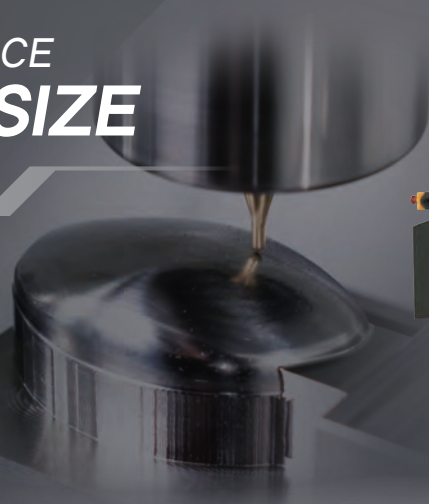


FULL PERFORMANCE
COMPACT SIZE
EFFICIENCY UNCHANGED

**MEGA
30V**



#40

3 AXIS

30T

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.

MULTIPURPOSE APPLICATIONS

- For all applications, from heavy duty to high speed machining.
- Highest productivity under any conditions and complexities.



POWERFUL

Heavy Cutting



FAST

High Speed Milling



ACCURATE

High Resolution Cutting



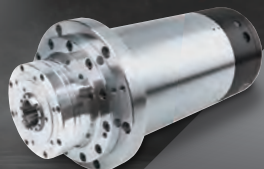
PRODUCTIVE

High Speed Tapping

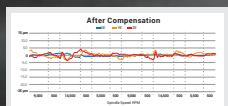
MEGA SERIES STANDARD EQUIPMENT

BUILT-IN SPINDLE

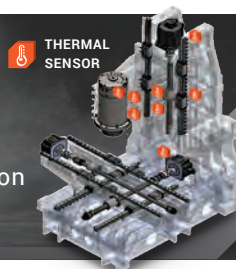
- Speed: **15,000 rpm**
- Power: **31 kW**
- Torque: **141 Nm**



DYPEC® DYNAMIC PREDICTIVE ERROR COMPENSATION



Thermal
Compensation
±5µm



MICRO DYNAMICS HMI



PART SETUP



TOOL SETUP



MICRO MILL®



MAGAZINE MONITOR



COLLISION DETECTION

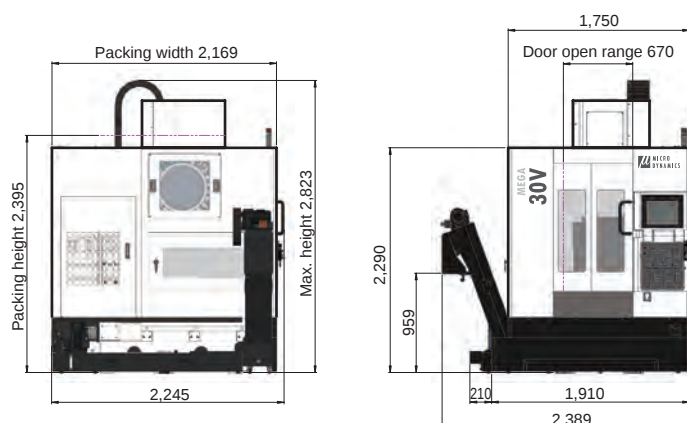
SPECIFICATIONS

MODEL	MEGA 30V
TRAVEL	
X Axis	760 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	860 × 500 mm
Max. Table Load	800 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 × 230 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	250 L
Foot Print Size (W x D)	2,389 x 2,245 mm
Machine Height (H)	2,823 mm
Packing Size (W x D x H)	2,750 x 2,300 x 2,550 mm
Machine Net Weight	4,890 kg
Machine Gross Weight	5,070 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
- 30 Tools(*)
- 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)
- 40 / 60 / 90 / 120 Tools(*)
- Servo Tool Magazine(*)
- ATC Auto Door(*)
- ATC Magazine Panel
- 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



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www.microdynamicsfa.com



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