

Vibra-Free Specifications

Major Specifications:

X Axis Travel	23.62 in (600 mm)
Y Axis Travel	15.75 in (400 mm)
Z Axis Travel	15.75 in (400 mm)
Table to Spindle End	2 to 17.72 in (50 to 450 mm)
Table to Column End	16.14 in (410 mm)
Table Size	27.56 x 17.72 in (700 x 450 mm)
Table Mounting Holes	M16, 50 mm spacing
Load Capacity	800 lb (360 kg)
Spindle Speed	5,000 to 42,000 rpm
Peak Power	12 hp (9 kW)
Rapid Traverse Rate	1180 in/min (30,000 mm/min)
Maximum Feedrate	472 in/min (12,000 mm/min)
Acceleration	1 G
Tool Magazine	18 Tools, bi-directional
Tool Holders	SKI 25
Maximum Tool Diameter	2 in (50 mm)
Control	Fanuc 16i-MA



Machine Accuracy:

Positioning	0.0001 (0.003 mm) over full stroke
Repeatability	0.00004 (0.001 mm)

Motors:

Axis Drives (X & Y)	1.4 hp. (Fanuc Alpha 6)
(Z)	2.8 hp. (Fanuc Alpha 12)

Dimensional Data:

Machine Height	107 in (2,710 mm)
Floor Space	79 x 91 in (2,000 x 2,300 mm)
Net Weight	11,000 lb (5,000 kg)

Service Requirements:

Air	80 PSI, 26 cfm, dry air required
Electrical Input Power Source	220 VAC +10 % -15%
	60 Hz \pm 1 Hz
	Total connected power, 20 kVA
	50 Amp service recommended

Standard Equipment:

Mist coolant system	Fully integrated bed design
Full chip and coolant enclosure	Operator work lights
Leveling screws & washers	Hand tool kit
Fully enclosed tool changer	Operator & maintenance manuals
SKI tooling system	

Machine Options and Accessories:

Flood coolant system	3,000 to 30,000 rpm, 11 kW spindle
Fourth axis	Fifth axis
Special way covers for graphite	UHSHM cutters

Vibra-Free is the result of research and development by FMC in Niigata, Japan and is manufactured in Japan by CKM (Compumill-Kasahara Machine), a joint venture company with facilities in Wilmington, Massachusetts, USA and Sanjo City, Niigata, Japan. UHSHM is a trademark of Compumachine, Inc. All rights are reserved.

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The machine photograph shows the guards open for clarity.

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Specifications are subject to change.

Exclusive sales, service and applications in your area:

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.



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