

# 益詮切削刀具

ECHAINTOOL Cutting Tools  
ECHAINTOOL Cutting Tools  
ECHAINTOOL Cutting Tools



## CHAIN®



台灣精品 2008  
TAIWAN EXCELLENCE



設計優良產品  
GOOD DESIGN PRODUCT



第22屆小巨人獎  
The 32nd Hong Kong Award



第20屆中小企業  
品質優良獎  
The 20th Taiwan Quality  
Award



益及精工 中國一級代理  
Sunkyo Agent in China

## 微小徑內徑車刀系列

TINY CARBIDE BORING BAR SERIES



Our web

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Branch offices are located at Guangdong, Tainjin, Chongqing and Wuhan.

# ■ 微小徑內徑車刀

Tiny Carbide Boring Bar Series Index

適用於專業醫療設備、電子、化學及工業等  
精密細小零件之製造加工

Apply on manufacturing and processing of precision small parts such as professional medical equipment, electronics, chemicals and industry.













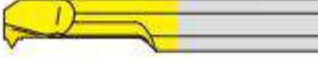

- ✓ 微小徑內徑鎢鋼車刀採用全鎢鋼刀體，有效抑制加工震動  
Tiny carbide boring bar adopts a full carbide cutter body to effectively suppress the processing vibration.
- ✓ 採用超細粒子硬質合金AlTiN塗層，增加刀具耐磨耗性  
Ultra-fine particle cemented carbide AlTiN coating for increased tool wearability.
- ✓ 微小徑設計有利於狹小孔徑空間工件之切槽、仿形及倒角等加工需求  
The micro-diameter design is beneficial to the processing requirements of cutting, copying and chamfering of workpieces in narrow apertures.
- ✓ 提供精確的加工精準度和良好表面光潔度  
Provides precise machining accuracy and good surface finish.

搭配 **SHB 專用套筒**  
With SHB Series Dedicated Sleeve

達到精確快速定位  
for precise and fast positioning



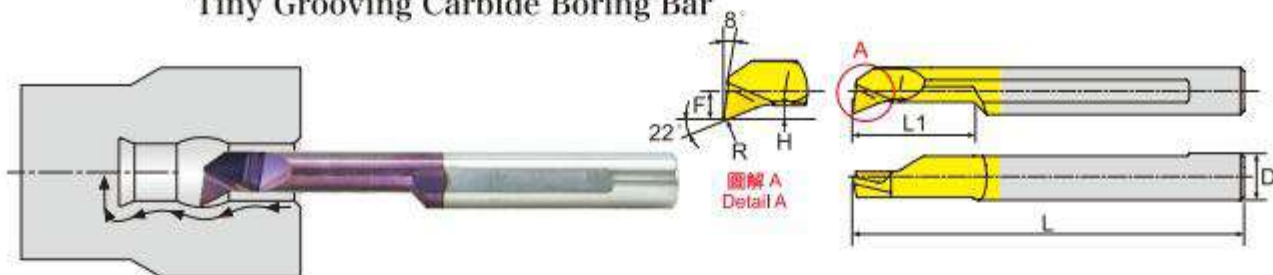
# 微小徑內徑車刀索引表 Tiny Carbide Boring Bar Series Index

產品 Product	柄徑 (D) Shank Dia.(mm)	加工徑 Min Bore Dia	塗層 Coating	頁碼 Page	
GP_R 	Ø3 Ø4 Ø5	Ø6 Ø8 Ø10	1~10.1	MG	4
GQ_R 	Ø4 Ø5 Ø6	Ø8	4.1~8.1	MG	5
GT_R 	Ø3 Ø4 Ø5	Ø6 Ø8 Ø10	1~10.1	MG	6
GU_R 	Ø3 Ø4 Ø5	Ø6 Ø8	3.1~8.1	MG	7
GX_R 	Ø4 Ø5 Ø6		3.1~6.1	MG	8
GW_R 	Ø6		1	MG	9
GV_R 	Ø6 Ø8		12~20	MG	10
GG_R 	Ø3 Ø4 Ø5	Ø6 Ø8	3.1~8.1	MG	11
GK_R 	Ø4 Ø5 Ø6		4.1~6.1	MG	12
GF_L 	Ø4 Ø5 Ø6	Ø8	5~10	MG	13
GF_R 	Ø4 Ø5 Ø6	Ø8	5~10	MG	14
GD_R 	Ø4 Ø5 Ø6		4.1~6.1	MG	15
GL_R 	Ø3 Ø4 Ø5	Ø6 Ø8	2.1~8	MG	16
GZ_R 	Ø4 Ø5 Ø6		5~8	MG	17



