

Sunmill
your best partner

JMV series

硬軌系列
Box ways

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your best partner

晶禧科技股份有限公司
JEENXI TECHNOLOGY CO., LTD.

台灣省台中市南屯區工業區20路46號
No. 46, 20 Road, Taichung Industrial Park,
Nantun District, Taichung 40850, Taiwan
TEL: +886-4-2359-7868
FAX: +886-4-2359-7100
E-mail: jx@jeenxi.com.tw
www.jeenxi.com.tw

台北分公司:
新北市24460林口區文林一街11巷33號
TEL: +886-2-2603-4358
FAX: +886-2-2603-4387

代理商 / Agent:



晶禧科技股份有限公司
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JMV-1100 / JMV-1300

EXTRA RIGID MACHIN STRUTURE

Oversized Column

- Increased width on the column bottom, combined with box type structure, greatly upgrades rigidity and stability during machining.
- Box slideways on the 3 axes are high frequency hardened. Way surfaces are coated with Turcite-B and precision scraped.
- Extra wide slideways are distance between slideways eliminate sticking problems at low speed travel while ensuring high stability.
- The major structures are manufactured from Meehanite cast iron with scientific rib reinforcement. This reduces structural deformation to a minimum.



高剛機身結構

超大立柱

- 立柱底部加寬設計，配合箱形結構，大幅提昇加工時之剛性與穩定性。
- 三軸滑道為方形硬軌，經高週波硬化處理，貼附Turcite-B精密鏟花。
- 超寬滑軌及軌距設計，低速行程時無遲滯現象，穩定性高。
- 主結構體採用高級米漢納(Meehanite)鑄鐵製成，配合合理化的筋骨強化，將機構結構變形量降到最低程。



ZF Gear Box
Two-Speed gear box (Optional)

ZF 齒輪箱
二段式變速，在低轉速即可輸出高扭力(選購配備)

