



CNC Tapping Machining Center

CNC Vertical Machining Center



ISO-9001



EXCELLENT · FEATURES · PROVIDE · VALUE



# CONTENT

EXCELLENT • FEATURES • PROVIDE • VALUE

**02** EQUIPTOP History

**03** EQUIPTOP Patents

**04** *CNC* Tapping Machine Center

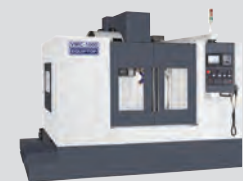
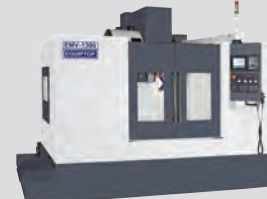
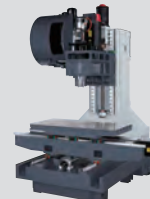
**05** *APC* Tapping Machining Center

**06** *EMV* Vertical Machining Center

**12** *VMC* BOX Guideway Series

**14** *EMV* 5 AXIS Vertical Machining Center

**15** *Specification*



# EXCELLENT FEATURES PROVIDE VALUE

HIGH SPEED

STABLE

CORRECT

RELIABLE

- 1988 Established "EQUIPTOP MACHINERY CO., LTD" Made a speciality of developing high precision surface grinders.
- 1990 Developed ESG-618 & 818 ASD series, 3 axis fully automatic surface grinders. Used PC-CAD to upgrade mechanical design and development.
- 1992 Developed ESG-1228 & 1236 ASD series, 3 axis fully automatic surface grinders.
- 1993 Developed ESG-1632 & 1640 ASD series, 3 axis fully automatic surface grinders.
- 1995 Developed ESG-1020 & 1224 ASD series, 3 axis fully automatic surface grinders. Obtained CE-Mark certificate from AMTRI CE in England.
- 1997 Developed ESG-2448 to 2480, 3axis fully automatic, digital positioning ADX series, with a downfeed jog movement providing just 0.5  $\mu$ m super microfeed for finer production finish.  
Column type surface grinder, using high anti-wear, heavy duty preloaded, H class linear guideway.
- 1998 Awarded ISO 9002 Certification by DNV company of Netherlands.
- 1999 Invested in "NANJING EQUIPTOP PRECISION MACHINERY CO., LTD." as branch in China.
- 2000 Developed ESG-3260 to 32120, 3axis fully automatic, smart digital positioning ADX series.  
Reveived certified CE-MARK by DNV company.
- 2001 Awarded Certified ISO 9000 by Bell company.  
Developed NC series, 3 axis fully automatic smart digital positioning grinders.
- 2002 Grand Opening of a new factory. The new facility is over 13,000m<sup>2</sup>.  
Invested 1.6 hundred million dollars in this new headquarters.  
Successfully developed new complex grinders, moving EQUIPTOP into the high technology area.  
Renamed the company as "EQUIPTOP HITECH CORP."

- 2003 Awarded publication 2000 ISO 9001 certification. Developed "ASD II " series, 3 axis, fully automatic digital positioning grinders. Developed "ACUMEM " super microfeed servo control and auto-wheel dressing & compensation system grinders.
- 2004 Established the branch in Wu Hsi-Shuai Hung Precision Machinery LTD. to expand China market.  
Developed cantilever type ESG-6120~8300 ASD II series, 3 axis, fully automatic surface grinders.
- 2005 Obtained the prize of Taiwan Precision Product in manufacturing NC surface profile grinder.
- 2006 Developed ETM510APC tapping machine with auto pallet changer system & Double column grinding machine, table size 1500x3000~1500x5000 are available.
- 2008 Double column grinding machine, table size 1500x3000~1500x5000 are available.
- 2010 Upgrade ASD II series to TD type. PLC control & touch color screen.
- 2012 Double column type grinding machine, table size 1200x3000~1200x5000 are available. Developed ESG-2448 to 24120, 3axis fully automatic TD type with touch color screen.
- 2013 Execute rotary & square constitute, hydrostatic spindle and guide rail program. Presented EMV-600APC auto pallet change, and 800 x2000~5000mm, 1000x2000~5000 mm double column grinders.





# EQUIPTOP

*Innovative quality, specially design, quality manufacture & speedy service reputation ensure you long term satisfaction.*



## **National patents :**

- Longitudinal straight movement mechanism of surface grinder.
- Timing belt straight drive system.
- Dual motors, positioning and feeding mechanism.
- Timing belt straight drive system for the table of surface grinder.
- Roughing and micro table speed control mechanism.
- Surface grinding table reverse construction.
- Belt drive mechanism for surface grinding table.
- Multiple formed grinder.

- Dust collector.

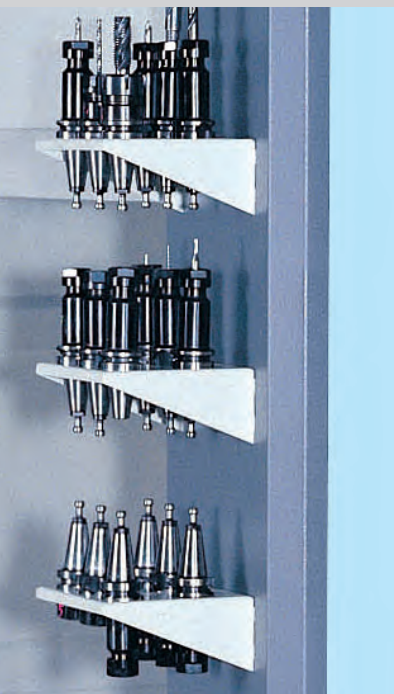
- Coolant and dust unit.
- NC & CNC multiple formed molds.
- Heats reduce system for motor fan construction.
- Synchronized machining works system.
- Dust collector turbine blade construction for surface grinder.
- The constructions improvement of dust & coolant system for surface grinder.

