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ELEGANCE IN TECHNOLOGY



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SHOU ZUAN Double Column Vertical
Machining Center

CE

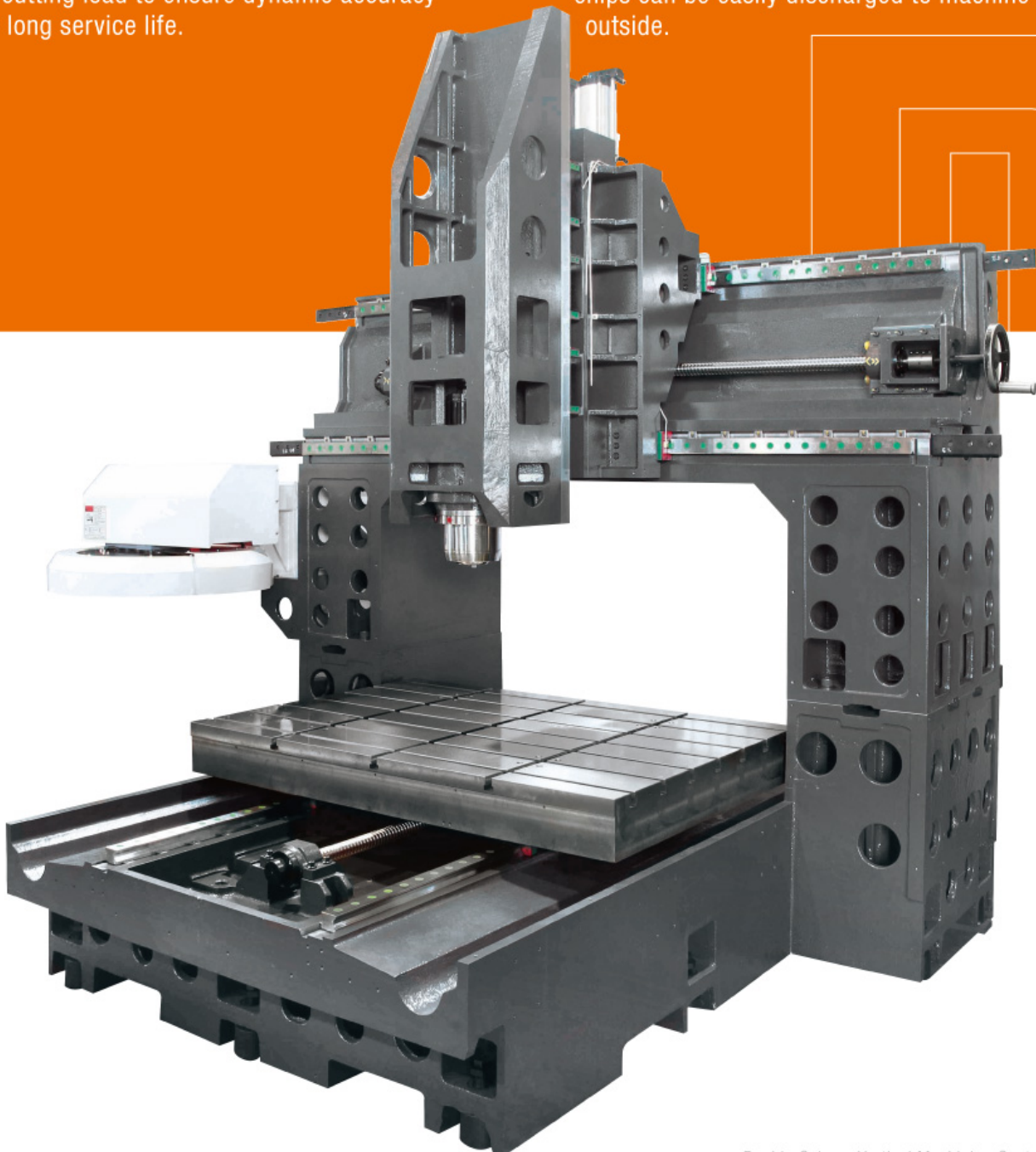
Double Column Vertical Machining Center

- | The widest of door be 1450mm. It is easily to take the workpiece.
- | The side door size be 600x900mm (Width x High).
- | The pendant control box can be arbitrarily rotating swiveling. The user can set the spindle tool on machine side easily.
- | 40 feet high container can be installed 2 pcs machine, reduce transportation costs and increase competitiveness.
- | Applicable Industries : Automobile forming dies, Plastic injection molds, Machine parts machining.



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.
- | Three-Axes roller type linear guideway, improve the cutting load to ensure dynamic accuracy and long service life.
- | Linear way of Ladder type beam construction on Y axis. Extra wide span between two linear ways exhibits outstanding stability of cutting.
- | Six roller type slide blocks on Z axis, to ensure that the spindle accuracy and stable when machining cutting.
- | Y axis used twin-chip auger (front-out), the chips can be easily discharged to machine outside.

