

MYTECH[®]

SHOU ZUAN
PRECISION MACHINERY CO., LTD.

No.46 Gen-Chen Rd., Shen Kung Dist.,
Taichung City 429012, Taiwan.

Tel. +886-4-2563 3015

Fax. +886-4-2563 2838

E-mail. sales@mytech-cnc.com

 www.mytech-cnc.com



 AGENT

MYTECH[®]

ELEGANCE IN TECHNOLOGY



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CE

SHOU ZUAN Double Column Vertical Machining Center

Double Column Vertical Machining Center

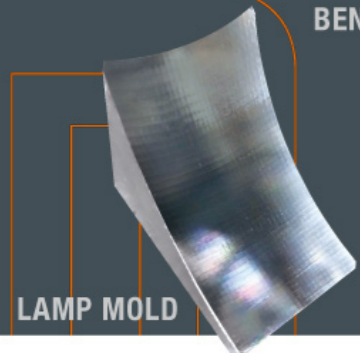
MT-2824VS

The body structure has undergone static rigid stress analysis, hoping to reduce the weight of the machine through the optimal structure design, while maintaining its necessary strength and rigidity. At the same time, with the correct lubrication and cooling system, it shows the excellent machine characteristics and higher value of MYTECH.

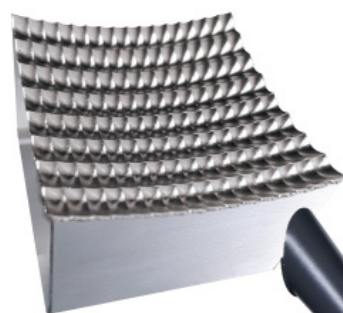
- Option: Repeatability accuracy 0.004mm on A & C Axes.
- It is a good choice for molds, semiconductor inspection fixtures, auto parts and other processing.



BENZ MOLD



LAMP MOLD



LAMP MOLD

- A** Z Axis special thermal insulation oil cooling design, blocking the heat source generated by the motor.
- B** The spindle type use built-in high-speed spindle with a maximum speed of 40Krpm, and is equipped with a high-precision spindle oil cooler.
- C** The special spindle head design improves the inconvenience of using a special tool length for mold processing, and is the best choice for mold processing.
- D** Three linear ways on X Axis under sitting design and improve the stability of heavy load support.
- E** Each MYTECH high speed 5 Axes machining center is equipped with spindle heat compensation system to improve the machine's high positioning accuracy and high precision workpiece are achieved.
- F** The coolant through ball screws on XYZ - Axes. It can ensure that the screw will not deform and elongate, so as to achieve high positioning accuracy.
- G** The base increases the inclination angle of the front chip removal, the design of the high-drop base chip removal groove, and covers the chip guide light plate to make the chip removal of the machine smooth without accumulation of chips.