## **German patents :**

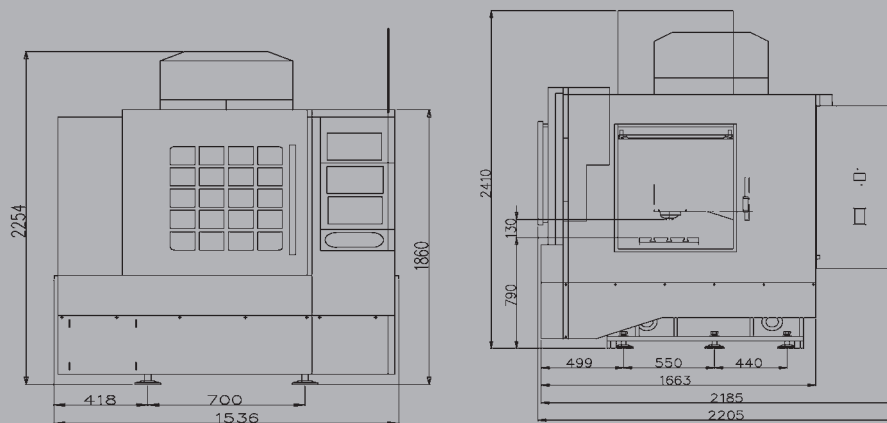
- Safety handwheel system.



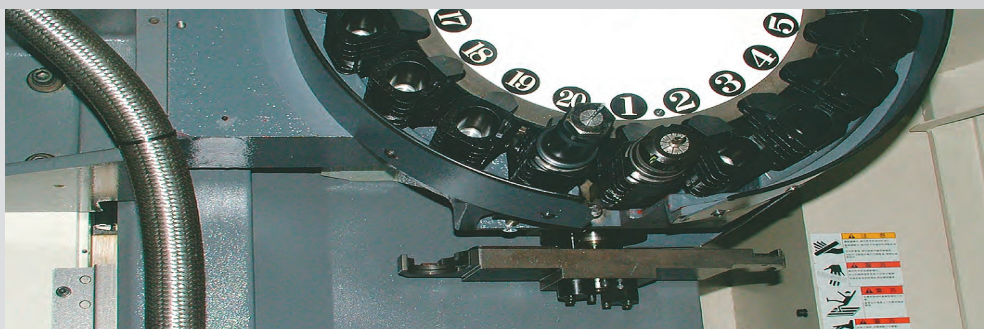
# ETM-510



Convenient, simple & easy to use tool stand including tool-locked device.



- Innovative quality, specially design, quality manufacture & speedy service reputation ensure you long term satisfaction.
- Working High Precision & Strict Quality.

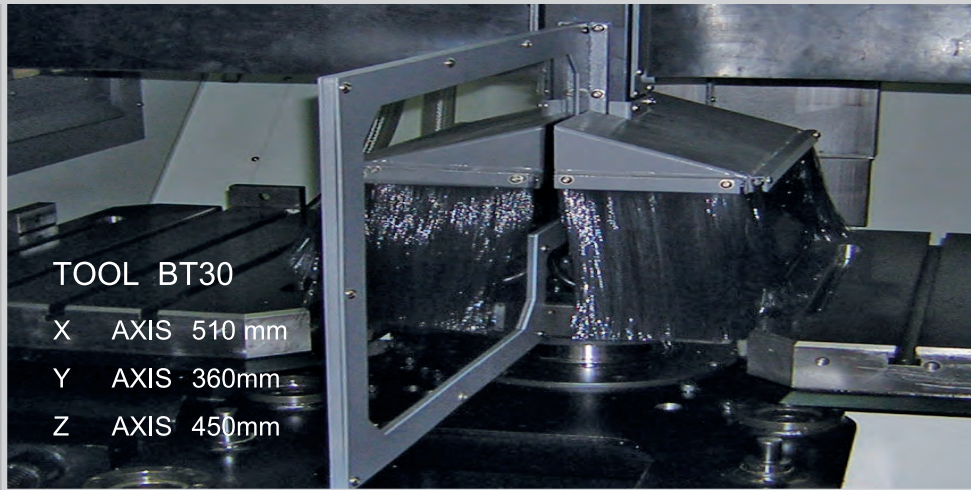


Arm type ATC 20 tools:

The fast, simple and long-life automatic tool changer provide stable and reliable tool change.



