

5-AXIS MACHINING

MEGA 30VT



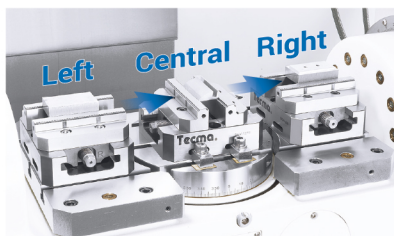
40
Taper

4+1 / 5
Axis

40
Tools

1.2 Sec
T to T

COMPLETE PROCESS IN 1 CYCLE

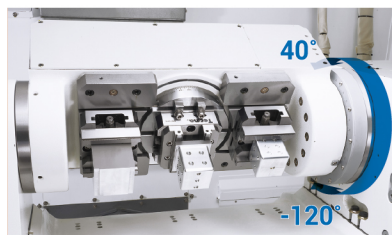


Machine 6 Sides In One Load

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



Rotary axis motion ranges



Tilting axis motion ranges

TRUNNION TABLE FACE PLATE

STANDARD

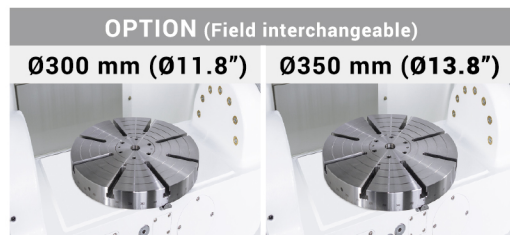
Ø220 mm (Ø8.7")



OPTION (Field interchangeable)

Ø300 mm (Ø11.8")

Ø350 mm (Ø13.8")



MEGA SERIES STANDARD EQUIPMENT

BUILT-IN SPINDLE

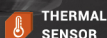
(Dual Contact)



ITEM	STANDARD	OPTION	
Taper	BT40 / HSK-63A	BT40 / HSK-63A	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)

DYPEC®

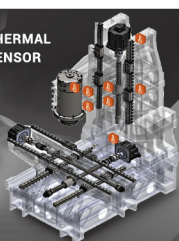
DYNAMIC PREDICTIVE
ERROR COMPENSATION



THERMAL
SENSOR



Thermal
Compensation
Resolution 0.1 μ m



MICRO DYNAMICS

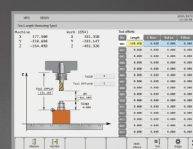
HMI

MEGA 30VT features Mitsubishi
CNC M830VW / CNC M850VW Control.

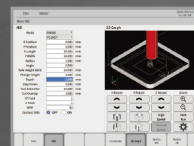
- 5,400 block look ahead.
- 60 GB data server.
- TCP control.
- Tilted work planes (G68.2)



PART SETUP



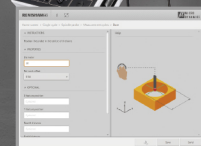
TOOL SETUP



MICRO MILL®



MAGAZINE MONITOR

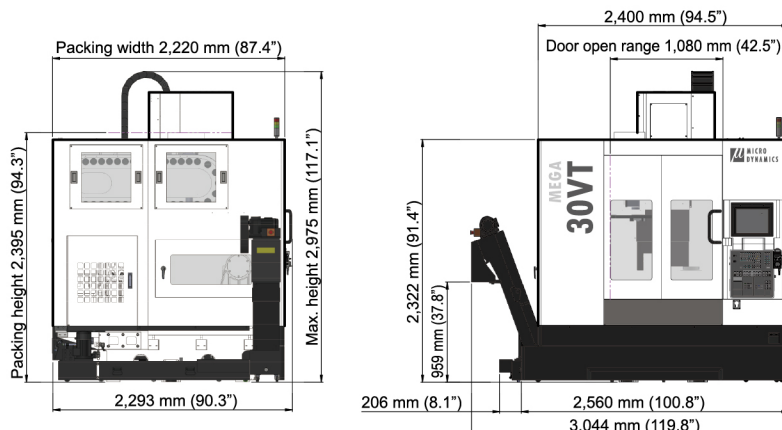


RENISHAW SET & INSPECT

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 / Y / Z Axis	48,000 mm/min (1,889 ipm)
Rapid Feedrate - A Axis (Tilting)	25 rpm
Rapid Feedrate - C Axis (Rotary)	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 (Dual Contact Spindle 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 (BT40 / HSK-63A)
- 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^(1*)
- 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
- 250 mm (9.8") Column Riser^(**)
- 300 / 350 mm (11.8" / 13.8") Diameter face table
- CE-Conformity Package
- Transformer
- Automatic Door (Pneumatic / Servo)

^(*) Factory order

^(**) MEGA 30VT standard is 150 mm (5.9").

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Precision Performance

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Website



Youtube



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