# GP\_R 微小徑內徑開槽鎢鋼車刀

## Tiny Grooving Carbide Boring Bar

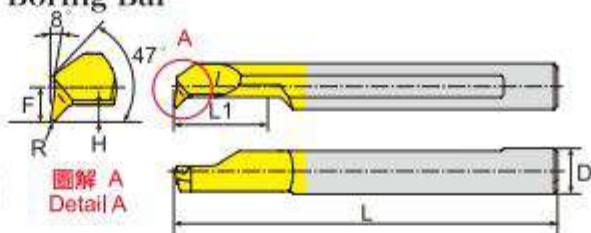
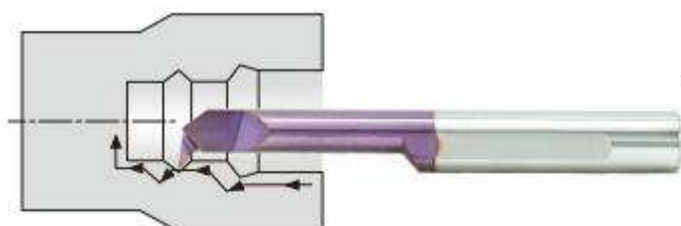


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GP1RL104R005	1	0.05	0.5	0.2	3	39	4
GP1.5RL106R01	1.5	0.1	0.7	0.3	3	39	6
GP2RL110R005	2.1	0.05	0.8	0.5	3	39	10
GP2RL110R01	2.1	0.1	0.8	0.5	3	39	10
GP2RL105R015	2.1	0.15	0.8	0.5	3	39	5
GP2RL110R015	2.1	0.15	0.8	0.5	3	39	10
GP3RL110R005	3.1	0.05	1.3	0.7	3	39	10
GP3RL115R005	3.1	0.05	1.3	0.7	3	39	15
GP3RL115R01	3.1	0.1	1.3	0.7	3	39	15
GP3RL122R01	3.1	0.1	1.3	0.7	3	50	22
GP3RL110R02	3.1	0.2	1.3	0.7	3	39	10
GP3RL115R02	3.1	0.2	1.3	0.7	3	39	15
GP3RL122R02	3.1	0.2	1.3	0.7	3	50	22
GP4RL115R01	4.1	0.1	1.7	0.8	4	50	15
GP4RL122R01	4.1	0.1	1.7	0.8	4	50	22
GP4RL110R02	4.1	0.2	1.7	0.8	4	50	10
GP4RL115R02	4.1	0.2	1.7	0.8	4	50	15
GP4RL122R02	4.1	0.2	1.7	0.8	4	50	22
GP5RL122R01	5.1	0.1	2.1	1.2	5	50	22
GP5RL130R01	5.1	0.1	2.1	1.2	5	75	30
GP5RL115R02	5.1	0.2	2.1	1.2	5	50	15
GP5RL122R02	5.1	0.2	2.1	1.2	5	50	22
GP5RL130R02	5.1	0.2	2.1	1.2	5	75	30
GP6RL115R02	6.1	0.2	2.8	1.4	6	50	15
GP6RL122R02	6.1	0.2	2.8	1.4	6	50	22
GP6RL130R02	6.1	0.2	2.8	1.4	6	75	30
GP8RL115R02	8.1	0.2	3.8	1.6	8	60	15
GP8RL122R02	8.1	0.2	3.8	1.6	8	60	22
GP8RL135R02	8.1	0.2	3.8	1.6	8	75	35
GP10RL135R02	10.1	0.2	4.8	2	10	75	35



