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Compact Precision High Speed Machining Center:



QUICK SPECS:

- 10 HP (Peak) AC Digital Brushless Servo Spindle Motor, 40-Taper Spindle, 60-9000 RPM
- All AC Digital Brushless Servo Motors (X, Y, Z)
- 14" x 22" Table
- 17.7" x 13.8" x 13.8" Travels
- Anilam 6300i 3-axis CNC control
- Conversational, G-code, or CAM
- Up to 1417 ipm rapids; Accurate High Speed Machining Built in
- Compact 66.5" x 82" floor space

KENT USA JM-450 Vertical Machining Center (Linear ways):

With Anilam 6300i CNC control (3-axis)
With Programmable Spindle RPM and M-Function and Rigid Tapping
With Spindle and Feed override on control
With AC Digital Brushless Servo motors (axis and spindle)
With Auto lubrication system and Halogen work light
With Flood coolant (programmable M8) and Full enclosure
With 10 tool carousel type ATC (CAT-40)

ANILAM CNC OPTIONS:

Off-line software (6300i)
Upgrade to 4th axis capable control (6400i)
Upgrade to 15 HP (Peak) Spindle motor
Upgrade to 12,000 RPM Spindle w/ spindle chiller
Rotary table and servo motor for 4th axis

MACHINE OPTIONS AND ACCESSORIES:

Upgrade to 20 tool arm-type ATC (BT-30 spindle)
Thru-spindle high pressure/flow coolant system
Automated Adjustable Coolant height nozzle
Chip Auger system
Valenite Tooling Package 1000
2 Day Start Up Training

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OUTSTANDING FEATURES:

- 10 HP (peak) AC Digital Brushless Servo spindle motor
- 10 tool ATC (Optional 20 tool Arm type ATC with 1.8 sec. Tool change time available on #30 taper spindle type)
- Spindle rpm over-ride on control
- 60-9000 RPM without manual gear changes
- Fully ribbed massive cast iron frame for extra dampening during heavy cuts
- Direct coupled servo motors for ultra precision
- CAT-40 taper spindle (BT-40 optional)
- Precision linear ways on JM-450
- Full enclosure
- Auto lubrication unit with metered check valves
- Flood coolant with chip flush
- Halogen work light
- Ultra Precision ground ball screws
- Axis positioning accuracy **+/- 0.0002"**
- Axis repeatability **+/- 0.0001"**

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GENERAL SPECIFICATIONS: JM-450

MACHINE CAPACITY	Table size	14" x 22"
	Table travel (X-axis)	17.8"
	Saddle travel (Y-axis)	13.8"
	Column travel (Z-axis)	13.8"
	Spindle center to column	12.8"
	Spindle to table	4" to 17.8"
	T-slots (number x width)	3 x 0.625"
	Coolant pump	1/4 HP
MILLING HEAD	Spindle motor	10 HP Peak
	Spindle taper	CAT-40 (BT-30 optional)
	Speed range	60-9000 RPM (12000 rpm optional)
	Maximum work load	330 lbs (distributed)
Feed Motors	X Axis	1.9 Hp (1.45 kw)
	Y Axis	1.9 Hp (1.45 kw)
	Z Axis	1.9 Hp (1.45 kw)
Feed	Rapid travel (X,Y, & Z)	1417"/min (36 M/min) on JM-450
	Min. input increment	0.0001" (2 μm)
ATC	Tool holder	CAT-40
	Tool Storage capacity	10
	Max. tool diameter	2.5" (63mm)
	Max. tool length	6" (150mm)
	Max. tool weight	6.6 lbs. (3 kg)
	Tool change time	6 sec.
WEIGHT	Net weight	3850 lbs
	Gross weight	4100 lbs
	Packing dimension	88" x 70" x 82"

POWER REQUIREMENTS: 220 volts, 60 Hz, 3-phase, 50 Amps (machine)
 A step down transformer will be required for 440v
 (Use a 15 KVA transformer)

AIR SUPPLY REQUIREMENTS: sufficient air supply will be needed by ATC