



Products | HORIZONTAL MACHINING CENTERS

Common Attributes

Horizontal Machining

5 Axis

HU -5X Trunnion Series

HU-T Table-on-Table Series

HU-TS Tilt Spindle Series

HJ-5X 5-AXIS JIG MILL Series

4 Axis

HU Series

HW Series

HJ - Jig Mill Series

Vertical Machining

Jig Borers

Jig Grinders

Thread Grinders

MODEL HW550S WITH FANUC 31i SPECIFICATIONS AND STANDARD FEATURES

MITSUI SEIKI High Production Machining Center Model HW550S with 550 mm square pallets. Numerically controlled with all standard equipment and features including: Automatic Tool Changer, Automatic Pallet Changer, and high production capability for drilling, boring, tapping, and reaming. Integrated circuit logic, closed loop, complete with electrical equipment for operation on: 3-phases, 50/60Hz, 200/220 Volts AC.

MACHINE SPECIFICATIONS

Working Capacity

Table longitudinal stroke (X axis)	750 mm (29.53")
Spindle head vertical stroke (Y axis)	800 mm (31.50")
Column travel stroke (Z axis)	850 mm (33.46")
Distance from table surface to spindle axis	50 - 850 mm (1.96" - 33.46")
Distance from spindle nose to table center	150 - 1000 mm (5.9" - 39.37")

Interference of whole machine cover with work piece on pallet

In machine	850mm diameter (Ø 33.46")
In two station automatic pallet changer (2 APC)	1000mm diameter (Ø 39.37")

Feed Rate (X, Y, Z and B axes)

Rapid traverse

X, Y and Z axes	60,000 mm/min (2,362 ipm)
B axis (0.001° table-option)	40 RPM

Cutting feed

X, Y and Z axes	0.1~30,000 mm/min (3.93 ~ 1,181 IPM)
B axis	0.1~4,000° / min

Minimum Resolution

X, Y and Z axes	0.001 mm (0.00004")
B axis	1° (0.001° option)

Position Transducer

X, Y and Z axes	Linear scale feedback system (Precision glass scale /standard)
B axis	Large diameter curvic coupling
Option	0.001° table: High Precision digital rotary encoder
Power Required	
Electrical Service Required	AC 220/200V 3 phase 50/60HZ, 52 KVA
Air Required	
Air Service Required	0.4 - 0.57 Mpa 900 NL/min (Dry and clean air)
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Machine Dimensions (Standard machine, includes 2 APC and chip conveyor)	
Length	7,000 mm (275 in)
Width	3,200 mm (126 in)
Height	3,100mm (122")
Height to table surface from floor	1,200mm (47.25")
Height of table surface from floor with optional T-slot pallets	1,200mm (47.25") 1,230 mm(48.42")
Machine Weight	16,000 kg. (35,273 lbs)
Floor space (Includes front APC and maintenance space)	
Length	8m (26.25 ft.)
Width	4.5m (15 ft.)
Numerical Control Equipment	
CNC Control	Fanuc 31i (Fanuc 30i is optional)