



寶濟工業股份有限公司
BAOJE Industrial Co., Ltd.

[小型 CNC 車床加工刀具] CNC BORING TOOLS

Best tool for small precision machining, customized service than a world-class tool maker to provide you with more variety of choices, allowing you to solve personnel problems and technical difficulties



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 寶濟內孔刀-cnc車床之友社
BAOJE bore tool – CNC lathe association



小型精密加工的最佳利器，
客製化的服務比世界級
大廠提供您更多樣的選擇，
讓您解決人員及技術問題困境

寶濟30年CNC技術 解決您端面刀及微型內孔車刀的需求

BaoJe 30 years of CNC technology
Solve your knife and the end face of the hole miniature tools needs

在技術工程師嚴重欠缺的年代，寶濟公司具有與您探討刀具應用的能力，並可改善量產時更換刀具標準化的產品優勢，大幅提升機台稼動與人員技術養成瓶頸。

In the era of a serious lack of technical engineers, Bao Ji company has the ability to discuss with you for the apply of your tool , and to improve the standardization of tool change when the advantages of mass production, significantly enhance the machine utilization rate, to training bottlenecks of technical personnel.

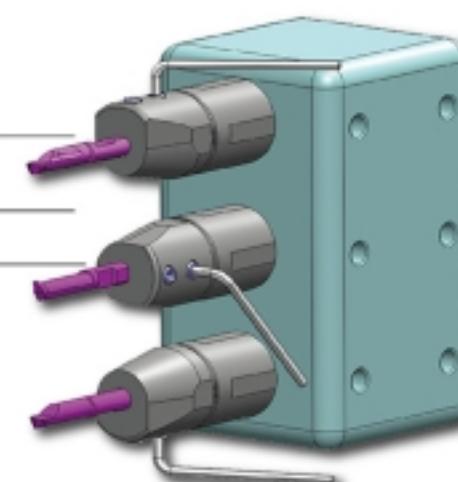
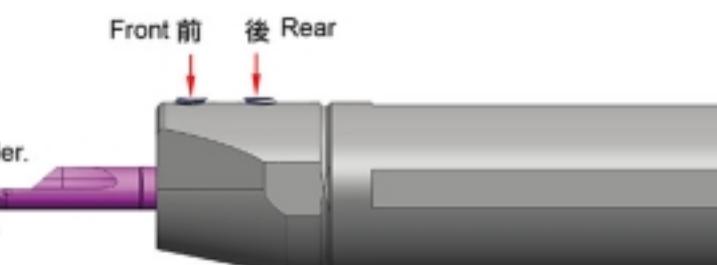


► 刀柄鎖定容易 換刀不必拆刀柄

Tool lock easily and Changing tool don't move out the holder

鎖刀步驟 Lock tool process:

1. 選對刀具基準角度放到底
Alignment tool basic surface and put to the holder.
2. 後螺絲先鎖固定基準面角度
The rear screw lock slightly to the basic surface.
3. 前螺絲鎖緊
Locking tight the front screw.
4. 後螺絲再鎖緊
Re-locking tight the rear screw.

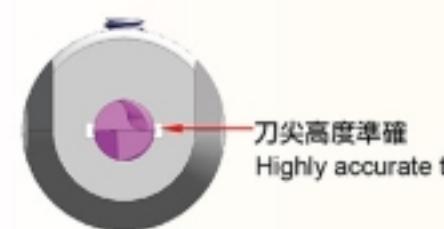


► 刀具基準面角度應用

Tool Basic Surface application

► 寶濟刀具 vs 市購刀具

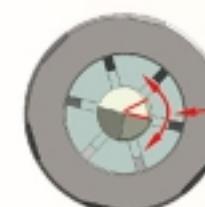
BAOJE tool vs. Other tool



1. 換刀準確快速，顧車師傅輕鬆
Accurate and rapid tool change. Easy set up tool for technician
2. 刀尖高度準確，刀具壽命優
Highly accurate tip and excellent tool life.
3. 交貨速度、品質、效率提升，成本降低
Quickly of delivery, best quality, increase efficiency, reduce costs.
4. 依客戶圖面or樣品，客製化刀具，節省開發時間
According to customer drawing or sample. Customization tool to saving develop times.

★ 最大特色:新手易上手換刀，解決技術執行難處 ★

The most prominent feature : Easy tool change for novice. Solve technical implementation difficulties.



