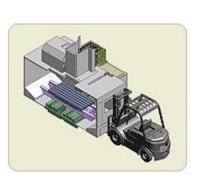
- **MEEHANITE** cast iron for all major machine parts.
- **Export and precision scraping.**
- 3-Axis ball screws with high precision C3 grade.
- **Automatic central lubrication**
- system.
- Rigid 8000 rpm spindle unit.
- **Excellent heavy** cutting performance.
- High efficiency and stable accuracy.
- Wider door open design.
- **Fully enclosed** splashguard for elegant outlook.



STANDARD SPINDLE

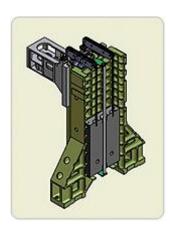
- Rigid 8000 rpm spindle unit.
- Easy for after service.
- High accuracy.
- Cool jet around spindle.
- High precision ceramic bearings.
- Bearing size: 7014 (4 pieces)



EASY LOADING INTO CONTAINER

Only few pieces of metal sheets from front housing need to be removed for 20 feet open top container loading.

More protection during transit.



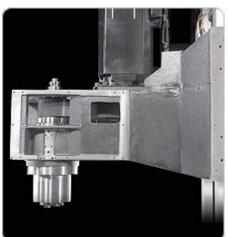
CENTRAL GUIDED COUNTERWEIGHT MECHANISM



EXPERT AND PRECISION SCRAPING

- The main structural components with heavy triangular webbing throughout for maximum rigidity and vibration damping.
- The extra-wide base, saddle and column with enlarged box type slideways eliminate overhang on both ends of table travel.
- 3-axis double gibs design for smooth movement of ases.

The sliding surface are coated with precisely scraped TURCITE-B antifriction lining materal. It is carefully hand scraped to achieve high accuracy and good retention of lubricating oil essential for a long accurate life.



CENTRAL GUIDED COUNTERWEIGHT MECHANISM

- Headstock in oversized box type construction.
- Enlarged slideway for hravy machining performance.



3-AXIS BALL SCREWS PRELOAD

- Big diameter ball screws are perload and directly driven with servo motors to absolutely eliminate backlash between bearings and ball screws exhibiting excellent feeding accuracy.
- All axes are with high precision C3 grade ball screws.
- Ball screws diameter X: 40mm Y.Z: 45mm.

AUTOMATIC TOOL CHANGE SYSTEM

Random tool selection, strongly provide stable quality and precision.





24 TOOLS MAGAZINE 30/32/40 TOOLS MAGAZINE (OPTION)

SPECIFICATION

MODEL	MCV1400		MCV1600			
Travel						
X-Axis	1400 mm(55.11")		1600 mm(62.99")			
Y-Axis	760 mm(29.92")					
Z-Axis	680 mm(26.77")					
Spindle nose to table	125 - 805 mm(4.92-31.69")					
Table						
Table size	1600mm x 700mm(62.99-27.55")		1800mm x 700mm(70.86-27.55")			
Floor to table	960 mm(37.8")					
Max. table loading capacity	2500 kgs (5511.6Lbs)		3000 kgs (6613.9Lbs)			
T-slot (no x Width x Pitch)	5 x 22n mm x 125 mm (5 x 0.86" x 4.9")					
Spindle center to column	760 mm(29.92")					
Feed system						
Rapid traverse speed	X/Y: 24 M/min (944.8"/min) , Z:20 M/min (787.4"/min)					
Feed motor(FANUC)	Ahpha 22-3000i					
Ball screw diameter & pitch	X/ Y/Z: 45 mm / 10 mm(2/0.4")					
Cutting feedrate	1-10,000 mm/min (0.04 - 393.7/Min")					
Type of transmission	Direct Drive					
Spindle						
Type of tool shank	BT40/CAT40/DIN 69871A	BT50/CAT50/DIN 69871A	BT40/CAT40/DIN 69871A	BT50/CAT50/DIN 69871A		
Max. spindle speed	8,000 rpm / 10,000 rpm (Op)	6,000 rpm / 8,000 rpm (Op)	8,000 rpm / 10,000 rpm (Op)	6,000 rpm / 8,000 rpm (Op)		

Spindle motor	Ahpha 12-7000i 11/15 kW	Ahpha 15-7000i 15/18.5 kW	Ahpha 12-7000i 11/15 kW	Ahpha 15-7000i 15/18.5 kW		
Type of transmissiop	Belt / ZFGear Box (Op)					
ATC						
Tool storage capacity	24/32 or 40T (Op)	24/30 or 40T (Op)	24/32 or 40T (Op)	24/30 or 40T (Op)		
ATC type	Armless type					
Max. tool diameter	90/76 mm (3.54/2.99")	110/127 mm (4.33/5")	90/76 mm (3.54/2.99")	110/127 mm (4.33/5")		
Without adjacent tool	170/127 mm (6.69/5")	200/228 mm (7.87/8.97")	170/127 mm (6.69/5")	200/228 mm (7.87/8.97")		
Max. tool length	300 mm (11.8")	300 mm (11.8")	300 mm (11.8")	300 mm (11.8")		
Max. tool weight	7 kg (15.43Lbs)	15 kgs (33.06Lbs)	7 kg (15.43Lbs)	15 kgs (33.06Lbs)		
Tool changing time (Tool to Tool)	1.8/1.5/1.5 sec	2.9 sec	1.8/1.5/1.5 sec	2.9 sec		
Tool changing time (Chip to Chip)	5.5 sec	6 sec	5.5 sec	6 sec		
Method of tool	Random selection					
selection	bi-directional magazine rotation					
Tool display	Yes					
Special tool management	Yes					
Coolant system						
Coolant tank size	650 L					
Coolant capacity	105 L / min					
Chip Flush capacity	105 L / min					
Machine size						
Machine height	2940 mm (115.75")					
Floor space	3600x2750 mm (141.7x108.26")		4000x2750 mm (141.7x108.26")			
weight	11980 kgs (5434Lbs)	12340 kgs (5597Lbs)	12040 kgs (5461Lbs)	12400 kgs (5625Lbs)		
Power source						
Electrical power supply	25 KVA/3PH/220V 50/60HZ					
Compressed air supply	6.0 kgf/cm²					
Controller						

FANUC / HEIDENHAIN / SIEMENS

* Specifications may different according to option accessories and are subject to change without notice.

Standard accessories

- #40 Arm type ATC (20Tools)
- #50 Arm ATC (24Tools)
- Fully enclosed splash guard
- Chip flush system
- Coolant system
- Coolant tank & chip collector
- Automatic lubrication system
- Telescopic covers
- Portable electronic handwheel (FANUC)
- Working light
- Alarm light
- Tool box
- Operator's manual and parts list
- Leveling bolts, pads and nuts

Optional accessories

- #40 : Arm type ATC 32 or 40 Tools
- #50 : Arm type ATC 30 or 40 Tools
- #40 : High-speed Spindle 10,000 rpm
- #50 : spindle 8,000 rpm
- Bigger spindle motor
- Spindle chiller
- Coolant through spindle system
- Air blow system for dry cutting
- Spiral or flat type chip conveyor
- 4th or 4+5th axis rotary table
- High precision linear scale
- Working piece measurement system
- Tool length measurement system
- Heat exchanger on electrical cabinet
- Power transformer
- CE (Safety door interlock)
- ZF gear box