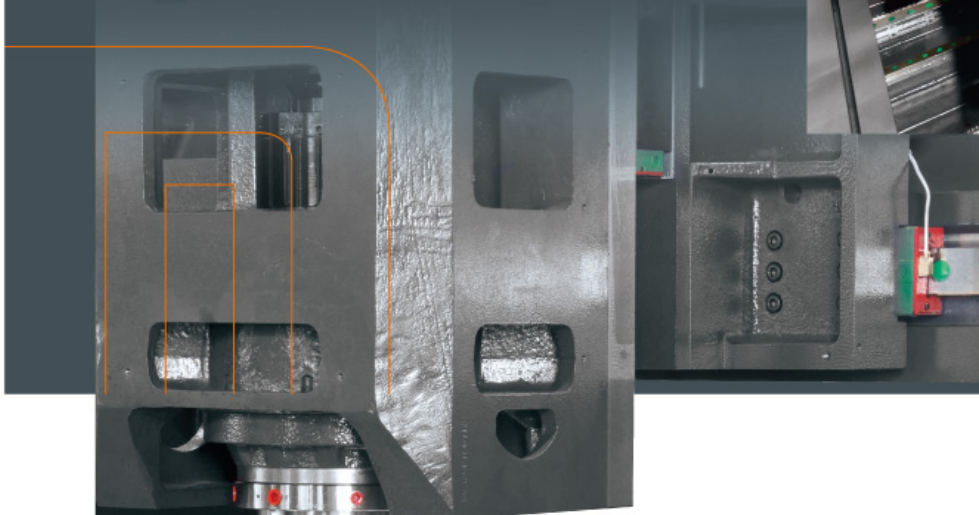
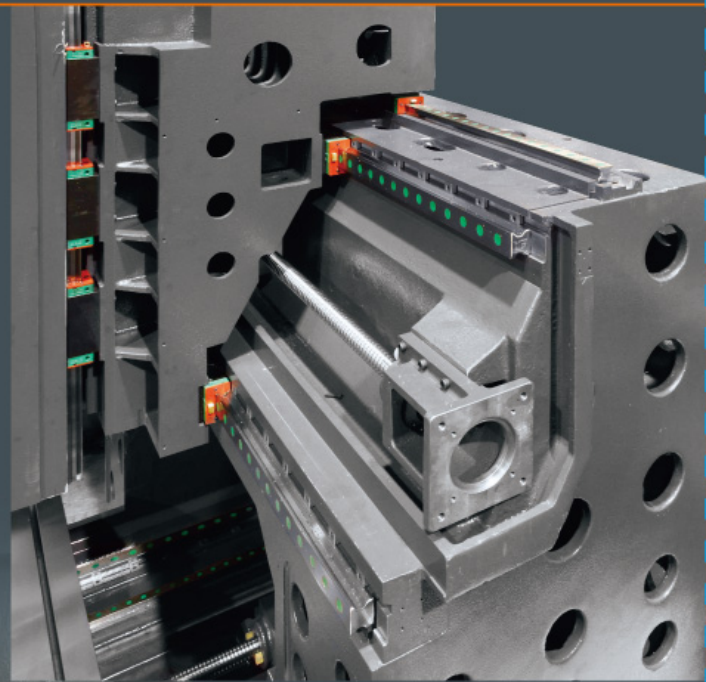


Double Column Vertical Machining Center

Double Column Vertical Machining Center

VD Specially designed

- | Ladder type beam construction
- | Three linear ways on X-axis. The layout ensures maximum stability for the spindle head during heavy cutting.
- | Four linear ways on Y-axis, It be used 7kw servo motor. The worktable load up to 3800kgs.