SPINDLE OIL COOLER SYSTEM

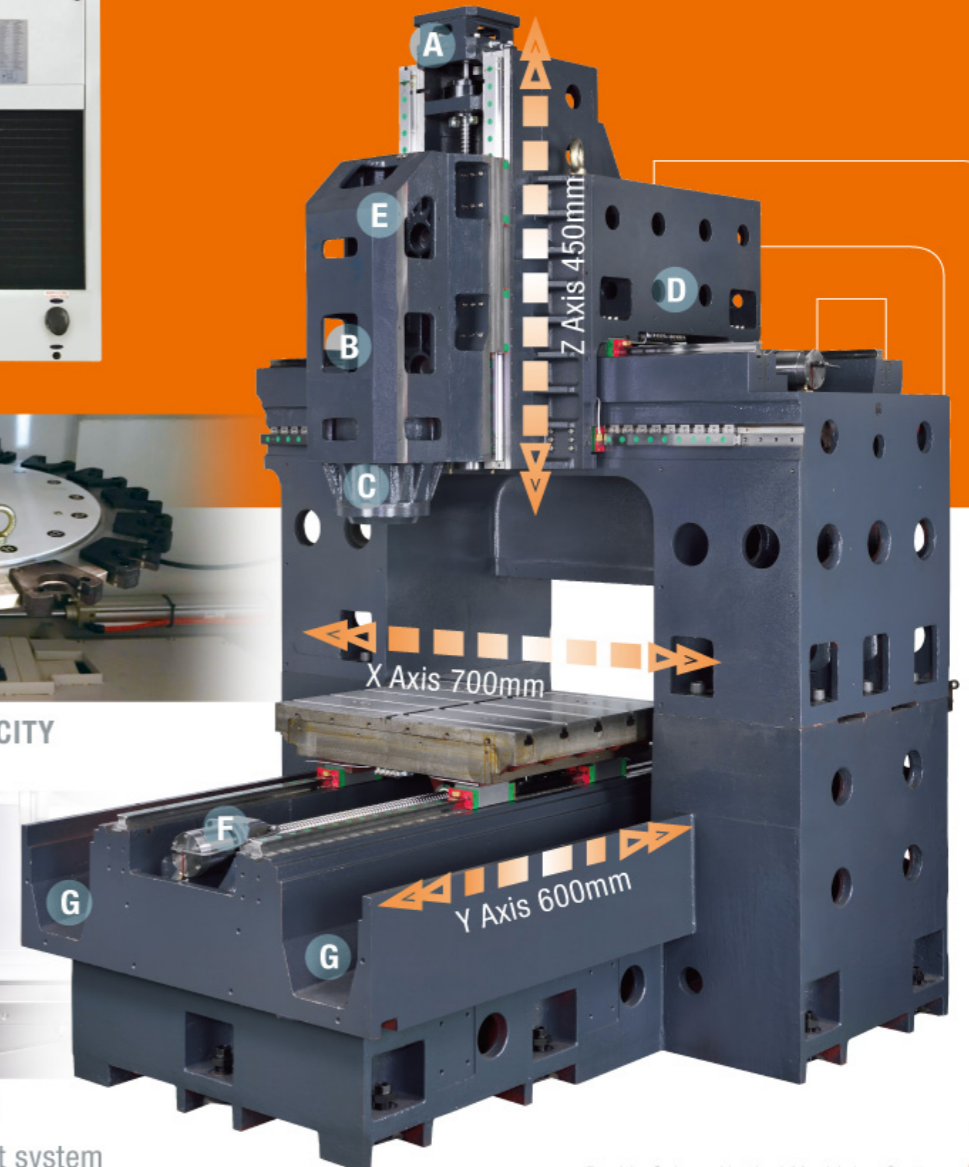


UMBRELLA TYPE 16T CAPACITY



AUTOMATIC DOOR FOR ATC

Cover for tool measurement system

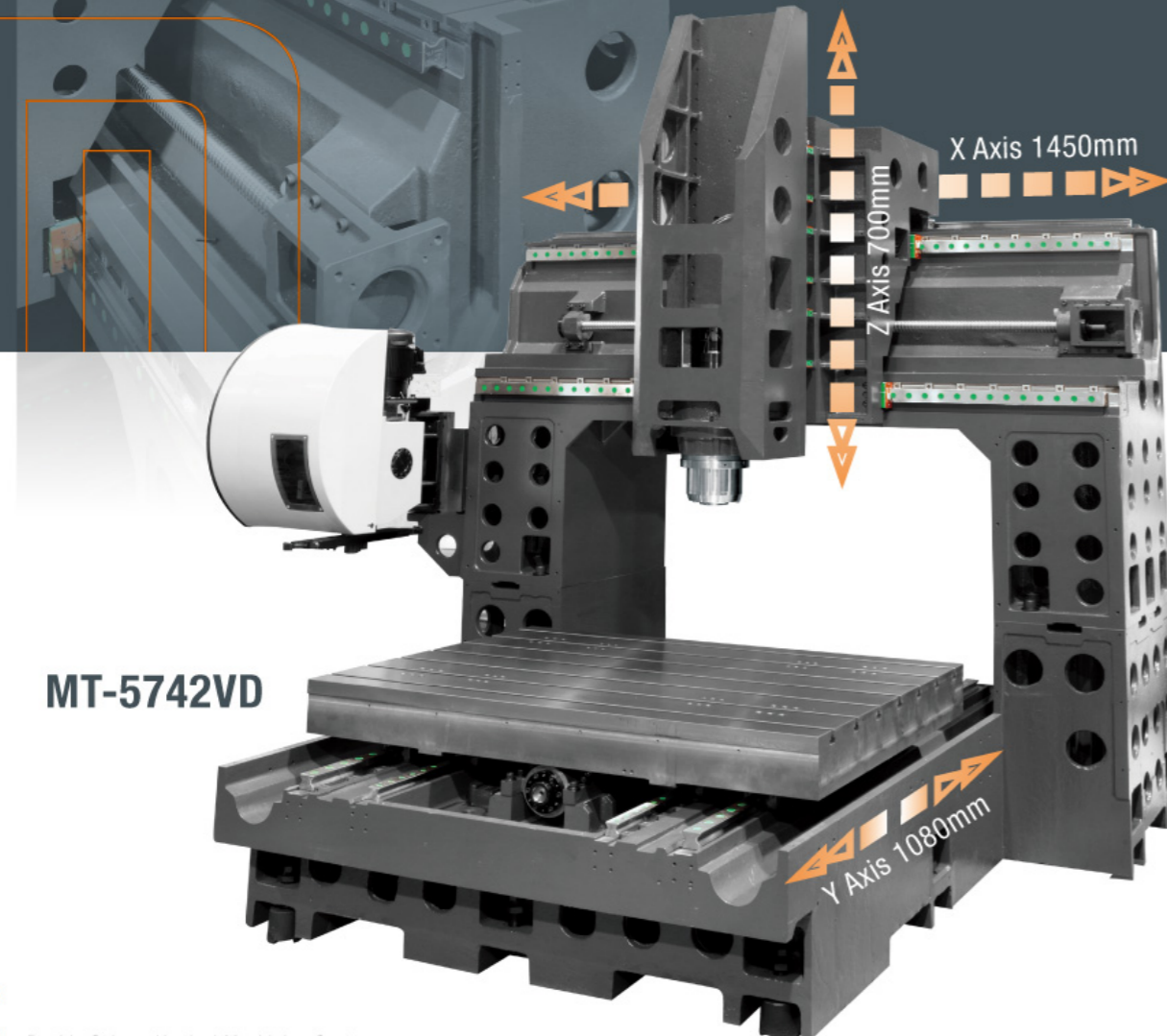


Double Column Vertical Machining Center

MYTECH®

ROBUST STRUCTURE

- | The major parts are manufactured from cast iron, strong structure and strong ability to withstand shock.
- | The entire machine structure has been analyzed and designed by SOLIDWORKS for superior rigidity and accuracy.
- | The column and base are both one-piece castings. It increase structural strength. And the contact surfaces are manually scraped to achieve the best assembly accuracy and balanced load.
- | The base is equipped with four roller linear guideways to effectively increase the load capacity of the worktable, which not only strengthens the machine structure but also maintains stable processing accuracy.
- | The column used ladder style with three-roller linear guideways, and the center of gravity drives the high-speed movement without shaking, which increases the cutting stability of the spindle. It also provides a honeycomb structure design to enhance earthquake resistance.
- | Three Axes roller type linear guideway, improve the cutting load to ensure dynamic accuracy and long service life.
- | Z Axis adopts direct drive servo motor with brake system and 6pcs block on linear guideway design to ensure the spindle's powerful, stable cutting ability and processing accuracy, which is especially suitable for the mold processing industry.