# GQ\_R 微小徑內徑仿型 & 搪孔鎢鋼車刀

## Tiny Profiling & Boring Carbide Boring Bar



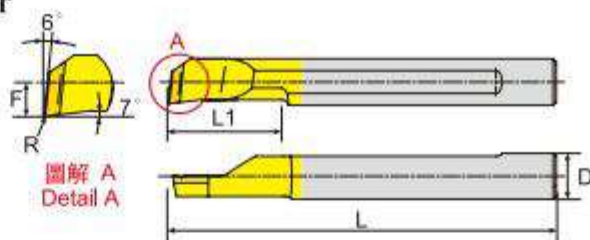
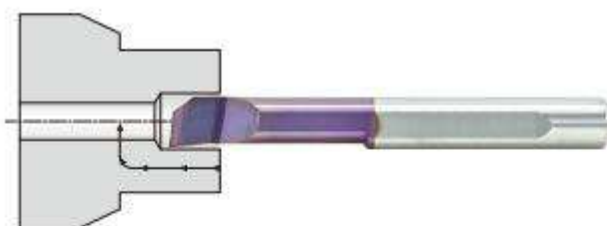
圖解 A  
Detail A

產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GQ4RL110R02	4.1	0.2	1.8	0.8	4	50	10
GQ4RL115R02	4.1	0.2	1.8	0.8	4	50	15
GQ4RL122R02	4.1	0.2	1.8	0.8	4	50	22
GQ5RL115R02	5.1	0.2	2.3	1	5	50	15
GQ5RL122R02	5.1	0.2	2.3	1	5	50	22
GQ6RL115R02	6.1	0.2	2.8	1.4	6	50	15
GQ6RL122R02	6.1	0.2	2.8	1.4	6	50	22
GQ6RL130R02	6.1	0.2	2.8	1.4	6	60	30
GQ8RL122R02	8.1	0.2	3.8	1.6	8	60	22
GQ8RL127R02	8.1	0.2	3.8	2	8	60	27



# GT\_R 微小徑內徑車削鎢鋼車刀

## Tiny Turning Carbide Boring Bar



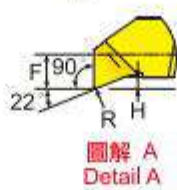
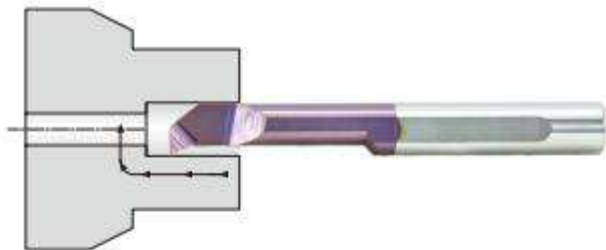
圖解 A  
Detail A



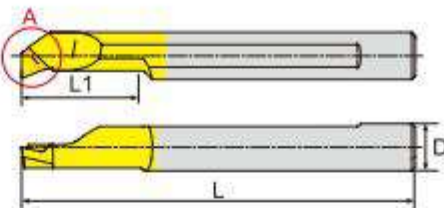
產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GT1RL104R005	1	0.05	0.5	3	39	4
GT1.5RL106R01	1.5	0.1	0.7	3	39	6
GT2RL110R005	2.1	0.05	0.8	3	39	10
GT2RL105R015	2.1	0.15	0.8	3	39	5
GT2RL110R015	2.1	0.15	0.8	3	39	10
GT3RL110R005	3.1	0.05	1.3	3	39	10
GT3RL115R005	3.1	0.05	1.3	3	39	15
GT3RL115R01	3.1	0.1	1.3	3	39	15
GT3RL110R02	3.1	0.2	1.3	3	39	10
GT3RL115R02	3.1	0.05	1.3	3	39	15
GT4RL115R005	4.1	0.05	1.7	4	50	15
GT4RL110R01	4.1	0.1	1.7	4	50	10
GT4RL115R01	4.1	0.1	1.7	4	50	15
GT4RL122R01	4.1	0.1	1.7	4	50	22
GT4RL110R02	4.1	0.2	1.7	4	50	10
GT4RL115R02	4.1	0.2	1.7	4	50	15
GT4RL122R02	4.1	0.2	1.7	4	50	22
GT5RL115R005	5.1	0.05	2.1	5	50	15
GT5RL115R01	5.1	0.1	2.1	5	50	15
GT5RL122R01	5.1	0.1	2.1	5	50	22
GT5RL130R01	5.1	0.1	2.1	5	75	30
GT5RL115R02	5.1	0.2	2.1	5	50	15
GT5RL122R02	5.1	0.2	2.1	5	50	22
GT5RL130R02	5.1	0.2	2.1	5	75	30
GT6RL115R005	6.1	0.05	2.8	6	50	15
GT6RL115R01	6.1	0.1	2.8	6	50	15
GT6RL115R02	6.1	0.2	2.8	6	50	15
GT6RL122R02	6.1	0.2	2.8	6	50	22
GT6RL130R02	6.1	0.2	2.8	6	60	30
GT6RL135R02	6.1	0.2	2.8	6	75	35
GT8RL115R02	8.1	0.2	3.8	8	60	15
GT8RL122R02	8.1	0.2	3.8	8	60	22
GT8RL135R02	8.1	0.2	3.8	8	75	35
GT10RL135R02	10.1	0.2	4.8	10	75	35

