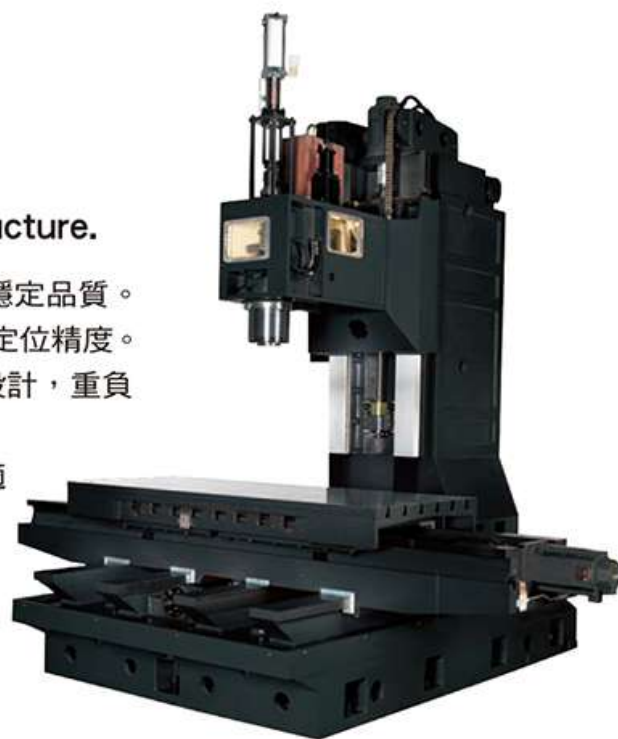


VB-158/178/208系列

高剛性、高精度的結構設計

High rigid and High precision machine structure.

- 高強度機身設計，採用高品質鑄鐵組織穩定，確保穩定品質。
- 三軸採硬軌設計，可支撐重負荷，移動過程中，確保定位精度。
- 寬厚的底座設計，立柱採箱體設計，鞍座加寬加長設計，重負荷全支撐，結構堅實，可確保加工時之重負荷能力。
- 主軸頭強化肋結構設計，頭部與立柱支撐細長比例適當，提供主軸穩固的支撐。



VB-158/178/208 鑄件
VB-158/178/208 cast iron

VB-158/178/208 Series

- High-strength body design with high-quality cast iron construction to ensure the stable quality.
- 3 axial adopted box-type design to support heavy loads and ensure positioning accuracy during moving.
- Wide and solid based, column adopted box-type design, Saddle lengthened and widened, heavy-duty full support, solid structure to ensure heavy load capacity during processing.
- The spindle head is with rib reinforcement structure design, Spindle head and Column with perfect proportion to provide a stable support of the spindle.



▲ VB-208 (圖示排屑機為選項)
VB-208 (The chain type chip conveyor is an option.)

標準配備	STANDARD ACCESSORIES	選購配備	OPTIONAL ACCESSORIES
● 剛性攻牙 ● 主軸吹氣裝置 ● 電氣箱熱交換器 ● 自動潤滑系統 ● 主軸油冷機 ● 冷卻系統與水箱 ● 工作燈 ● 地基螺栓與墊塊 ● 工具箱與工具 ● 操作與維護保養手冊	● Rigid tapping ● Spindle air blast device ● Heat exchanger ● Automatic lubrication unit ● Spindle oil cooler ● Cooling system and coolant tank ● Work lamp ● Foundation bolts and blocks ● Tool box with tools ● Operation and maintenance manual ● Coolant flush device ● Water gun ● Screw type chip conveyor with chip cart	● 12,000rpm皮帶式/直結式主軸 ● 齒輪式主軸頭 (BT-50) ● 鍊板式排屑機+鐵屑車 ● 5bar 後沖高壓幫浦 ● 第四軸旋轉工作台 ● 電氣箱冷氣機 ● 主軸中心出水 ● 刀長量測 ● 變壓器	● 12000 rpm belt type/direct-drive type spindle ● Gear type spindle head(BT-50) ● Chain type chip conveyor with chip cart ● 5 bar high pressure pump ● 4th axis rotary table ● Air condition for electrical cabinet ● Coolant through spindle(CTS) ● Tool length measurement ● Transformer

VB-158/178/208 系列規格表 Specification

機型Model	Unit	VB-158		VB-178		VB-208	
行 程 Travel							
X軸行程 X axis travel	mm	1500		1700		2000	
Y軸行程 Y axis travel	mm			850			
Z軸行程 Z axis travel	mm			750			
主軸鼻端至工作台面距離 Distance between spindle nose to table face	mm			150~900			
工 作 台 Work Table							
工作台尺寸 Table size	mm	1700x700		1900x800		2100x800	
T 型槽 T-Slot	mm			22*6*125mm			
最大載重 Max. loading capacity	kgs	1800		2200		2400	
主 軸 Spindle							
主軸錐度 Spindle taper		BT-40	BT-50	BT-40	BT-50	BT-40	BT-50
主軸轉速 Spindle speed	rpm	10000	6000	10000	6000	10000	6000
主軸馬達 Spindle motor	kW	15/18.5					
主軸驅動方式 Spindle driven type		皮帶式Belt type					
進 給 速 度 Feed Rate							
三軸快速位移 Rapid Traverse Speed of X/Y/Z axis	m/min.	15/15/12					
最大切削進給 Max.cutting feed rate of X/Y/Z axis	m/min.	10					
三軸馬達 Servo motor of X/Y/Z axis	kW	4.5/4.5/4.5					
自 動 換 刀 Automatic Tool Changer							
換刀方式 ATC type		刀臂式 Arm Type					
刀庫容量 Tool capacity	pcs	24T					
刀具最大直徑Max. tool diameter	mm	80	127	80	127	80	127
刀具最大長度 Max. tool length	mm	350	400	350	400	350	400
刀具最大重量 Max. Tool weight	kg	7	15	7	15	7	15
換刀時間(刀對刀) Tool change time (T to T)	sec	1.8	3.2	1.8	3.2	1.8	3.2
其 它 Other							
佔地面積(長x寬) Machine dimension (LxW)	mm	4250x3030		4450x3030		4800x3030	
機台高度 Machine height	mm	3200					
機台淨重 Machine net weight	kg	12800	13000	13800	14000	14800	15000
所需電源容量 Total required power	kVA	35	40	35	40	35	40

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SHINZAWA

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SHINZAWA
震澤精機



VB series

Vertical Machining Center
立式綜合加工機

VB-127/147/157系列

高速、高精度的傳動系統
High speed, High precision transmission system.

