

VIBRA-FREE HD Specifications

Major Specifications

X Axis Travel	45 in (1143 mm)
Y Axis Travel	24 in (610 mm)
Z Axis Travel	22 in (559 mm)
Table Size.....	47.2 x 23.6 in (1200 x 600 mm)
Table to Spindle End	3.6 to 25.6 in (91 to 650 mm)
Table to Bridge	23.6 in (600 mm)
Table Surface	T-slot
Load Capacity	2000 lb (910 kg)
Rapid Traverse Rate	1400 in/min (35,560 mm/min)
Maximum Feedrate	1400 in/min (35,560 mm/min)
Tool Magazine	20 Tools, bi-directional, servo
Tool Holders	HSK 63
Maximum Tool Diameter	3 in (75 mm)
Maximum Tool Length	12 in (305 mm)
Maximum Tool Weight	15 lb (6.8 kg)
Control	Fanuc 18i-MB
Axis Drives.....	(X, Y, & Z) 4 kW, Fanuc Alpha 22i (Magazine) 2,2 kW, Fanuc Alpha 4i
Spindle Motor	40 hp (30 kW) S1 Continuous power 54 hp (40 kW) S6 Power
Spindle Speed	0 to 24,000 rpm
Spindle Chiller.....	5 kW

Machine Accuracy

Positioning Accuracy	0.0002 in (0.005 mm)
Repeatability	0.0001 in (0.003 mm)

Dimensional Data

Height	131 in (3330 mm)
Footprint	142 x 98 in (3610 x 2500 mm)
Weight.....	22,440 lb (10,200 kg)

Service Requirements

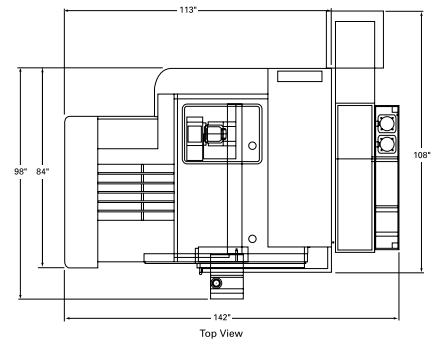
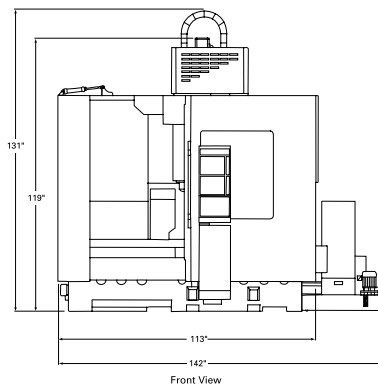
Air	80 psi, 26 cfm, dry air required
Electrical Power	200 to 500 VAC to universal transformer 50 to 60 Hz, Three-phase 45 kVA
Chiller Fluid Capacity	12 gal (45 l)
Lube Oil Reservoir.....	1.65 gal (6.0 l)
Hydraulic Reservoir	0.8 gal (3.0 l)
Mist Coolant Reservoir	0.25 gal (1.0 l)
Flood Coolant Tank.....	57 gal (216 l)

Standard Equipment

Rigid tapping	Mist coolant system
Flood coolant system	Chip wash system
Chip auger and conveyor	Dual chillers (Spindle & ball-screws)
Servo-driven, fast-acting ATC	Remote hand pulse generator
Fully enclosed work area	Fully integrated bed design
Operator work light	Pneumatically operated top cover for crane access
Leveling screws and pads	Operator call light (Red, yellow, green, blue)
Operation and maintenance manuals	

Machine Options and Accessories

HSK tooling package	Coolant through the spindle
30,000 rpm spindle	4th axis rotary table
4th and 5th axis tilting rotary table	Laser tool measuring system
Graphite dust extraction system	Pallet changer



Project Assistance

Qualified application engineers are ready to assist you with special fixturing, programming and cycle time reduction.

Training

Complete programmer and operator training by qualified distributors located throughout the USA and Canada.

Exclusive sales, service and applications in your area

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Some machine photos show covers or doors opened for clarity.

Refer to tool manufacturer for maximum safe cutter speeds.

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Specifications are subject to change.



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