

Specifications

Items		Specifications	
Working range	Table longitudinal travel (X axis)	500mm	
	Saddle table transversal travel (Y axis)	300mm	
Table	Max. distance from table surface to grinding spindle nose	450mm	
	Work surface (length / width)	700 / 350mm	
	Nos / width of T-slots	7 / 50mm	
	Width of T slots	10mm H7	
	Permissible table load	300kg	
Spindle	Planetary rotation speed	5~300 min ⁻¹	
	Grinding infed stroke (U-axis)	-3~+50mm	
Quill (z axis)	Quill (z axis) travel	100mm	
	Z axis chopping travel	95mm	
	Max. chopping cycle number (25mm stroke)	200cycle/min	
Feed	Rapid feed	Table (X), Saddle (Y)	2,000mm/min
		Quill (Z)	3,000mm/min
		Spindle (C)	2,600° /min
	Grinding feed	Table (X), Saddle (Y)	0.1~2,000mm/min
		Quill (Z)	0.1~13,000mm/min
		Spindle (C)	0.1~2,600° /min
Spindle head	W axis travel	300mm	
Grinding head	High frequency motor	For low (HFM-HV)	9,000~45,000min ⁻¹
		For hugh (HFM-H) *option	18,000~90,000min ⁻¹
		For high stiffness (HFM-HS) *option	9,000~30,000min ⁻¹
		For ATC (HFM-ATC) *option	9,000~30,000min ⁻¹
	Air turbine (ATM-II) *option	max175,000min ⁻¹	
Accuracy (X,Y,Z axes)		±0.0007mm	
NC device (LCD)		FANUC 31i-B (15" touch panel screen)	
Power		200 / 220V	
Machine dimensions (Width / Length / Height)		2,610 / 2,665 / 2,504mm	

! Notis

* Products listed in this catalog are subject to Japanese foreign exchange and foreign trade control laws.
 * Mitsui Seiki Reserves the right to change or modify technical data without prior notification.

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MITSUI SEIKI

New High Precision Jig Grinder
J350G



Introducing a new jig grinding machine offering the ultimate in accuracy and operator friendliness

Enjoy the wide range of grinding infeed stroke with the U-axis

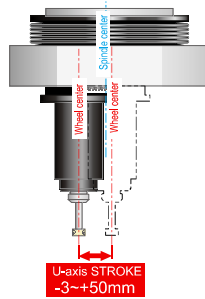
The new J350G offers the wide range of grinding infeed stroke (U axis -3 to +50mm). This stroke is the largest among other jig grinding machines. When grinding holes with different hole diameters on the planetary motion, this machine can grind small holes to large diameter holes with a single wheel in continuous, automatic mode.

Simulation of automatic, continuous grinding of a workpiece with different diameter holes and contoured shapes

Holes				Shape
φ 30	φ 34	φ 80	φ 120	Shape

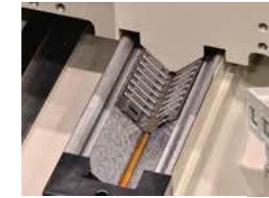
Grinding all holes (hole dia. different φ 90mm) + contouring

Enable continuous auto cycles

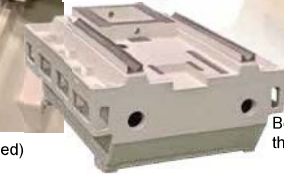


Renowned Mitsui Seiki craftsmanship is at the core of this machine's high accuracy

The most important attribute in jig grinding is accuracy. The X and Y axes slide ways are hand-scraped for superb precision and they also incorporate needle roller bearings. This structure achieves extraordinarily high straightness and precision movement. The left and right slide ways are V-F flat shaped, and the Y-axis (spindle head motion) is V-V shaped to reach even greater positioning accuracy. All components have hand-scraped surfaces and are assembled by hand, resulting in superb geometrical accuracy. Further, the machine bed is constructed with a highly-rigid and thick casting, supported by three level points, contributing to the machine's perpendicularity and parallelism accuracy.



Y-axis slide way (V-V shaped)

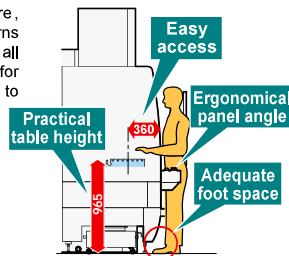


Bed supported on three level points



The total enclosure machine cover is standard, providing easy operation and access

The machine cover offers complete enclosure, designed with safety and environmental concerns in mind. Access is easy and the placement of all components has been thoughtfully considered for the most practical interaction by the operator to decrease fatigue and strain.



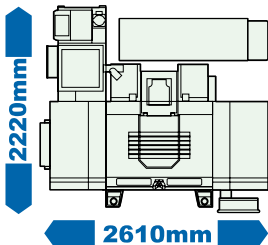
Operator panel offers easy manual programming

In grinding, manual programming is often the most sensible. Our analog programming display is designed for simple commands using switches and dials.



Compact to minimize floor space requirements

This machine takes up just 3 square meters of floor space because the coolant tank and electrical box are smartly positioned.



Exclusive to Mitsui Seiki -- special Heidenhain ultra-precise scales

We partnered with Heidenhain to make a custom built-in scale for the X, Y, and Z axes. This feature contributes to the confidence of this machine's superior accuracy.



G-MAPS for Fine Grinding

Grinding - Mitsui Advanced Programming Support

Simple data input is all that is required for optimal automatic programming

Our controller is equipped with the latest hmi. Its 15-inch LCD touch panel features our Mitsui Seiki exclusive G-MAPS software. This pre-loaded program makes programming this grinding machine simple and fun. Users may opt to use the programming icons, or data entry, or by more conventional methods.



Grinding menu screen

Users can save all the information for quick recall the next time the job runs.



Grinding wheel control screen

This screen allows users to quickly and easily set up the grinding wheel data, including dressing intervals.



Set up screen

Workpiece height, grinding length, and other data are input using the prompts in this screen.



Planetary hole grinding cycle screen

Wheel and grinding conditions can be monitored with this helpful screen, including hole location and position tolerances.

*Only the last adjusted value on each cycle