	2.9	1.5	0.75	2.5	15	4	✓	0	TiN
	DQ620LV-R100-L3-1B25	6	10.0	2.9	2.0	1.0	3	15	4	✓	0	TiN

►► Above item numbers are 0 degree reference plane, V breaker groove, and TiN coating. Please inform us if need 180 reference plane, flat, uncoated or S-Fire coating.

D Tool

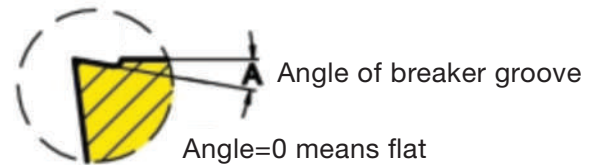
Face Grooving Tool (Customized)

Specification Tool Range

0.2mm~ 8mm. Tungsten carbide materials are imported from Europe and Japan.

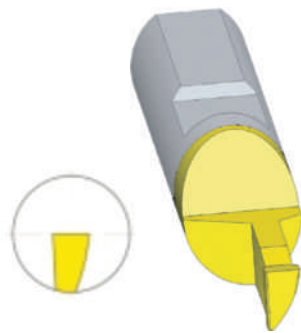
Feature

General and heavy-duty type.

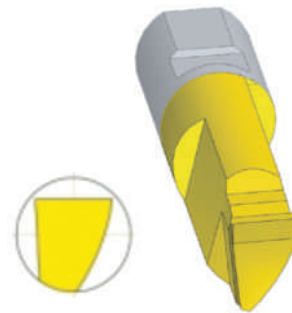


Remark

We provide over 3000 type of customized face grooving tools and over 95% success cases.

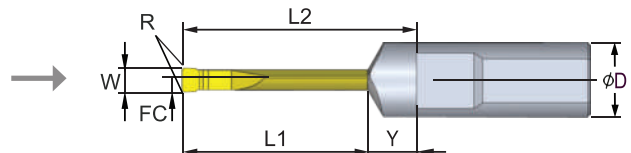
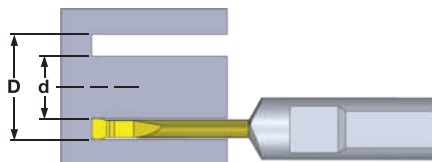


General Type

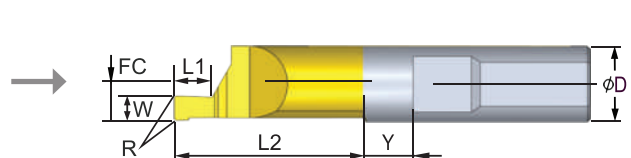
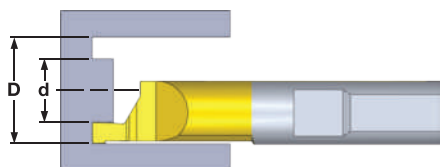


Heavy-duty Type

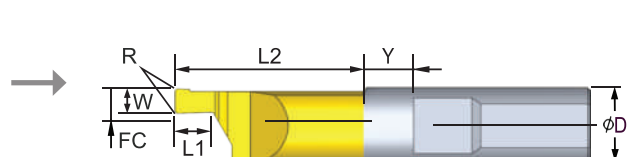
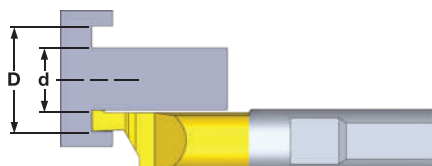
Type 1



Type 2



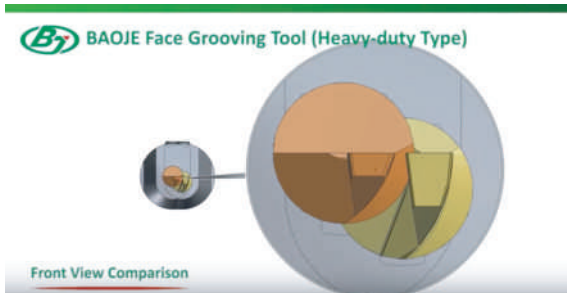
Type 3



- ▶ We do customize face grooving tool with the above tool every dimensions including FC / L1 / L2 / W / ØD / Tip Radius, according to your requirement.

Face Grooving Tool (Customized)

Videos Introduction



Revealing the Design of
BAOJE Face Grooving
Tool (Heavy-duty Type)

◀ View Full Video on YouTube



Innovative Applications of
Special Face Grooving
Tool

◀ View Full Video on YouTube

Cases



H Tool (T)

Through Coolant - T Tool NEW

Overview

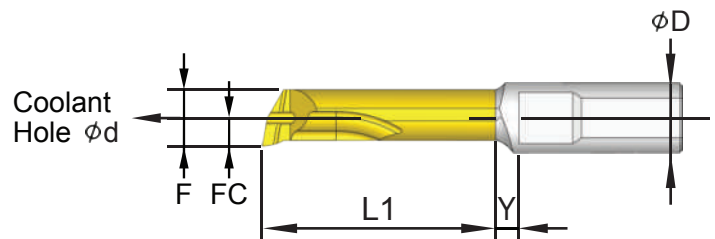
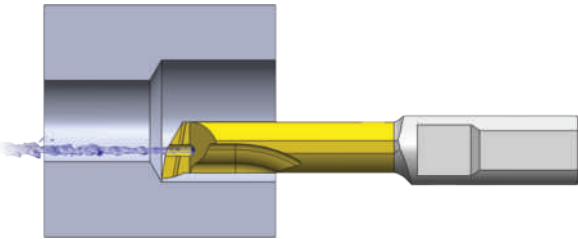
Tungsten carbide with coolant through the center, enhancing cooling and chip removal functions.

Feature

Overcomes blind hole machining challenges and resolves chip adhesion issues.

Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- | 3 : Multiples of F
- | □ : Chipbreaker Type
V=Breaker Groove
P=Flat
- | ☆ : Reference Plane
1=0°
3=180°
- | ○ : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



V Breaker Groove / Reference Plane **0°**

H Tool (T)

Through Coolant - T Tool NEW

Item Number	D	Minimum Diameter	F	FC	R	Multiples	L1	L2	Y	Coolant Hole	Chipbreaker	Reference Plane (Degree)	Coating Type
T418-6LV1B2-R05-5H	4	2.0	1.8	0.9	0.05	3	6	7	4	0.5	✓	0	TiN
T418-10LV1B2-R05-5H						5	10	12					
T429-3V1B2-5H	4	3.2	2.9	1.45	0.1	3	11	-	2	0.5	✓	0	TiN
T429-5V1B2-5H						5	18.0						
T439-3V1B2-5H	4	4.2	3.9	1.9	0.1	3	11	-	2	0.5	✓	0	TiN
T439-5V1B2-5H						5	18.0						
T649-3V1B2-5H	6	5.2	4.9	2.45	0.1	3	17	-	2	1.0	✓	0	TiN
T649-5V1B2-5H						5	28						
T659-3V1B2-5H	6	6.2	5.9	2.9	0.1	3	17	-	2	1.0	✓	0	TiN
T659-5V1B2-5H						5	28						

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and TiN coating. Please inform us if need 180 reference plane, flat, uncoated or S-Fire coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / ΦD / Tip Radius / Front angle, according to your requirement.
- ▶▶ Can manufacture inch dimension on request.

H Tool (UQ)

Through Coolant - UQ Tool NEW

Overview

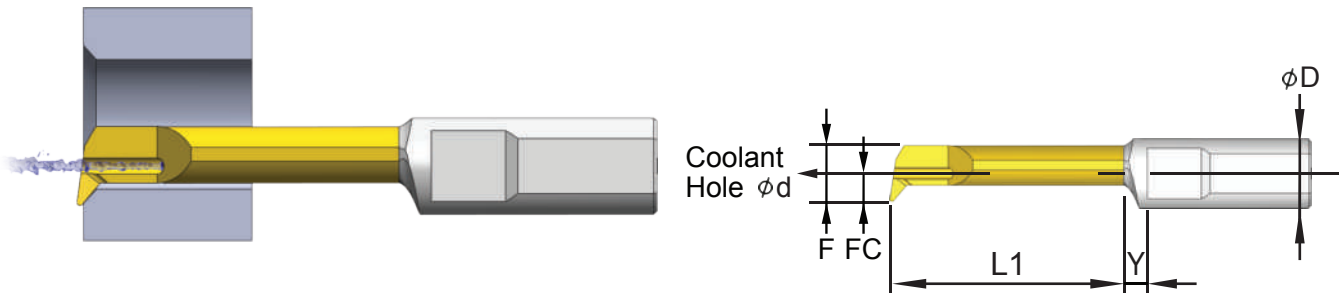
Tungsten carbide with coolant through the center, enhancing cooling and chip removal functions.

Feature

Overcomes blind hole machining challenges and resolves chip adhesion issues.

Remark

Coated by imported equipment.



Tool Numbering : 3 □ ☆ ○

- | 3 : Multiples of F
- | □ : Chipbreaker Type
V=Breaker Groove
P=Flat
- | ☆ : Reference Plane
1=0°
3=180°
- | ○ : Coating Type
0 =NO Coating
B2 =TiN Coating
A3 =TiAlN (S-Fire)
BX5=AlCrSiN Coating
B9 =DLC Coating



V Breaker Groove / Reference Plane **0°**

H Tool (UQ)

Through Coolant - UQ Tool NEW

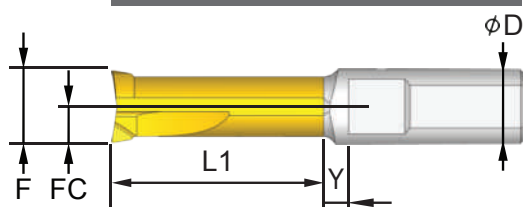
Item Number	D	Minimum Diameter	F	FC	R	Multiples	L1	L2	Y	Coolant Hole	Chipbreaker	Reference Plane (Degree)	Coating Type
UQ429-3V1B2-R20-5H	4	3.2	2.9	1.45	0.2	3	11	-	2	0.5	✓	0	TiN
UQ429-5V1B2-R20-5H						5	18						
UQ439-3V1B2-R20-5H	4	4.2	3.9	1.9	0.2	3	11	-	2	0.5	✓	0	TiN
UQ439-5V1B2-R20-5H						5	18						
UQ649-3V1B2-R20-5H	6	5.2	4.9	2.45	0.2	3	17	-	2	1.0	✓	0	TiN
UQ649-5V1B2-R20-5H						5	28						
UQ659-3V1B2-R20-5H	6	6.2	5.9	2.9	0.2	3	17	-	2	1.0	✓	0	TiN
UQ659-5V1B2-R20-5H						5	28						

- ▶▶ Above item numbers are 0 degree reference plane, V breaker groove, and TiN coating. Please inform us if need 180 reference plane, flat, uncoated or S-Fire coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / ΦD / Tip Radius / Front angle, according to your requirement.
- ▶▶ Can manufacture inch dimension on request.

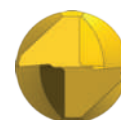
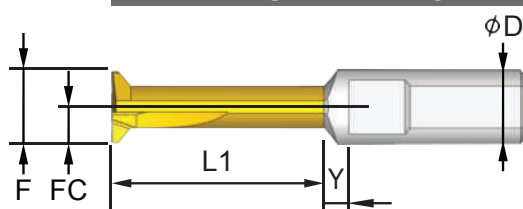
Double Cutting Edge (TT/UU/UQUQ) NEW

Double Cutting Edge Series

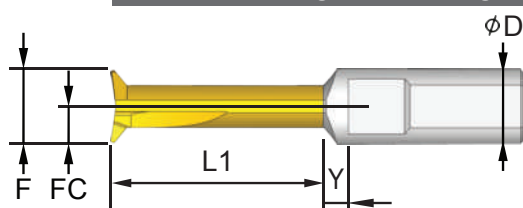
TT 10 Degree Turning Tool



UU 50 Degree Turning Tool



UQUQ 50 Degree Turning Tool (Radius Tip)



Feature

1. The world's first double edge internal boring tool with foolproof design, mirroring the economic model of double-edged inserts on the market.
2. Paired with a special tool holder for foolproof attachment.
3. ESG application reduces tungsten carbide consumption.

Usage

1. Recommended for holes larger than $\phi 10\text{mm}$.
 2. Best used with high-pressure oil equipment.
- Combining these methods prevents chip entanglement and tool edge damage.