# GU\_R 微小徑內徑90°仿型鎢鋼車刀

## Tiny 90° Profiling Carbide Boring Bar



圖解 A  
Detail A

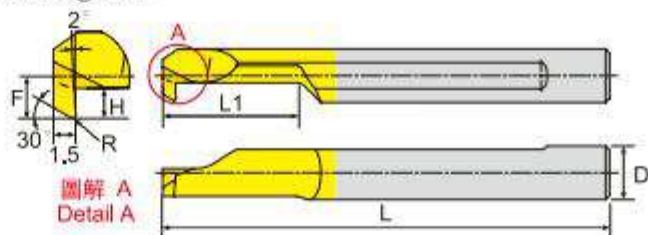


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GU3RL110R005	3.1	0.05	1.3	0.4	3	39	10
GU3RL115R005	3.1	0.05	1.3	0.4	3	39	15
GU4RL110R01	4.1	0.1	1.7	0.5	4	50	10
GU4RL115R01	4.1	0.1	1.7	0.5	4	50	15
GU5RL115R015	5.1	0.15	2.1	0.7	5	50	15
GU5RL122R015	5.1	0.15	2.1	0.7	5	50	22
GU6RL115R015	6.1	0.15	2.8	0.9	6	50	15
GU6RL122R015	6.1	0.15	2.8	0.9	6	50	22
GU8RL122R02	8.1	0.2	3.8	1	8	60	22



# GX\_R 微小徑內徑後掃車削鎢鋼車刀

## Tiny Bank Tuning Carbide Boring Bar



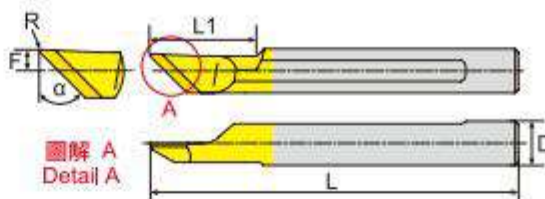
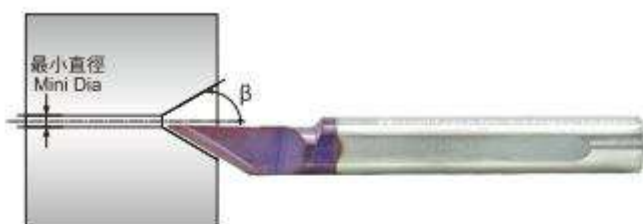
產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GX4RL110R01	3.1	0.1	1.3	0.5	4	50	10
GX4RL110R015	4.1	0.15	1.6	0.8	4	50	10
GX4RL115R015	4.1	0.15	1.6	0.8	4	50	15
GX5RL115R02	5.1	0.2	2.2	1	5	50	15
GX5RL122R02	5.1	0.2	2.2	1	5	50	22
GX6RL115R02	6.1	0.2	2.8	1.8	6	50	15
GX6RL122R02	6.1	0.2	2.8	1.8	6	50	22