1. 重複鎖定，機械停機時間很長
Need repeat locked the tool, so machine downtime is very long.
2. 重複修改程式，顧車師傅很忙，車床還是停機
Repeat modification NC code. Reduce machine efficiency.
3. 刀尖高度難調以致跳刀、尺寸不穩、刀具壽命差
Tip height is difficult to adjust the size of instability and poor life of tools
4. 不良率高、機械稼動率低、品質難控制，成本高
Quality difficult to control and high poor rate and high cost.

最大盲點:更換刀需有技術能力且執行不易

Biggest blind spot:Need to have the technical ability to replace the tool and difficult to implement.

產品介紹

Product

► A.刀具系列 (鎢鋼圓棒採用自歐美日，配合進口設備鍍膜，φ0.6mm~8mm)

Baoje boring tools: from the US, 0.6-8mm boring tool durable, economical, Mass production

採用日系及歐系鎢鋼材料，配合進口鍍膜設備做最優化的產品生產。

品質優良：自行研發設計、組裝磨刀所需的CNC磨刀機。

價格實惠：相較世界大廠價格更為實在。

使用方便：防呆設計，新手易操作，解決技術人力的不足。

Using Japanese and European tungsten steel materials and import coating equipment to do the most optimized production. Good quality: self-developed design, assembly CNC grinding tool machine.

Affordable price: Compared to the price of the world's biggest tool makers are more cheapen. Easy to use: foolproof design, the novice is easy to operate and solve technical manpower shortage.

微型鎢鋼內孔刀具/ Micro tungsten boreing tool

微型鎢鋼端面刀/ Micro tungsten face tool

外徑刀具/ Turning tool

► B.特殊刀具

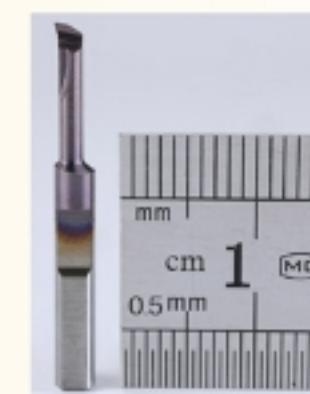
Baoje internal grooving tool : from the US,0.6-8mm boring tool



最好的工具需要"量身訂做"及使用標準化，具防呆設計，新手易操作等特性。

The best tool needs "tailored" and the use of standardized, with a foolproof design, easy to operate features such as a novice.

微型內孔刀/ Micro boring tool



凸輪車床勾刀/ Camshaft lathe plastic cutter



端面插槽刀/ Face Grooving tool

目前市場對微型內孔刀，端面刀，應該是最大的困擾，因為市售的規格產品，無法符合加工需求

The tool market on the micro-bore tool, face tool, it should be the biggest problem, because the commercially available product specifications, can't meet the processing needs

► C.專利刀柄 (刀間高度準確、長度固定、具防呆功能、高剛性抗震效果，新人易上手)

Baoje boring tool holder: fool proofing,antisismic Hard wearing,Extremely Accurate

良好的刀柄設計，能提高刀具更換執行能力及減少找刀點的時間。

本公司不斷推出先進的刀具設計，滿足顧客切削加工技術的發展需求。

UGood holder design can improve the ability to perform a tool change and reduce the time to set up tool. Baoje has introduced advanced tools designed to meet the development needs of the customer machining technology.