# EMV-510APC



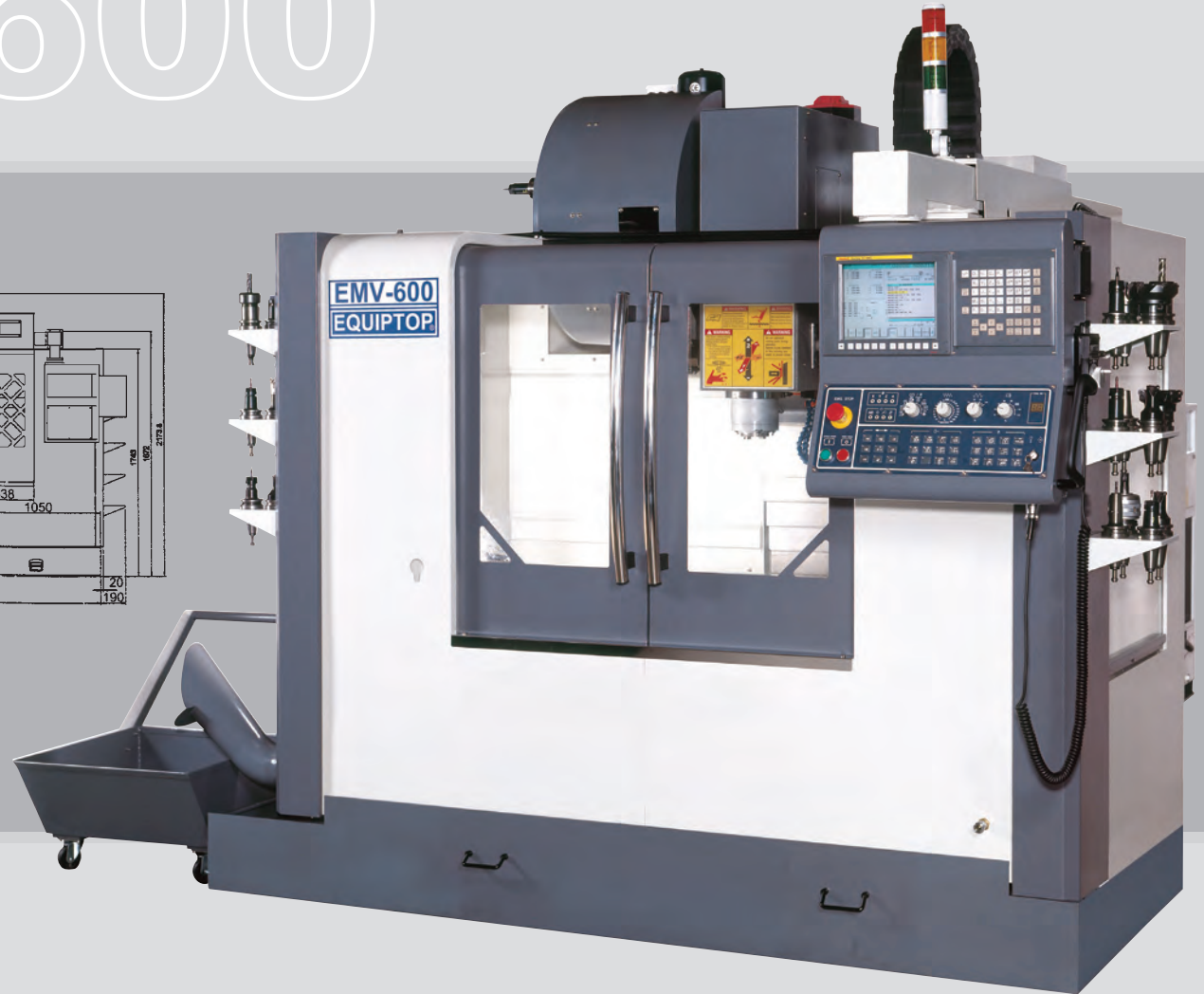
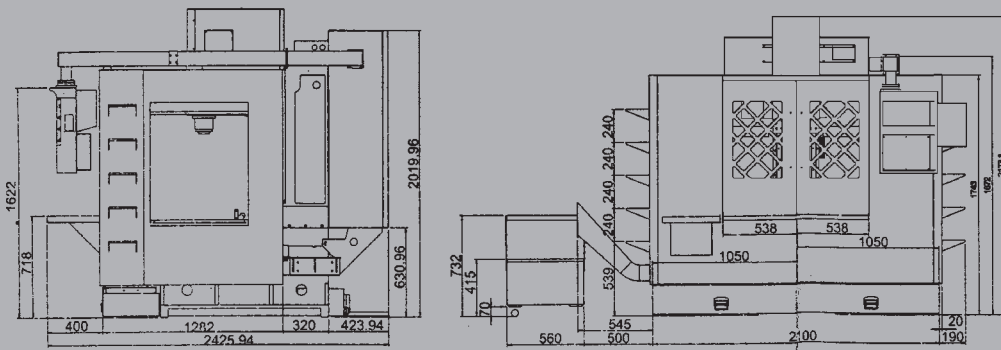
- Popular Innovative Pallet Change Efficient Process
- Working High Precision & Strict Quality



**APC Tapping Machining Center**



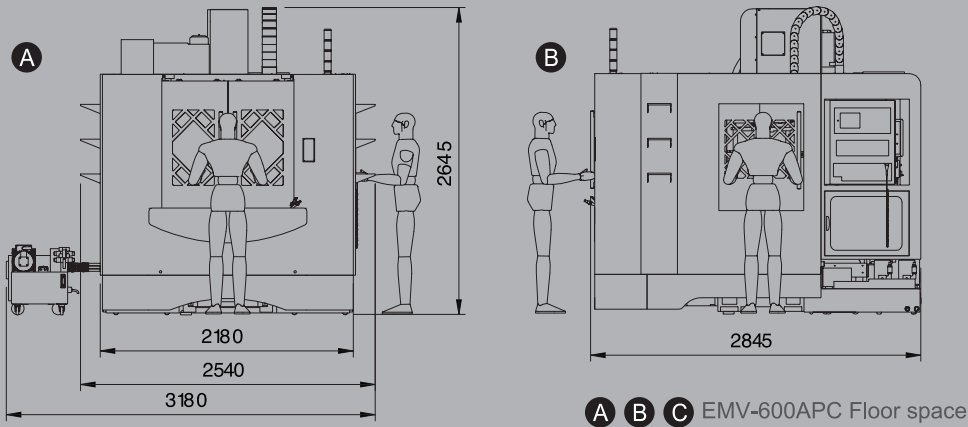
# EMV-600



- Pretension ballscrew for X, Y, Z, axis, ensure high positioning accuracy and durability.
- Throughtfully detail to suit easy access to assist precision operation, main & easy service.



# EMV-600 APC



Popular Innovative Pallet Change Efficient Process, Working High Precision & Strict Quality