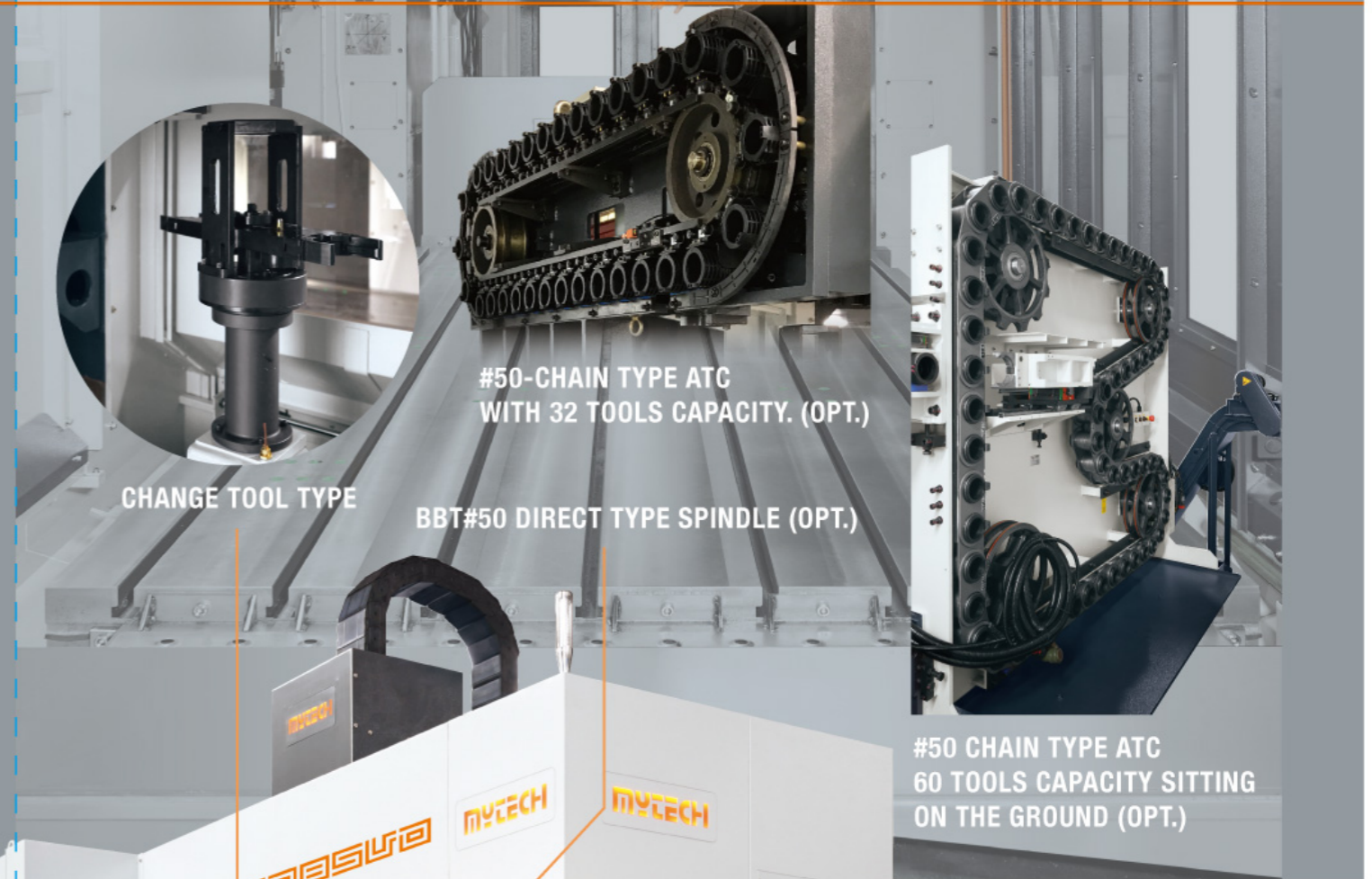
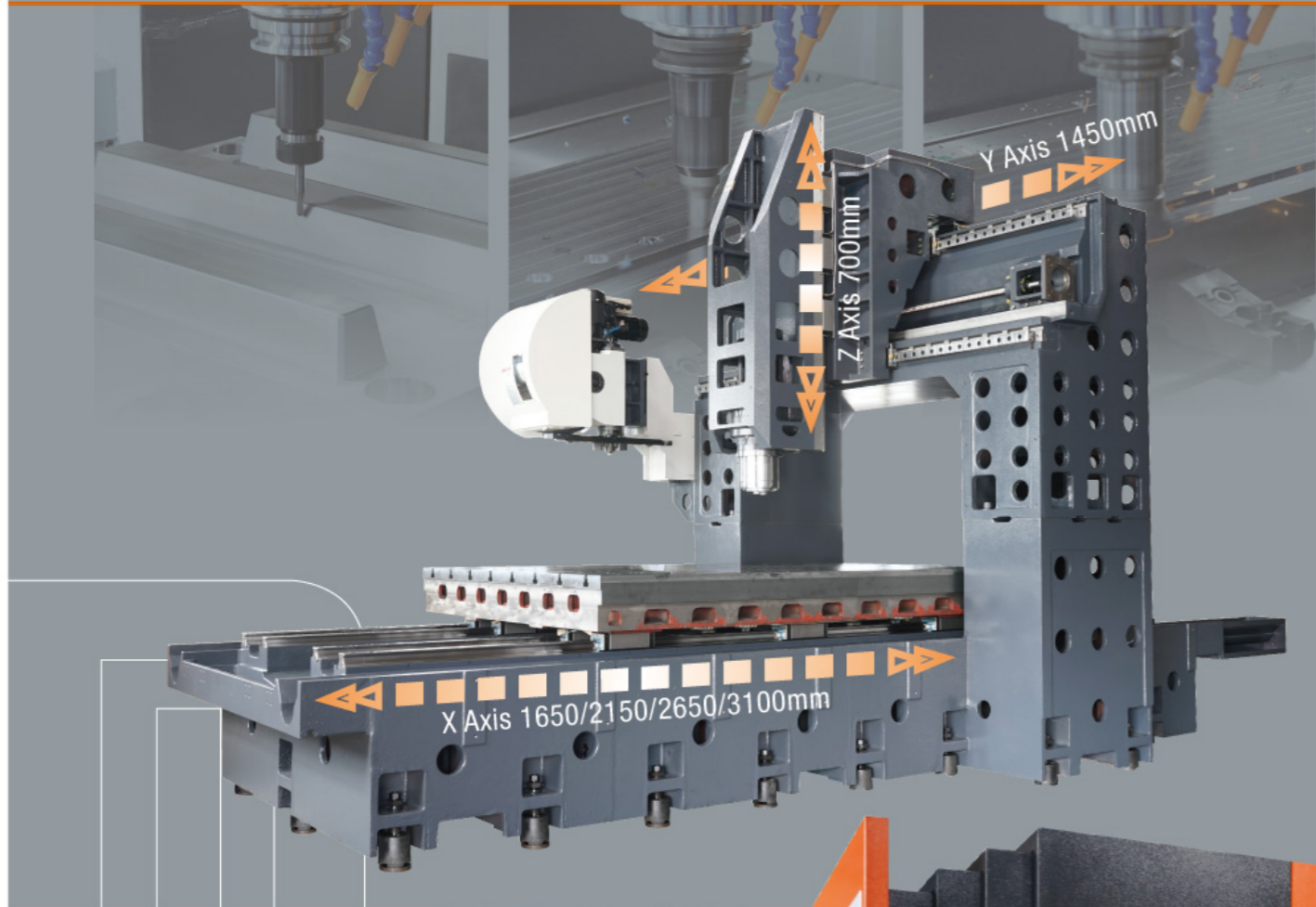
MT-5742VD



- | Y axis used twin-chip auger (front-out), the chips can be easily discharged to machine outside.
- | The pendant control box can be arbitrarily rotating swiveling. User can be easy move the control box.
- | The full series adopts a fully sealed top cover to effectively prevent iron chips and cutting fluid from splashing outside the machine, improving the air quality of the factory.
- | The full series of tool magazines adopts automatic door cylinder design to protect the tool magazine environment, improve service life and durability, and ensure the safety of operators.
- | Applicable industries: large molds, automotive molds, aerospace and mechanical parts processing, plastic injection molds...



Double Column Vertical Machining Center



FLAT TYPE CHIP CONVEYER

Flat type chip conveyor is high efficiency and high speed to easily move the chips and clean.