Tool Numbering : 3UY○

3 : Multiples of F

U=Chip Groove

Y=Special Reference Plane

○ : Coating Type

0 =NO Coating

B2 =TiN Coating

A3 =TiAlN (S-Fire)

BX5 =AlCrSiN Coating

B9 =DLC Coating

Compatible with special reference tool holder models.

BJA-1905-06-95WBY

BJA-20-06-100WBY

BJA-22-06-110WBY

BJA-25-06-90WBY

BJA-254-06-90WBY

Double Cutting Edge (TT/UU/UQUQ) NEW

Item Number	D	Minimum Diameter	F	FC	R	Multiples	L1	L2	Y	DC Type	Chipbreaker	Special Reference Plane	Coating Type
TT658-3U1B2	6	10.0	5.8	2.9	0.1	3	17	-	2	TT	✓	Y	TiN
TT658-3U1B2-R20	6	10.0	5.8	2.9	0.2	3	17	-	2	TT	✓	Y	TiN
UU658-3U1B2	6	10.0	5.8	2.9	0.1	3	17	-	2	UU	✓	Y	TiN
UQUQ658-3U1B2	6	10.0	5.8	2.9	0.2	3	17	-	2	UQUQ	✓	Y	TiN

- ▶▶ Above item numbers are 0 degree reference plane, U breaker groove, and TiN coating.
- ▶▶ We do customize the above tool every dimensions including F / FC / L1 / L2 / ΦD / Tip Radius / Front angle, according to your requirement.

Holders Classification

Holders Classification

D Type



Direct Toolholders

BJA

B Type



Butterfly Toolholders

**BJMA (STAR)
BJJ (STAR)
BJR (STAR)
BJN (NOMURA)**

F Type



Flash Toolholders

**BJZ
BJZN (NOMURA)**

S Type



Special Toolholders

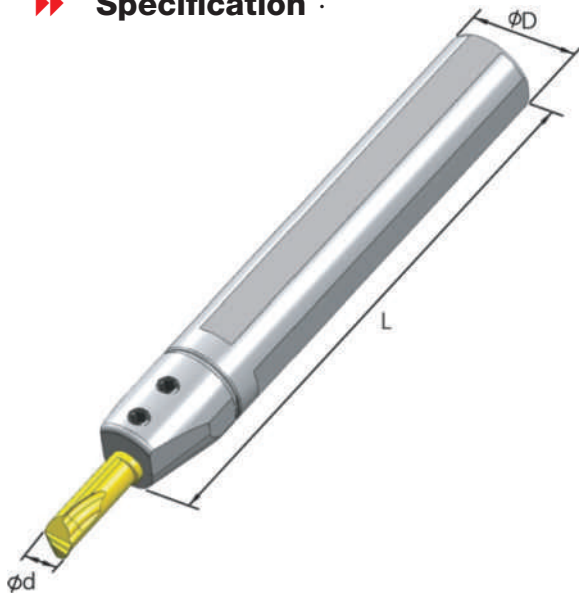
**Customized
upon request**



D Type Toolholder Series

Direct Toolholder (D Type)

►► Specification :



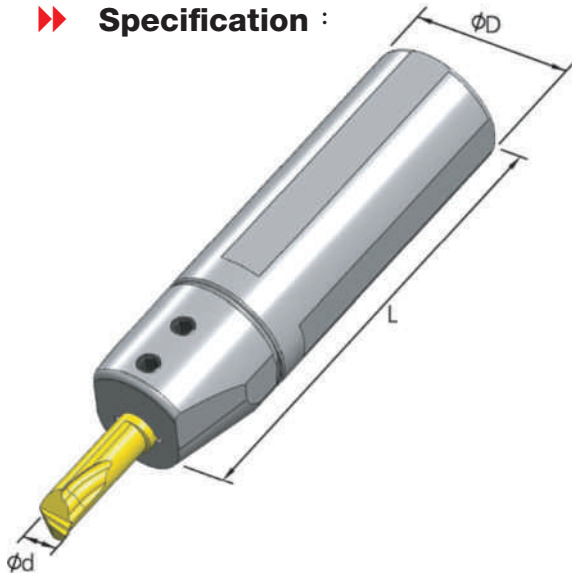
Item Number	Specification ØD	Ød	L	Coolant Port
BJA-12-03-70WB		3		
BJA-12-04-70WB	12	4	70	1/16"
BJA-12-05-70WB		5		
BJA-12-06-70W		6		
BJA-16-03-100WB		3		
BJA-16-04-100WB	16	4	100	1/8"
BJA-16-05-100WB		5		
BJA-16-06-100WB		6		
BJA-17-03-100WB		3		
BJA-17-04-100WB	17	4	100	1/8"
BJA-17-05-100WB		5		
BJA-17-06-100WB		6		
BJA-1905-03-70WB		3		
BJA-1905-04-70WB		4		
BJA-1905-05-70WB	19.05	5	70	1/4"
BJA-1905-06-70WB		6		
BJA-1905-08-70WB		8		
BJA-1905-03-95WB		3		
BJA-1905-04-95WB		4		
BJA-1905-05-95WB	19.05	5	95	1/4"
BJA-1905-06-95WB		6		
BJA-1905-08-95WB		8		

Quick Change Tool for first-timer and customized upon your request.

D Type Toolholder Series

Direct Toolholder (D Type)

►► Specification :



