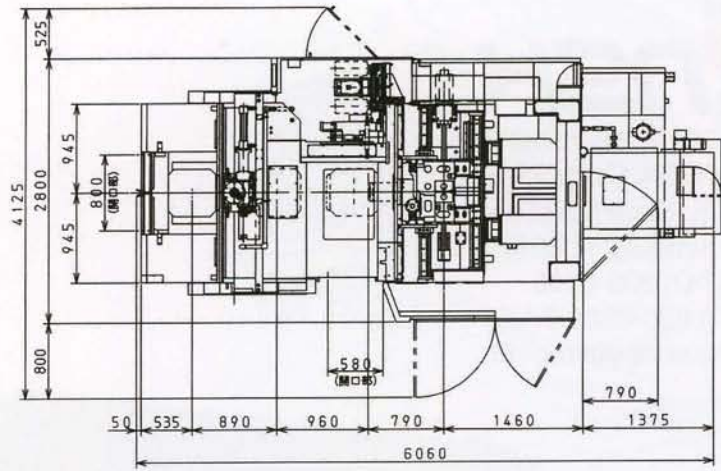
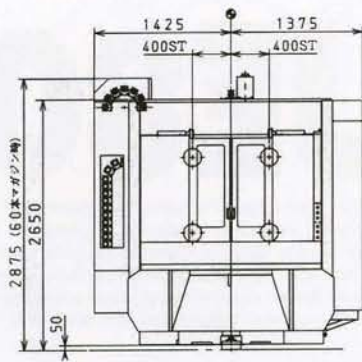


An Ultra-High Performance Horizontal Machining Center especially designed to ramp-up productivity on a wide range of materials typically machined within the automotive and information technology industries. Key design elements emphasize speed, power, reliable accuracy and high uptime, shift after shift.



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

- 90 M/ min (3,546"/min) rapid feed rate
- 1g acceleration/deceleration (10M/sec.²) - X/Y/Z axes
- 29.5 hp gearless AC spindle features ceramic bearings, oil-air cooling
- Spindle ramps up to 15,000 rpm in just 1.8 seconds
- High torque digital AC servomotors with absolute encoders
- "X" axis slant head construction and new column design for high speed performance
- Chilled precision ball screws for stable accuracy and repeatability
- Accuracy: 0.000080", full travel; Repeatability: +/- 0.000040"
- "Big Job" pallet shuttle: indexes up to 1,100 lbs per pallet in 7 seconds
- Fast 60 tool automatic tool changer – 1.2 seconds, tool-tool
- Large work area, compact footprint – ideal for line integration
- Traveling column construction – best for automated loading



JE80S Machine Specifications

AXIS TRAVEL

X axis	31.5"
Y axis	31.5"
Z axis	31.5"
Top of table-spindle c'line	2.8"-34.3"
C'line table-face of spindle	5.9"-37.4"

FEEDRATES

Rapid traverse(X/Y/Z)	3,546"/min.
Cutting feedrate	0 -3,546"/min.
Accel. & Decel.	1.0 g (10M/sec ₂)
Feed motors, AC servo, hp	7.4

SPINDLE

Spindle Taper	CAT40
Spindle bearing diameter	2.76"
Spindle horsepower/type	29.5 dual range/integral
Full power developed at	5,000 rpm
Spindle ramp-up time/rpm	1.8 sec (15,000)
Starting torque	86 ft. lbs
Rigid tapping (max. rpm)	4,000 rpm
Lubrication type	Oil-air

ACCURACY

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

AUTOMATIC TOOL CHANGER

Magazine capacity	60 tools
Max. tool diameter/ adj. pockets empty	2.95" 5.7"
Max. tool length	13.7"
Max. tool weight	17.6 lbs.
Tool change time (tool-tool)	1.2 sec.
Tool change time (chip-chip)	3.0 sec.

AUTOMATIC PALLET CHANGER

Pallet size	19.7" x 19.7"
Max. load, lbs. per side	1,100
Min. index angle	.001 degree
Table index time	7 seconds

MACHINE ELECTRICS

AC 200/220V +/-10-15%;50-60Hz

MACHINE DIMENSIONS & WEIGHTS

WxDxH (length includes chip conveyor)	110" x 239" x 116"
Weight	24,200 Lbs.

Standard Equipment

- Fanuc 18iMB control
- Fanuc 29.5 hp spindle drive
- Cat 40 spindle taper
- 500 mm pallets (19.7" x 19.7")
- Dual automatic pallet changer
- 60 tool automatic tool changer
- 15,000rpm direct drive spindle
- Ceramic spindle bearings
- Oil-air lubrication
- Lift-up chip conveyor
- Full fourth-axis contouring table
- Spindle air curtain
- Spindle oil chiller
- Coolant thru-spindle (256 psi)
- Spindle flood coolant
- Bed flush coolant
- Ceiling shower coolant
- Ball screw chiller
- Manual pulse generator
- Spindle speed override
- Fanuc axis servo drives
- Feedrate/rapid traverse override
- RS232C port
- Program memory: 240 meters
- Helical interpolation
- Work coord. expansion: (48 pairs)
- Inch/metric switchable capability
- Halogen work light
- Three-stage machine status light
- Totally enclosed splash guard with manually operated door
- Door Interlock
- 110V AC outlet
- Standard tools for machine
- Leveling bolts and adjusters

Options Available

- 20,000 rpm spindle (HSK 63A)
- HSK 63A taper/ Big plus
- Custom macro "B"
- Tool length measurement
- Tool life management
- Add. part prog. storage – up to 1280m.
- Work coord. expansion (300 pairs)
- Tool offset addition (up to 999 pairs)