# GW\_R 極小徑內徑倒角仿型鎢鋼車刀

## Tiny Chamfering & Profiling Carbide Boring Bar



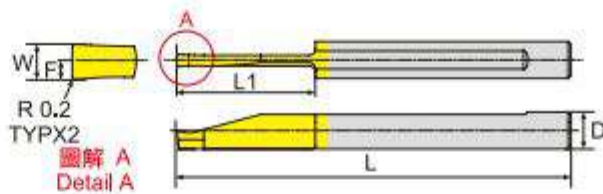
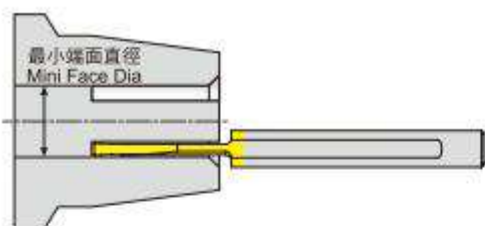
圖解 A  
Detail A

產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	夾角角度 $\alpha$ Included Angle	夾角角度 $\beta$ Included Angle	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GW6RL115R02A90	1	0.2	2.3	45°	45°	6	50	15
GW6RL115R02A60	1	0.2	2.3	60°	30°	6	50	15



# GV\_R 極小徑內徑深面切斷鎢鋼車刀

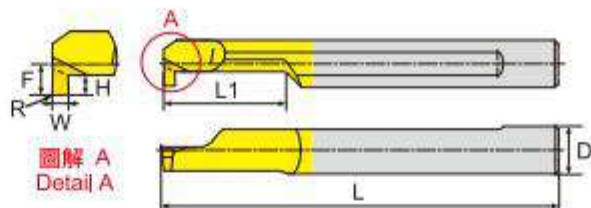
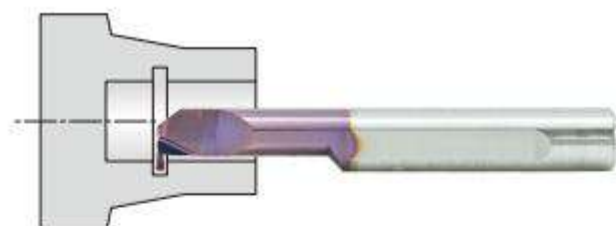
Tiny Deep Face Grooving Carbide Boring Bar



產品型號 Model No	加工徑 Min Bore Dia	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GV6RL115B20	12	2	1.1	6	60	15
GV6RL122B20	12	2	1.1	6	60	22
GV6RL122B25	12	2.5	1.4	6	60	22
GV8RL127B30	15	3	1.6	8	60	27
GV8RL143B30	15	3	1.6	8	75	43
GV8RL143B40	20	4	2.1	8	75	43

# GG\_R 極小徑內徑開槽鎢鋼車刀

## Tiny Grooving Carbide Boring Bar



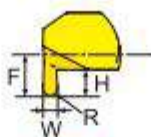
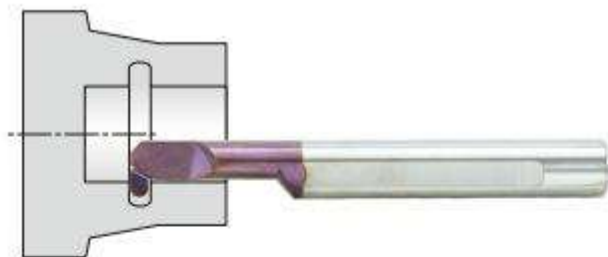
圖解 A  
Detail A

產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GG3RL110B07	3.1	0.1	0.7	1.3	0.6	3	39	10
GG4RL110B10	4.1	0.1	1	1.7	1	4	50	10
GG4RL110B15	4.1	0.1	1.5	1.7	1	4	50	10
GG5RL115B10	5.1	0.1	1	2.3	1.2	5	50	15
GG5RL115B15	5.1	0.1	1.5	2.3	1.2	5	50	15
GG5RL115B20	5.1	0.1	2	2.3	1.2	5	50	15
GG6RL115B10	6.1	0.1	1	2.8	1.4	6	50	15
GG6RL115B15	6.1	0.1	1.5	2.8	1.4	6	50	15
GG6RL115B20	6.1	0.1	2	2.8	1.4	6	50	15
GG8RL122B10	8.1	0.1	1	3.8	1.7	8	60	22
GG8RL122B15	8.1	0.1	1.5	3.8	1.7	8	60	22
GG8RL122B20	8.1	0.1	2	3.8	2.6	8	60	22