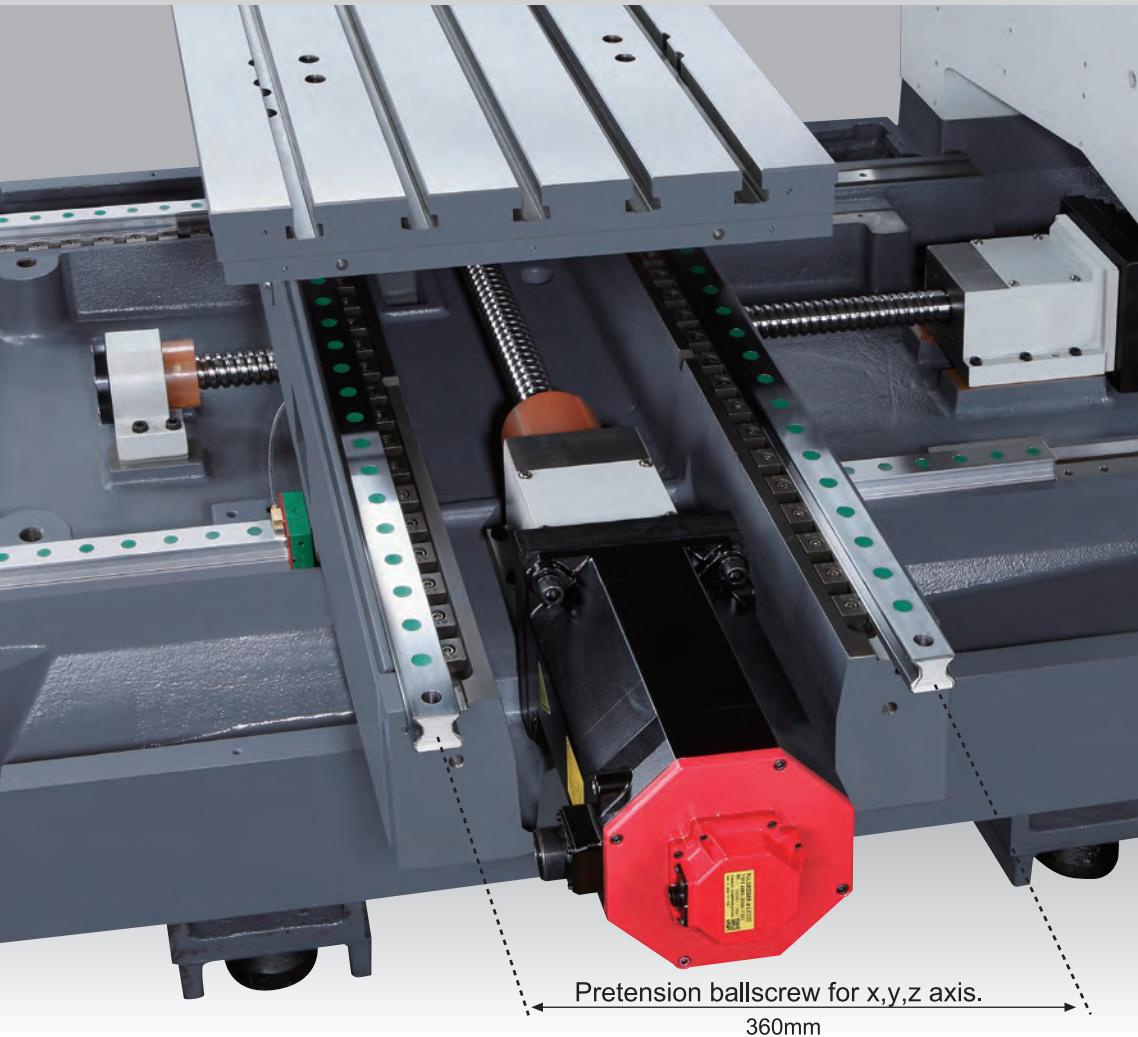


Tuck type swing operation panel (EMV-600APC)

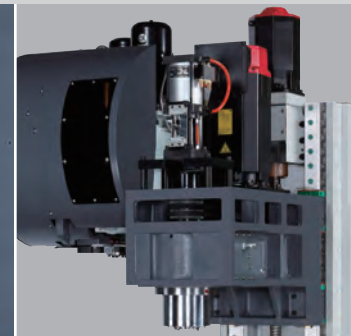
**APC Vertical Machining Center**

# EXCELLENT FEATURES PROVIDE VALUE

High Rigidity, High Accuracy Construction Design.



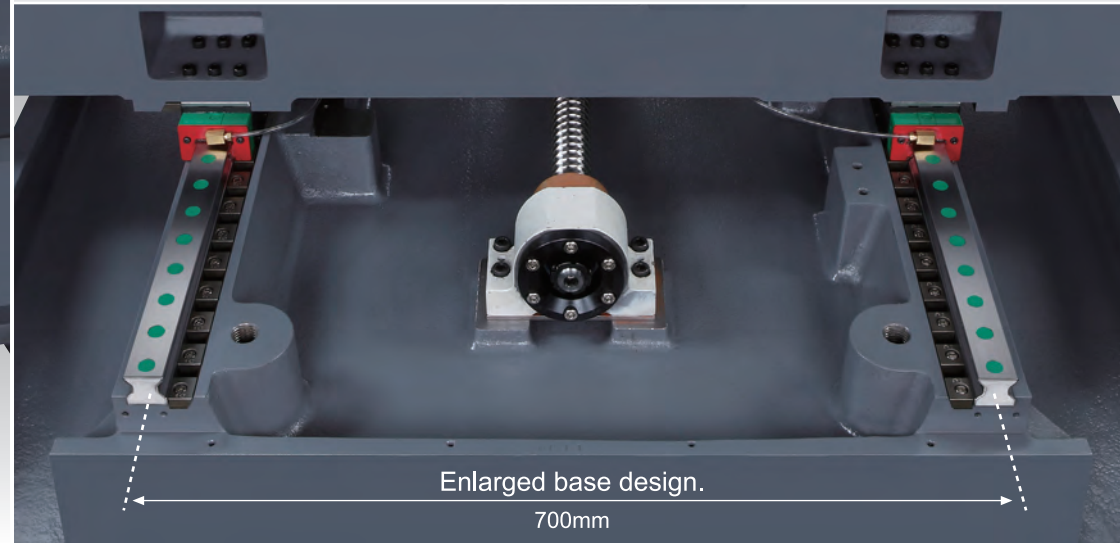
Convenient, simple & easy to use tool stand including tool-locked device.



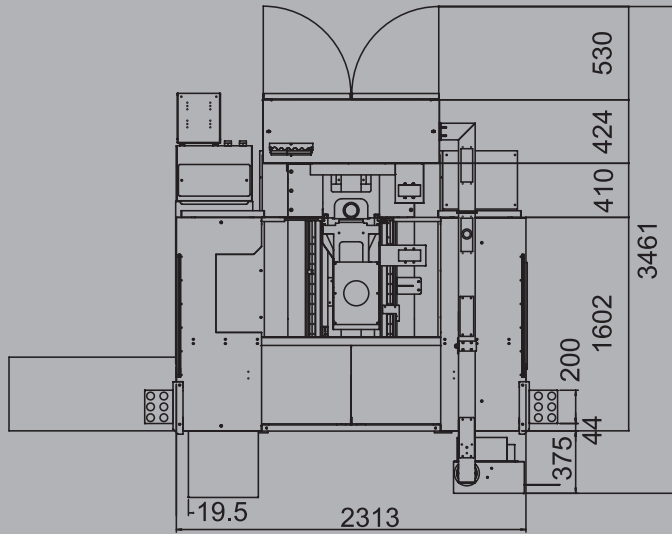
The floating draw bar mechanism is applied. The tool clamping force will not transmit to the spindle bearing. This extends the spindle bearing service life.



The Renishaw ball bar instrument calibrates the circularity and the geometrical accuracy to ensure precise three-dimensional motions.