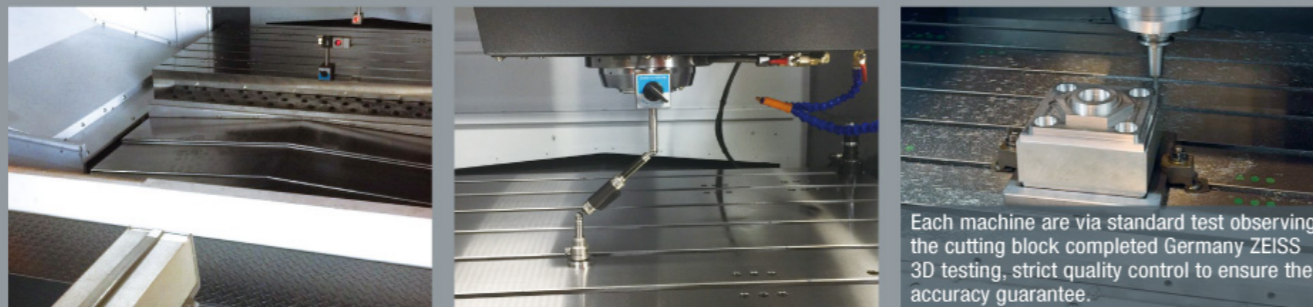
CE MARK ELECTRICAL PARTS

Keep the space for new apparatus.

LUBRICATION and PRESSURE SYSTEM

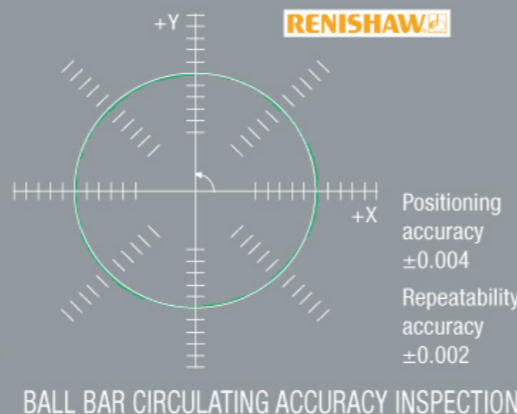
The pendant control box can be arbitrarily rotating swiveling.

QUALITY CONTROL



Each machine are via standard test observing the cutting block completed Germany ZEISS 3D testing, strict quality control to ensure the accuracy guarantee.

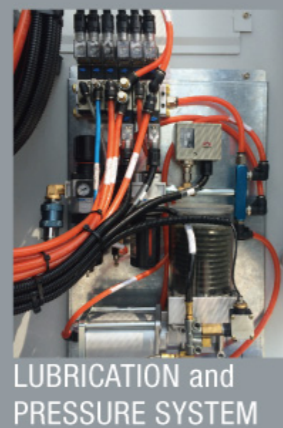
ACCURACY INSPECTION BY RENISHAW LASER



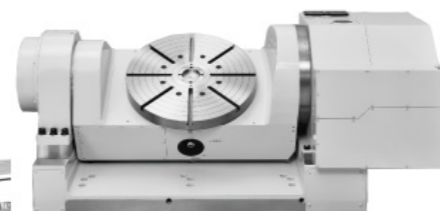
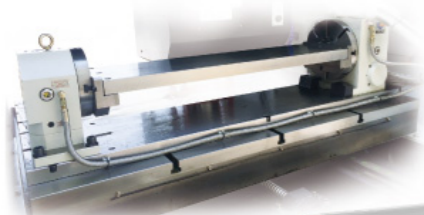
BALL BAR CIRCULATING ACCURACY INSPECTION

STANDARD ACCESSORIES

Both save money and environmental protection of the lubrication mechanism, pneumatic pump to provide three axes lubrication and build centralized equipment of pressure system.



OPTION ACCESSORIES



SPECIAL SOFTWARE FOR FANUC CONTROLLER

Simplify the measurement of the center coordinates of a quadrilateral workpiece. By measuring the four coordinates P1, P2, P3, and P4 as shown in the figure, you can find the correct X and Y axis workpiece center coordinates and calculate the X and Y point distances.



Simplify the measurement of the center coordinates of graphic workpieces. By measuring the coordinates of the three points P1, P2, and P3 as shown in the figure, you can find the correct coordinates of the center point of the graphic workpiece and calculate the diameter of the circle.

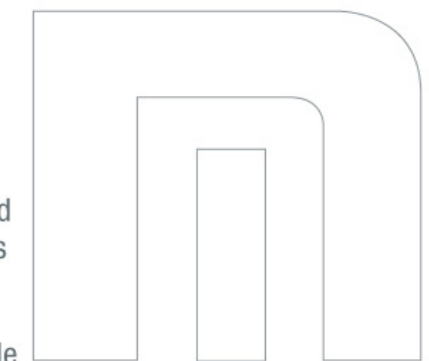


Simplify the measurement of workpiece corner coordinates. Measure the coordinates of the four points P1, P2, P3, and P4 as shown in the figure, and then select the corners C1, C2, C3, and C4 you want to find out the correct corner coordinates.



PLC FUNCTION

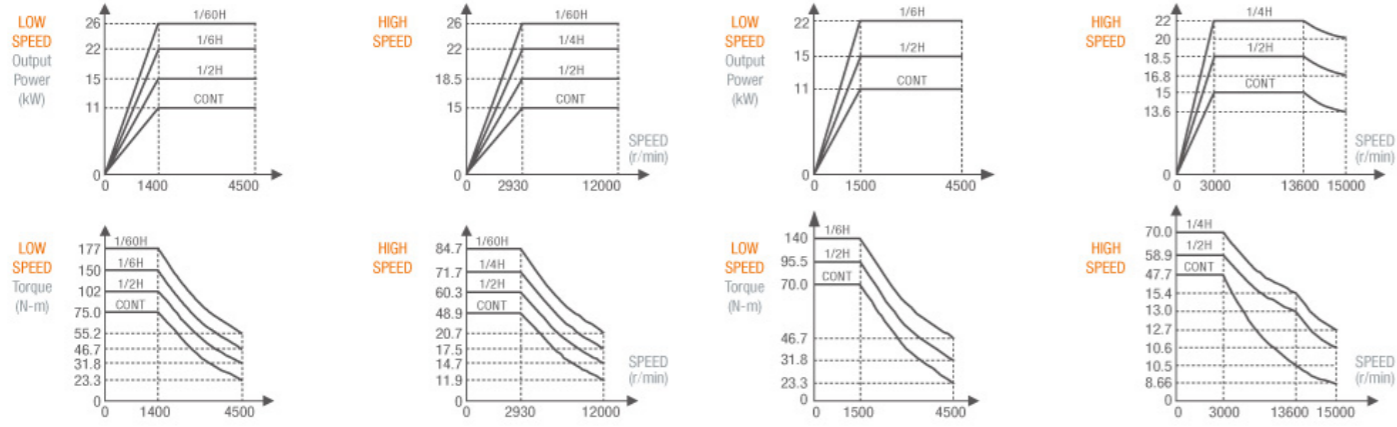
- 1 Tool arm tool change and tool jamming, instructional troubleshooting, convenient for users to troubleshoot safely by themselves.
- 2 One-touch tool change, quickly switch the spindle to tool No. 1 and then change to the next tool number, which is convenient for users to quickly arrange tools
- 3 Large knife diameter management, designate the left and right side of the large knife as invalid knives, which can facilitate users to arbitrarily designate knife numbers as large knives.



