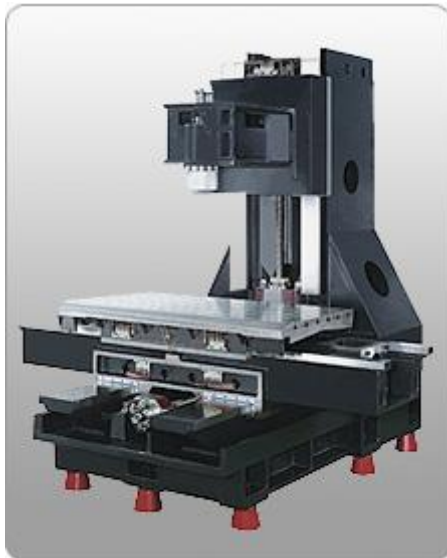


- **MEEHANITE cast iron for all major machine parts.**
- **Expert and precision scraping.**
- **3-Axis ball screws preload.**
- **Automatic central lubrication system.**
- **Rigid 8000 rpm spindle unit.**
- **High efficiency.**
- **Excellent and stable accuracy.**
- **Fully enclosed splashguard for elegant outlook.**

#### STANDARD SPINDLE



- Rigid 8000 rpm spindle unit.
- Easy for after service.
- High accuracy.
- Cool jet around spindle.
- Bearing size: 7014.



#### EXPERT AND PRECISION SCRAPING

- MEEHANITE cast iron for all major machine parts.
- The major structural parts are scientifically rib reinforced and annealed to relieve stress for outstanding stability of material.
- Box type slideways with long lasting accuracy even under heavy cutting and high-speed machinery operation.
- Extra heavy design on column and base.
- The enhanced ribs in major construction parts provide the superrigidity and precise spindle for high-speed cutting.
- Top open front door design. Operator can get closer to table, which makes setup easier.

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



#### 3-AXIS BALL SCREWS PRELOAD

- The ball screws are preload 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.



## 24 TOOLS MAGAZINE (OPTION)

- Random tool selection, strongly provide stable quality and precision.

### SPECIFICATION

MODEL	MCV850	MCV1100
<b>Travel</b>		
X-Axis	850 mm(33.5")	1100 mm(43.3")
Y-Axis	600 mm(23.6")	
Z-Axis	100~660 mm(22.0")	
Spindle nose to table	70 - 530 mm(3.9-25.9")	
<b>Table</b>		
Table size	1050mm x 600mm(41.3-23.6")	1300mm x 600mm(51.1-23.6")
Floor to table	835 mm(33.6")	
Max. table loading capacity	1000 kgs(2200Lbs)	
T-slot (no x Width x Pitch)	6 x 18 x 100 mm ( 6 x 0.7" x 3.9" )	
Spindle center to column	652 mm(25.6")	
<b>Feed system</b>		
Rapid traverse speed	X/Y: 20 M/min ( 787.4"/min) , Z:15 M/min (590.6"/min)	
Feed motor(FANUC)	X: 1.8kW (12Nm) , Y: 3.0kW (22Nm), Z: 4.2 kW(30Nm)	
Ball screw diameter & pitch	X: 40 mm, Y/Z: 45 mm / 10 mm(0.39")	
Cutting feedrate	1-10,000 mm/min (0.04 - 393.7"/Min)	
Type of transmission	Direct Drive	

<b>Spindle</b>				
Type of tool shank	ISO 40 (BT/CAT/DIN 69871A)	ISO 50 (BT/CAT/DIN 69871A)	ISO 40 (BT/CAT/DIN 69871A)	ISO 50 (BT/CAT/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	75/11 kW / 11/15 kW (Op)	15/18.5 kW / 22/26 kW (Op)	75/11 kW / 11/15 kW (Op)	15/18.5 kW / 22/26 kW (Op)
Type of transmission	Belt			
<b>ATC</b>				
Tool storage capacity	20T/24 or 32 or 40T (Op)	24T / 30T (Op)	20T/24 or 32 or 40T (Op)	24T / 30T (Op)
ATC type	Armless type (Op)	Armless type	Armless type (Op)	Armless type
Max. tool diameter	100/95/76/76 mm (3.9/3.7/3/3.3")	110/127 mm (4.3/5")	100/95/76/76 mm (3.9/3.7/3/3.3")	110/127 mm (4.3/5")
Without adjacent tool	180/185/127/127 mm (7.1/7.3/5/5")	200/228 mm (7.9/9")	180/185/127/127 mm (7.1/7.3/5/5")	200/228 mm (7.9/9")
Max. tool length	300 mm (11.8")	300 mm (11.8")	300 mm (11.8")	300 mm (11.8")
Max. tool weight	7 kg (15Lbs)	15 kgs (33Lbs)	7 Kg (15Lbs)	15 kgs (33Lbs)
Tool changing time (Tool to Tool)	7 sec / 3.5 sec	5 sec	7 sec / 3.5 sec	5 sec
Tool changing time (Chip to Chip)	11 sec / 5.5 sec	7 sec	11 sec / 5.5 sec	7 sec
Method of tool selection	20T by address code / Random selection			
	bi-directional magazine rotation			
Tool display	Yes			
Special tool management	Yes			
<b>Coolant system</b>				
Coolant tank size	486 L			
Coolant capacity	105 L / min			
Chip Flush capacity	105 L / min			
<b>Machine size</b>				
Machine height	2,600 mm 102.3")	2,900 mm 114.7")	2,600 mm 102.3")	2,900 mm 114.7")
Floor space	2,540x2,190 mm (100x86.2")		2,920x2,190 mm (115x86.2")	
weight	7,200 kgs (15840Lbs)	7,500 kgs (16500Lbs)	7,400 kgs (16280Lbs)	7,700 kgs (16940Lbs)

<b>Power source</b>	
Electrical power supply	25 KVA/3PH, , 220V 50/60HZ
Compressed air supply	6.0 kgf/cm <sup>2</sup> (85psi) (0.6MPa)
<b>Controller</b>	
	FANUC / HEIDENHAIN / SIEMENS

Edition / A08

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

#### **Standard accessories**

- (#40) Armless type ATC (20Tools)
- (#50) Arm type ATC (24Tools)
- (#40) 8,000 rpm spindle (Belt type)
- (#50) 6,000 rpm spindle (Belt type)
- Automatic lubrication system
- Portable electronic handwheel (FANUC)
- Working light
- Alarm light
- Spiral type chip conveyor
- Coolant gun
- Spindle coolant system

#### **Optional accessories**

- (#40) Arm type ATC (24 or 32 or 40 Tools)
- (#50) Arm type ATC (30 or 40 Tools)
- (#40) 10,000 rpm spindle (Belt type)
- (#50) 8,000 rpm spindle (Belt type)
- Spindle chiller
- Preparation for coolant through spindle system
- Coolant through spindle system
- Spindle air blow
- Flat type chip conveyor
- 4th or 4+5th axis rotary table
- Heidenhain 3-Axis linear scale
- Working piece measurement system
- Tool length measurement system
- Heat exchanger on electrical cabinet
- Power transformer
- CE (Safety door interlock)
- Air gun