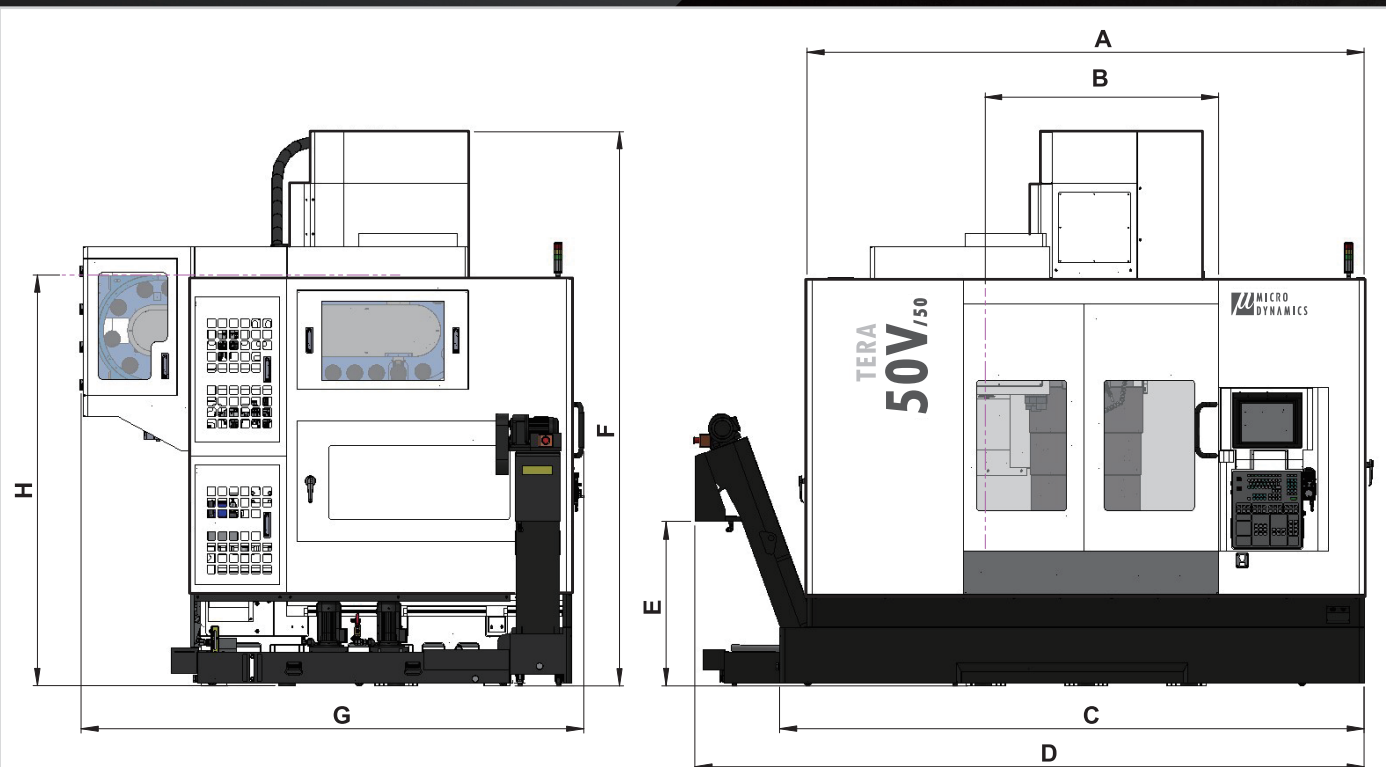


STANDARD EQUIPMENT

- 12,000 rpm Built-In Spindle
- DYPEC® Thermal Compensation
- 15" Touchscreen Display
- Micro Dynamics® HMI
- 8 M-Codes (M20 ~ M27)
- Automatic Power Off
- Collision Detection
- Tool Magazine Capacity - 32
- ATC Magazine Panel
- Tool Magazine LED
- Coolant Gun & Air Gun
- Base wash
- CTS Preparation (without Rotary Union)
- Scraper Type Chip Conveyor
- Twin Chip Augers
- Full Chip Enclosure
- Safety Door
- Manuals / Tool Kit / Foundation Kit



MACHINE DIMENSIONS



MODEL	TERA 50V _{/50}	TERA 60V _{/50}	TERA 50VT _{/50}
A Width	127.9"	143.3"	127.9"
B Door Open Range	53.5"	63"	53.5"
C Front Water Tank Width	134.2"	150.8"	134.2"
D Max. Width	153.7"	170.2"	153.7"
E Chip Conveyor Height	37.8"	37.8"	37.8"
F Max. Height	127.4"	127.4"	131.6"
G Max. Depth	115.6"	115.6"	115.6"
H Packing Height	94.3"	94.3"	94.3"

Note: Specifications subject to change without notice.