Double Column Vertical Machining Center

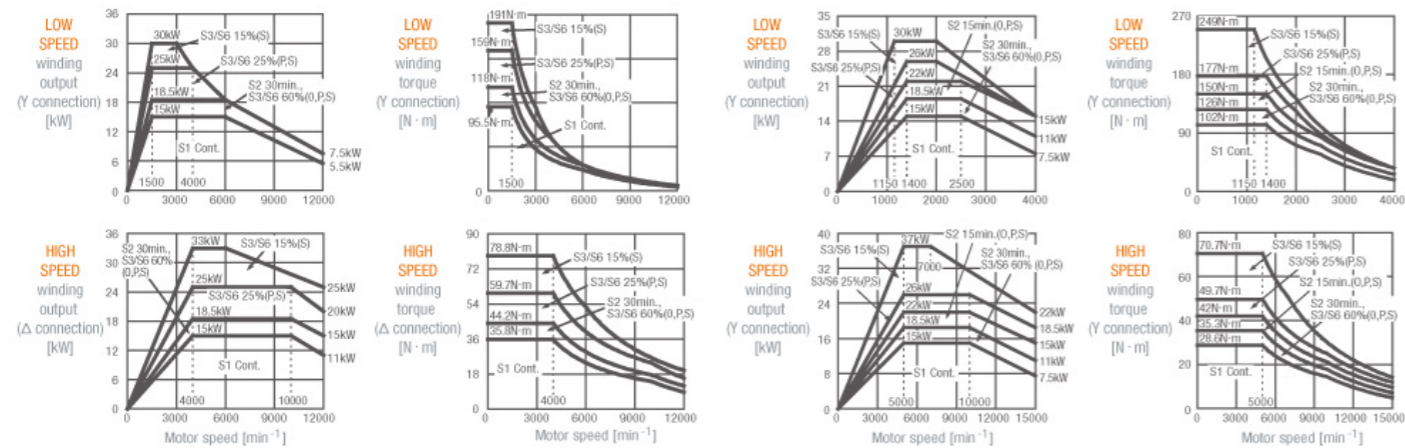
MITSUBISHI MODEL SJ-VK30-16FZT(F)

MITSUBISHI MODEL SJ-VK30-16FZT-S05(F)