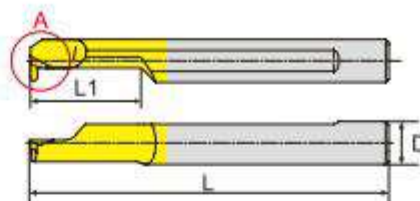


# GK\_R 極小徑內徑圓鼻開槽鎢鋼車刀

Tiny Full Radius Grooving Carbide Boring Bar



圖解 A  
Detail A

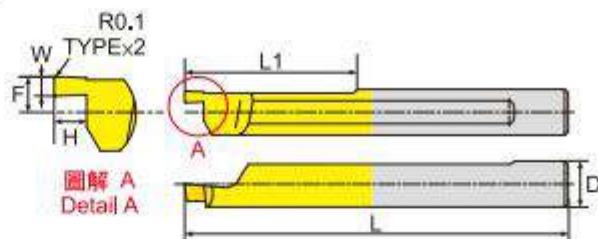
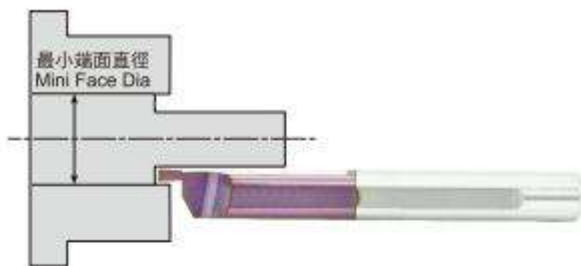


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GK4RL110R05	4.1	0.5	1	1.7	1	4	50	10
GK4RL110R075	4.1	0.75	1.5	1.7	1	4	50	10
GK5RL115R05	5.1	0.5	1	2.3	1.2	5	50	15
GK5RL115R075	5.1	0.75	1.5	2.3	1.2	5	50	15
GK5RL115R10	5.1	1	2	2.3	1.2	5	50	15
GK6RL115R05	6.1	0.5	1	2.8	1.6	6	50	15
GK6RL115R075	6.1	0.75	1.5	2.8	1.6	6	50	15
GK6RL115R10	6.1	1	2	2.8	1.6	6	50	15



# GF\_L 極小徑內徑平面銑削鎢鋼車刀

## Tiny Facing Carbide Boring Bar

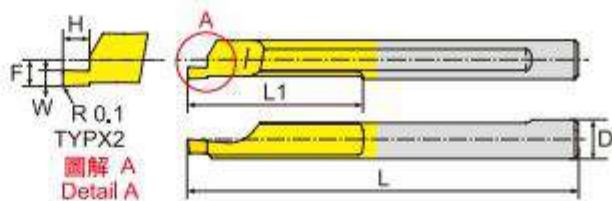
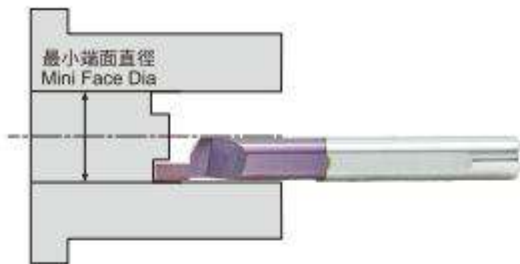