- 三軸馬達與C3級精密螺桿採直接傳動，並經裝配預拉，提昇整體剛性與精度。
- 三軸硬軌結合面配合低摩擦係數的Turcite-B，經精密刮花技術、滑道接觸面點均勻分佈獲得優越持久的精度表現，更擁有良好切削吸振能力。
- Z軸上下搭配中央配重導引設計，主軸在快速位移過程中，讓配重不致產生鐘擺撞擊現象，保持加工過程精度的穩定性。



▲ VB-127/147/157 鑄件-皮帶頭
VB-127/147/157 cast iron – belt type spindle head



▲ 高強度齒輪頭部(選配)
High rigidity gear type spindle head (optional)



VB-127/147/157 Series

- 3 axial motor and C3 grade precision ball screw adopted directly driven, assembled by pre-tensioning to improve overall rigidity and accuracy.
- The 3 axial box-type binding face is matched with the Turcite-B with low friction coefficient. Through the precision scraping technology, the contact points of the slide are evenly distributed. Superior and long-lasting precision performance with better cutting vibration absorption capacity
- The Z-axis up/down equipped with the central counter weight design, so when the spindle is in the process of rapid displacement, the counterweight does not cause the pendulum impact phenomenon, and to keep the stability of the machining process.

標準配備	STANDARD ACCESSORIES	選購配備	OPTIONAL ACCESSORIES
●剛性攻牙	• Rigid tapping	●12,000rpm皮帶式/直結式主軸	• 12000 rpm belt type/direct-drive type spindle
●主軸吹氣裝置	• Spindle air blast device	●齒輪式主軸頭 (BT-50，6000rpm，15kW)	• Gear type spindle head (BT-50,6000rpm,15kW)
●全密閉式護罩	• Fully enclosed splash guard	●5bar後沖高壓幫浦	• 5 bar high pressure pump
●電氣箱熱交換器	• Heat exchanger	●第四軸旋轉工作台	• 4th axis rotary table
●自動潤滑系統	• Automatic lubrication unit	●電氣箱冷氣機	• Air condition for electrical cabinet
●主軸油冷機	• Spindle oil cooler	●主軸中心出水	• Coolant through spindle(CTS)
●冷卻系統與水箱	• Cooling system and coolant tank	●刀長量測	• Tool length measurement
●工作燈	• Work lamp	●變壓器	• Transformer
●地基螺栓與墊塊	• Foundation bolts and blocks		
●工具箱與工具	• Tool box with tools		
●操作與維護保養手冊	• Operation and maintenance manual		
	• Coolant flush device		
●側邊沖屑	• Water gun		
●水槍	• Screw type chip conveyor with chip cart		
●螺旋式排屑機+鐵屑車			

VB-127/147/157 系列規格表

Specification

機型Model	Unit	VB-127		VB-147		VB-157	
行 程 Travel							
X軸行程 X axis travel	mm	1200		1400		1500	
Y軸行程 Y axis travel	mm			720			
Z軸行程 Z axis travel	mm	610	680	610	680	610	680
主軸鼻端至工作台面距離 Distance between spindle nose to table face	mm	150~760	150~830	150~760	150~830	150~760	150~830
工 作 台 Work Table							
工作台尺寸 Table size	mm	1350x700		1550x700			
T 型槽 T-Slot	mm			18*5*130mm			
最大載重 Max. loading capacity	kgs	1400		1500		1500	
主 軸 Spindle							
主軸錐度 Spindle taper		BT-40	BT-50	BT-40	BT-50	BT-40	BT-50
主軸轉速 Spindle speed	rpm	10000	6000	10000	6000	10000	6000
主軸馬達 Spindle motor	kW			15/18.5			
主軸驅動方式 Spindle driven type				皮帶式Belt type			
進 給 速 度 Feed Rate							
三軸快速位移 Rapid Traverse Speed of X/Y/Z axis	m/min.			15/15/12			
最大切削進給 Max.cutting feed rate of X/Y/Z axis	m/min.			10			
三軸馬達 Servo motor of X/Y/Z axis	kW			4.0/4.0/4.0			
自 動 換 刀 Automatic Tool Changer							
換刀方式 ATC type				刀臂式 Arm Type			
刀庫容量 Tool capacity	pcs			24T			
刀具最大直徑Max. tool diameter	mm	80	127	80	127	80	127
刀具最大長度 Max. tool length	mm	350	400	350	400	350	400
刀具最大重量 Max. Tool weight	kg	7	15	7	15	7	15
換刀時間(刀對刀) Tool change time (T to T)	sec	1.8	3.2	1.8	3.2	1.8	3.2
其 它 Other							
佔地面積(長x寬) Machine dimension (LxW)	mm	3490*3030		3690*3030		3800*3030	
機台高度 Machine height	mm			2685			
機台淨重 Machine net weight	kg	9700	10200	10000	10500	11000	12000
所需電源容量 Total required power	kVA			30			

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