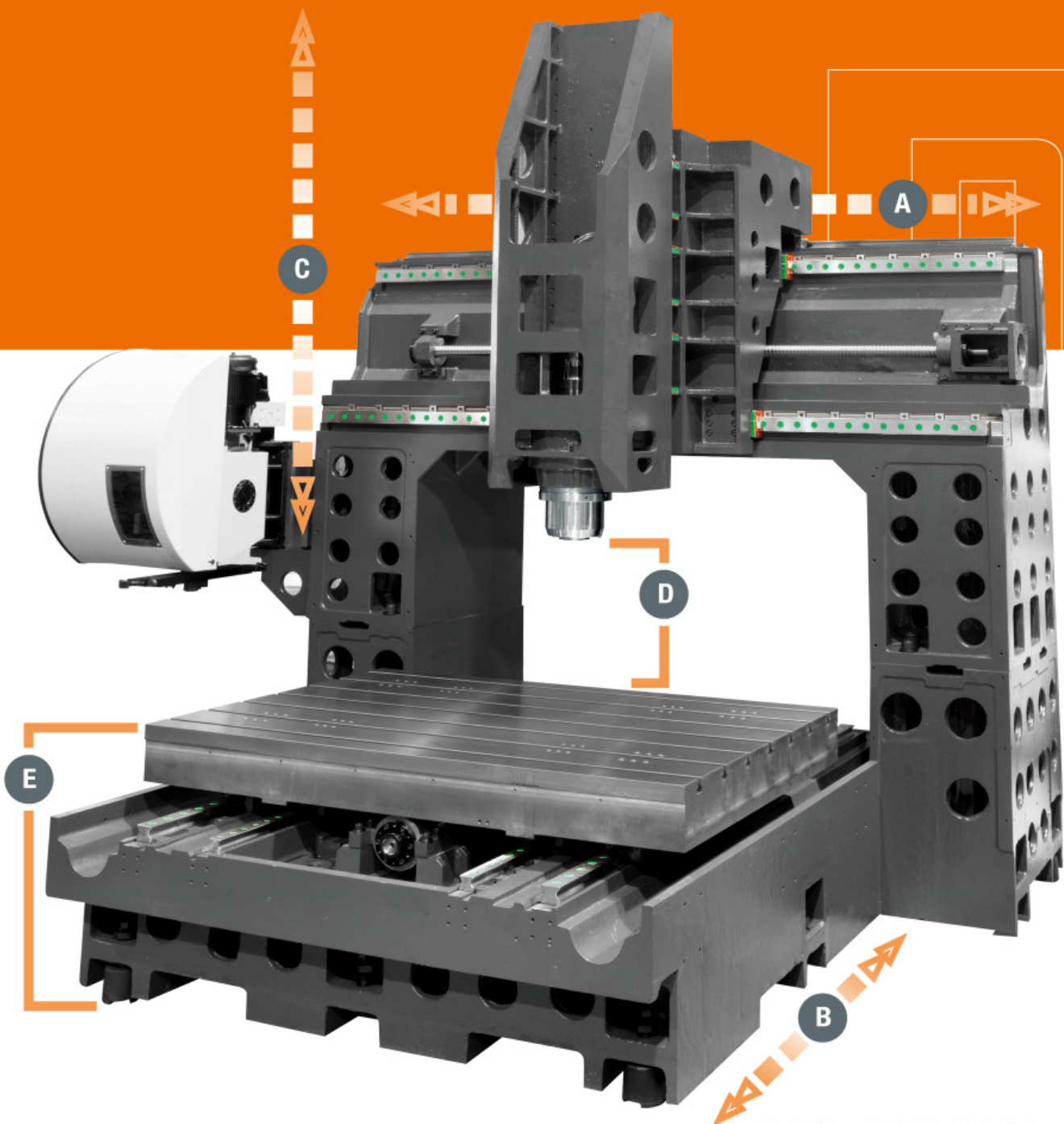
MT-5742VD

I Arm type ATC with 24 tools capacity. Fast and reliable roller gear cam ATC, lowers the idle time and enhances the machining efficiency.

I Cutting feed rate on X,Y and Z axis: 20 m/min.

I Rapid feed rate on X,Y and Z axis: 20m/min.

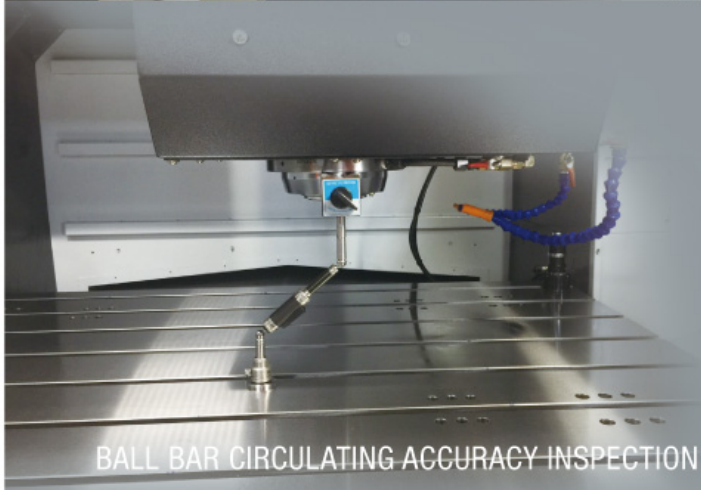
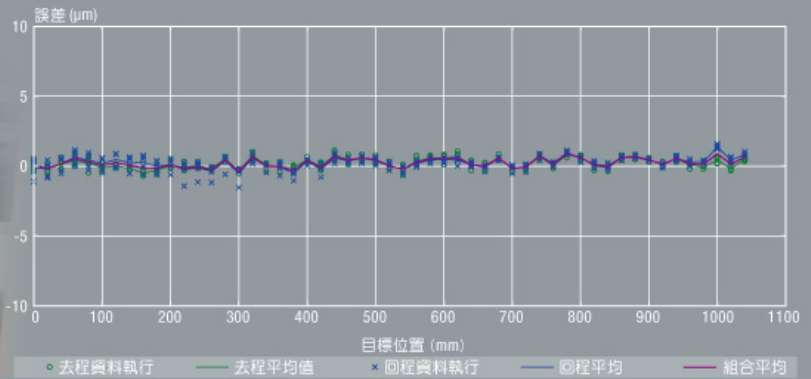
- A** X Axis 1450mm
- B** Y Axis 1080mm
- C** Z Axis 700mm
- D** Table top surface to spindle nose 110-810mm
- E** Height of table from ground 610mm