# EMV-860 / 1020



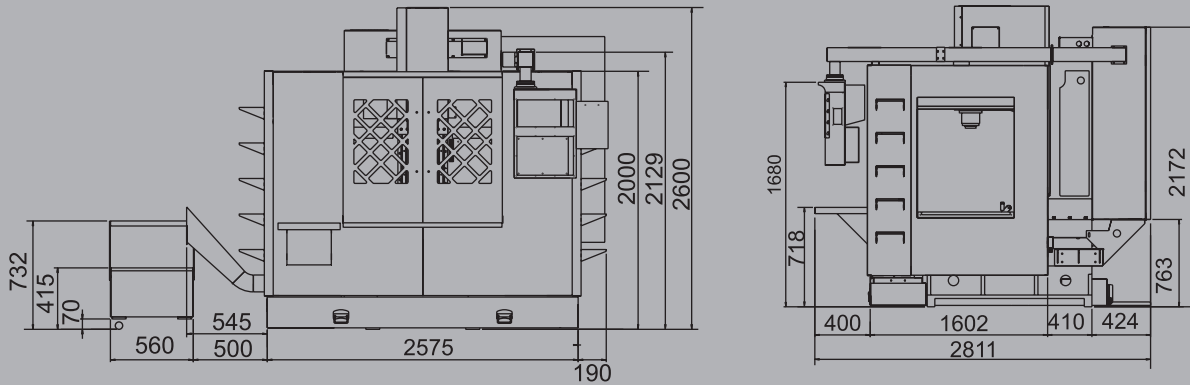
## 3 Axis Linear Way Series

- Pretension ballscrew for X, Y, Z, axis, ensure high positioning accuracy and durability.
- Thoroughly detail to suit easy access to assist precision operation, main & easy service.

***EMV CNC Vertical Machining Center***

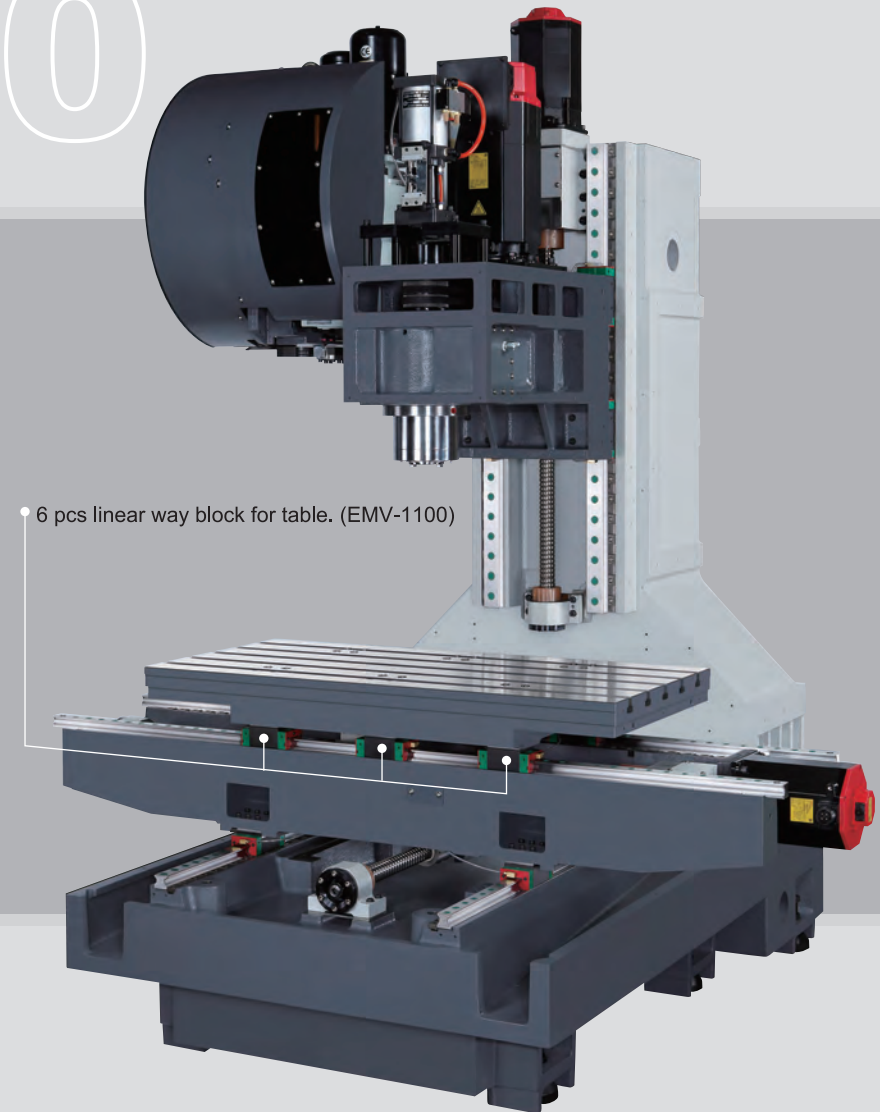


# EMV-1100

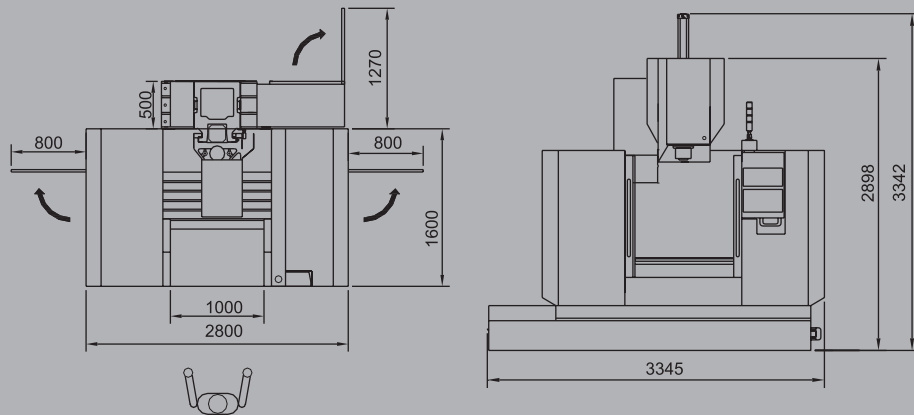


## HIGH RIGIDITY, HIGH ACCURACY CONSTRUCTION DESIGN

- Pretension ballscrew for X, Y, Z, axis, ensure high positioning accuracy and durability.
- Throughtfully detail to suit easy access to assist precision operation, main & easy service.