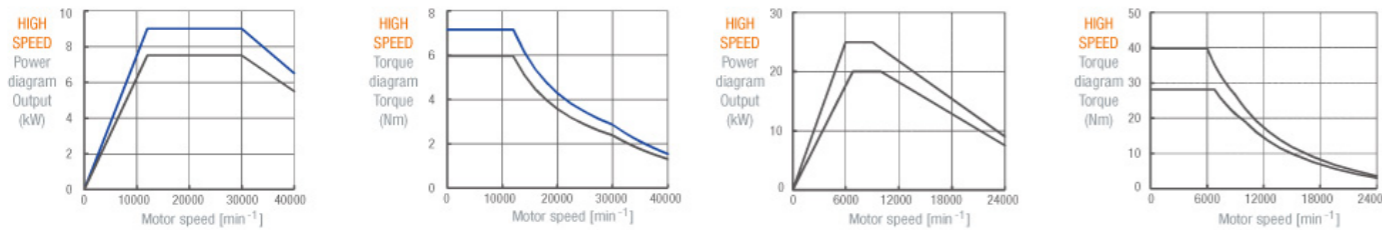
FANUC MODEL AiT15/12000-B

FANUC MODEL AiT15/15000-B



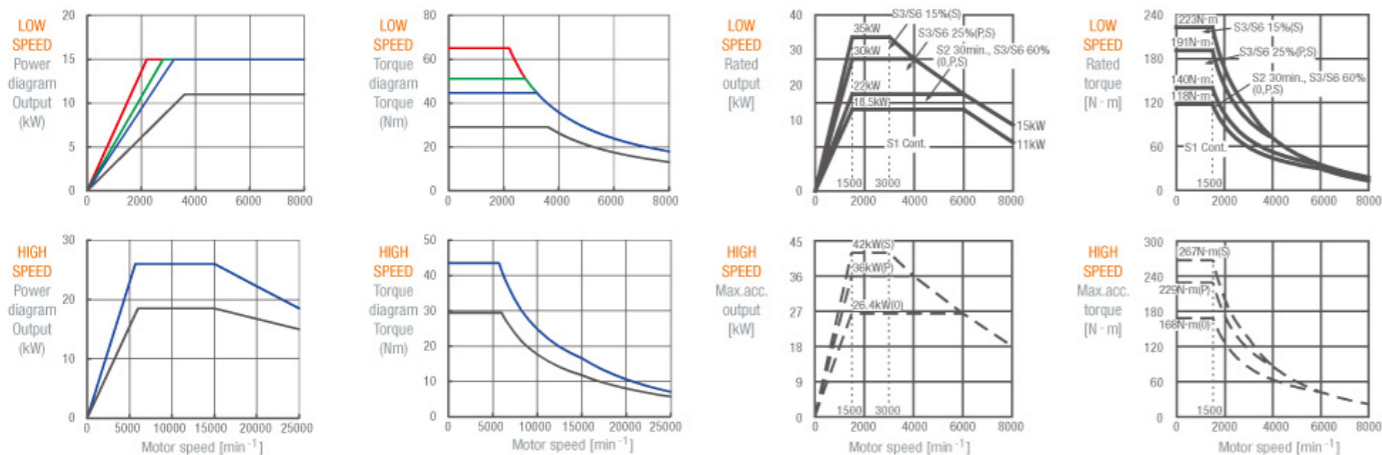
FANUC MODEL BiI 56L/40000-B

FANUC MODEL BiI 80L/24000-B

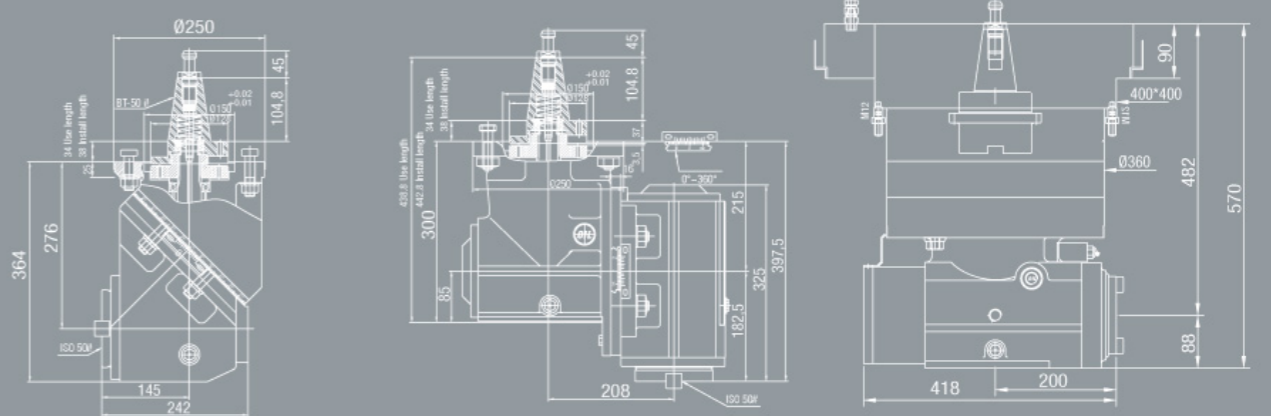


FANUC MODEL BiI90L/25000-B

FANUC MODEL AiI18/8000-B



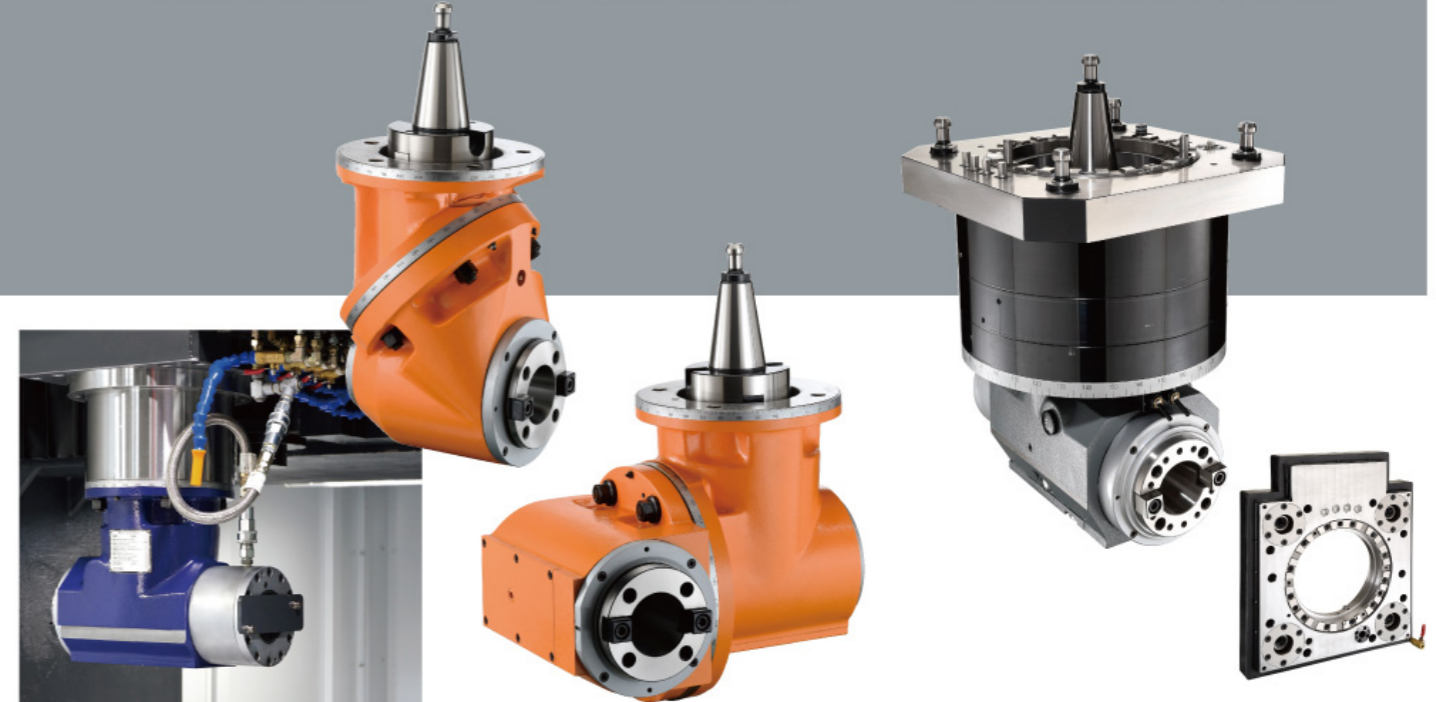
FIVE-SIDED MACHINING APPLICATIONS (OPT.) IMPROVE PROCESSING VALUE



45° UNIVERSAL HEAD

90° UNIVERSAL HEAD

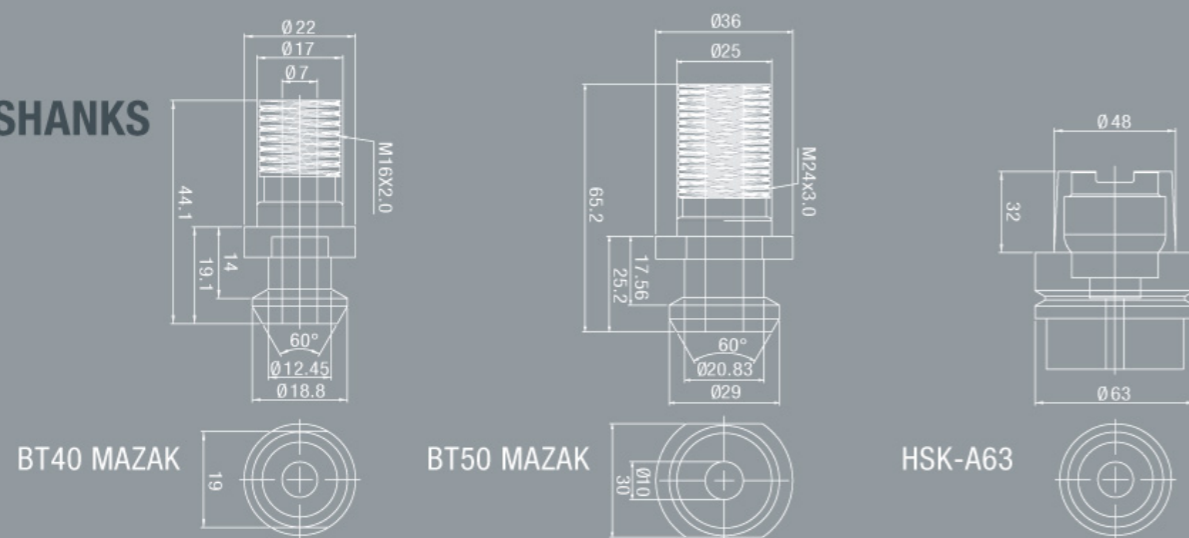
AUTOMATIC HYDRAULIC PLATE



MODEL SPEC.	45° UNIVERSAL HEAD	90° UNIVERSAL HEAD	MODEL SPEC.	AUTOMATIC HYDRAULIC PLATE
Tool clamp/unclamp	Manual	Manual	Install type	Auto
Max. speed	2000rpm	2000rpm	Max. speed	3500rpm
Tool shank	ISO 50#	ISO 50#	Tool shank	ISO 50#
Table diameter	ψ 250/ ψ 300	ψ 250/ ψ 300	Precision	2.5°/5°/15°
Max. power	38kw	38kw	Max. power	38kw