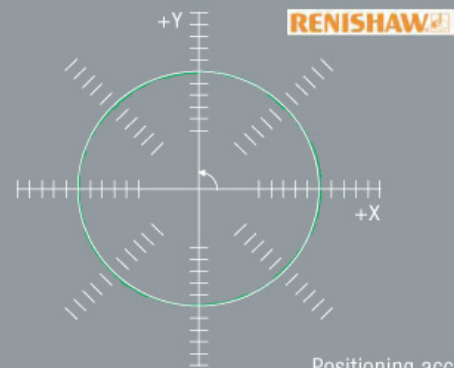
Double Column Vertical Machining Center

Quality Control

ACCURACY INSPECTION BY RENISHAW LASER



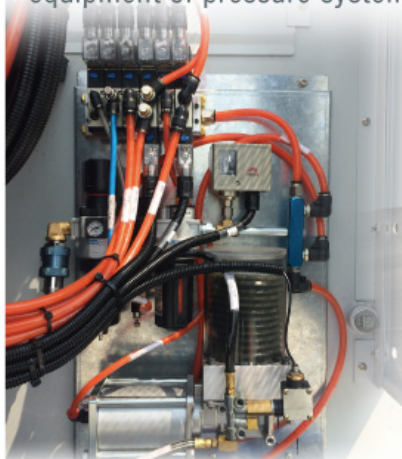
BALL BAR CIRCULATING ACCURACY INSPECTION



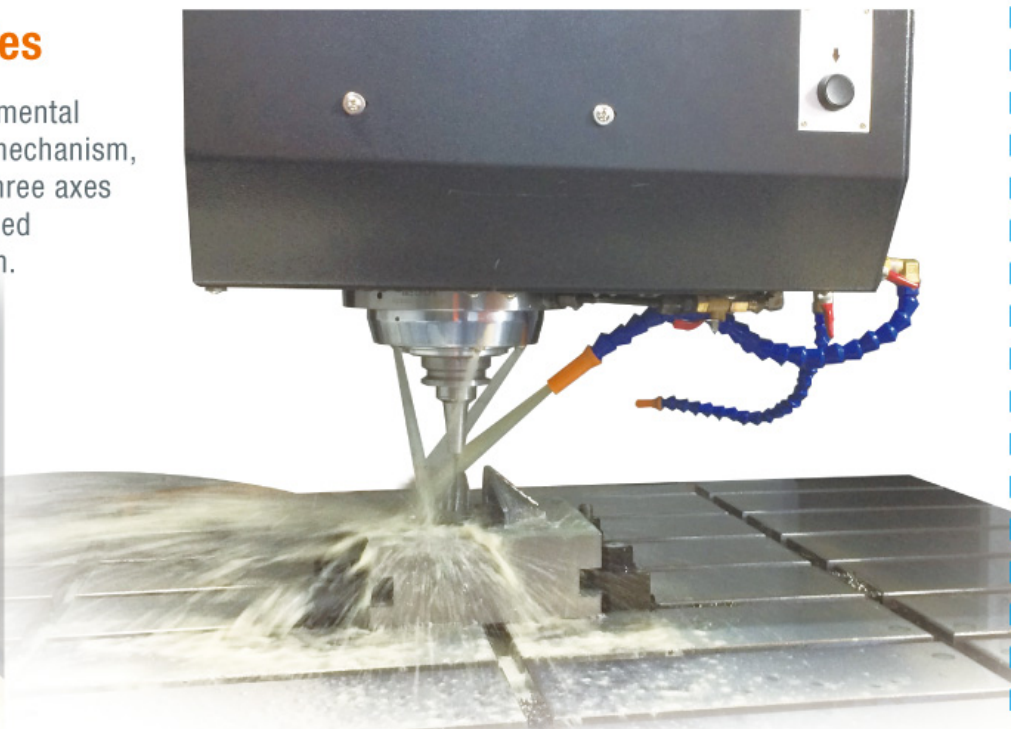
Positioning accuracy ± 0.004
Repeatability accuracy ± 0.002

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.



