

**BEST
STANDARD
CONFIGURATION**

**MEGA
40V**

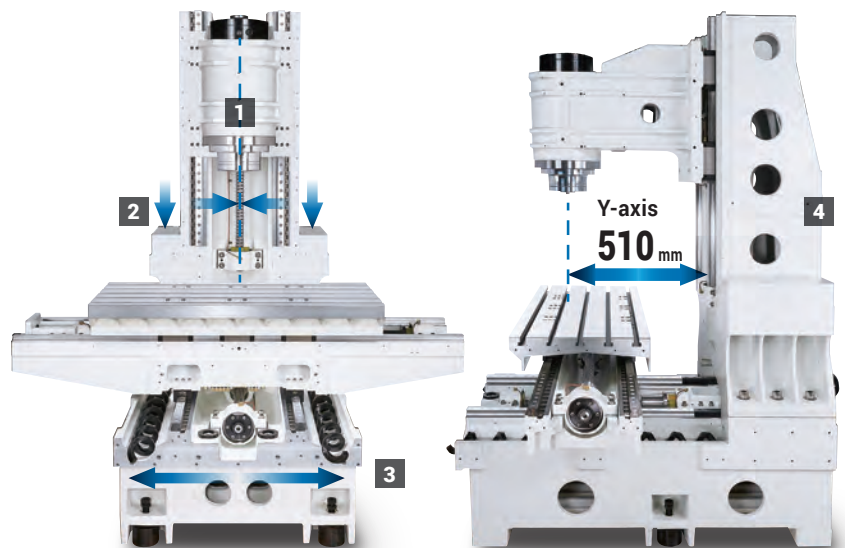
#40

3 AXIS

40T

Micro Dynamics Vertical Machining Center Line opens a new era in multi-purpose and versatile machining centers. Compact, durable, powerful, strong and accurate, the MEGA/TERA Series starts a revolution in the market: the smallest C-frame machines provide powerful and precise results for manufacturers of dies and molds, aerospace, automotive, semi-conductor, job shops and general machine sectors.

The heavily ribbed structure is made of FC300 Meehanite® casting that has been FEA analyzed for strength and stability. All castings are designed to reach the maximum level of rigidity for the best machining performance



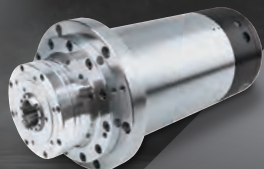
1. Symmetric Design
2. Supporting Shoulders

3. Wide Base
4. Honeycomb Ribbed

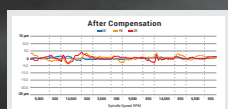
MEGA / TERA SERIES STANDARD EQUIPMENT

BUILT-IN SPINDLE

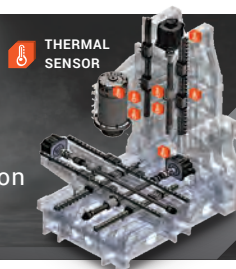
- Speed: **15,000 rpm**
- Power: **31 kW**
- Torque: **141 Nm**



DYPEC® DYNAMIC PREDICTIVE
ERROR COMPENSATION



Thermal
Compensation
±5µm



MICRO DYNAMICS HMI



MICRO MILL®



MAGAZINE MONITOR



COLLISION DETECTION

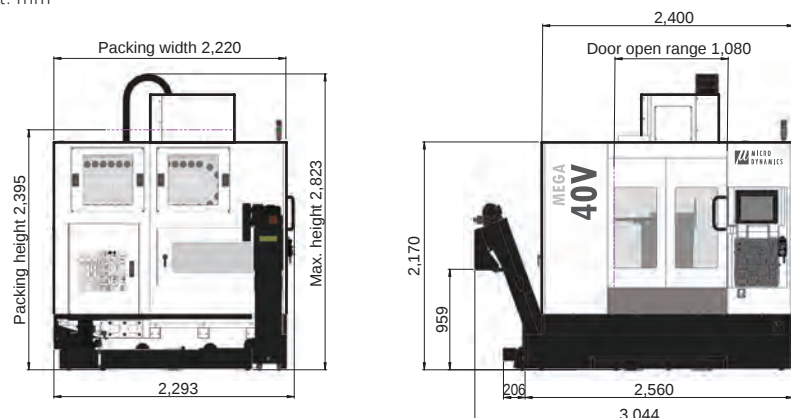
SPECIFICATIONS

MODEL	MEGA 40V
TRAVEL	
X Axis	1,020 mm
Y Axis	510 mm
Z Axis	510 mm
Spindle Nose to Table Surface	100 ~ 610 mm
Spindle Center to Column Front	550 mm
TABLE	
Table Size	1,120 × 500 mm
Max. Table Load	1,000 kg
Table Height (from the Ground)	840 mm
SPINDLE	
Spindle Taper	40 Taper Dual Contact (BBT / CAT / DIN / HSK-63A)
I.D. of Spindle Bearing	ø70 mm
Spindle Speed	50 ~ 15,000 rpm
Max. Power	31 kW
Max. Cutting Torque	141 Nm
Clamping Force	1,200 kgf
Max. Speed for Rigid Tapping	6,000 rpm
FEEDRATE	
Rapid Feedrate - X Axis	52,000 mm/min
Rapid Feedrate - Y Axis	52,000 mm/min
Rapid Feedrate - Z Axis	48,000 mm/min
Cutting Feedrate	20,000 mm/min
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 × 300 mm
Without Adjacent Tool	ø150 mm
Max. Tool Weight	7 kg
PERIPHERAL	
Power Consumption (220V/3PH)	30 KVA
Pneumatic Supply	300 (0.6 MPa) L/min (ANR)
Cutting Coolant Pump Motor	1.1 kW
Base Wash Pump Motor	1.1 kW
CTS Pump Motor (opt)	3 kW
Coolant Tank Capacity	300 L
Foot Print Size (W x D)	3,044 x 2,293 mm
Machine Height (H)	2,823 mm
Packing Size (W x D x H)	3,300 x 2,310 x 2,550 mm
Machine Net Weight	5,610 kg
Machine Gross Weight	5,850 kg
ACCURACY	
Positioning Accuracy / Full Stroke	0.005 (VDI 3441) mm
Repeatability Accuracy	±0.0025 mm

Note: Specifications subject to change without notice.

MACHINE DIMENSIONS

Unit: mm



EQUIPMENT

STANDARD EQUIPMENT

- 15,000 rpm Built-In Spindle
- DYPEC® Thermal Compensation
- Mitsubishi CNC 830VW
- 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

- 18,000 & 20,000 rpm Built-In Spindle
- 24,000 rpm Built-In Spindle: HSK-63A
- X / Y / Z Axis Linear Scale
- Mitsubishi CNC 850VW
- 19" Touchscreen Display
- Tool Measurement / Workpiece Measurement
- Additional 8 M-Codes (M130 ~ M137)
- 60 / 90 / 120 Tools(*)
- Servo Tool Magazine(*)
- ATC Auto Door(*)
- 4th / 5th Axis Pre-wiring
- Metal Coolant Ring
- Spinning Window
- 20-Bar (290 psi) / 40-Bar (580 psi) / 70-Bar (1,000 psi) CTS
- Chain Type Chip Conveyor
- Drum Type Chip Conveyor
- Rear Type Chip Conveyor(*)
- Disc Type Oil Skimmer
- Oil Mist Collector
- 100 / 150 / 250 mm Column Riser
- CE-Conformity Package
- Transformer
- Automatic Door (Pneumatic / Servo)

(*) Factory order

MICRO DYNAMICS
Precision Performance

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Website

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