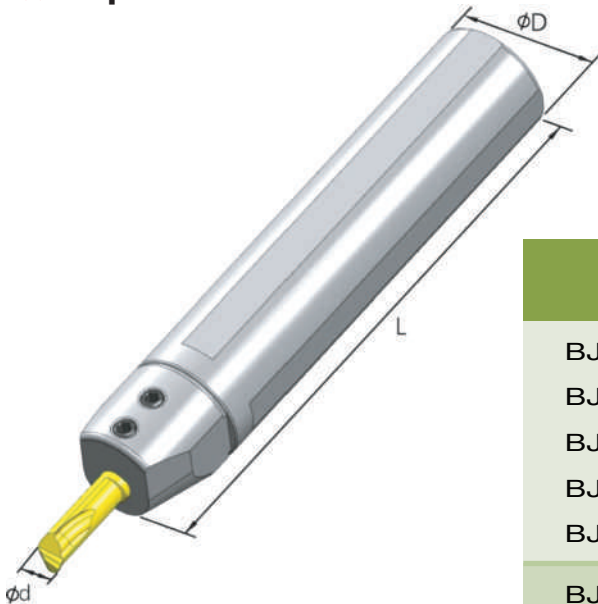
Item Number	Specification			Coolant Port
ØD	Ød	L		
BJA-20-03-70WB	3			
BJA-20-04-70WB	4			
BJA-20-05-70WB	20	5	70	1/4"
BJA-20-06-70WB	6			
BJA-20-08-70WB	8			
BJA-20-03-100WB	3			
BJA-20-04-100WB	4			
BJA-20-05-100WB	20	5	100	1/4"
BJA-20-06-100WB	6			
BJA-20-08-100WB	8			
BJA-20-03-150WB	3			
BJA-20-04-150WB	4			
BJA-20-05-150WB	20	5	150	1/4"
BJA-20-06-150WB	6			
BJA-20-08-150WB	8			

Quick Change Tool for first-timer and customized upon your request.

D Type Toolholder Series

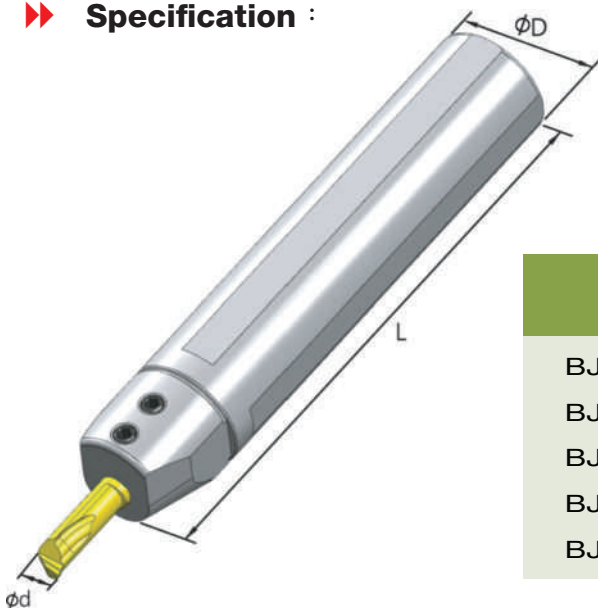
Direct Toolholder (D Type)

►► Specification :



Item Number	Specification			Coolant Port
	ϕD	ϕd	L	
BJA-22-03-110WB		3		
BJA-22-04-110WB		4		
BJA-22-05-110WB	22	5	110	1/4"
BJA-22-06-110WB		6		
BJA-22-08-110WB		8		
BJA-22-03-150WB		3		
BJA-22-04-150WB		4		
BJA-22-05-150WB	22	5	150	1/4"
BJA-22-06-150WB		6		
BJA-22-08-150WB		8		

►► Specification :



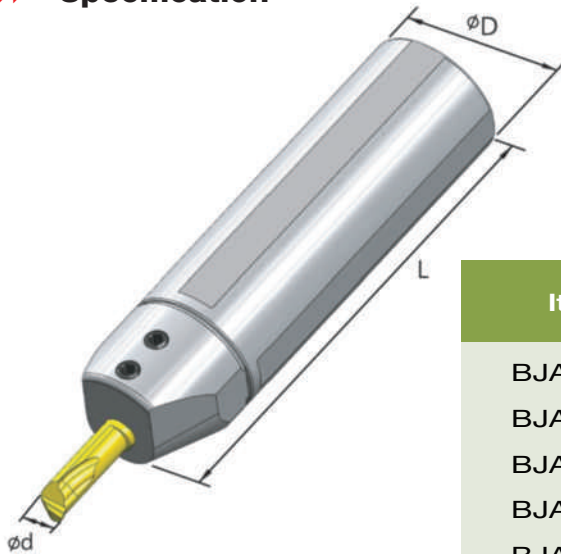
Item Number	Specification			Coolant Port
	ϕD	ϕd	L	
BJA-23-03-110WB		3		
BJA-23-04-110WB		4		
BJA-23-05-110WB	23	5	110	1/4"
BJA-23-06-110WB		6		
BJA-23-08-110WB		8		

Quick Change Tool for first-timer and customized upon your request.

D Type Toolholder Series

Direct Toolholder (D Type)

►► Specification :



Item Number	Specification ØD	Ød	L	Coolant Port
BJA-25-03-90WB		3		
BJA-25-04-90WB		4		
BJA-25-05-90WB	25	5	90	1/4"
BJA-25-06-90WB		6		
BJA-25-08-90WB		8		
BJA-25-03-150WB		3		
BJA-25-04-150WB		4		
BJA-25-05-150WB	25	5	150	1/4"
BJA-25-06-150WB		6		
BJA-25-08-150WB		8		
BJA-254-03-90WB		3		
BJA-254-04-90WB		4		
BJA-254-05-90WB	25.4	5	90	1/4"
BJA-254-06-90WB		6		
BJA-254-08-90WB		8		
BJA-254-03-150WB		3		
BJA-254-04-150WB		4		
BJA-254-05-150WB	25.4	5	150	1/4"
BJA-254-06-150WB		6		
BJA-254-08-150WB		8		

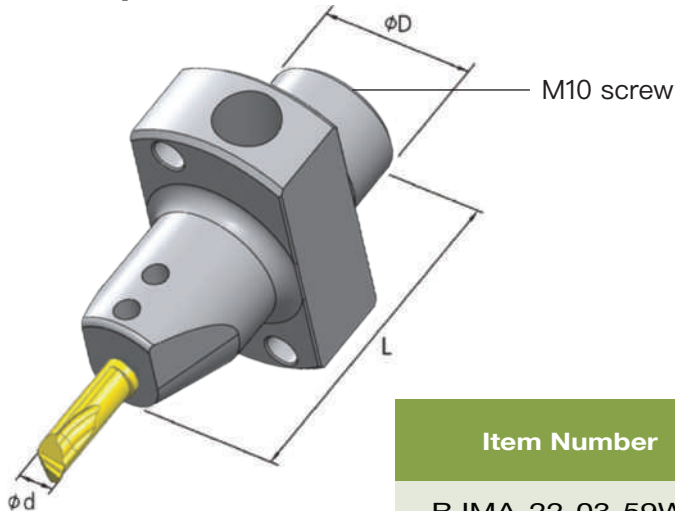
Quick Change Tool for first-timer and customized upon your request.