LUBRICATION AND PRESSURE SYSTEM

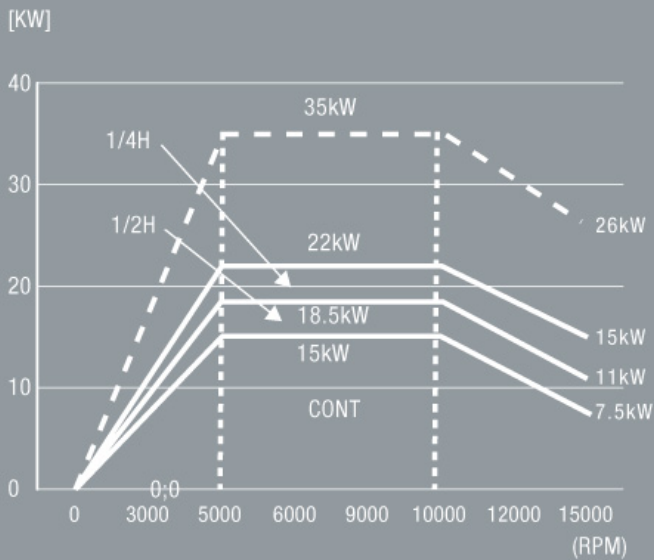


SPINDLE SPLASH RING

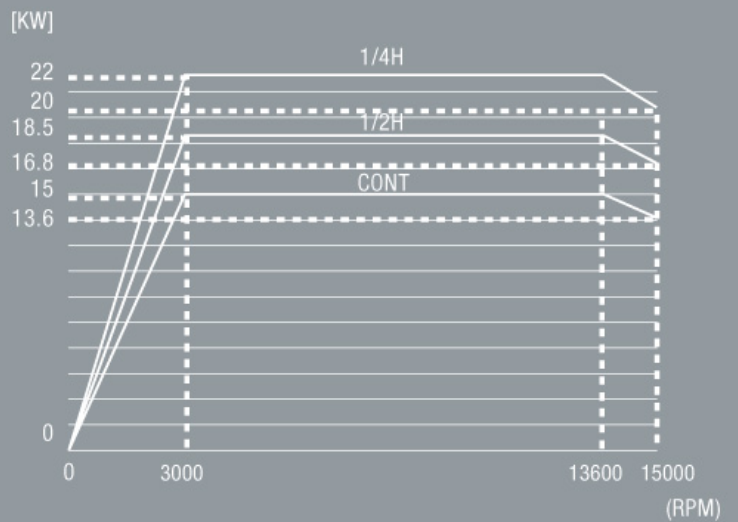
Spindle Torque



BBT#40
LONG TYPE SPINDLE

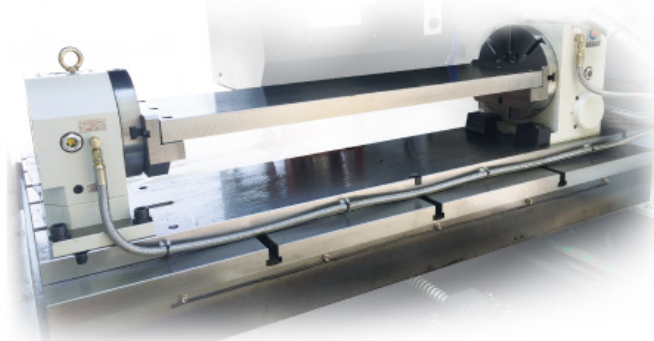


FANUC MODEL AiT15/15000
(18.5KW-15000RPM)



MITSUBISHI MODEL SJ-VK30-16FZT-S05
(18.5KW-15000RPM)

