

COMPLETE
THE PROCESS IN
ONE CYCLE

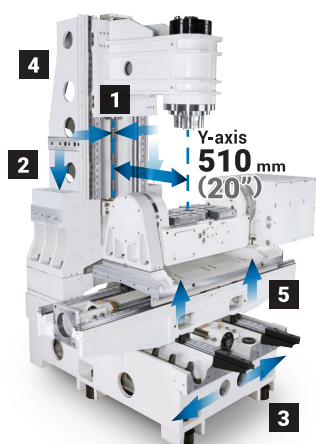
MEGA 30VT

40
Taper

4+1 / 5
Axis

40
Tools

1.2 Sec
T to T



1. Symmetric Design
2. Supporting Shoulders
3. Wide Base
4. Honeycomb Ribbed

5. Full Stroke Support
6. Trunnion Table Faceplate
option: Ø300 mm / Ø350 mm
(Ø11.8" / Ø13.8")

The MEGA 30VT is a five-axis trunnion (4+1) table machine with hydraulic brakes. The design allows the user to load three vises or can be used as a 500 x 300 mm (19.7 x 11.8") work table with a 220 mm (8.7") diameter faceplate.

COMPLETE PROCESS IN 1 CYCLE

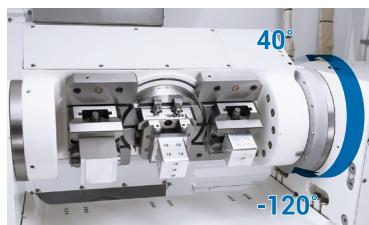


Machine 6 Sides In One Load

- Left vise: cut dove tail.
- Central vise: 5-side machining.
- Right vise: finish dove tail.



Rotary Axis Motion Ranges



Tilting Axis Motion Ranges

MEGA SERIES STANDARD EQUIPMENT

BUILT-IN SPINDLE



Item	STANDARD	OPTION	
Taper	40 Taper Dual Contact (BBT / CAT / DIN / HSK-63A)		
Speed	15,000 rpm	20,000 rpm	24,000 rpm ^(*)
Power	31 kW (41 HP)	35 kW (47 HP)	35 kW (47 HP)
Torque	141 Nm (104 ft-lb)	119 Nm (88 ft-lb)	119 Nm (88 ft-lb)

(*) Standard HSK-63A

MICRO DYNAMICS HMI

Micro Dynamics Features
Mitsubishi CNC M830VW /
CNC M850VW (opt) Control.

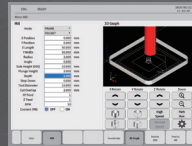
- 5,400 block look ahead.
- 60 GB data server.
- Tilted work planes (G68.2)
- TCP control.



