

益詮切削刀具

ECHAINTOOL Cutting Tools
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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 22nd Hsing Star Award



第20屆中小企業
安全創新獎
The 20th Taiwan Safety
Innovation Award



住友精工 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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■ 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.
















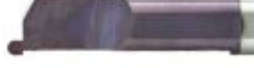
- ✓ 微小徑內徑鎢鋼車刀採用全鎢鋼刀體，有效抑制加工震動
Tiny carbide boring bar adopts a full carbide cutter body to effectively suppress the processing vibration.
- ✓ 採用超細粒子硬質合金AlTiN塗層，增加刀具耐磨耗性
Ultra-fine particle cemented carbide AlTiN coating for increased tool wearability.
- ✓ 微小徑設計有利於狹小孔徑空間工件之切槽、仿形及倒角等加工需求
The micro-diameter 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



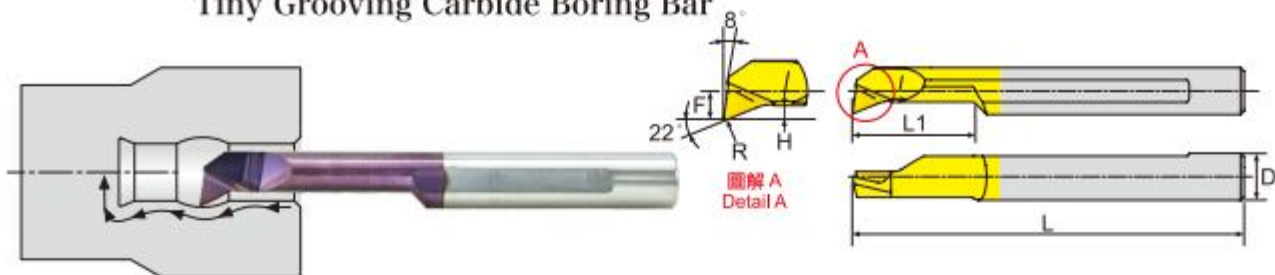
微小徑內徑車刀索引表 Tiny Carbide Boring Bar Series Index

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

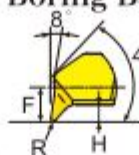
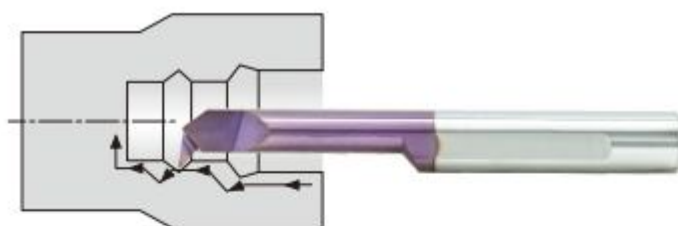


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GP1RL104R005	1	0.05	0.5	0.2	3	39	4
GP1.5RL106R01	1.5	0.1	0.7	0.3	3	39	6
GP2RL110R005	2.1	0.05	0.8	0.5	3	39	10
GP2RL110R01	2.1	0.1	0.8	0.5	3	39	10
GP2RL105R015	2.1	0.15	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

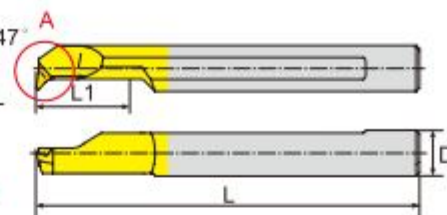


GQ_R 微小徑內徑仿型 & 搪孔鎢鋼車刀

Tiny Profiling & Boring Carbide Boring Bar



圖解 A
Detail A

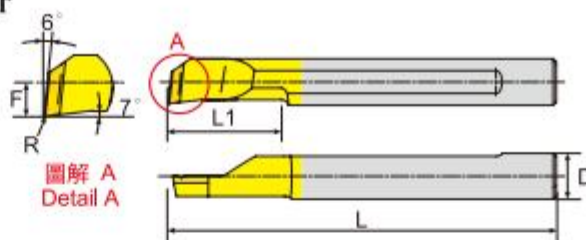
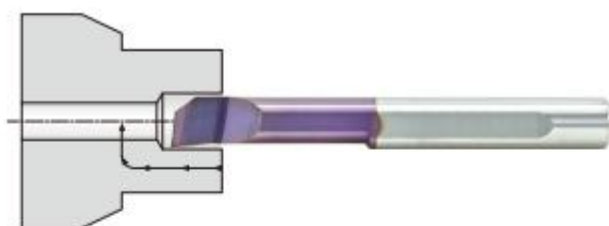