B Type Toolholder Series

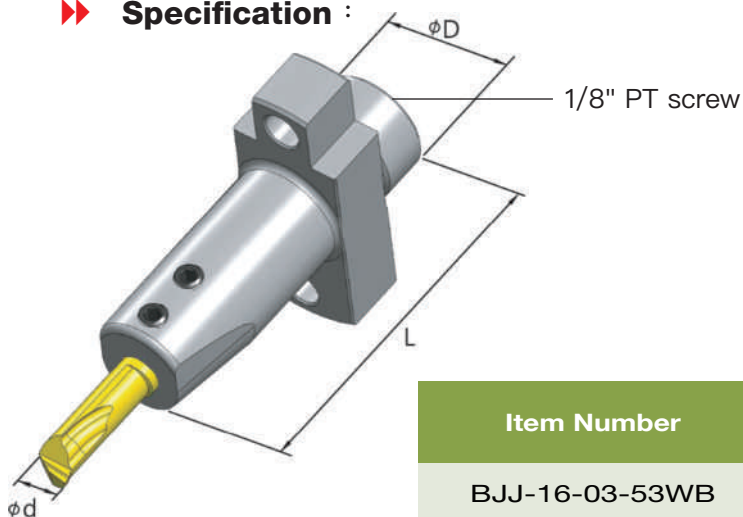
Butterfly Toolholder (B Type)

►► Specification :



Item Number	Specification			Type of Machine	Coolant Port
ϕD	ϕd	L			
BJMA-22-03-59WB	3				
BJMA-22-04-59WB	4				
BJMA-22-05-59WB	22	5	59	STAR	1/8"
BJMA-22-06-59WB	6				
BJMA-22-08-59WB	8				

►► Specification :



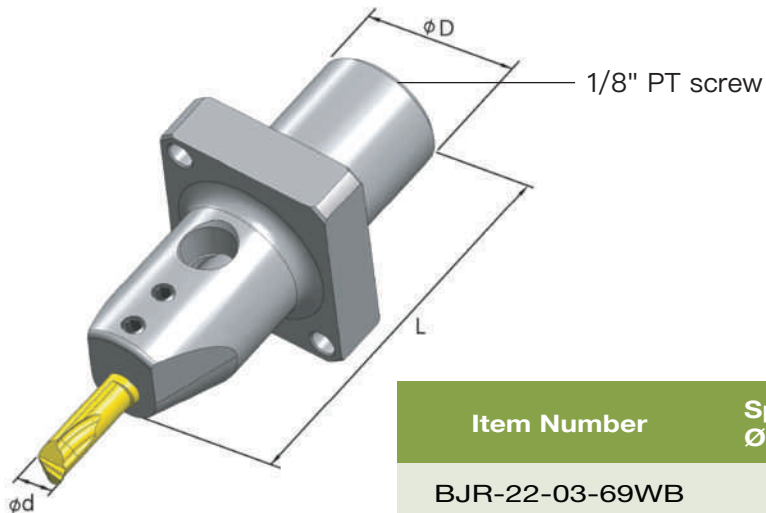
Item Number	Specification			Type of Machine	Coolant Port
ϕD	ϕd	L			
BJJ-16-03-53WB	3				
BJJ-16-04-53WB	4				
BJJ-16-05-53WB	16	5	53	STAR 10J	1/16"
BJJ-16-06-53WB	6				

Quick Change Tool for first-timer and customized upon your request.

B Type Toolholder Series

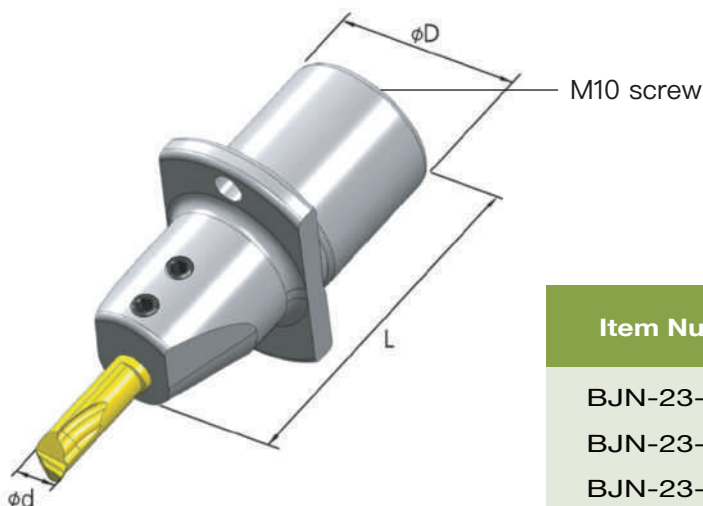
Butterfly Toolholder (B Type)

►► Specification :



Item Number	Specification			Type of Machine	Coolant Port
	ϕD	ϕd	L		
BJR-22-03-69WB		3			
BJR-22-04-69WB		4			
BJR-22-05-69WB	22	5	69	STAR 20RIV	1/8"
BJR-22-06-69WB		6			
BJR-22-08-69WB		8			

►► Specification :



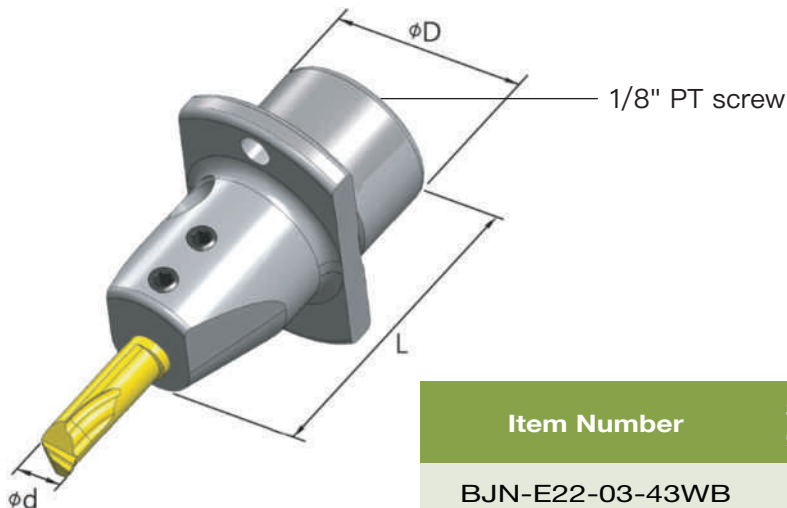
Item Number	Specification			Type of Machine
	ϕD	ϕd	L	
BJN-23-03-53		3		
BJN-23-04-53		4		
BJN-23-05-53	23	5	53	NOMURA
BJN-23-06-53		6		
BJN-23-08-53		8		

Quick Change Tool for first-timer and customized upon your request.

