



JE30S Machine Specifications

AXIS TRAVELS

X axis travel	19.7"
Y axis travel	13.8"
Z axis travel	11.8"
Distance from top of table to spindle nose	3.9"-17.7"
Distance from table center to spindle nose	4.7"-16.5"

FEEDRATES

Rapid Traverse (X/Y/Z)	2,362 ipm
Cutting Feedrate (X/Y/Z)	0-591 ipm

THRUST

X&Y axis	225 lbs.
Z axis	450 lbs.

SPINDLE

Spindle taper	BT30
Spindle bearing diameter	1.97"
Spindle speed range	40-13,000rpm
Spindle drive type	Direct
Spindle ramp-up time (rpm)	0.38 sec. (13,000)
Spindle horsepower (15 min./ cont.)	7.4/4.0
Spindle torque	13 ft. lbs
Rigid tapping, max. rpm	8,000
Lubrication type	Perm. grease pack

ACCURACY

Positioning (full stroke)	0.00016"
Repeatability	+/-0.000040

FEED MOTORS

Feed motor, AC servos-X&Y	5 hp
Feed motor, AC servo- Z	1.4 hp

AUTOMATIC TOOL CHANGER

Tool change method	Armless / random-bi-directional
Tool shank type	BT30
Tool storage capacity (optional)	30
Max. tool diameter	3"
Max. tool length	7.9"
Max. tool weight	6.6 lbs.
Tool change time tool-tool	1.7 sec.
Tool change time-chip-chip	2.8 sec.

AUTOMATIC PALLET CHANGER

Table work surface	12.6" x 12.6"
Max. table load	440 lbs
Distance, floor to top of table	42"
Number of pallets	2
Pallet indexing	0.001 deg.
Indexing speed	0.90 sec. - 90 deg.
Pallet change method	Rotating
Pallet change time	4.5 sec.

TANK CAPACITIES

Cutting fluid	80 gal.
Hydraulic fluid	3.9 gal.
Lubrication	0.5 gal.

POWER SOURCES

Electric power supply	200V AC +/-10%, 3ph/60Hz
Max. power consumption	19 KVA
Compressed air	57-114 psi

MACHINE

Weight	9,900 lbs
Size (L x W x H)	187" X 69" X 98"

Standard Equipment

- Fanuc 7.4 hp spindle drive
- Fanuc axis servo drives
- Dual automatic pallet shuttle
- Fanuc 21iM control
- Work coordinate system - 48 pairs
- Tool offset - 64 pairs
- 13,000 rpm spindle
- BT30 spindle taper
- 30 tool ATC
- Lift up chip conveyor
- Coolant thru spindle (256psi)
- Ceiling shower coolant
- Bed flush coolant
- Halogen work light
- Complete chip and coolant guarding
- Door interlocks
- Signal tower (three-color work status lights)
- Inch/metric switchable capability
- Additional "M" functions - 1 pair
- Spindle override
- Program memory - 160 meters
- RS232-C port
- Helical interpolation
- Standard tools for machine
- Leveling blocks

Options Available

- Auto tool length measurement and tool breakage detection
- Spindle probe
- Work finish buzzer
- Spindle run hour meter
- Work counter
- Part program storage - 320m to 1280m
- Program restart
- Tool length measurement
- Tool life management
- Tool offset addition - 64 to 400 pairs
- Work coordinate system - 48 pairs
- Coordinate system rotation

Note: specifications and equipment supplied subject to change without notice

