

# GE40H

TAPER  
40

PALLET  
400

**ENSHU**  
JAPAN

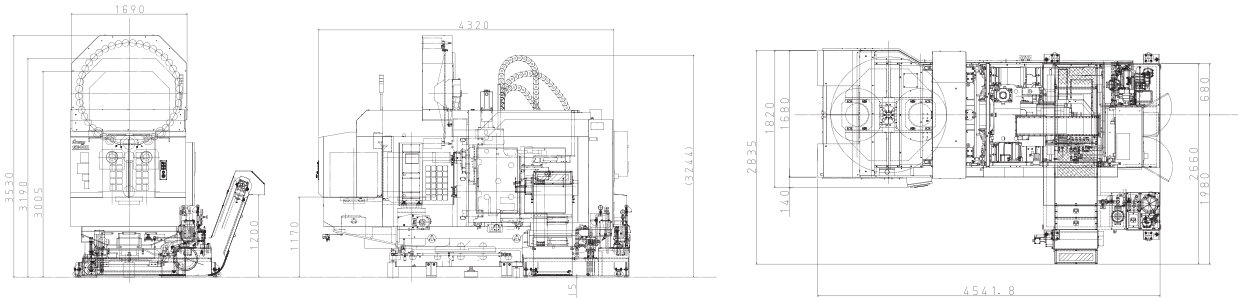


**MORE PARTS,  
HIGHER QUALITY,  
SHIFT AFTER SHIFT**

## **Compact nimble 400mm pallet 40 taper machine for standalone or Lean Line production.**

- 60M/min (2,362 IPM) rapid traverse rates on X/Y/Z
- 500mm (19.7") X/Y/Z axis travels
- Quick reversing ram-type Z axis with 1.1G acc/dec
- 33.5 HP 12,000 RPM direct coupled spindle
- CAT40 40-tool capacity high-speed servo ATC
- Full 4th (B) axis
- Pallet changer with 27.5"  $\varnothing$  x 25.6" clearance & 880 lbs. capacity

# GE40H MACHINE SPECIFICATIONS



## AXIS TRAVEL

X Axis	19.7"
Y Axis	19.7"
Z Axis	20.0"
Table top to spindle centerline	3.1"~22.8"
Table centerline to spindle face	3.9" ~ 23.9"

## FEEDRATES

Rapid traverse (X/Y/Z)	2,362 IPM
Cutting feedrate	0 ~ 2,362 IPM
Acceleration/Deceleration (X/Y/Z)	0.6/0.6/1.1 G
Feed motors, AC Servo (X/Y/Z)	6.0/7.4/6.0 HP

## SPINDLE

Spindle RPM	12,000 RPM
Spindle taper	BIGPlus/CAT40 interchangeably
Spindle bearing diameter	2.8" (3 Bearings)
Spindle power/type	33.5 HP/Direct Coupled
Full power at	4,000 RPM
Spindle ramp-up time	1.6 seconds
Rigid tapping (max. rpm)	4,500 RPM
Lubrication type	Grease packed

## ACCURACY

Positioning, full stroke (X/Y/Z)	0.000160"
Repeatability	+/- 0.000080"

## AUTOMATIC TOOL CHANGER

Magazine capacity	40
Maximum tool diameter	3.9"
with adjacent pockets empty	5.9"
Maximum tool length	11.8"
Maximum tool weight	13.2"
Tool change time (tool-tool)	2.6 seconds
Tool change time (chip-chip)	3.8 seconds

## AUTOMATIC PALLET CHANGER

Pallet size	15.7" x 15.7"
Pallet clearance	27.5" $\phi$ x 25.6" high
Capacity per pallet/total	880 lbs./1,760 lbs.
Minimum index	Full 4th axis (360,000 positions)
Pallet index time (90° index)	1.3 seconds
Pallet change time	7.0 seconds

## MACHINE ELECTRICS

AC 200/220V $\pm$ 10%, 3 Phase, 60Hz	28 KVA
--------------------------------------	--------

## MACHINE DIMENSIONS & WEIGHTS

L x W x H	180" x 112" x 139"
(length includes chip conveyor)	
Weight	14,330 lbs.

## STANDARD EQUIPMENT

- Fanuc 31iMB control
- Fanuc 33.5 HP spindle drive
- Fanuc axis servo drives
- BIG-PLUS® / CAT 40 interchangeably
- Two 400mm pallets
- Rotary automatic pallet changer
- 40-tool automatic tool changer
- 12,000 RPM direct coupled spindle
- Ceramic spindle bearings
- Full 4th axis (360,000 positions)
- High volume rolling filter chip conveyor
- Spindle air curtain
- Coolant through spindle (256 PSI)
- Spindle flood coolant
- Bed flush coolant
- Ceiling shower coolant
- Manual pulse generator
- 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
- Helical interpolation
- 2MB program memory storage
- Automatic corner override
- Tool offset memory type C
- 99 tool offsets
- Custom macro "B"
- Additional macro variables
- Additional registered programs
- High speed skip

## OPTIONS AVAILABLE

- HSK 63A spindle taper
- BIGPlus/BT40 Automatic tool changer
- 24 & 30 tool capacity ATC
- Spindle probe
- Broken tool detection in the magazine
- Auto-offset/broken tool detection
- Tool life management
- Additional tool offsets to 999
- Additional work offsets to 300 sets
- Dataserver with fast ethernet
- Hydraulic fixture controls
- Programmable auto-doors
- Robot interface



Enshu (USA) Corporation  
404 E. State Parkway  
Schaumburg, IL 60173

Tel: (847) 839-8105  
Fax: (847) 839-8226

www.enshuusa.com  
info@enshuusa.com

ver. 0418