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GQ4RL110R02	4.1	0.2	1.8	0.8	4	50	10
GQ4RL115R02	4.1	0.2	1.8	0.8	4	50	15
GQ4RL122R02	4.1	0.2	1.8	0.8	4	50	22
GQ5RL115R02	5.1	0.2	2.3	1	5	50	15
GQ5RL122R02	5.1	0.2	2.3	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



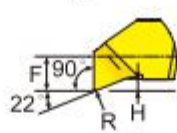
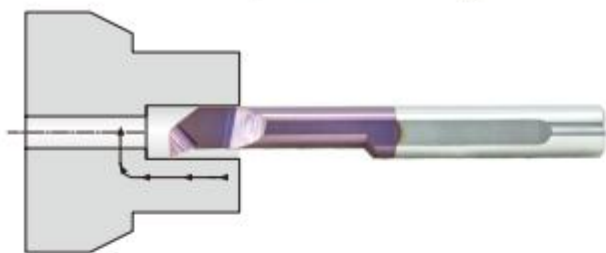
圖解 A
Detail A

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

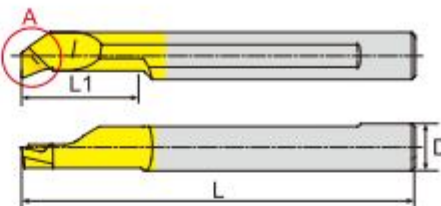


GU_R 微小徑內徑90°仿型鎢鋼車刀

Tiny 90° Profiling Carbide Boring Bar



圖解 A
Detail A

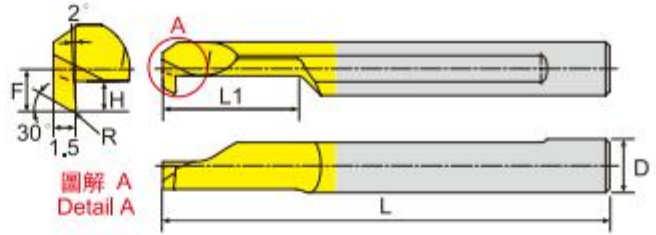
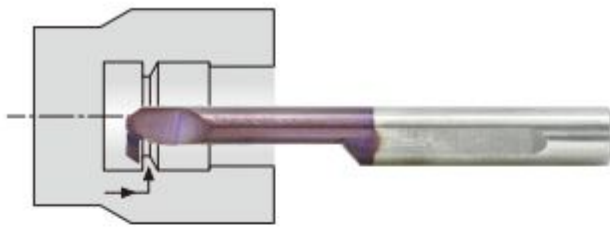


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GU3RL110R005	3.1	0.05	1.3	0.4	3	39	10
GU3RL115R005	3.1	0.05	1.3	0.4	3	39	15
GU4RL110R01	4.1	0.1	1.7	0.5	4	50	10
GU4RL115R01	4.1	0.1	1.7	0.5	4	50	15
GU5RL115R015	5.1	0.15	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



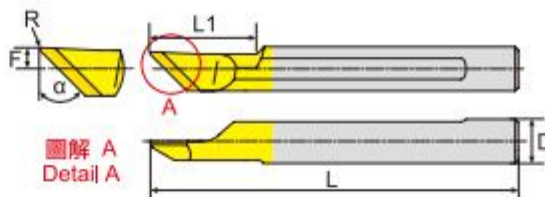
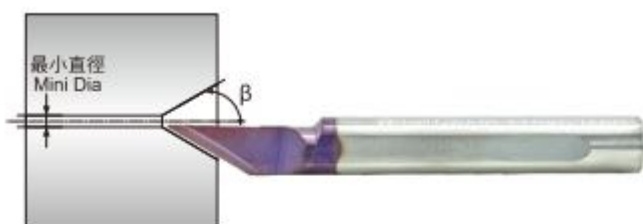
圖解 A
Detail A

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
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