50 TAPER
VERTICAL MACHINING CENTER
Compact, Durable, Powerful,
Strong and Accurate



sales@microdynamicsusa.com
www.microdynamicsusa.com

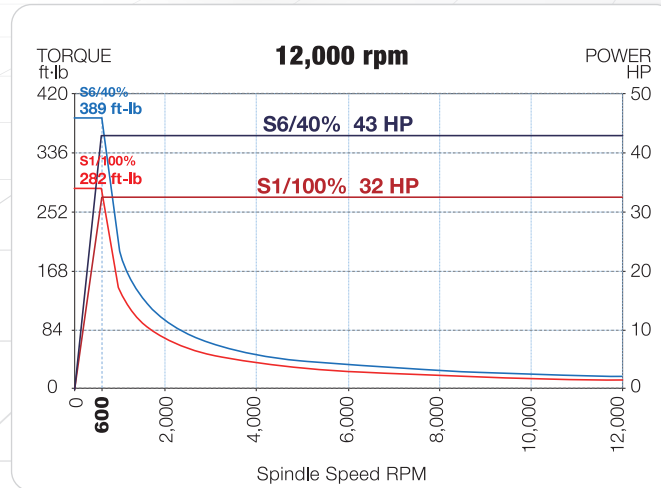


MD202405S.A.E

50 TAPER BUILT-IN SPINDLE

- Powerful integrated 50 taper dual contact spindle.
- Maintenance free 12,000 rpm spindle requires no added oil or grease.
- ATE[®] motor integrated with hybrid ceramic angular contact bearings.
- Micro Dynamics drawbar has been rigorously tested to sustain more than 2 million cycles.
- For all applications, from heavy duty to high speed machining.
- Highest productivity under any conditions and complexities.
- CTS (Coolant Through Spindle) designed to sustain up to 70 bar (1,000 psi).(*)

(* CTS preparation is standard equipment. CTS system is optional.



MACHINING CAPACITY ON 1050 STEEL



Performance	47 cu in/min	22.46 cu in/min	46.13 cu in/min	M42
Spindle Load	97%	20%	70%	18%
Tool	10.24" Face Mill	1.25" End Mill	2.36" Drill	1.65" x 0.11" Tap
Cut	4" x 0.2"	1.25 x 0.2"	ø2.36" x 1.77" Depth	-
Feedrate	59 ipm	90 ipm	11 ipm	17 ipm
Spindle Speed	450 rpm	3,800 rpm	1,100 rpm	144 rpm

Note: Factory Conditions

SPECIFICATIONS

ITEM	UNIT	TERA 50V /50	TERA 60V /50	TERA 50VT /50	
TRAVEL	X Axis	inch	50"	38"	
	Y Axis	inch	28"	28" / 25.4" (90°)	
	Z Axis	inch	25"	19.7"	
	A Axis (Tilting Axis)	deg	N/A	N/A	40° ~ -120°
	C Axis (Rotary Axis)	deg	N/A	N/A	360°
	Spindle Nose to Table Surface	inch	5.9" ~ 31"	5.9" ~ 31"	2" ~ 22"
	Spindle Center to Column Front	inch	28.9"	28.9"	28.9"
TABLE	Table Size	inch	55.9" x 27.6"	67.9" x 27.6"	ø12.6" (28.3" x 15.8")
	Min. Table Index Unit	deg	N/A	N/A	0.001°
	Max. Table Load	lb	3,307	4,409	551 (0°-45°) / 331 (45°-90°)
	Table Height (from the Ground)	inch	35.4"	35.4"	47"
	Positioning Accuracy / Full Stroke	inch	0.0002" (VDI 3441)		
	Repeatability Accuracy	inch	0.0001" (VDI 3441)		
	Spindle Taper		50 Taper Dual Contact		
SPINDLE	I.D. of Spindle Bearing	inch	ø3.93" / 3.14"		
	Spindle Speed	rpm	50 ~ 12,000		
	Max. Power	hp	43		
	Max. Cutting Torque	ft-lb	389		
	Max. Speed for Rigid Tapping	rpm	3,000		
	Rapid Feedrate - X / Y / Z Axis	ipm	2,047 / 2,047 / 1,417		1,889 / 1,889 / 1,259
	Rapid Feedrate - A (Tilting) Axis	rpm	N/A		33
Rapid Feedrate - C (Rotary) Axis	rpm	N/A		36	
FEEDRATE	Cutting Feedrate	ipm	0 ~ 787		
	Magazine Capacity		32		
	Tool Selection		Bi-Direction / Random		
	Max. Tool Diameter x Length	inch	ø5" x 13.8"	ø5" x 13.8"	ø5" x 11.8"
ATC	Without Adjacent Tool	inch	ø9"		
	Max. Tool Weight	lb	33.1		
	Power Consumption (220V/3PH)	KVA	45	55	
	Pneumatic Supply	L/min (ANR)	300 (0.6MPa)		
PERIPHERAL	Coolant Tank Capacity	gal	106	106	92
	Machine Dimensions (W x D x H)	inch	153.7" x 115.6" x 127.4"	170.2" x 115.6" x 127.4"	153.7" x 115.6" x 131.7"
	Machine Net Weight	lb	21,164	22,421	23,369

Note: Specifications subject to change without notice.

RETENSION KNOB