Double Column Vertical Machining Center

TOOL SHANKS

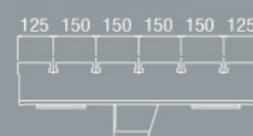


T-SLOT (Unit:mm)

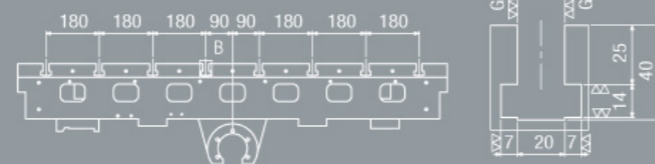
MT-2824VS



MT-5032V/VS

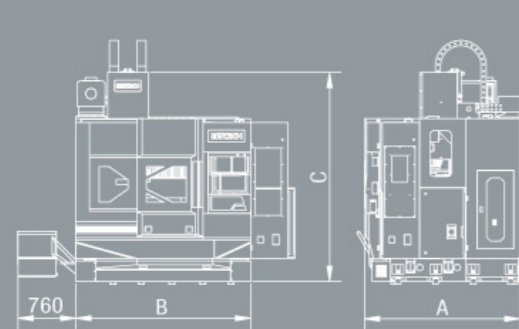


MT-5742VD/VSD

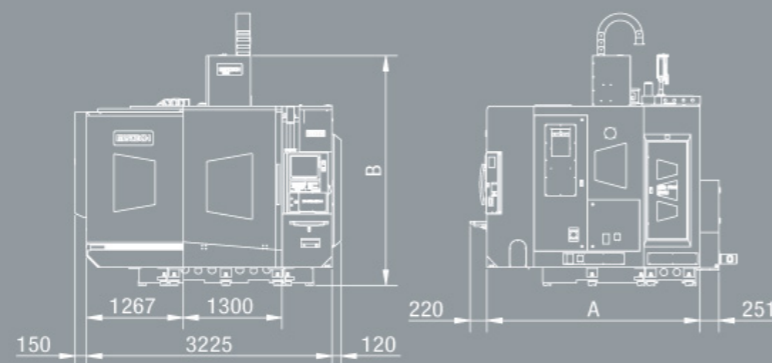


DIMENSIONS (Unit:mm)

MT-2824VS



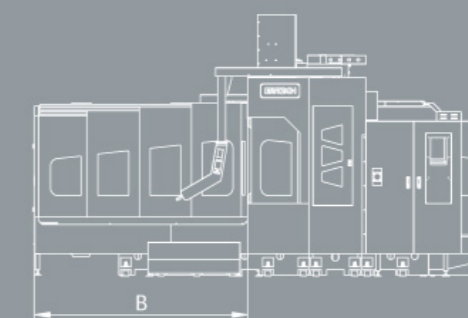
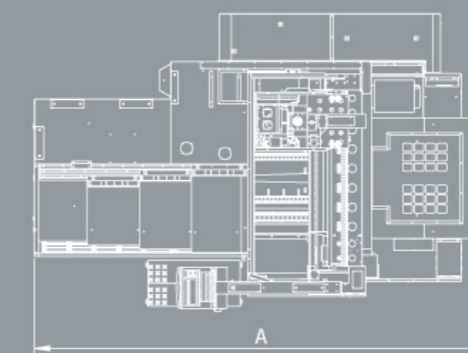
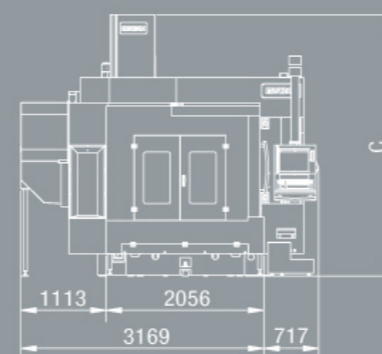
MT-5032V/VS · MT-5742VD/VSD



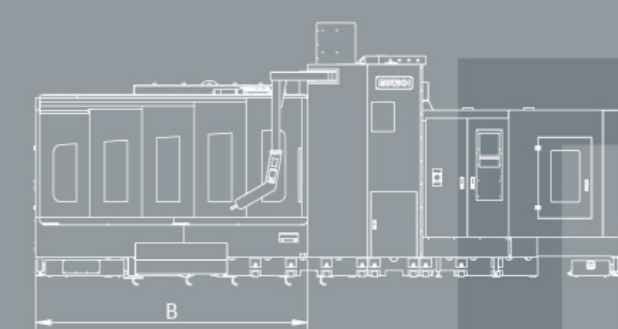
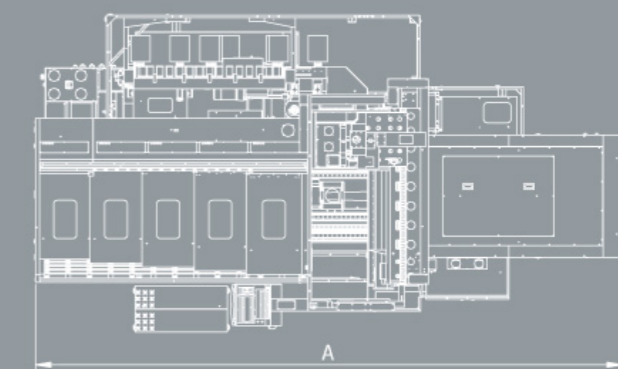
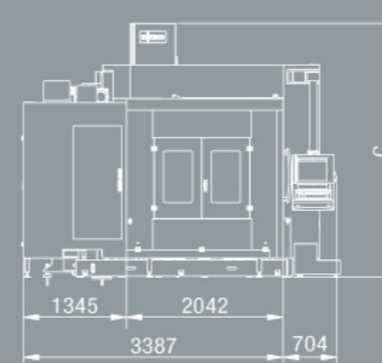
MODEL	A	B	C
MT-2824VS	2020	2300	MIN 2748 MAX 2298
MT-5032V/VS	2670	MIN 2232 MAX 2932	
MT-5742VD/VSD	2800	MIN 2322 MAX 3022	

DIMENSIONS (Unit:mm)

MT-5765VD/VSD
MT-5785VD/VSD
MT-57E5VD/VSD



MT-57E22VD/VSD



MODEL	A	B	C
MT-5765VD/VSD	5015	2372	MIN 2565 MAX 3265
MT-5785VD/VSD	5925	2780	MIN 2565 MAX 3265
MT-57E5VD/VSD	6835	3188	MIN 2565 MAX 3265
MT-57E22VD/VSD	7655	3555	MIN 2616 MAX 3316

Double Column Vertical Machining Center SPEC.