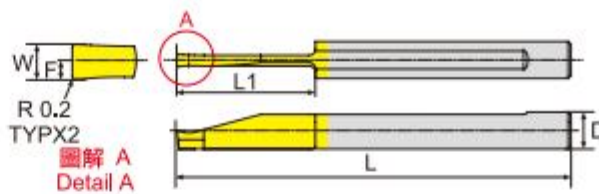
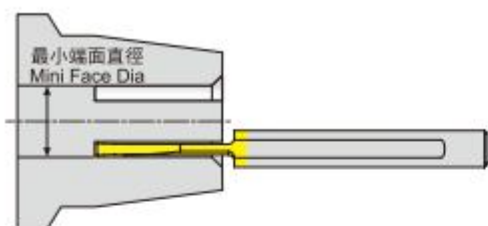
圖解 A
Detail A

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 α Included Angle	夾角角度 β 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

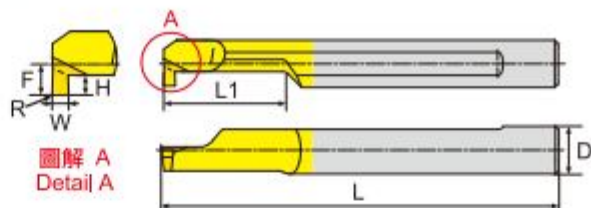
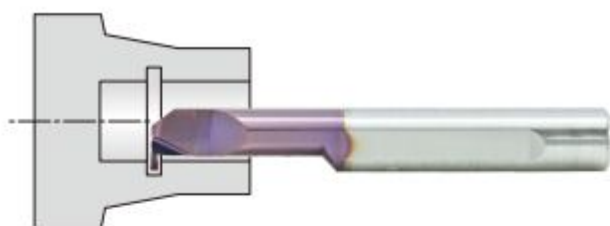
Tiny Deep Face Grooving Carbide Boring Bar



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



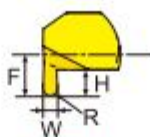
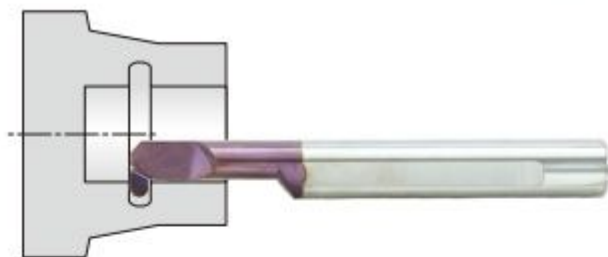
圖解 A
Detail A

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

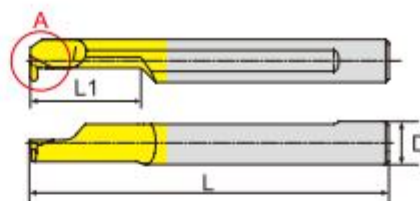


GK_R 極小徑內徑圓鼻開槽鎢鋼車刀

Tiny Full Radius Grooving Carbide Boring Bar



圖解 A
Detail A

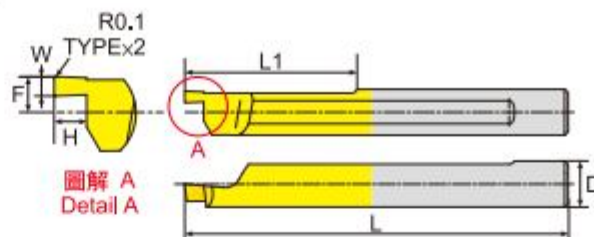
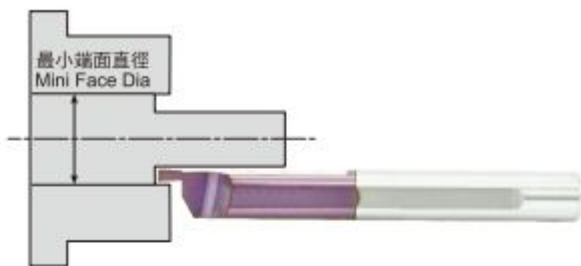


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GK4RL110R05	4.1	0.5	1	1.7	1	4	50	10
GK4RL110R075	4.1	0.75	1.5	1.7	1	4	50	10
GK5RL115R05	5.1	0.5	1	2.3	1.2	5	50	15
GK5RL115R075	5.1	0.75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

