

# GE580H

TAPER  
50

PALLET  
500

**Enshu**  
JAPAN

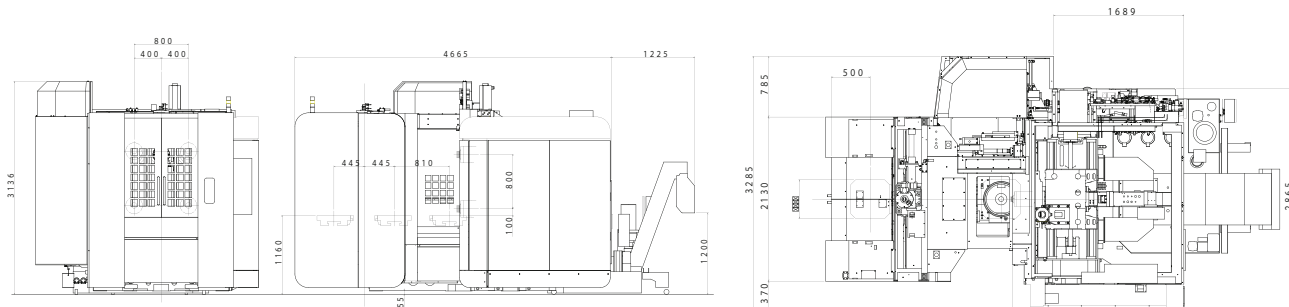


**MORE PARTS,  
HIGHER QUALITY,  
SHIFT AFTER SHIFT**

**Advancing the technology of ultra-high performance for stand-alone production, lean lines or agile machining systems.**

- Available 54 HP 50-taper spindle with heavy-duty 110mm bearings
- Designed for high volume metal removal in steel and aluminum
- Refrigerated & temperature controlled spindle and ballscrews
- 31.5"Ø x 40" high workload capacity weighing up to 1,763lbs
- Built to Enshu's "MTBF5000H" and "MTTR1H" standards

# GE580H MACHINE SPECIFICATIONS



## AXIS TRAVEL

X Axis	31.5"
Y Axis	31.5"
Z Axis	32.7"
Table top to spindle centerline	3.93"~35.4"
Table centerline to spindle face	5.9" ~ 37.4"

## FEEDRATES

Rapid traverse (X/Y/Z)	2,362 IPM
Cutting feedrate	0 ~ 1,968 IPM
Feed motors, AC Servo	7.4 HP (X/Y/Z)

## SPINDLE

Spindle taper	CAT50
Spindle bearing diameter	4.33"
Spindle power/type	54 HP/integral
Full power developed at	
Low Range	500 RPM
High Range	2,500 RPM
Spindle ramp-up time	3.8 seconds
Rigid tapping (max. rpm)	3,000 RPM
Lubrication type	Oil air

## ACCURACY

Positioning, full stroke (X/Y/Z)	0.000080"
Repeatability	+/- 0.000040"

## AUTOMATIC TOOL CHANGER

Magazine capacity	40 (78, 130)
Maximum tool diameter	4.7"
with adjacent pockets empty	9.4"
Maximum tool length	17.7"
Maximum tool weight	
Full speed	33 lbs.
Reduced Speed (programmable)	55 lbs.
Tool change time (tool-tool)	2.1 seconds
Tool change time (chip-chip)	4.8 seconds

## AUTOMATIC PALLET CHANGER

Pallet size	19.7" x 19.7"
Capacity per pallet/total	1,763 lbs./3,526 lbs.
Minimum index	Full 4th axis (360,000 positions)
Pallet index time (90° index)	2.0 seconds
Pallet change time	10.0 seconds

## MACHINE ELECTRICS

AC 200/220V ± 10%, 3 Phase, 60Hz	66 KVA
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## MACHINE DIMENSIONS & WEIGHTS

L x W x H (length includes chip conveyor)	232" x 129" x 123"
Weight	36,200 lbs.

## STANDARD EQUIPMENT

- Fanuc 31iMB control
- Fanuc 54 HP spindle drive
- Fanuc axis servo drives
- BIG-PLUS® / CAT 50 spindle taper
- 500 mm pallets (19.7" x 19.7")
- Rotary automatic pallet changer
- 40-tool automatic tool changer
- 10,000 RPM integral spindle
- Ceramic spindle bearings
- Full 4th axis (360,000 position)
- High volume rolling filter chip conveyor
- Spindle air curtain
- Spindle oil chiller
- Coolant thru-spindle (256 PSI)
- Spindle flood coolant
- Bed flush coolant
- Ceiling shower coolant
- Refrigerated & temperature controlled ballscrews
- Spindle speed override
- Feedrate/rapid traverse override
- LED work light
- Three-stage stack light
- Totally enclosed splash guard with manual operated doors
- Door interlock
- Inch/metric switchable capability
- 2MB total program memory
- Automatic corner override
- Tool offset memory type C
- 200 tool offsets
- Custom macro "B"
- Additional macro variables
- Additional registrable programs
- High speed skip

## OPTIONS AVAILABLE

- HSK 100 spindle taper
- Additional capacity tool magazine
- 6,000 RPM spindle
- Spindle probe
- Broken tool detector in the magazine
- Tool life management
- Enshu die mold package
- Dataserver with Ethernet
- FMS pallet systems



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