MODEL		MT-2824VS	MT-5032V	MT-5032VS	MT-5742VD	MT-5742VSD	MT-5765VD	MT-5765VSD	MT-5785VD	MT-5785VSD	MT-57E5VD	MT-57E5VSD	MT-57E22VD	MT-57E22VSD	
TABLE															
Size	mm	750x600	1300x850	1300x850	1450x1000	1450x1000	1550x1450	1550x1450	2050x1450	2050x1450	2550x1450	2550x1450	3000x1450	3000x1450	
T-slot (width × nox distance)	mm x T	18x5x125	18x5x150	18x5x150	18x7x140	18x7x140	20x8x180	20x8x180	20x8x180	20x8x180	20x8x180	20x8x180	20x8x180	20x8x180	
Maximun table load	kgs	400	1000	1500	2000	2500	3800	3800	4800	4800	5800	5800	10000	10000	
TRAVEL															
X,Y,Z -axis	mm	700x600x450	1270x815x600	1270x815x600	1450x1080x700	1450x1080x700	1650x1450x700	1650x1450x700	2150x1450x700	2150x1450x700	2650x1450x700	2650x1450x700	3100x1450x700	3100x1450x700	
Table top surface to spindle nose	mm	120-570	100-700	100-700	100-800	100-800	150-850	150-850	150-850	150-850	150-850	150-850	150-850	150-850	
Spindle center to column slide ways	mm	616.50	1100	1100	1100	1100									
Linear guideway type (X/Y/Z-axis)	mm	35x2, 30x1/35x2/35x2	45x2/45x2/45x2	45x2/45x2/45x2	45x2,35x1/45x2, 35x2/45x2	45x2,35x1/45x2, 35x2/45x2	45x4/45x2, 35x1/45x2	45x4/45x2, 35x1/45x2	55x2,45x2/45x2, 35x1/45x2	55x2,45x2/45x2, 35x1/45x2	55x2,45x2/45x2, 35x1/45x2	55x2,45x2/45x2, 35x1/45x2	55x2,55x2/45x2, 35x1/45x2	55x2,55x2/45x2, 35x1/45x2	
Ball screw (X/Y/Z-axis)		40/40/40	40/40/40	40/40/40	40/50/40	40/50/40	63/45/40	63/45/40	63/45/40	63/45/40	80/45/40	80/45/40	80/45/40	80/45/40	
SPINDLE															
Spindle holder		Built	Direct	Built	Direct	Built	Direct	Built	Direct	Built	Direct	Built	Direct	Built	
Taper		BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	
Spindle bearing inner diameter	mm	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	ψ 70	
Spindle speed	rpm	16000	15000	20000	15000	20000	15000	20000	15000	20000	15000	20000	15000	20000	
FEED															
Three axes		Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	
Cutting feedrate X/Y/Z (G01)	m/min	24/24/24	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	
Rapid feedrate X/Y/Z (G0)	m/min	24/24/24	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	
ATC															
Type		Umbrella	Arm	Arm	Arm	Arm	Arm	Arm	Arm	Arm	Arm	Arm	Arm	Arm	
Max. tool Dia	mm	ψ 60 / ψ 126	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	ψ 75 / ψ 150	
Max. tool length	mm	300	300	300	300	300	300	300	300	300	300	300	300	300	
Max. tool weight	kgs	8	7	7	7	7	7	7	7	7	7	7	7	7	
Tool type		CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	CAT40	
Tool magazine capacity	T	12	24	24	24	24	24	24	24	24	24	24	24	24	
MOTORS															
Spindle	kw	18.5	15	23	15	23	15	23	15	23	15	23	15	23	
X/Y/Z-Axis	kw	4.0/7.0/7.0	7.0/7.0/7.0	7.0/7.0/7.0	7.0/7.0/7.0	7.0/7.0/7.0	7.0/7.0/7.0	7.0/7.0/7.0	9.0/7.0/7.0	9.0/7.0/7.0	9.0/7.0/7.0	9.0/7.0/7.0	9.0/7.0/7.0	9.0/7.0/7.0	
Coolant pump	kw	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
ATC motor	w	350	350	350	350	350	1650	1650	1650	1650	1650	1650	1650	1650	
Air conditioner	w	500	500	500	500	500	500	500	500	500	500	500	500	500	
Spindle oil cooler	w	4392	1970	4350	1970	4350	1970	4350	1970	4350	1970	4350	1970	4350	
Chip flush motor	w	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290	
OTHER															
Machine Space (L × W)	mm	2300x2020	3225x2670	3225x2670	3225x2800	3225x2800	5015x3886	5015x3886	5925x3886	5925x3886	6835x3886	6835x3886	7655x4091	7655x4091	
Coolant tank capacity	L	230	400	400	400	400	500	500	500	500	500	500	530	530	
Net weight	kgs	8500	11000	11000	12000	12000	15400	15400	17000	17000	18600	18600	25500	25500	
Total power consumption	KVA	40	50	50	50	50	50	50	50	50	50	50	50	50	
Air source required	kg/cm ²	6 up	6 up	6 up	6 up	6 up	7 up	7 up	7 up	7 up	7 up	7 up	7 up	7 up	

STANDARD ACCESSORIES

- Full-closed splash quard
- Oil skimmer system
- Water gun and air gun
- Chips flush system
- Tools box
- LED work lamp
- Automatic lubrication system
- Heat exchanger for electric cabinet
- 3 color Alarm light
- Automatic tool length measuring device
- Spindle oil cooler system
- Spindle splash ring
- Screw type chip conveyer
- Inverter ATC system

OPTION ACCESSORIES

- BBT#40 Direct type spindle 12000RPM (V/VD series)
- BBT#50 Direct type spindle 6000-8000RPM (V/VD series)
- HSKA63 Built type spindle 24000RPM (VS/VSD series)
- Flat type chip conveyer
- Coolant through spindle
- Workpiece measurement device
- 3-Axes optical scale
- CE norm
- Breakage detection system
- Oil mist collector
- X and Y Axis coolant through ball screws
- CNC 4th Axis rotary table
- CNC 4th & 5th Axis rotary table
- The base height increased by 150 or 300mm
- Spindle heat compensation system
- Arm type 30/40 tool magazine capacity
- Chain type 60 tool magazine capacity