B Type Toolholder Series

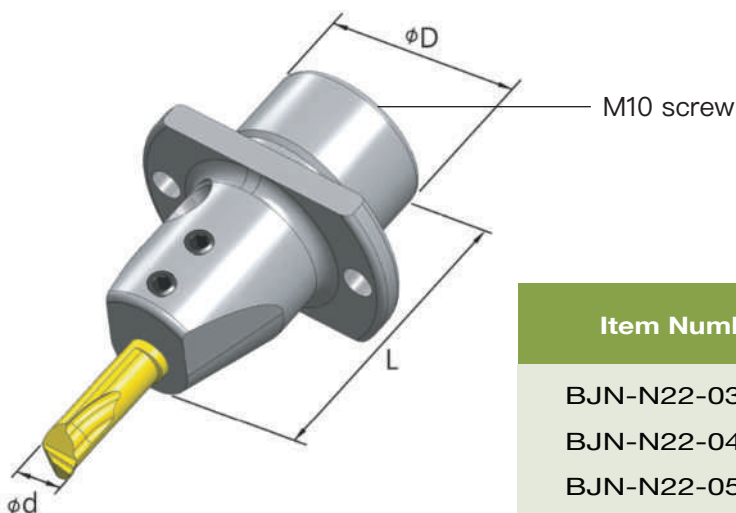
Butterfly Toolholder (B Type)

►► Specification :



Item Number	Specification			Type of Machine	Coolant Port
ϕD	ϕd	L			
BJN-E22-03-43WB	3				
BJN-E22-04-43WB	4				
BJN-E22-05-43WB	22	5	43	NOMURA	1/16"
BJN-E22-06-43WB	6				
BJN-E22-08-43WB	8				

►► Specification :



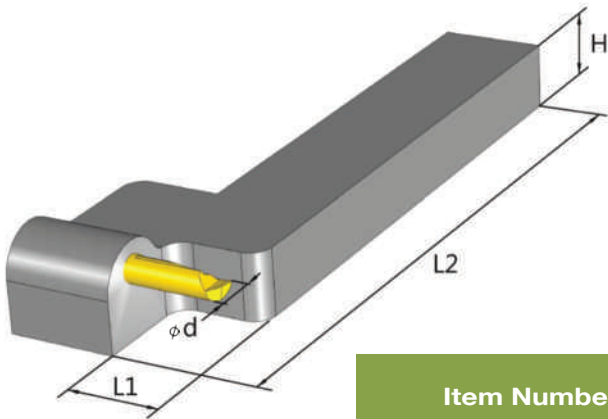
Item Number	Specification			Type of Machine
ϕD	ϕd	L		
BJN-N22-03-43B	3			
BJN-N22-04-43B	4			
BJN-N22-05-43B	22	5	43	NOMURA
BJN-N22-06-43B	6			
BJN-N22-08-43B	8			

Quick Change Tool for first-timer and customized upon your request.

F Type Toolholder Series

Flash Toolholder (F Type)

►► Specification :



Item Number	H	Specification			Type of Machine
		Ød	L1	L2	
BJZ-10-03-4	10	3	13.4	100	General
BJZ-10-04-4		4	16.5		
BJZ-12-03-4		3	13.4		
BJZ-12-04-4	12	4	16.5	100	
BJZ-12-05-4		5	21		
BJZN-10-03-4	10	3	13.4	100	NOMURA
BJZN-10-04-4		4	16.5		
BJZN-12-03-4	12	3	13.4	100	
BJZN-12-04-4		4	16.5		
BJZN-12-05-4		5	21		

Quick Change Tool for first-timer and customized upon your request.



S Type Toolholder Series

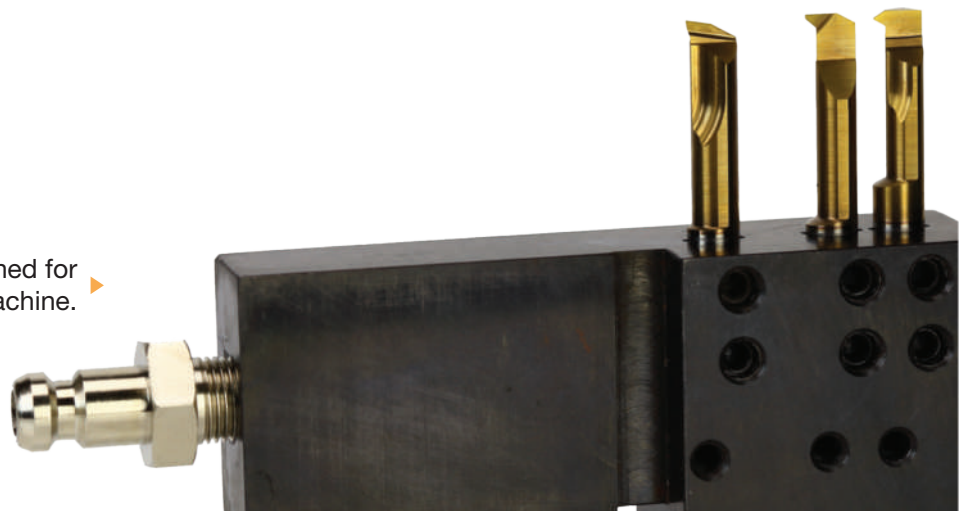
Special Toolholder (S Type)

►► Specification :

Based on your machine type, we can design customized holders to meet your demand.



This is a holder designed for use in multi-axis lathe machine. ►



Quick Change Tool for first-timer and customized upon your request.

