



EMPIRE CNC SERVICES, INC.



Enshu Ltd.

The lineup of Enshu Horizontal and Vertical machining Center is “System Ready”, whether your requirements are for “plug-and go” simplicity in a stand-alone machining center, a cost efficient Lean line or a more complex Agile machining system

Engineered systems:

For the global Marketplace.

Global manufacturing strategies demand lower finished part cost and the capability to deliver smaller batch sizes on time, every time. Advanced manufacturing strategies from Enshu can include agile lines, lean lines and hybrid lines. Whatever your requirements, Enshu can work with you “close to home” through our well-established and capable network of distributors for basic machine turnkeys. If your project requires more complex processing using one of our concepts, we can quote the complete turnkey.

AGILE HORIZONTAL MACHINING CENTERS

Ultra fast, highly flexible, fully featured. These horizontal are performance-matched to the demands of “just-in-time” manufacturing.

Model	JE60S	JE80S	JE80
Spindle	40 Taper	40 Taper	50 Taper
X Travel	23.6"	31.5"	31.5"
Y Travel	24.4"	31.5"	31.5"
Z Travel	1.570"	3.546"	1.417"
Rapid trav (ipm)	287 (115.2)	387"	248" (99.1)
Table	20.5 HP	20.5 HP	30.5 HP
Spindle	15,000 (20,000)	15,000 (20,000)	7,000 (11,000)
RPM	60 (110)	60 (110)	40 (80), 1,200
ATC	Rotary Standard	Rotary Standard	Rotary Standard
Capacity	1,100 lbs	1,100 lbs	1,100 lbs
Control	Fanuc 180M	Fanuc 180M	Fanuc 180M
Floorspace	91" x 217"	107" x 189"	127" x 109"



Model	JE30S	JE30S
Spindle	30 Taper	40 Taper
X Travel	19.7"	19.7"
Y Travel	15.6"	19.7"
Z Travel	11.8"	19.7"
Rapid trav (ipm)	2,362	2,362
Table	7.44 (11 HP)	10 HP
Spindle	12,000	12,000 (15,000)
RPM	30	40
ATC	Rotary Standard	Rotary Standard
Capacity	600 lbs	600 lbs
Control	Fanuc 210M	Fanuc 180M
Floorspace	67" x 130"	69" x 130"



LEAN HORIZONTAL MACHINING CENTERS

These machines incorporate improved performance advantages, space saving design and practical, cost-effective specifications.

BRIDGE STYLE VERTICAL MACHINING CENTERS

Stand-alone, cell or transfer line, you'll find these machines cutting costs throughout the entire parts production spectrum!

Model	ES400	ES450
Spindle	30 Taper	40 Taper
X Travel	19.7"	25.6"
Y Travel	15.7"	17.7"
Z Travel	15.0"	18.1"
Rapid trav (ipm)	2,362	2,362
Table	28" x 18"	33" x 18"
Spindle	7.4 HP	20 HP
RPM	15,000 (20,000)	12,000 (15,000)
ATC	21	20
APC	Rotary (Optional)	Rotary (Optional)
Capacity	330 lbs/side	600 lbs/side
Control	Fanuc 210M	Fanuc 180M
Floorspace	48" x 129"	63" x 133"



LARGE FRAME VERTICAL MACHINING CENTERS

Big, rugged machines capable of top performance in tough, high-strength material or in lightweight aerospace alloys.

Model	EV30	EV30(S)	EV50	EV50(S)
Spindle taper <td>40 Taper</td> <td>50 (40) Taper</td> <td>50 Taper</td> <td>50 Taper</td>	40 Taper	50 (40) Taper	50 Taper	50 Taper
X Travel <td>22.0"</td> <td>39.4"</td> <td>39.4"</td> <td>63.0"</td>	22.0"	39.4"	39.4"	63.0"
Y Travel <td>17.7"</td> <td>20.4"</td> <td>25.6"</td> <td>25.6"</td>	17.7"	20.4"	25.6"	25.6"
Z Travel <td>18.1"</td> <td>20.1"</td> <td>20.0"</td> <td>20.0"</td>	18.1"	20.1"	20.0"	20.0"
Rapid trav (ipm) <td>1,573</td> <td>1,260</td> <td>787 (X, Y) 501 (Z)</td> <td>787 (X, Y) 501 (Z)</td>	1,573	1,260	787 (X, Y) 501 (Z)	787 (X, Y) 501 (Z)
Table <td>32" x 18"</td> <td>48" x 22"</td> <td>59" x 20"</td> <td>59" x 20"</td>	32" x 18"	48" x 22"	59" x 20"	59" x 20"
Spindle <td>10 HP</td> <td>25.5 HP</td> <td>20 HP</td> <td>20 HP</td>	10 HP	25.5 HP	20 HP	20 HP
RPM <td>10,000</td> <td>6,000 (10,000) 113,000</td> <td>6,000</td> <td>6,000</td>	10,000	6,000 (10,000) 113,000	6,000	6,000
ATC	20	30, 40*	30 (40 optional)	30 (40 optional)
APC	Rotary	Side	Frame	Frame
Capacity <td>1,140 lbs</td> <td>2,250 lbs</td> <td>3,300 lbs</td> <td>3,300 lbs</td>	1,140 lbs	2,250 lbs	3,300 lbs	3,300 lbs
Control <td>Fanuc 180M</td> <td>Fanuc 180M</td> <td>Fanuc 180M</td> <td>Fanuc 180M</td>	Fanuc 180M	Fanuc 180M	Fanuc 180M	Fanuc 180M
Floorspace <td>81" x 90"</td> <td>107" x 110"</td> <td>107" x 140"</td> <td>107" x 140"</td>	81" x 90"	107" x 110"	107" x 140"	107" x 140"