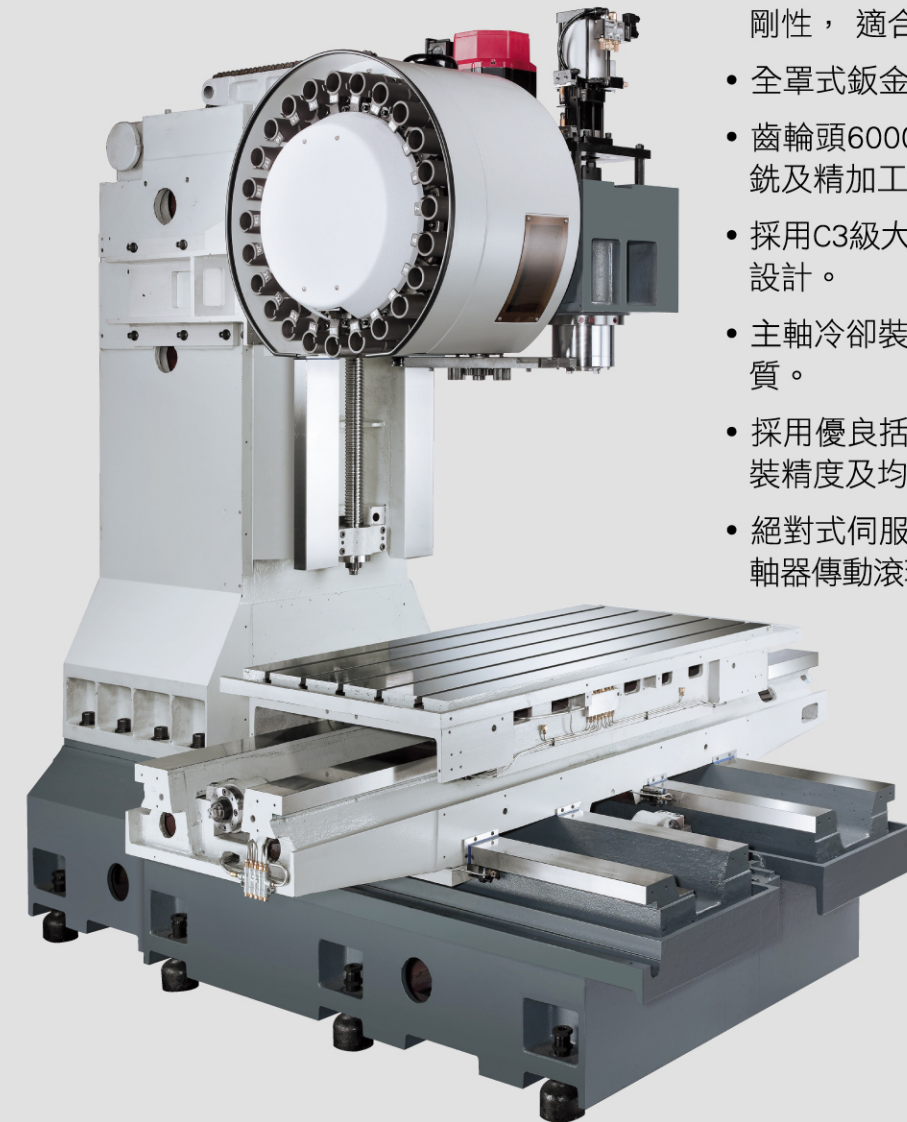
JMV-1200 / JMV-1400

DESIGNED FOR MOLD & DIE OR PRECISE PARTS MACHINING

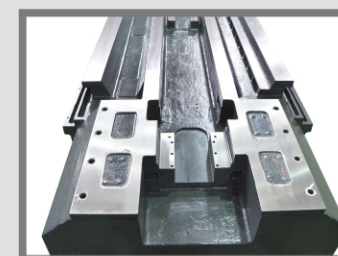
- Fully supported 4-way bed, rigid column provides best support for heavy cutting
- Full enclosed splash guard with wider door opening.
- Wider Y axis travel (610mm - BT40, 720mm - BT50)
- 6000rpm Gear box (Optional) is available for efficient roughing and precise finishing.
- Pre-tensioned C3 ball screws with directly coupled feeding design
- Spindle cooling system is equipped to keep continuous stable machining.
- Automatic oil lubrication system for guide was and ball screws
- Absolute pulse coder servo motors directly coupled with ball screws assure best drive performance and accuracy.



模具、精密零件加工致勝利器！



- 底座採用四軌設計，立柱提供最佳支撐剛性，適合重切削加工。
- 全罩式鈹金，搭配超寬前門設計。
- 齒輪頭6000RPM (選購配備)，可有效粗銑及精加工。
- 採用C3級大直徑滾珠螺桿預壓，直結傳動設計。
- 主軸冷卻裝置確保主軸精度，穩定加工品質。
- 採用優良括花技術，確保接觸面最佳組裝精度及均衡負載。
- 絕對式伺服馬達編碼器，直結高剛性聯軸器傳動滾珠螺桿，加速反應精度優良。



Fully supported 4-guideway bed

底座四軌設計，剛性強
適合重切削



Powerful, Reliable spindle Head
Gear box 6000 rpm, Taper #50
2 steps gear spindle head
Spindle equipped with loading tool
release mechanism