PART SETUP



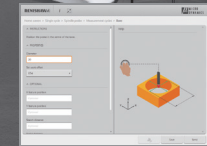
TOOL SETUP



MICRO MILL®



MAGAZINE MONITOR

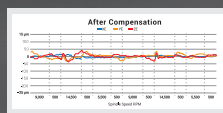


RENISHAW SET & INSPECT

DYPEC®

DYNAMIC PREDICTIVE
ERROR COMPENSATION

THERMAL
SENSOR



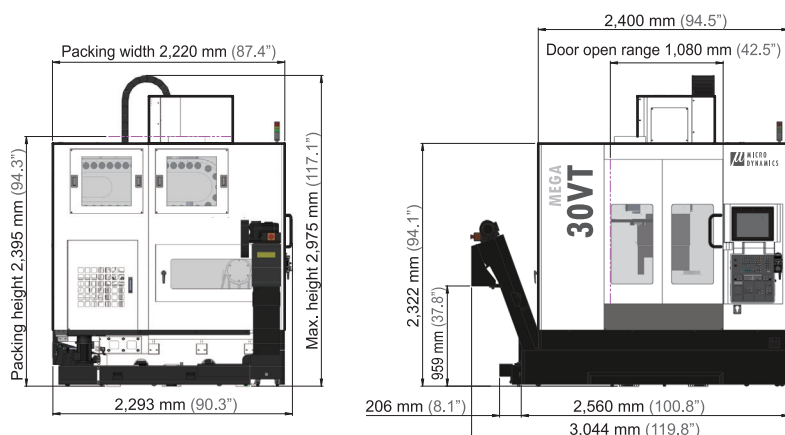
Thermal
Compensation
Resolution 0.1 μm



SPECIFICATIONS

MODEL	MEGA 30VT
TRAVEL	
X Axis	780 mm (30")
Y Axis	510 mm (20")
Z Axis	441 mm (17.4")
A Axis (Tilting Axis)	40° ~ -120°
C Axis (Rotary Axis)	360°
Spindle Nose to Table Surface	50 ~ 491 mm (1.97" ~ 19.3")
Spindle Center to Column Front	550 mm (21.7")
TABLE	
Table Size	Ø220 mm [500 x 300 mm] (Ø8.7" [19.7" x 11.8"])
Min. Table Index Unit	0.001°
Max. Table Load	150 kg (331 lb)
Table Height (from the Ground)	1,108 mm (43.6")
SPINDLE	
Spindle Taper	40 Taper Dual Contact (BBT / CAT / DIN / HSK-63A)
I.D. of Spindle Bearing	Ø70 mm (Ø2.75")
Spindle Speed	50 ~ 15,000 rpm
Max. Power	31 kW (41 HP)
Max. Cutting Torque	141 Nm (104 ft-lb)
Clamping Force	1,200 kgf (2,646 lbf)
Max. Speed for Rigid Tapping	6,000 rpm
FEEDRATE	
Rapid Feedrate - X Axis	48,000 mm/min (1,889 ipm)
Rapid Feedrate - Y Axis	48,000 mm/min (1,889 ipm)
Rapid Feedrate - Z Axis	48,000 mm/min (1,889 ipm)
Rapid Feedrate - A Axis (Tilting Axis)	25 rpm
Rapid Feedrate - C Axis (Rotary Axis)	33 rpm
Cutting Feedrate	20,000 mm/min (787 ipm)
ATC	
Magazine Capacity	40T
Tool Selection	Bi-Direction / Random
Tool Shank Type	JIS6339 (BT40) / DIN69871 (DIN40) / ANSI B5.50 (CAT40)
Pull Stud Type	JIS6339 / DIN69872 / CAT40DIN
Max. Tool Diameter x Length	Ø75 x 300 mm (Ø3" x 11.8")
Without Adjacent Tool	Ø150 mm (Ø5.9")
Max. Tool Weight	7 kg (15.4 lb)
PERIPHERAL	
Power Consumption (220V/3PH)	30 KVA
Pneumatic Supply	300 L/min (10.6 cfm) [0.6 MPa, ANR]
Cutting Coolant Pump Motor	1.1 kW (1.5 HP)
Base Wash Pump Motor	1.1 kW (1.5 HP)
CTS Pump Motor (opt)	3 kW (4 HP)
Coolant Tank Capacity	300 L (79 gal)
Foot Print Size (W x D)	3,044 x 2,293 mm (119.8" x 90.3")
Machine Height (H)	2,975 mm (117.1")
Packing Size (W x D x H)	3,300 x 2,310 x 2,550 mm (129.9" x 90.9" x 100.4")
Machine Net Weight	6,350 kg (13,999 lb)
Machine Gross Weight	6,590 kg (14,528 lb)
ACCURACY	
Positioning Accuracy / Full Stroke	0.005 mm (0.0002") [VDI 3441]
Repeatability Accuracy	±0.0025 mm (±0.0001")

MACHINE DIMENSIONS



Note: specifications subject to change without notice.

EQUIPMENT

STANDARD EQUIPMENT

- 15,000 rpm Built-In Spindle (40 Taper)
- DYPEC® Thermal Compensation
- Mitsubishi CNC 830VW (4+1 Axis)
- 15" Touchscreen Display
- Micro Dynamics® HMI
- 8 M-Codes (M20 ~ M27)
- Automatic Power Off
- 40 Tools(*)
- ATC Magazine Panel
- Tool Magazine LED
- CTS Preparation (without Rotary Union)
- Coolant Gun & Air Gun
- Scraper Type Chip Conveyor
- Twin Chip Augers
- Full Chip Enclosure
- Safety Door
- Manuals / Tool Kit / Foundation Kit

OPTIONAL EQUIPMENT

- 20,000 rpm Built-In Spindle (40 Taper)
- 24,000 rpm Built-In Spindle (HSK-63A)
- X / Y / Z Axis Linear Scale (Renishaw)
- A / C Axis Rotary Scale (Renishaw)
- Mitsubishi CNC 850VW (5-Axis)
- 19" Touchscreen Display
- Tool / Workpiece Measurement
- Additional 8 M-Codes (M130 ~ M137)
- 60 / 90 / 120 Tools(*)
- Servo Tool Magazine(*)
- ATC Auto Door(*)
- Metal Coolant Ring
- Spinning Window
- 20-bar / 40-bar / 70-bar CTS (290 psi / 580 psi / 1,000 psi)
- Chain Type Chip Conveyor
- Drum Type Chip Conveyor
- Rear Type Chip Conveyor(*)
- Disc Type Oil Skimmer
- Oil Mist Collector
- 250 mm (9.8") Column Riser(**)
- Ø300 mm / Ø350 mm Faceplate (Ø11.8" / Ø13.8")
- CE-Conformity Package
- Transformer
- Automatic Door (Pneumatic / Servo)

(*) Factory order (**) Standard is 150 mm (5.9")

MICRO DYNAMICS
Precision Performance

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Website



Youtube



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