BJ Torque Screwdriver Kits

■ Introduction: BJ Torque Screwdriver

In order to standardize the cutting tool tightening, Baoje systematic cutting tools introduce a torque screwdriver to tighten the cutting tool. For Baoje cutting tool shank different diameters of Ø3, Ø4, Ø5, Ø6, Ø8, different torque screwdrivers are used to tighten the cutting tool. There is a cue sound feature, when the preset torque is reached, a Click sound will be made, which can prevent the operator from using excessive force to break the cutting tool and increase the stability of the cutting tool tightening.

Baoje torque screwdriver is assembled with three parts. First part is the screwdriver handle, which is suitable for various torque applications; the second part is the preset torque adapter. We made different preset torque adapters according to different Baoje cutting tool shank diameters of Ø3, Ø4, Ø5, Ø6, Ø8. And there are color management and important lasered information on the adapter to prevent operator making mistakes; Third part is the screwdriver bit. The screw specifications on the Baoje toolholder are mainly M4 and M5. The required screwdriver bit specifications are H2.0 and H2.5. In addition, we also provide TX8, TX9, TX10, TX15. These screwdriver bit allows customers to tighten the CNC inserts. These three parts can be replaced flexibly, which is very convenient and safe for the operator.

■ BJ Torque Screwdriver Features



Quick and Flexible
Interchangeable



Reversible
Loosen System



Click Sound



Cutting Tool Tightening
Standardization

■ Introduction: BJ Torque Screwdriver Kit

Baoje systematic cutting tool made five kits for preset torque adapter and bits according to different Baoje cutting tool shank diameters of Ø3, Ø4, Ø5, Ø6, and Ø8 for customers to choose. Torque screwdriver is assembled with three parts.

▶▶ First Part

First part is the screwdriver handle, which is suitable for various torque applications.

▶▶ Second Part

The second part is the preset torque adapter. We made different preset torque adapters according to different Baoje cutting tool shank diameters of Ø3, Ø4, Ø5, Ø6, Ø8. Torque adapter has a cue sound feature, when the preset torque is reached will make a click sound continuously. And there are color management and important lasered information on the adapter to prevent operator making mistakes.

▶▶ Third Part

Third part is the screwdriver bit. The screw specifications on the Baoje toolholder are mainly M4 and M5. The required screwdriver bit specifications are H2.0 and H2.5. In addition, we also provide TX8, TX9, TX10, TX15. These screwdriver bit allows customers to tighten the CNC inserts. These three parts can be replaced flexibly, which is very convenient and safe for the operator, special attention should be paid to when assembling the bit, it is necessary to assemble the corresponding torque adapter, because the smaller specification bit cannot withstand the heavier torque adapter, will easy damage the bit and may cause the bit to fall off.



BJ Torque Screwdriver Kits

BJ Torque Screwdriver Kit

BJ-TSD-NO-3

Handle	BJ-TRF * 1 pc
Adapter	BJ-ADA-NO-3 * 1 pc
Bit H2.0	1 pc
H2.5	2 pcs
TX	TX8 * 2 pcs



BJ-TSD-NO-4

Handle	BJ-TRF * 1 pc
Adapter	BJ-ADA-NO-4 * 1 pc
Bit H2.0	1 pc
H2.5	2 pcs
TX	TX9 * 2 pcs



BJ-TSD-NO-5

Handle	BJ-TRF * 1 pc
Adapter	BJ-ADA-NO-5 * 1 pc
Bit H2.0	1 pc
H2.5	2 pcs
TX	TX10 * 2 pcs



BJ-TSD-NO-6

Handle	BJ-TRF * 1 pc
Adapter	BJ-ADA-NO-6 * 1 pc
Bit H2.0	0
H2.5	3 pcs
TX	TX15 * 2 pcs



BJ Torque Screwdriver Kits

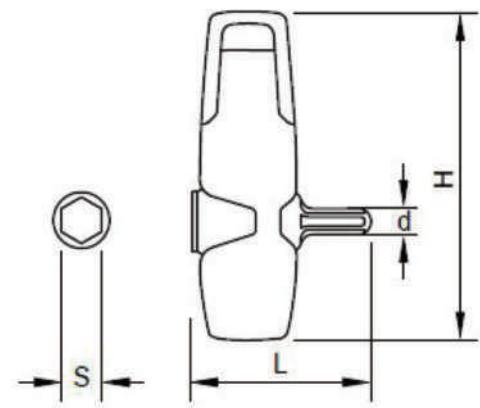
BJ-TSD-NO-8

Handle	BJ-TRF * 1 pc
Adapter	BJ-ADA-NO-8 * 1 pc
Bit H2.0	0
H2.5	3 pcs
TX	TX15 * 2 pcs



BJ Torque Screwdriver Handle

▶▶ Handle item number: BJ-TRF



Item No.	Color	S	L	H	d	N.W.
BJ-TRF	Red	6.35	70.7	37.5	5	25g

BJ Torque Screwdriver Kits

Adapter of Torque Screwdriver Characteristic



Reversible
Loosening System



Torque Adapter
Can Tighten
About 20,000 Times



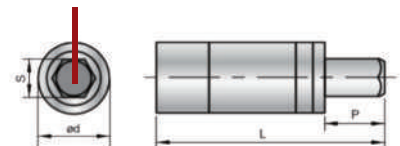
Torque Adapter
Torque Value Is
With A Tolerance
of +/- 10%



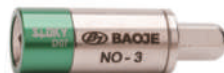
Magnet
Adsorption Design

Please pay special attention: Baoje provided 5 types of torque adapters have different torque values. Each torque adapter needs to be used with a suitable screwdriver bit to avoid damage to the screw or screwdriver bit.