兩段式主軸頭齒輪箱
6000 rpm, 50#. 齒輪變速增強
低速之扭力

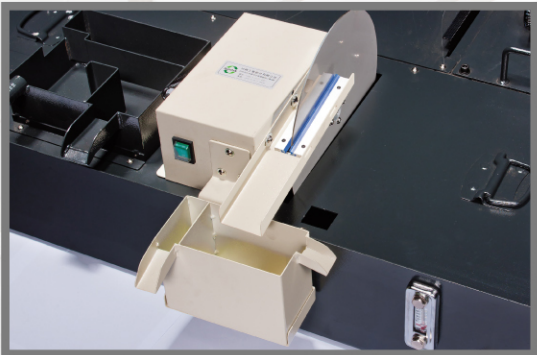
OPTIONAL ACCESSORIES / 選購 配備



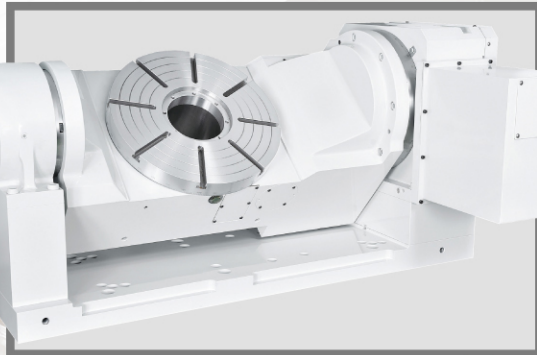
Workpiece measurement system
Renishaw OMP-60
工件量測系統