Option Accessories

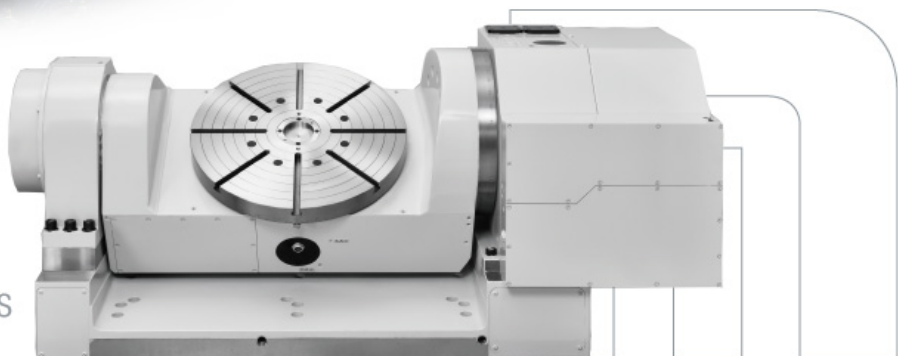


CNC 4TH AXIS ROTARY TABLE



OPTICAL SCALE OF HEIDENHAIN

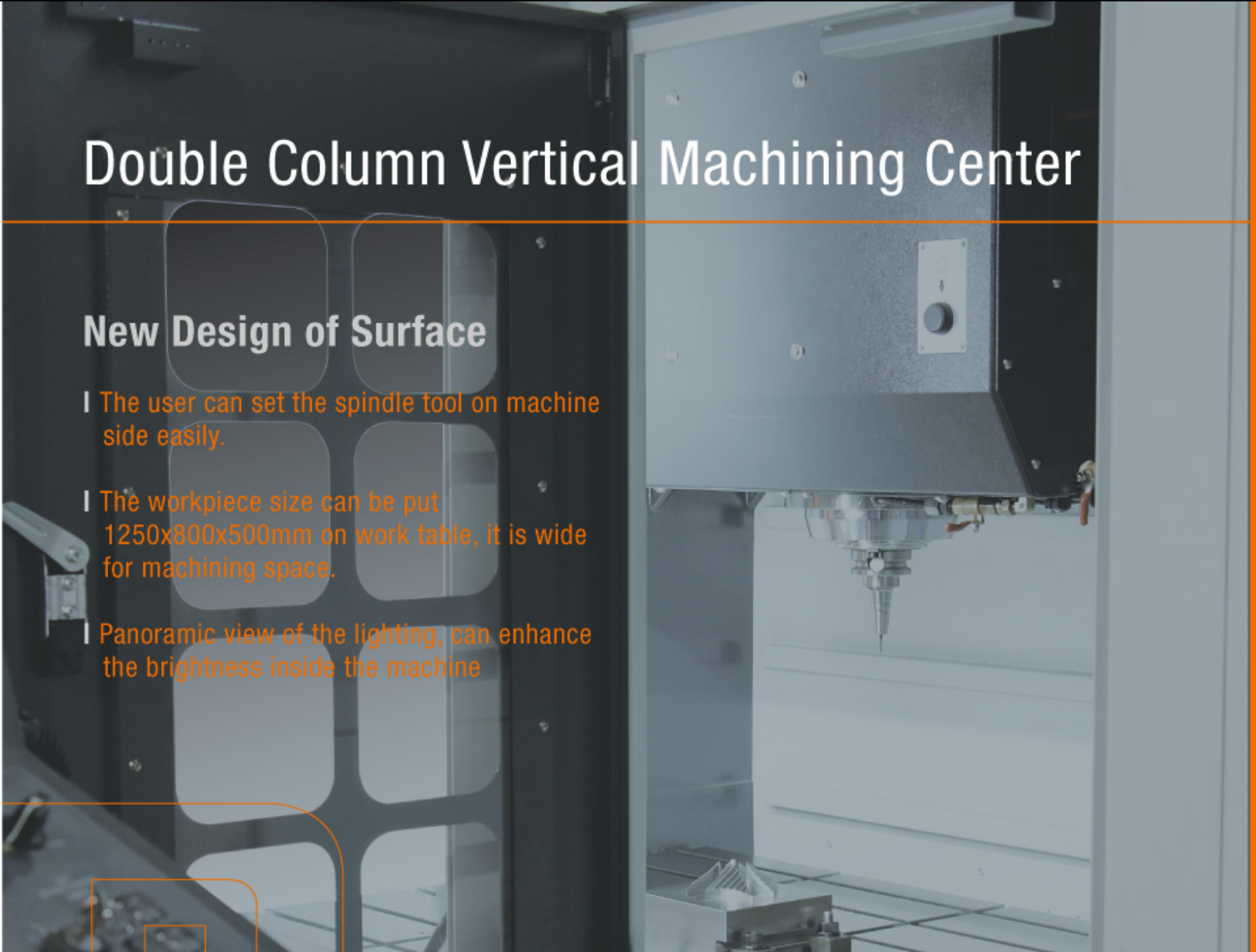
CNC 4TH & 5TH AXIS
ROTARY TABLE



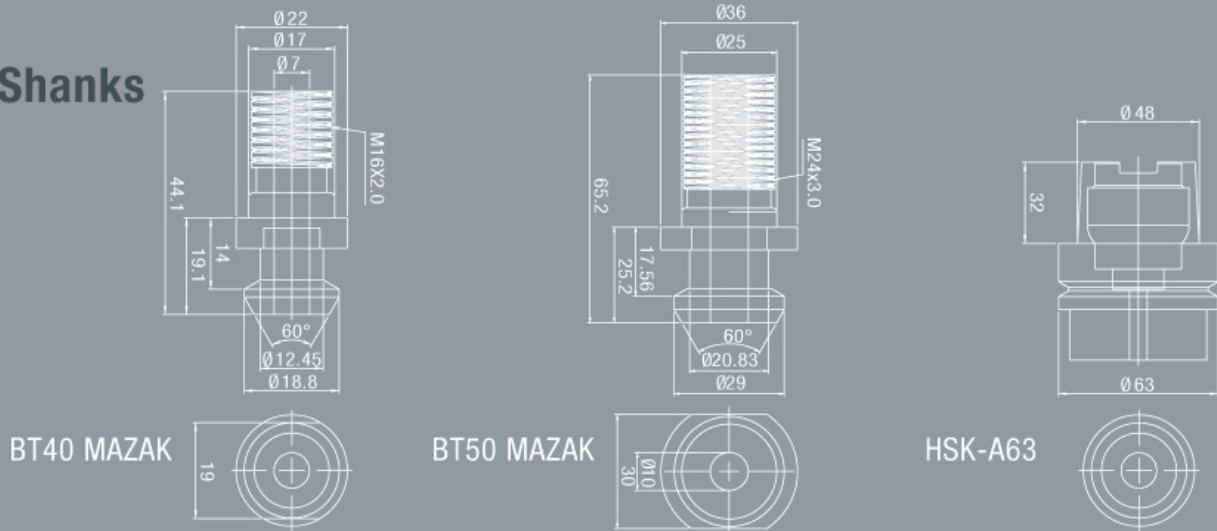
Double Column Vertical Machining Center

New Design of Surface

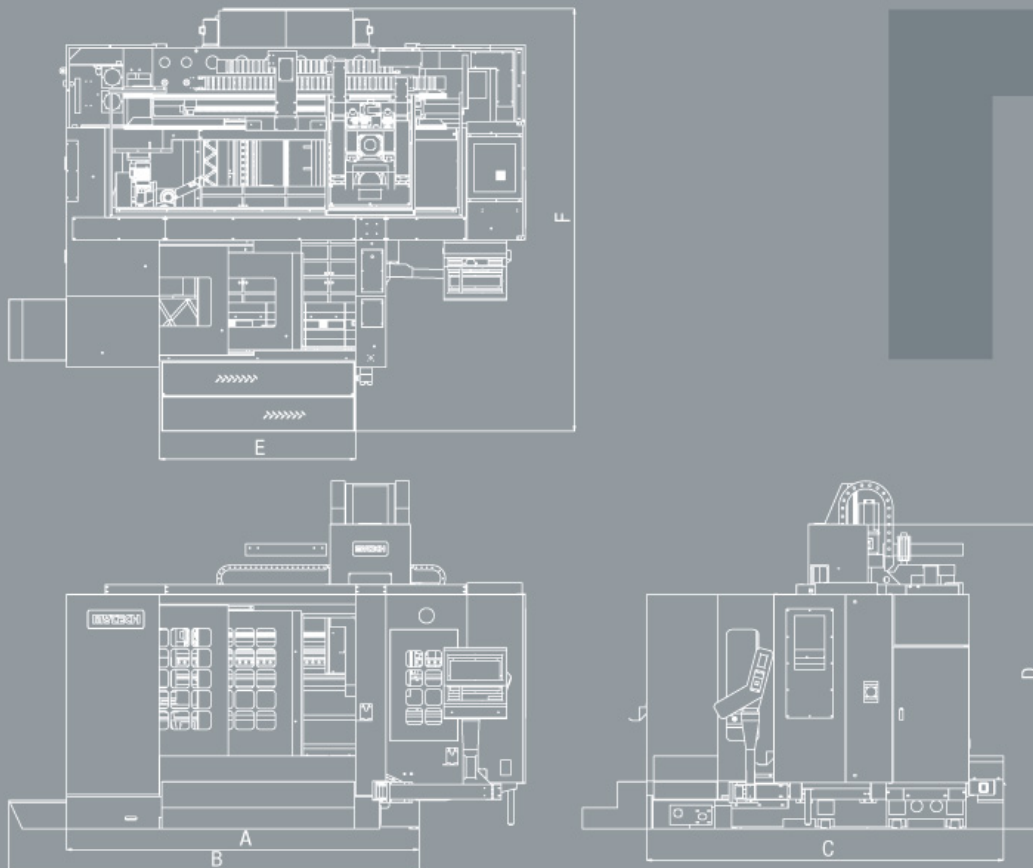
- | The user can set the spindle tool on machine side easily.
- | The workpiece size can be put 1250x800x500mm on work table, it is wide for machining space.
- | Panoramic view of the lighting, can enhance the brightness inside the machine



Tool Shanks



Dimensions (Unit:mm)



MODEL	A	B	C	D	E	F
5032	3950	3435	2915	MIN2005 MAX2605	1450	3465
5742	3950	3435	3075	MIN1910 MAX2610	1450	3625
5765	3450	3945	4650	MIN2310 MAX3010	1450	5200
5785	3450	3945	5150	MIN2310 MAX3010	1450	5700
57E5	3450	3945	5650	MIN2310 MAX3010	1450	6200

Double Column Vertical Machining Center SPEC.