產品型號 Model No	加工徑 Min Bore Dia	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GF4LL115B075	5	0.75	1.75	1.2	4	50	15
GF4LL115B10	5	1	1.75	1.5	4	50	15
GF4LL115B15	5	1.5	1.75	2.8	4	50	15
GF5LL122B075	6	0.75	2.25	1.2	5	50	22
GF5LL122B10	6	1	2.25	1.5	5	50	22
GF5LL122B15	6	1.5	2.25	2.5	5	50	22
GF5LL122B20	6	2	2.25	3.8	5	50	22
GF6LL122B10	8	1	2.75	1.5	6	50	22
GF6LL122B15	8	1.5	2.75	2.5	6	50	22
GF6LL122B20	8	2	2.75	3	6	50	22
GF6LL122B25	8	2.5	2.75	4.8	6	50	22
GF6LL130B30	8	3	2.75	6	6	60	30
GF8LL122B25	10	2.5	3.75	3.5	8	60	22



# GF\_R 極小徑內徑平面銑削鎢鋼車刀

## Tiny Thread Relief Carbide Boring Bar

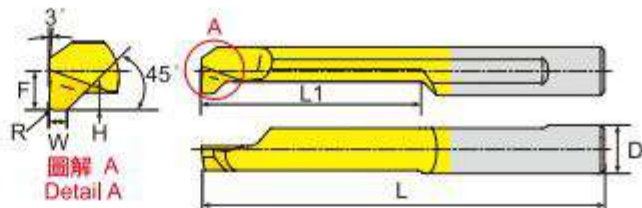
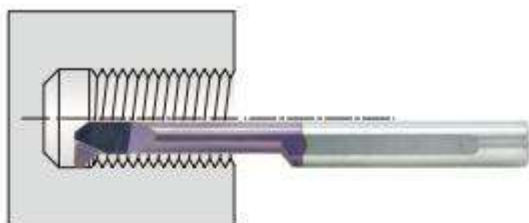


產品型號 Model No	加工徑 Min Bore Dia	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GF4RL115B075	5	0.75	1.95	1.2	4	50	15
GF4RL115B10	5	1	1.95	1.5	4	50	15
GF4RL115B15	5	1.5	1.95	2.8	4	50	15
GF5RL122B075	6	0.75	2.45	1.2	5	50	22
GF5RL122B10	6	1	2.45	1.5	5	50	22
GF5RL122B15	6	1.5	2.45	2.5	5	50	22
GF5RL122B20	6	2	2.45	3.8	5	50	22
GF6RL122B10	8	1	2.95	1.5	6	50	22
GF6RL122B15	8	1.5	2.95	2.5	6	50	22
GF6RL122B20	8	2	2.95	3	6	50	22
GF6RL122B25	8	2.5	2.95	4.8	6	50	22
GF6RL130B30	8	3	2.95	6	6	60	30
GF8RL122B25	10	2.5	3.95	3.5	8	60	22



# GD\_R 微小徑內徑螺紋倒角鎢鋼車刀

## Tiny Thread Relief Carbide Boring Bar

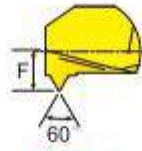
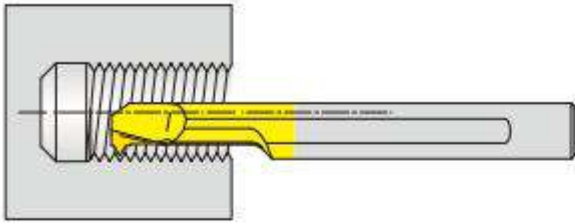


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GD4RL118R05	4.1	0.5	1.5	1.8	0.8	4	50	18
GD5RL124R05	5.1	0.5	1.5	2.3	1.2	5	50	24
GD6RL127R05	6.1	0.5	1.5	2.8	1.4	6	60	27