Air-Conditioner for Electrical Cabinet
電器箱冷氣機

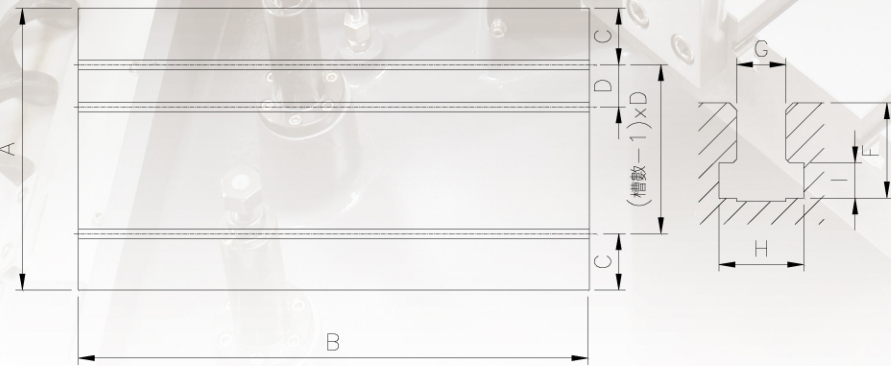


Oil Skimmer - Disc type
油水分離機 - 圓盤式



CNC Tilting & Rotary Table
CNC 電腦數控雙軸分度盤

Working Table / 工作台尺寸

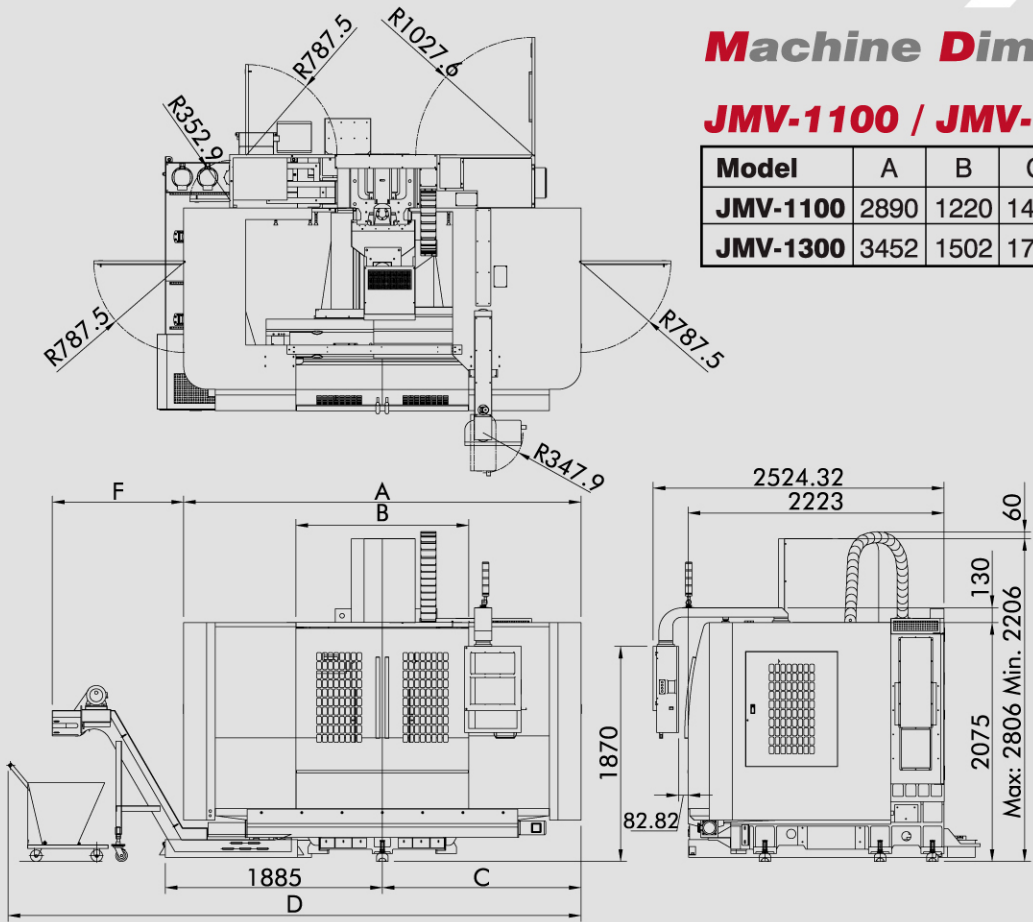


Model	Unit	A	B	C	D	E	F	G	H	I	No.
JMV-1100	mm	650	1250	75	125	500	30	18	30	12	5
JMV-1200	mm	700	1350	90	130	520	30	18	30	13	5
JMV-1300	mm	650	1450	75	125	500	30	18	30	12	5
JMV-1400	mm	700	1550	90	130	520	30	18	30	13	5