閃電型刀柄/Flash type tool holder 專利內徑刀柄/Patent boreing holder

專利外徑刀柄/Patent tool holder 出油孔刀柄/cooling hole holder



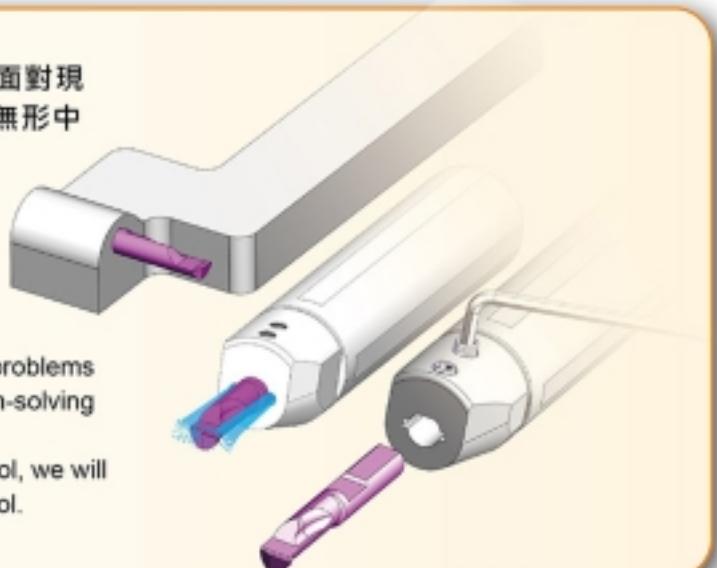
面對大量長期的生產刀具需求，您將有更好的選擇。面對現在及未來技術人員難養成的問題引用我們的產品，無形中您已在解決技術人員操作技術的問題了。

在刀具世界裡的微型內孔刀及端面槽刀，我們將提供不一樣的產品，讓我們解決您這部份的困擾！

Faced with a large number of long-term production tool needs. You will have a better choice.

Faced with a lack of technical personnel present and future problems References to our products, you are already virtually problem-solving the technical personnel and technical setbacks up.

In the world of tool area the micro-bore tool, face grooving tool, we will offer a different product. Let us solve your problems of the tool.



► 成品(檢驗品)剖開機

Inspection product cutter

提供完整的成品剖開設備，能精確平穩的夾持物件，有效的執行剖開動作。循環式切削液提供良好的冷卻效果，具負載保護裝置能有效保護馬達，使用本公司成品剖開機，能提供你、安全、省時又省力的效益。

Provide complete product cut device, can accurately hold the product smooth and effective implementation of the action taken. Circulating coolant to provide good cooling effect, with overload protection device can effectively protect the motor, using Baoje product cutter machine, can provide you security, save time and effort benefits.



■ B350



■ B550

規格表 Specifications

型號 Model	B350	B550
電源 Power	220V	220V
齒輪比 Gear ratio	10比/ratio	15比/ratio
可加工範圍 Machinable range	Ø4~Ø35/100L	Ø10~Ø50/100L
馬達 Motor	400W	400W
切削油桶 Cutting oil tank	18L	18L
鋸片規格 Saw specifications	Ø125X Ø25.4X1.2	Ø150X Ø25.4X2.0
重量 Weight	110Kg	110Kg
機器尺寸 Machine size	780(長length)X650(寬width)X650(高height)	

台灣、中國 已申請專利 成品(檢驗品)剖開機-省時省力

Patents have been applied in Taiwan and China
Inspection product cutter – saves time and effort

針對成品工件需量測內孔尺寸
Focused on measuring the bore size of the workpiece.

工件剖開工程簡易操作設備
Easy workpiece cutting equipment

產品特性
Product characteristics

- 安全 Safety
- 易操作 Easy to operate
- 可作難切削材剖開 Can be used for cutting hard material
- 可自動對正中心 Set up center can automatically

► CNC自動化剖開機

CNC nspection product cutter



■ BC550

規格表 Specifications

型號 Model	BC-550
電源 Power	LV28-1500-10-S3
齒輪比 Gear ratio	10比/ratio
幫浦 Pump	YC-8110/1/8 HP
日本安川伺服馬達 Servo Motor(Japan)	SGMGV-09ADA6S
日本安川驅動器 Drive(Japan)	7R6A01A
注油器 OilMixer	302-30
工作燈 Work Lights	LED-WM20
警示燈 Warning Light	LGL-220V-3GRY-B
安全開關 Safety Switch	XCSPA591
機器尺寸(長X寬X高) Machine size(LxWxH)	180X105X195(CM)
機器重量 Machine Weight	350 KG
電功率 Power Consu Mption	5 KW
電壓 Voltage	220V
可加工範圍 Machinable range	Ø6~Ø50/120L
鋸片規格 Saw specifi	Ø150X Ø25.4X1.5
切削油桶 Cutting oil tank	42L

一刀剖開 One cut sectioning Work piece size

剖開範例 examples	工件尺寸
外徑 Outer diameter	23 20
材質 Material	S45C SUS303



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BAOJE has the right to change the design without further notice



專利設計：大小剖開件自動對中

Patent design: Workpiece of different sizes are automatically center