

# KENT INDUSTRIAL (USA) INC.



## QUICK SPECS:

- 15 HP (Peak) AC Digital Brushless Servo Spindle Motor, 40-Taper Spindle, 60-9000 RPM
- All AC Digital Brushless Servo Motors (X, Y, Z)
- 20" x 39.4" Table
- 33.5" x 20" x 20" Travels
- Anilam 6000i 3-axis CNC control
- Conversational, G-code, or CAM
- Up to 800 ipm rapids; Accurate High Speed Machining Built in

## KENT USA JM-850S Vertical Machining Center (Box ways)

With Anilam 6000i 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 20 tool carousel type ATC (CAT-40)

With remote MPG handwheel

## ANILAM CNC OPTIONS:

Off-line software (6300M)

Upgrade to 4<sup>th</sup> axis capable control (6400M)

Spindle chiller (for continuous use at above 6000 rpm)

Upgrade to 20 HP (Peak) Spindle motor

Upgrade to 12,000 RPM Spindle w/ spindle chiller

Rotary table and servo motor for 4<sup>th</sup> axis

## MACHINE OPTIONS AND ACCESSORIES:

Upgrade to 20 tool arm-type ATC

Upgrade to 32 tool arm-type ATC

Thru-spindle high pressure/flow coolant system

Automated adjustable coolant height nozzle

Chip auger system

2 Day start up training

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## OUTSTANDING FEATURES:

- 15 HP (peak) AC Digital Brushless Servo spindle motor
- 20 tool ATC (Optional 20 tool Arm type ATC with 1.8 sec. Tool change time)
- 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-810 and Solid boxed ways for JM-850S Model
- 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  $\pm 0.0002''$
- Axis repeatability  $\pm 0.0001''$

## **Other Models Available:**

Shown Here:  
TW-32MVI  
Anilam 5300  
20 tool ATC



Shown Here:  
TW-32QI  
Fanuc 0MD



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## GENERAL SPECIFICATIONS: JM-850S

MACHINE CAPACITY	Table size	20" x 39.4"
	Table travel (X-axis)	33.5"
	Saddle travel (Y-axis)	20"
	Column travel (Z-axis)	20"
	Spindle center to column	21"
	Spindle to table	4" to 24"
	T-slots (number x width)	5 x 0.625"
	Coolant pump	1/4 HP
MILLING HEAD	Spindle motor	15 HP Peak
	Spindle taper	CAT-40 (BT-40 optional)
	Speed range	60-9000 RPM (12000 rpm optional)
	Maximum work load	1000 lbs (distributed)
Feed Motors	X Axis	2 Hp ( 1.5 kw)
	Y Axis	2 Hp ( 1.5 kw)
	Z Axis	3 Hp ( 2.3 kw)
Feed	Rapid travel (X,Y, & Z)	1200"/min (32 M/min) on JM-850 800"/min (20 M/min) on JM-850S
	Min. input increment	0.0001" (2 µm)
ATC	Tool holder	CAT-40
	Tool Storage capacity	20
	Max. tool diameter	3.15" (80mm)
	Max. tool length	10" (250mm)
	Max. tool weight	15.4 lbs. (7 kg)
	Tool change time	6 sec.
WEIGHT	Net weight	11000 lbs
	Gross weight	11650 lbs
	Packing dimension	

POWER REQUIREMENTS: 220 volts, 60 Hz, 3-phase, 80 Amps (machine)  
 A step down transformer will be required for 440v  
 (Use a 25 KVA transformer)

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