Machine Dimensions

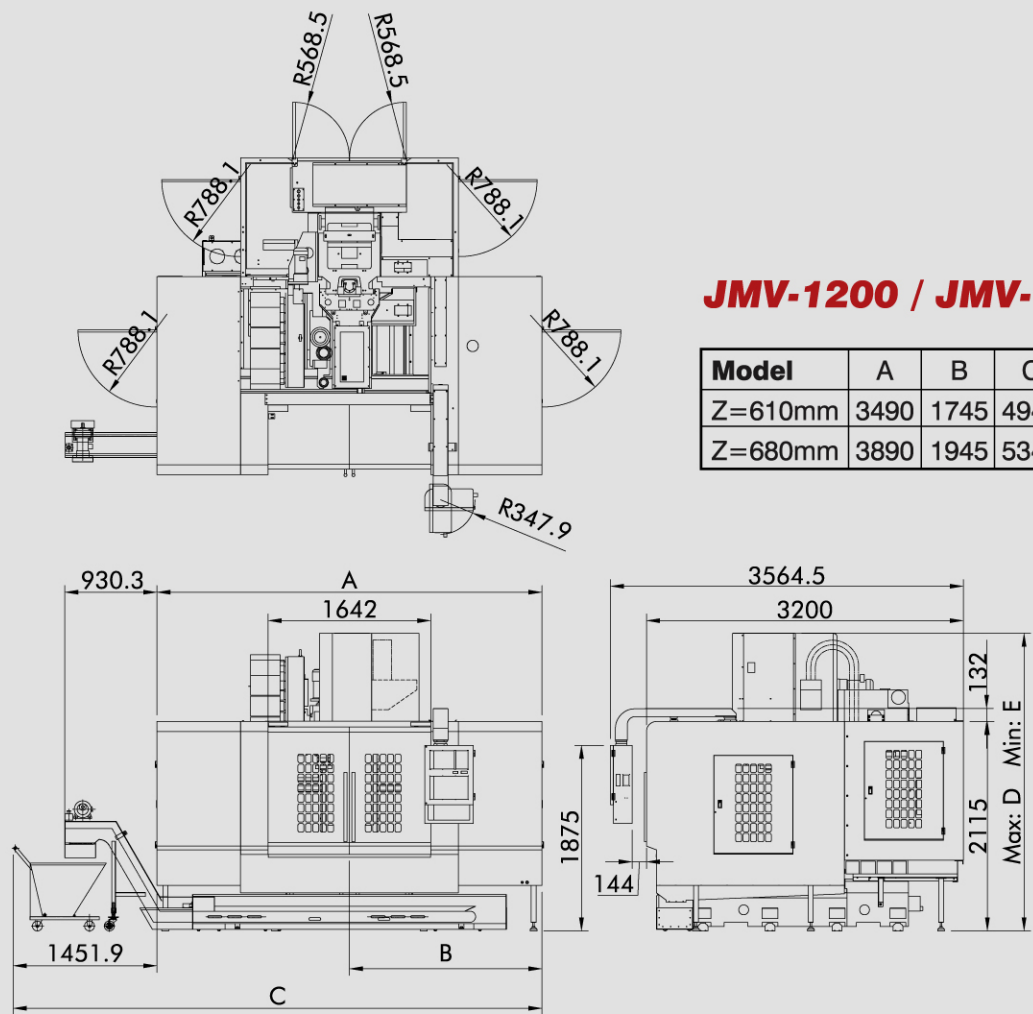
JMV-1100 / JMV-1300 Unit: mm

Model	A	B	C	D	E	F
JMV-1100	2890	1220	1445	4365.3	1800	1280
JMV-1300	3452	1502	1726	4977.3	1885	1140



JMV-1200 / JMV-1400 Unit: mm

Model	A	B	C	D	E
Z=610mm	3490	1745	4942	2845	2235
Z=680mm	3890	1945	5342	3007	2327



Specifications

MODEL	型號	UNIT	JMV-1100		JMV-1300	
3- Axes travel	三軸行程		Box Way Series			
X axis travel	X 軸行程	mm	1100		1300	
Y axis travel	Y 軸行程	mm	600		650	
Z axis travel	Z 軸行程	mm	600		600	
Distance from spindle nose to table surface	主軸鼻端至工作台面	mm	120-720		120-720	
TABLE	工作台					
Table area	長度 × 寬度	mm	1250 x 650		1450 x 650	
Max. loading capacity	最大荷重	kgs	880		1000	
T-slot	T 型槽規格	mm	5 x 18 x 125		5 x 18 x 125	
SPINDLE	主軸					
Spindle taper	型式	type	BT-40	BT-50 (opt.)	BT-40	BT-50 (opt.)
Spindle speed	轉速	rpm	8000	6000 (opt.)	8000	6000 (opt.)
Spindle drive	傳動方式	type	Belt type		Belt type	
Spindle motor	主軸馬達	kw	7.5 / 11		11 / 15	
Spindle cooling	主軸冷卻	type	Oil cooler (std.)		Oil cooler (std.)	
FEED RATE	進給					
Rapid traverse (X, Y)	快速位移 (X, Y軸)	m/min	18		18	
Rapid traverse (Z)	快速位移 (Z軸)	m/min	15		15	
Cutting feed rate	切削進給率	mm/min	1-10000		1-10000	
X, Y, Z axis servo motor (FANUC)	三軸伺服馬達 (X, Y, Z-發那科)	kw	2.5		3	
X, Y, Z axis servo motor (MITSUBISHI)	三軸伺服馬達 (X, Y, Z-三菱)	kw	3.5		3.5	
ATC	換刀系統					
Magazine type	刀庫方式	type	Carousel	Arm	Carousel	Arm
Tool magazine capacity	刀庫容量	pcs	16	24	16	24
Max. tool diameter	最大刀徑	mm	100 / 180	76 / 150	100 / 180	76 / 150
Max. tool length	最大刀具長度	mm	300	300	300	300
Max. tool weight	最大刀具重量	kgs	7	7	7	7
Tool selection	選刀方式	type	Fixed-type	Random	Fixed-type	Random
OTHER	其它					
Power consumption	電源需求規格	KVA	20		20	
Machine Dia (L x W x H)	外型尺寸 (L x W x H)	mm	3245 x 2560 x 2620		3650 x 2560 x 2620	
Machine weight	機器重量	kgs	7500		8000	

Design and specifications are subject to change without prior notice.