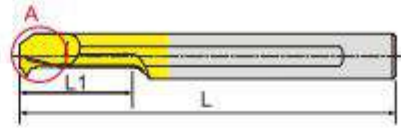


# GI\_R 微小徑內徑螺紋鎢鋼車刀

## Tiny Threading Carbide Boring Bar



圖解 A  
Detail A

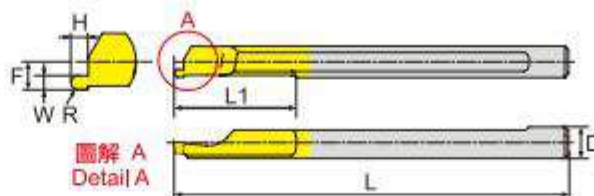


產品型號 Model No.	螺距 Screw Pitch/mm	螺距 Screw Pitch/TPI	加工徑 Min Bore Dia	刀尖距離 F Tip Distance	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GIR2RL108A60	0.45-0.7	56-32	2.1	1	3	39	8
GIR3RL115A60	0.7-1	32-24	3.2	1.4	3	39	15
GIR4RL115A60	0.8-1	32-24	4.1	1.8	4	50	15
GIR5RL115A60	1-1.25	24-20	5.1	2.3	5	50	15
GIR5RL122A60	1-1.25	24-20	5.1	2.3	5	50	22
GIR6RL115A60	1-1.5	24-16	6	2.6	6	50	15
GIR6RL122A60	1-1.5	24-16	6	2.6	6	50	22
GIR8RL122A60	1-2	24-13	8	3.6	8	60	22



# GZ\_R 微小徑內徑端面圓槽鎢鋼車刀

## Tiny Full Radius Facing Carbide Boring Bar



產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GZ4RL115R05	5	0.5	1	1.95	1.2	4	50	15
GZ4RL115R075	5	0.75	1.5	1.95	1.5	4	50	15
GZ5RL122R05	6	0.5	1	2.45	1.2	5	50	22
GZ5RL122R075	6	0.75	1.5	2.45	1.5	5	50	22
GZ5RL122R10	6	1	2	2.45	2.5	5	50	22
GZ6RL122R05	8	0.5	1	2.95	1.2	6	50	22
GZ6RL122R075	8	0.75	1.5	2.95	1.5	6	50	22
GZ6RL122R10	8	1	2	2.95	2.5	6	50	22





益詮精密股份有限公司  
ECHAINTOOL PRECISION CO., LTD.



# 內外徑車刀系列

Baring Bar & Tool Holder With Coolant Series

**30 Bar Mini**  
**300 Bar Max**



## 雙向直噴水孔系列

Two-way direct injection water hole series

## 外徑中心出水車刀架

Centre Coolant Fed Clamp Tool Holder



## 全球獨步下壓板引導式水孔

Globally stepped down platen-type water hole

可由刀架側面及刀架下方皆可接入高壓水管

High pressure water pipes can be accessed from the side of the tool holder or under the tool holder.



## 模具鋼抗震刀柄中心出水

Alloy Tool Steel Shank Central coolant With Oil Hole

## 壓板固定式出水內徑車刀

Top Clamping Coolant Boring Bar

**可四倍抗震!** It's Quadruple Seismic Performance



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ECHAIN TOOL PRECISION CO., LTD.



# 端面切斷刀系列

Tool Holder For Cutting Off & External Grooving Series



**專利新品**

Patent new product



**HOCR Series**  
出水端面切槽刀  
Coolant Face Grooving

不用拆裝刀座，可快速定位使用  
Didn't need to dismounting the tool block, can faster positioning  
可做內徑端面切槽  
Available for internal face grooving

## HOSR Series

### 內徑出水端面淺槽刀

Internal Shallow Grooving  
With Coolant



可進行深度淺槽加工  
Deep processing in a shallow slot

特殊出水設計，有效加強排屑效率  
Special design of coolant, effectively enhance chip disposal improvement  
提升刀片加工壽命，降低加工成本  
Increasing the inserts' life to cut down the processing cost.

ECH200-ECM100 / ECH300-ECM100  
ECH400-ECM100 / ECH500-ECM100



刀片刃口專業設計

達到加工表面平坦的效果

With the special design on the blade edge it shows excellent and flat processing surface  
特殊的後刀面結構使切削阻力降低20%減少振動，進一步提高加工表面  
精度！特殊的刃口設計可針對機床剛性要求，可適用於小功率機床。  
Special design on the flank of the insert can decrease 20% vibration and can  
process the fine surface smoothly. It also lives up to the rigid requirement of  
small power NC machine.

## HZH Alloy Tool Steel Series

### 外徑抗震切斷刀

Anti-Vibration External Grooving Holder

模具鋼材質刀架

High rigid alloy tool steel can enhance sustainability

提升耐用度、加強抗震性

and anti-vibration ability with excellent working performance.





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