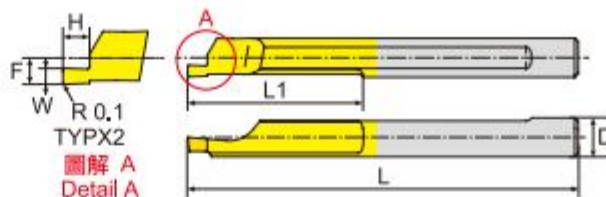
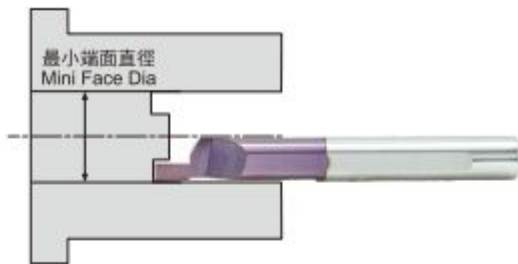


產品型號 Model No	加工徑 Min Bore Dia	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GF4LL115B075	5	0.75	1.75	1.2	4	50	15
GF4LL115B10	5	1	1.75	1.5	4	50	15
GF4LL115B15	5	1.5	1.75	2.8	4	50	15
GF5LL122B075	6	0.75	2.25	1.2	5	50	22
GF5LL122B10	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

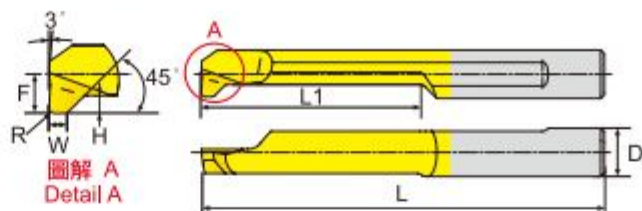
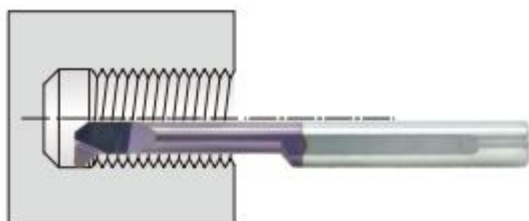


產品型號 Model No	加工徑 Min Bore Dia	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GF4RL115B075	5	0.75	1.95	1.2	4	50	15
GF4RL115B10	5	1	1.95	1.5	4	50	15
GF4RL115B15	5	1.5	1.95	2.8	4	50	15
GF5RL122B075	6	0.75	2.45	1.2	5	50	22
GF5RL122B10	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

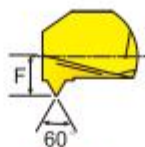
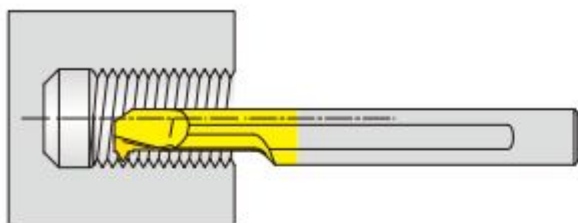


產品型號 Model No	加工徑 Min Bore Dia	半徑 R Radius (1/2d)	加工寬度 W Insert Processing Width	刀尖距離 F Tip Distance	加工距離 H Process Depth	柄徑 D Shank Dia	全長 L O.A.L	刃長 L1 Flut Length
GD4RL118R05	4.1	0.5	1.5	1.8	0.8	4	50	18
GD5RL124R05	5.1	0.5	1.5	2.3	1.2	5	50	24
GD6RL127R05	6.1	0.5	1.5	2.8	1.4	6	60	27

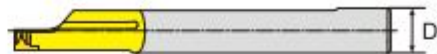
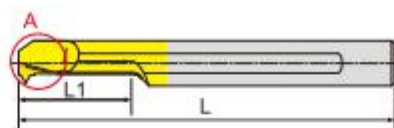


GI_R 微小徑內徑螺紋鎢鋼車刀

Tiny Threading Carbide Boring Bar



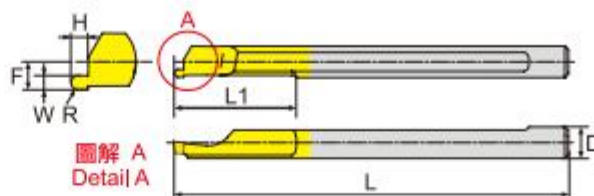
圖解 A
Detail A



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





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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

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Top Clamping Coolant Boring Bar

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Tool Holder For Cutting Off & External Grooving Series



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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.

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EGH400-EGM100 / EGH500-EGM100



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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。
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Anti-Vibration External Grooving Holder

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