Standard Accessories

- Full splash guard
- Spindle speed 8000 rpm (BT40)
- Spindle motor 7.5/11 kw (JMV-1100)
- Spindle motor 11/15 kw (JMV-1300)
- Armless ATC 16 tools (BT40)
- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger
- Telescopic covers for 3 axes
- Work lamp
- Three-color call light
- Tool box
- Coolant gun
- Screw type chip conveyor

Optional Accessories

- Transformer
- CE Mark
- Armless type ATC 20 tools (BT40 or BT50)
- Arm type ATC 24 / 30 tools(BT40 or BT50)
- Spindle motor 11/15 kw
- Spindle motor 15/18.5 kw
- Belt type spindle speed 6000 rpm (BT50)
- Belt type spindle speed 10000/12000 rpm (BT40)
- Direct drive spindle speed 12000/15000 rpm (BT40)
- Rear coolant flushing device
- Oil skimmer
- Coolant through spindle (With sealed splash guard)
- Chain type chip conveyor + Chip cart
- 4th axis preparation
- 4th axis rotary table
- CNC Tilting & Rotary table
- ZF gear box

標準配件

- 全罩式鉸金護罩
- 主軸轉速 8000 rpm (BT40)
- 主軸馬達 7.5/11 kw (JMV-1100)
- 主軸馬達 11/15 kw (JMV-1300)
- 日內瓦式刀庫 16把刀 (BT40)
- 剛性攻牙
- 冷卻系統
- 自動潤滑系統
- 主軸冷卻器
- 熱交換器
- 三軸伸縮護蓋
- 工作燈
- 三色警示燈
- 工具箱
- 水槍
- 螺旋式捲屑機

選購配件

- 變壓器
- CE Mark
- 日內瓦式刀庫 20把刀 (BT40 or BT50)
- 刀臂式刀庫 24 / 30把刀 (BT40 or BT50)
- 主軸馬達 11/15 kw
- 主軸馬達 15/18.5 kw
- 皮帶式主軸 6000 rpm (BT50)
- 皮帶式主軸 10000/12000 rpm (BT40)
- 直結式主軸 12000/15000 rpm (BT40)
- 後沖水
- 油水分離機
- 主軸中心出水 (含全密式鉸金)
- 履帶式鐵屑輸送機 + 鐵屑車
- 第四軸準備
- 第四軸旋轉工作台
- 第四、五軸旋轉工作台
- ZF 齒輪箱

