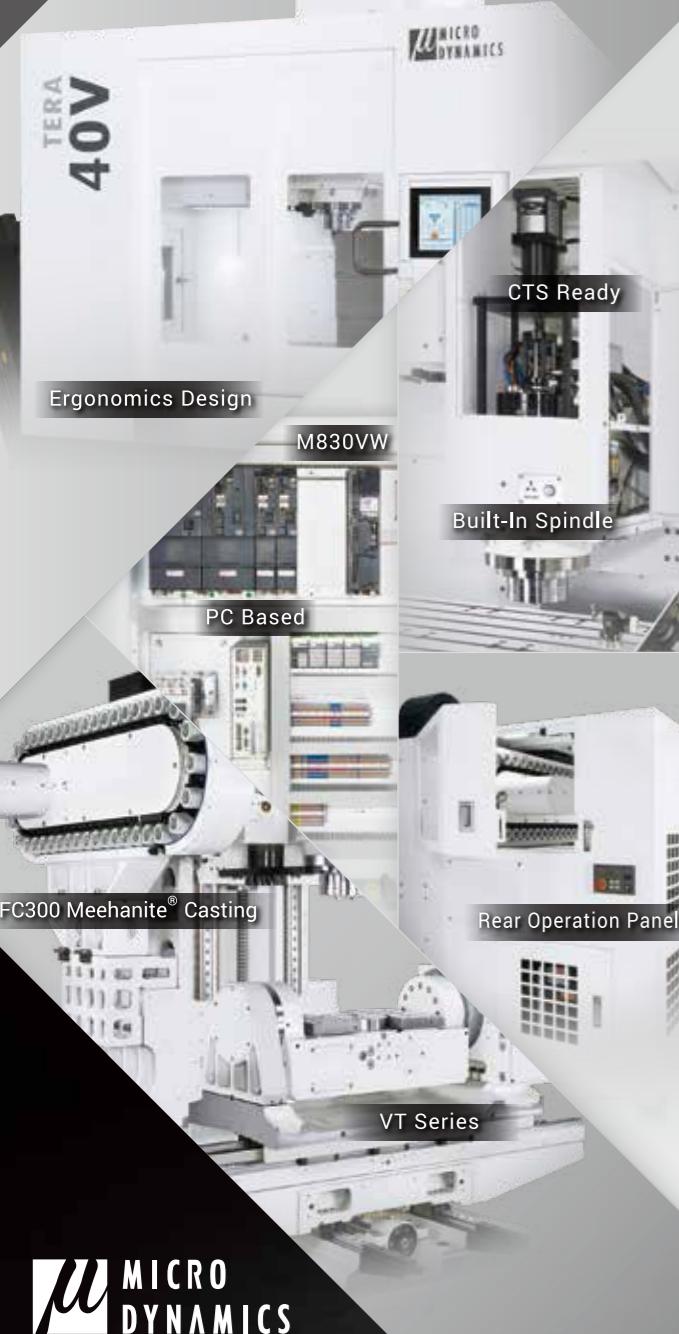


TERA
40V



Ergonomics Design
M830VW
PC Based
FC300 Meehanite® Casting
VT Series
Rear Operation Panel

MICRO DYNAMICS
Precision Performance

MEGA TERA SERIES
US Specifications

sales@mikedynamicsusa.com
www.mikedynamicsusa.com




MD202308US

MEGA / TERA SERIES

BUILT-IN SPINDLE

40 Taper Dual Contact



15,000 rpm

41 HP Power

104 ft-lb Torque

18,000 rpm (opt.)

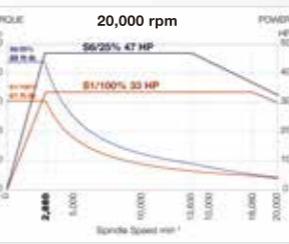
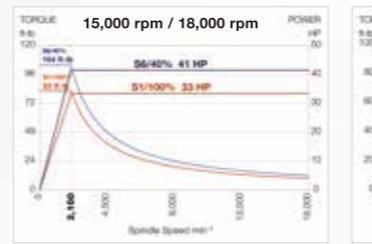
41 HP Power

104 ft-lb Torque

20,000 rpm (opt.)