Installed with magnet



BJ-ADA-NO-3 /



Item No.	Suit for BAOJE Tool	Suit for BIT	Nm	Ød	S	P	L	N.W	Contents
BJ-ADA-NO-3	Ø3	H2.0 / H2.5 / TX8	1.2	12	6.35	10	37	80g	1 pc

BJ-ADA-NO-4 /



Item No.	Suit for BAOJE Tool	Suit for BIT	Nm	Ød	S	P	L	N.W	Contents
BJ-ADA-NO-4	Ø3 / Ø4	H2.0 / H2.5 / TX9	1.4	12	6.35	10	37	80g	1 pc

BJ-ADA-NO-5 /



Item No.	Suit for BAOJE Tool	Suit for BIT	Nm	Ød	S	P	L	N.W	Contents
BJ-ADA-NO-5	Ø5 / Ø6	H2.0 / H2.5 / TX10	2.0	12	6.35	10	37	80g	1 pc

BJ Torque Screwdriver Kits

BJ-ADA-NO-6 /



Item No.	Suit for BAOJE Tool	Suit for BIT	Nm	Ød	S	P	L	N.W	Contents
BJ-ADA-NO-6	Ø5 / Ø6	H2.5 / TX15	3.0	12	6.35	10	37	80g	1 pc

- ▶▶ Please pay special attention: Baoje torque adapter BJ-ADA-NO-6 do not install with the BJ-BIT50-H2.0 screwdriver bit to tighten the M4 screw, because the torque value is too large that might cause the screw and the bit damaged.

BJ-ADA-NO-8 /



Item No.	Suit for BAOJE Tool	Suit for BIT	Nm	Ød	S	P	L	N.W	Contents
BJ-ADA-NO-8	Ø8	H2.5 / TX15	3.5	12	6.35	10	37	80g	1 pc

- ▶▶ Please pay special attention: Baoje torque adapter BJ-ADA-NO-8 do not install with the BJ-BIT50-H2.0 screwdriver bit to tighten the M4 screw, because the torque value is too large that might cause the screw and the bit damaged.

Bits for Torque Screwdriver Characteristic



Hex Screwdriver
Bits Can Tighten
BJ Toolholder M4
and M5 Screws



TX Screwdriver
Bits Can
Tighten CNC
Inserts Screw



Simple
Operation



Magnetic
Design

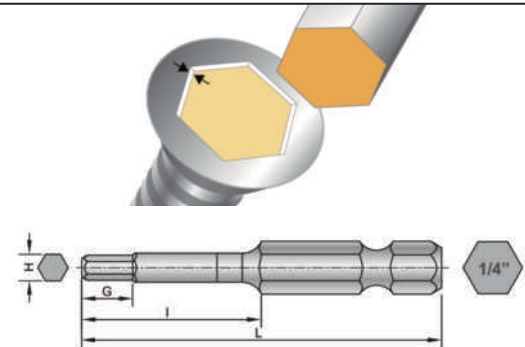


Screwdriver
Bit Is Not Loosen
During Operation

Please pay special attention: When using the screwdriver bit, it is important to note that the screwdriver bit and screw with relatively small specifications are not suitable for the use of torque adapter with large torque value, because excessive torque will easily damage the screwdriver bit and screw.

BJ Torque Screwdriver Kits

Product Specification - Hex Screwdriver Bit



BJ-BIT50-H2.0

Item No.	Driver Size	Suit for Screw	N.W	L	Contents
BJ-BIT50-H2.0	H2	M4	53g	50	6 pcs

- ▶▶ Baoje toolholder series that uses M4 screw: BJA-16, BJA-17, BJA-1905, BJA-23, BJA32, BJN-23, BJJ-16, BJR-22.
- ▶▶ Baoje torque adapters to be used with: BJ-ADA-NO-3, BJ-ADA-NO-4, BJ-ADA-NO-5.
- ▶▶ Please pay special attention: Baoje screwdriver bit BJ-BIT50-H2.0 can withstand maximum torque of 2.0 Nm, use Torque adapter torque value larger than 2.0 Nm will damage the screwdriver bit and the screw.

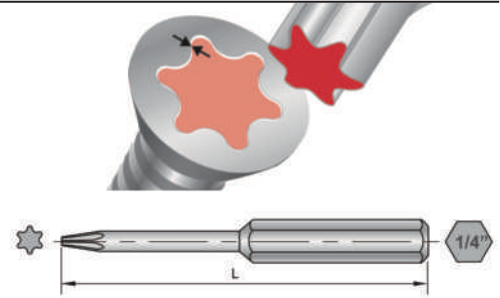
BJ-BIT50-H2.5

Item No.	Driver Size	Suit for Screw	N.W	L	Contents
BJ-BIT50-H2.5	H2.5	M5	58g	50	6 pcs

- ▶▶ Baoje toolholder series that uses M5 screw: BJA-20, BJA-22, BJA-25, BJA-254, BJMA-22.
- ▶▶ Baoje torque adapters to be used with: BJ-ADA-NO-3, BJ-ADA-NO-4, BJ-ADA-NO-5, BJ-ADA-NO-6, BJ-ADA-NO-8.

BJ Torque Screwdriver Kits

Product Specification - TORX® TX Screwdriver Bit



BJ-BIT50- TX8

Item No.	Driver Size	Suit for Screw	N.W	L	Contents
BJ-BIT50-TX8	TX8	TORX®	53g	50	6 pcs

▶▶ Baoje torque adapters to be used with: BJ-ADA-NO-3.

BJ-BIT50- TX9

Item No.	Driver Size	Suit for Screw	N.W	L	Contents
BJ-BIT50-TX9	TX9	TORX®	55g	50	6 pcs

▶▶ Baoje torque adapters to be used with: BJ-ADA-NO-4.

BJ-BIT50- TX10

Item No.	Driver Size	Suit for Screw	N.W	L	Contents
BJ-BIT50-TX10	TX10	TORX®	55g	50	6 pcs

▶▶ Baoje torque adapters to be used with: BJ-ADA-NO-5.

BJ-BIT50- TX15

Item No.	Driver Size	Suit for Screw	N.W	L	Contents
BJ-BIT50-TX15	TX15	TORX®	55g	50	6 pcs

▶▶ Baoje torque adapters to be used with: BJ-ADA-NO-6, BJ-ADA-NO-8.

BJ Torque Screwdriver Kits

BJ Toolholders

Screw Specifications Comparison Table

- ▶▶ Baoje toolholder screw specifications are M4 and M5, when toolholder uses M4 screw, then use H2.0 screwdriver bit, when toolholder uses M5 screw, then use H2.5 screwdriver bit.

BAOJE Toolholder Series	Screw
BJA-16	M4
BJA-17	M4
BJA-1905	M4
BJA-20	M5
BJA-22	M5
BJA-23	M4
BJA-25	M5
BJA-254	M5
BJA-32	M4
BJMA-22	M5
BJN-23	M4
BJJ-16	M4
BJR-22	M4 (old) / M5 (new)



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