Specifications

MODEL	型號	UNIT	JMV-1200		JMV-1400	
TRAVEL	三軸行程		Box Way		Box Way	
X axis travel	X 軸行程	mm	1200		1400	
Y axis travel	Y 軸行程	mm	720		720	
Z axis travel (#40 taper)	Z 軸行程 (#40)	mm	610		610	
Z axis travel (#50 taper – opt.)	Z 軸行程 (#50 - opt.)	mm	680		680	
Spindle nose to table surface (#40)	主軸鼻端至工作台面 (#40)	mm	150-760		150-760	
Spindle nose to table surface (#50 – opt.)	主軸鼻端至工作台面 (#50 - opt.)	mm	170-850		170-850	
Distance from spindle center to column	主軸中心至機身軌道面距離	mm	745		745	
TABLE	工作台					
Table area	工作台尺寸	mm	1350 x 700		1550 x 700	
Max. loading capacity	最大荷重	kgs	1600		2000	
T-slot	T 型槽規格	mm	5 x 18 x 130		5 x 18 x 130	
SPINDLE	主軸					
Spindle taper	型式		BT40 (#50 - opt.)		BT40 (#50 - opt.)	
Spindle speed (#40, Belt head)	轉速 (#40, 皮帶頭)	rpm	8000 (10000/12000 - opt.)		8000 (10000/12000 - opt.)	
(#50, Belt head)	(#50, 皮帶頭)	rpm	6000 (opt.)		6000 (opt.)	
(#50, Gear box)	(#50, 齒輪頭)	rpm	6000 (opt.)		6000 (opt.)	
Spindle motor	主軸馬達	kw	11 / 15		11 / 15	
Spindle cooling	主軸冷卻		Oil cooler (std.)		Oil cooler (std.)	
FEED RATE	進給					
Rapid traverse (X, Y)	快速位移 (X, Y軸)	m/min	18		18	
Rapid traverse (Z)	快速位移 (Z軸)	m/min	15		15	
Cutting feed rate	切削進給率	mm	10000		10000	
SERVO MOTOR	換刀系統					
X Axis motor	X 軸伺服馬達	kw	3		3	
Y Axis motor	Y 軸伺服馬達	kw	3		3	
Z Axis motor	Z 軸伺服馬達	kw	3		3	
AUTO TOOL CHANGER	換刀系統					
Magazine type	刀庫方式		Carouse	Arm	Carouse	Arm
Tool magazine capacity	刀庫容量	pcs	16	24	16	24
Max. tool diameter	最大刀徑	mm	100-180	76 / 150	100-180	76 / 150
Max. tool length	最大刀具長度	mm	250	300	300	300
Max. tool weight	最大刀具重量	kgs	7	7	7	7
OTHER	其它					
Power consumption	電源需求規格	KVA	30		30	
Machine Dia (L x W x H)	外型尺寸 (L x W x H)	mm	3790 x 3800 x 2845		4190 x 3800 x 3010	
Machine weight	機器重量	kgs	8500		9500	

Design and specifications are subject to change without prior notice.

Standard Accessories

- Full splash guard
- Spindle speed 8000 rpm (BT40)
- Spindle motor 11/15 kw
- Armless ATC 16 tools (BT40)
- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger
- Telescopic covers for 3 axes
- Work lamp
- Three-color call light
- Tool box
- Coolant gun
- Screw type chip conveyor

Optional Accessories

- Transformer
- CE Mark
- Armless type ATC 20 tools (BT40 or BT50)
- Arm type ATC 24 / 30 tools (BT40 or BT50)
- Spindle motor 15/18.5 kw
- Belt type spindle speed 6000 rpm (BT50)
- Belt type spindle speed 10000/12000 rpm (BT40)
- Direct drive spindle speed 12000/15000 rpm (BT40)
- Rear coolant flushing device
- Oil skimmer
- Coolant through spindle (With sealed splash guard)
- Chain type chip conveyor + Chip cart
- 4th axis preparation
- 4th axis rotary table
- CNC Tilting & Rotary table
- Gear box headstock
- * Armless ATC not available

標準配件

- 全罩式鋁金護罩
- 主軸轉速 8000 rpm (BT40)
- 主軸馬達 11/15 kw
- 日內瓦式刀庫 16把刀 (BT40)
- 剛性攻牙
- 冷卻系統
- 自動潤滑系統
- 主軸冷卻器
- 熱交換器
- 三軸伸縮護蓋
- 工作燈
- 三色警示燈
- 工具箱
- 水槍
- 螺旋式捲屑機

選購配件

- 變壓器
- CE Mark
- 日內瓦式刀庫 20把刀 (BT40 or BT50)
- 刀臂式刀庫 24 / 30把刀 (BT40 or BT50)
- 主軸馬達 15/18.5 kw
- 皮帶式主軸 6000 rpm (BT50)
- 皮帶式主軸 10000/12000 rpm (BT40)
- 直結式主軸 12000/15000 rpm (BT40)
- 後沖水
- 油水分離機
- 主軸中心出水 (含全密式鋁金)
- 履帶式鐵屑輸送機 + 鐵屑車
- 第四軸準備
- 第四軸旋轉工作台
- 第四、五軸旋轉工作台
- 全齒式齒輪箱
- * 不能搭配斗笠式刀庫