MODEL		MT-5032V	MT-5032VS	MT-5742V	MT-5742VS
TABLE					
Size	mm	1300x850	1300x850	1450x1000	1450x1000
T-slot (width x nox distance)	mm x T	18x5x150	18x5x150	18x7x140	18x7x140
Maximun table load	kgs	1000	1500	2000	2500
TRAVEL					
X,Y,Z -axis	mm	1270x815x610	1270x815x610	1450x1080x700	1450x1080x700
Table top surface to spindle nose	mm	200-810	200-810	110-810	110-810
Spindle center to column slide ways	mm	1100	1100	1100	1100
Linear guideway type (X/Y/Z-axis)	mm	45/45/45	45/45/45	45/45/45	45/45/45
Ball screw (X/ Y/ Z-axis)		40/40/40	40/40/40	40/40/40	40/40/40
SPINDLE					
Spindle holder		Direct	Built	Direct	Built
Taper		BBT40	BBT40	BBT40	BBT40
Diameter	mm	ψ 70	ψ 65	ψ 70	ψ 65
Spindle speed	rpm	15000	20000	15000	20000
FEED					
Three axes		Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway
Cutting feedrate X/ Y/ Z (G01)	m/min	20/20/20	20/20/20	20/20/20	20/20/20
Rapid feedrate X / Y/ Z (G0)	m/min	20/20/20	20/20/20	20/20/20	20/20/20
ATC					
Type		Arm	Umbrella	Arm	Umbrella
Max. tool Dia	mm	ψ 75 / ψ 150	ψ 75 / ψ 200	ψ 75 / ψ 150	ψ 75 / ψ 200
Max. tool length	mm	300	200	300	200
Max. tool weight	kgs	7	7	7	7
Tool type		CAT40	CAT40	CAT40	CAT40
Tool magazine capacity	T	24	12	24	12
MOTORS					
Spindle	kw	15	23	15	23
X/ Y/ Z-Axis	kw	7.0/7.0/7.0	7.0/7.0/7.0	7.0/7.0/7.0	7.0/7.0/7.0
Coolant pump	kw	0.75	0.75	0.75	0.75
ATC motor	w	350	350	350	350
Air conditioner	w	500	500	500	500
Spindle oil cooler	w	600	600	600	600
Chip flush motor	w	1290	1290	1290	1290
OTHER					
Machine Space (LxW)	mm	3300x2800	3300x2800	3480x3000	3480x3000
Coolant tank capacity	L	400	400	400	400
Net weight	kgs	11000	11000	12000	12000
Total power consumption	KVA	50	50	50	50
Air source required	kg/cm ²	6 up	6 up	6 up	6 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

MT-5765V	MT-5765VS	MT-5785V	MT-5785VS	MT-57E5V	MT-57E5VS
1550x1450	1550x1450	2050x1450	2050x1450	2550x1450	2550x1450
20x8x200	20x8x200	20x10x200	20x10x200	20x12x200	20x12x200
3800	3800	4800	4800	5800	5800
1650x1450x700	1650x1450x700	2150x1450x700	2150x1450x700	2650x1450x700	2650x1450x700
110-810	110-810	110-810	110-810	110-810	110-810
45x2/45/45	45x2/45/45	45x2/45/45	45x2/45/45	55.45/45/45	55.45/45/45
63/40/40	63/40/40	63/40/40	63/40/40	80/40/40	80/40/40
Direct	Built	Direct	Built	Direct	Built
BBT40	BBT40	BBT40	BBT40	BBT40	BBT40
ψ 70	ψ 65	ψ 70	ψ 65	ψ 70	ψ 65
15000	20000	15000	20000	15000	20000
Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway	Roller type linear guideway
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
Arm	Umbrella	Arm	Umbrella	Arm	Umbrella
ψ 75 / ψ 150	ψ 75 / ψ 200	ψ 75 / ψ 150	ψ 75 / ψ 200	ψ 75 / ψ 150	ψ 75 / ψ 200
300	200	300	200	300	200
7	7	7	7	7	7
CAT40	CAT40	CAT40	CAT40	CAT40	CAT40
24	12	24	12	24	12



Option Accessories

- | BBT#40 Direct type spindle 12000RPM
- | BBT#50 Direct type spindle 6000-8000RPM
- | HSKA63 Built type spindle 24000RPM
- | Long type spindle
- | Flat type chip conveyer
- | Coolant through spindle
- | 3-Axes optical scale
- | CE norm
- | Breakage detection system
- | Oil mist collector
- | Inverter ATC system
- | X and Y Axis coolant through ball screws
- | CNC 4th Axis rotary table
- | CNC 4th & 5th Axis rotary table

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