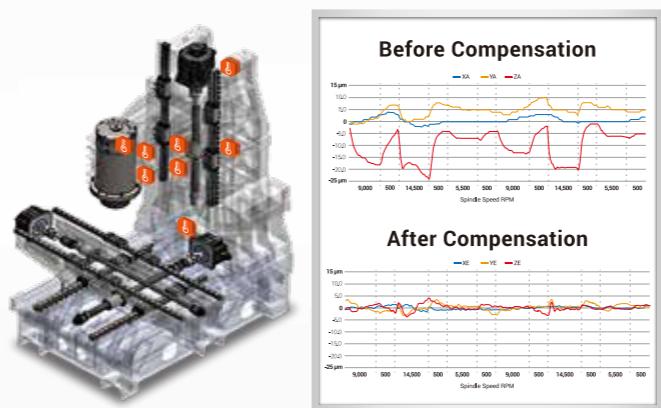
47 HP Power

88 ft-lb Torque



DYPEC® THERMAL COMPENSATION

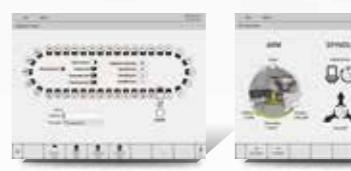
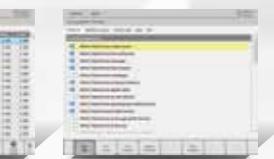
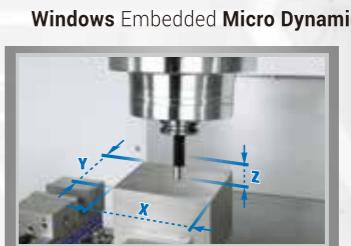
Dynamic Predictive Error Compensation (Resolution 0.1µm)



 THERMAL SENSORS

MICRO DYNAMICS VERTICAL MACHINING CENTER

HMI



Mitsubishi CNC M830VW

- 15" touchscreen display.
- 2,700 block look ahead.
- 20 GB data server.
- 54 sets work offsets.
- 400 sets tool life management.
- 8,000 sets macro variable.
- 64 bit microprocessor.
- Programs can be run from the front side USB or the hard drive.
- 3D circular interpolation.
- NURBS interpolation.
- 4G SSS control (Super Smooth Surface).
- Tool center point control.
- Workpiece position offset for rotary axis.
- Upgradable to 5 axes simultaneous control.

MICRO DYNAMICS

VERTICAL**MACHINING CENTER**

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 start 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.



Precision Performance

MEGA SERIES**TERA SERIES**

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.

MEGA / TERA represent the two C-frame sizes for the series. The compact frames have the optimal design and placement for all components, making each model one of the smallest foot-prints in it's class.



Dual pallet changer MEGA 20VAPC is designed for high production.



Tilting axis and rotary axis motion ranges.



- MEGA 30VT: **12"** and **14"** diameter face table. (opt.)
- TERA 50VT: **20"** and **24"** diameter face table. (opt.)

MODEL	UNIT	MEGA 30V	MEGA 40V	MEGA 20VAPC	MEGA 30VT	TERA 40V	TERA 50V	TERA 60V	TERA 50VT
X Axis	inch	30"	40"	24"	30"	40"	50"	60"	38"
Y Axis	inch	20"	20"	20"	20"	28"	28"	28" / 25.4" (90°)	
Z Axis	inch	20"	20"	20"	17.4"	25"	25"	25"	19.7"
Table Size	inch	33.9" x 19.7"	44.1" x 19.7"	22" x 15.7"	ø8.7 (19.7" x 11.8")	44.1" x 27.6"	55.9" x 27.6"	67.9" x 27.6"	ø12.6 (28.3" x 15.7")
A Axis (Tilting Axis)	deg	N/A	N/A	N/A	40° ~ -120°	N/A	N/A	N/A	40° ~ -120°
C Axis (Rotary Axis)	deg	N/A	N/A	N/A	360°	N/A	N/A	N/A	360°
Spindle Taper					40 Taper Dual Contact				
Spindle Motor Power	HP				41 / 33				
Max. Cutting Torque	ft-lb				104				
Spindle Speed	rpm				50 ~ 15,000 (optional 18,000 & 20,000)				
Rapid Feedrate (X / Y / Z axis)	ipm	2,047 / 2,047 / 1,889	2,047 / 2,047 / 1,889	2,047 / 2,047 / 1,889	1,889 / 1,889 / 1,889	2,047 / 2,047 / 1,889	2,047 / 2,047 / 1,889	2,047 / 2,047 / 1,889	1,889 / 1,889 / 1,889
Tool Magazine Capacity		30T	40T	40T	40T	40T	40T	40T	40T
Foot Print Size (W x D)	inch	94.1" x 88.4"	119.8" x 90.3"	100.8" x 117"	119.8" x 90.3"	123.5" x 97.6"	142" x 97.6"	170.2" x 97.6"	143.9" x 97.6"
Machine Height	inch	111.1"	111.1"	115"	117.1"	116.3"	116.3"	116.3"	118.3"
Machine Net Weight	lb	10,780	12,368	14,109	13,999	15,873	18,960	20,216	21,076