# EMV-1300



## ***X,Y,Z Axis Linear Guideway Mechanism.***

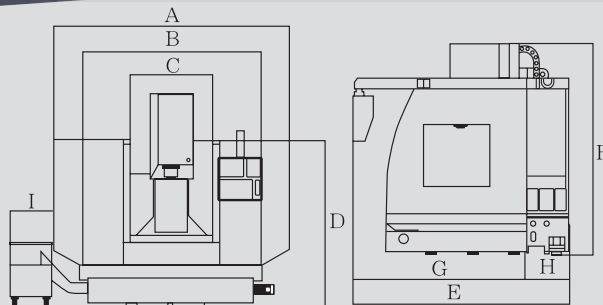
- The best choice of high-speed & high-precision machining center.
- Four slideways with eight blocks to support the wide base, ensuring the rigidity & durability of the machine.

MODEL	EMV-860	EMV-1020	EMV-1100	EMV-1300
X-axis Travel	860mm	1020mm	1100mm	1300mm
Y-axis Travel	560mm	560mm	560mm	600mm
Z-axis Travel	600mm	600mm	600mm	600mm

***EMV CNC Vertical Machining Center***

# VMC Series

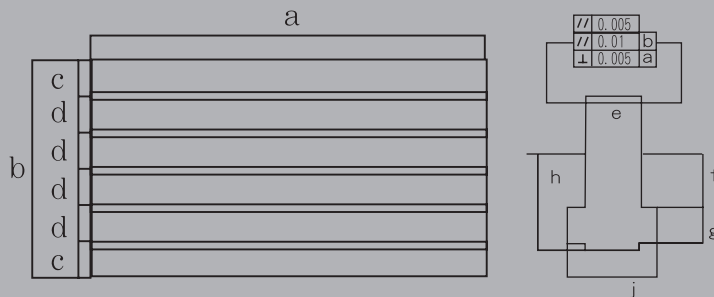
## VMC-850 / 1000 / 1100 / 1300



MODEL	VMC-850	VMC-1000	VMC-1100	VMC-1300
X-axis Travel	850mm	1000mm	1100mm	1300mm
Y-axis Travel	600mm	600mm	650mm	650mm
Z-axis Travel	600mm	600mm	610mm	610mm

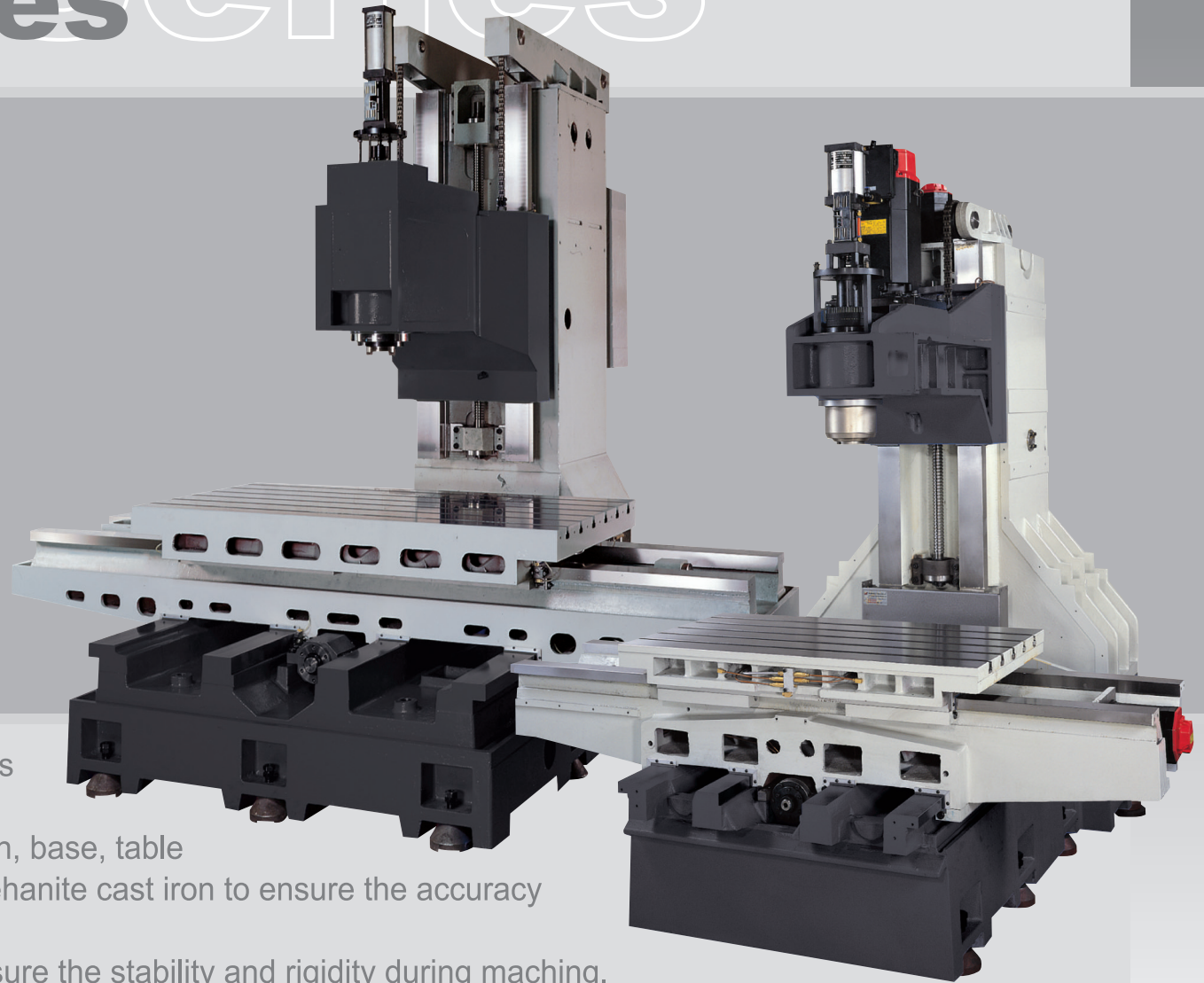


# VMC Series

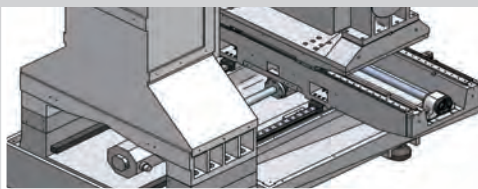
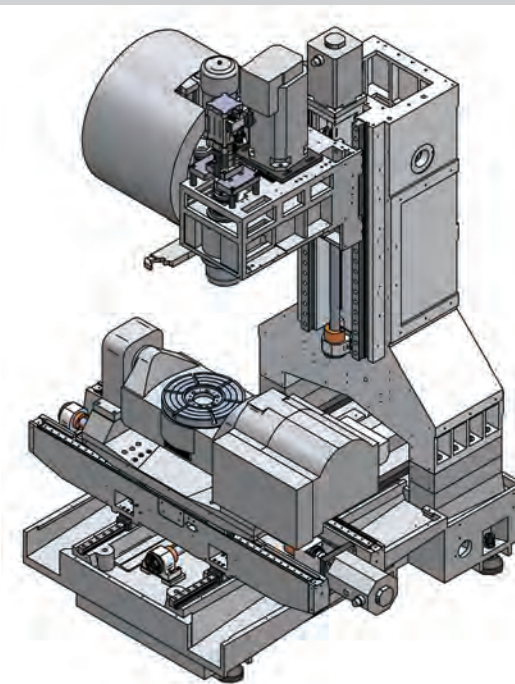
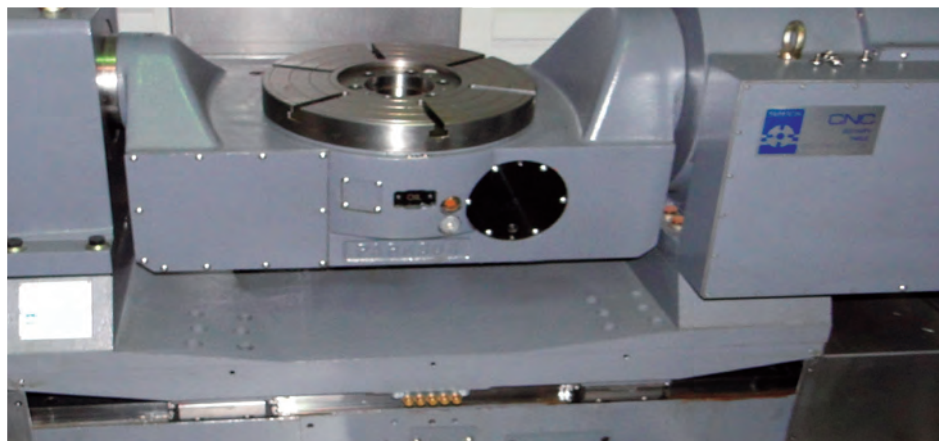
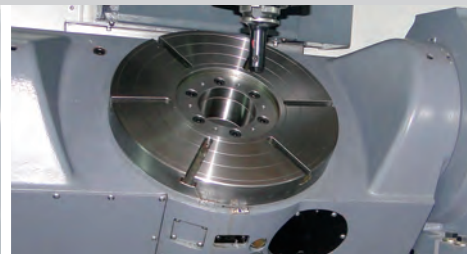
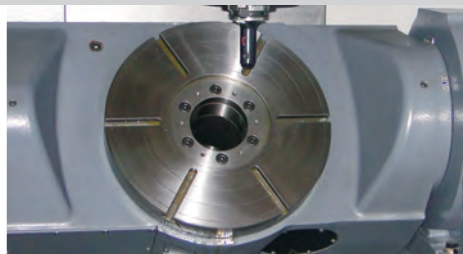
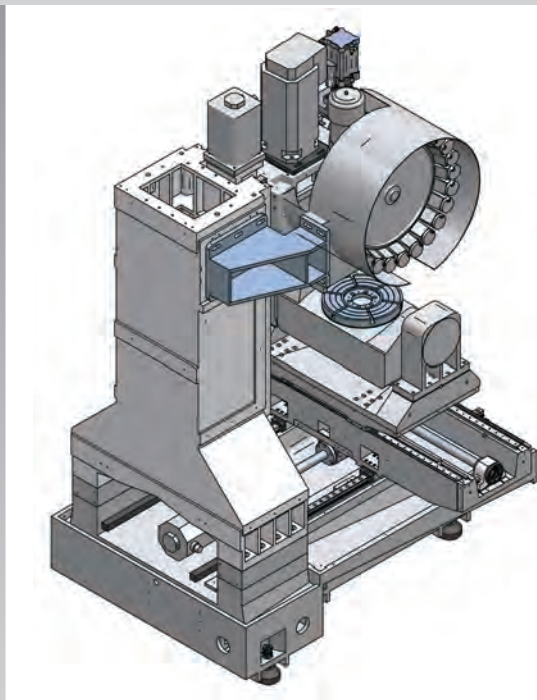


MODEL	A	B	C	D	E	F	G	H	I
VMC-850	2500	2150	850	1980	2615	2535	2080	530	500
VMC-1000	2800	2150	1000	1980	2615	2535	2080	530	500
VMC-1100	3350	2020	1100	2100	3200	2800	2810	530	500
VMC-1300	3750	2020	1300	2100	3200	2800	2810	530	500
MODEL	a	b	c	d	e	f	g	h	i
VMC-850	950	600	100	100	18	18	12	32	30
VMC-1000	1100	600	100	100	18	18	12	32	30
VMC-1100	1270	600	100	100	18	18	12	32	30
VMC-1300	1470	600	100	100	18	18	12	32	30

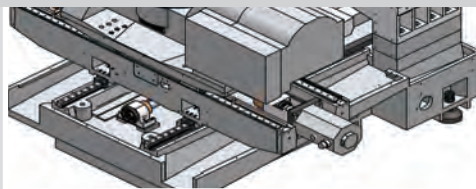
- Digital design with rigidity analysis for 3 axis casting.
- Heavy Structure & High rigidity! The column, base, table and saddle are all made of high quality Meehanite cast iron to ensure the accuracy and stability of the machine.
- Table and saddle are fully supported to assure the stability and rigidity during machining.



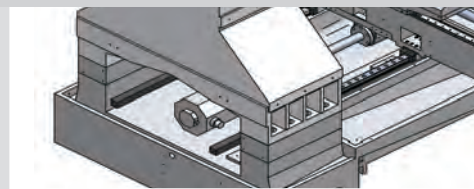
# EMV-5A250T



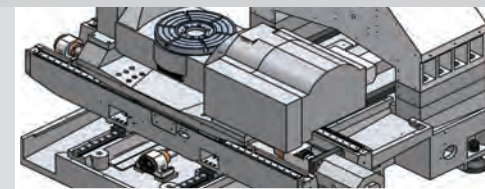
- ◎ **High precise ball screw**  
XYZ 3 axes transmission used by C3 class in  $\varnothing 40\text{mm}$  of ball screw.



- ◎ **High stability roller linear guide**  
XYZ 3 axes transmission used by C3 class in  $\varnothing 40\text{mm}$  of ball screw.



- ◎ **High quality Meehanite cast iron**  
Machine main structure of high-quality Meehanite cast iron tempering treatment to eliminate the internal stress, also ensure the quality and stability of the structure permanently.



- ◎ **Hollow ball screw cooling ( Optional )**  
XY axes screw with hollow cooling machine in the high-speed movement from the ball screw ball interactive friction heat generated by the temperature rise, resulting in the ball screw thermal displacement of the machine tool positioning accuracy.

# SPECIFICATION

## ETM / EMV SPECIFICATION

	Item	UNIT	ETM-510APC	ETM-510	EMV-600	EMV-600APC	EMV-860	EMV-1020	EMV-1100	EMV-1300	
Travel	Max. Travel For X Axis	mm	510	510	610	600	860	1020	1100	1300	
	Max. Travel For Y Axis	mm	360	400	460	460	560	560	560	600	
	Max. Travel For Z Axis	mm	450	450	480	480	600	600	600	600	
	Spindle Nose To Table	mm	160-610	200-650	150-630	150-630	150-750	150-750	150-750	125-725	
Spindle	Spindle Speed	rpm	8000 ; 10000(optional) / 12000(optional) / 15000(optional)								
ATC System	Tool Q'ty	只	Arm type 20T		Armless type 16T / Arm type 24T (optional)					Armless type20T Arm type 24T (optional)	
	Max. Tool Diameter	mm	65		120		120				
	Max. Tool Length	mm	200		300		300				
	Max. Tool Weight	kg	3		6		6				
	Tool Shank		BT30		BT40		BT40				
Spindle Motor	Mitsubishi // Fanuc	kw	3.7 , 5.5 (optional) // 7.5	3.7 // 7.5	7.5 // 7.5		11 // 11			15 // 11	
X / Y / Z Servo Motor	Mitsubishi // Fanuc	kw	1.0/1.0/3.0 // 1.6/1.6/3.0		1.5/1.5/3.5 // 1.6/1.6/3.0		2.0/2.0/3.5 // 4.0/4.0/4.0			3.5/3.5/3.5 // 4.0/4.0/4.0	
Table	Table Size	mm	(560x400) x2	600x360	700x450	(720x400)x2	910x560	1100x560	1200x560	1370x600	
	Max. Table Capacity	kg	200x2	250	600	550x2	800	1000	1100	1200	
	T-slot (Center x width x No.)	mm	100x14x5	100x18x3	125x18x3	125x18x3	100x18x5	100x18x5	100x18x5	100x18x5	
Feed Rate	X Rapid travel	M/mm	48 linear		48 linear		36 linear			32 linear	
	Y Rapid travel	M/mm	48 linear		48 linear		36 linear			32 linear	
	Z Rapid travel	M/mm	48 linear		32 linear		24 linear			24 linear	
	Cutting feed rate	mm/min	1-10000								
Controller	Mitsubishi or Fanuc		M70 / M80 or Oi-MF								
Other	Machine Weight	kg	4300	2800	4000	5000	5800	6300	6500	7200	
	Power Requirement	KVA	15	10	15	20	20			35	
Coolant Water ( L )	Air requirement	kg/cm²	6								

- The manufacturer reserves the right to modify the design, specifications or mechanisms, to improve the performances, without prior notice.
- All the specifications shown here are for reference only.



# SPECIFICATION

## VMC SPECIFICATION

	Item	UNIT	VMC-850	VMC-1000	VMC-1100	VMC-1300
Travel	Max. Travel For X Axis	mm	850	1000	1100	1300
	Max. Travel For Y Axis	mm	600		650	
	Max. Travel For Z Axis	mm	600		610	
	Spindle Nose To Table	mm	90-690		120-730	
Spindle	Spindle Speed	rpm	8000 ; 10000 (optional) / 12000 (optional)			
ATC System	Tool Q'ty	只	Armless type 16T / Arm type 24T (optional)		Armless type 20T / Arm type 24T (optional)	
	Max. Tool Diameter	mm	ø120mm			
	Max. Tool Length	mm	300			
	Max. Tool Weight	kg	6			
	Tool Shank		BT40			
Spindle Motor	Mitsubishi // Fanuc	kw	11 // 11		15 // 18.5	
X / Y / Z Servo Motor	Mitsubishi // Fanuc	kw	3.0 / 3.0 / 3.0 // 4.0 / 4.0 / 4.0		3.5 / 3.5 / 3.5 // 4.0 / 4.0 / 4.0	
Table	Table Size	mm	950x600	1100x600	1270x600	1410x600
	Max. Table Capacity	kg	800	1000	1100	1300
	T-slot (Center x width x No.)	mm	18x5x100			
Feed Rate	X Rapid travel	M/mm	20		18	
	Y Rapid travel	M/mm	20		18	
	Z Rapid travel	M/mm	15		15	
	Cutting feed rate	mm/min	1 ~ 10,000			
Controller	Mitsubishi or Fanuc		M70 / M80 or Oi-MF			
Other	Machine Weight	kg	5800	6250	6900	7200
	Power Requirement	KVA	25		35	
Coolant Water ( L )	Air requirement	kg/cm³	6			

- The manufacturer reserves the right to modify the design, specifications or mechanisms, to improve the performances, without prior notice.
- All the specifications shown here are for reference only.



# EQUIPTOP®



FAIR FRIEND ENT. GROUP



*"EQUIPTOP" means "TOP EQUIPMENT" A Wise Choice-Equiptop.*



**EQUIPTOP HITECH CORP.**

NO. 88, SAN FENG E. RD., HOULI DISTRICT,  
TAICHUNG CITY, TAIWAN 42156

■ TEL: +886-4-25576060

■ FAX: +886-4-25569677.25575866

■ e-mail: [equiptop@hibox.hinet.net](mailto:equiptop@hibox.hinet.net)

■ <http://www.equiptop.com.tw>

*[www.equiptop.com.tw](http://www.equiptop.com.tw)*