

# U. S. INDUSTRIAL MACHINERY

P.O. Box 2098                      Memphis, TN 38101

Phone Number: (800) 860-1850

Fax Number: (901) 526-2339

www.usindustrial.com

We are pleased to offer the following equipment for your consideration:

## **ONE (1) NEW U.S. INDUSTRIAL 10" X 54" HEAVY DUTY ELECTRONIC VARIABLE SPEED MILLING MACHINE, Model Number: 3EVH-5-KIT**

### **STANDARD FEATURES AND EQUIPMENT: (KIT PACKAGE ONLY)**

- Large 10" x 54" table with 3 T-slots, 5/8", on 2.5" centers  
Table travel is 37.4". Leadscrew pitch is 5TPI with dials on each end graduated in .001".
- Large knee allows saddle to travel 16.5" for crossfeed with .001" dial graduations
- Large knee travel is 16.5" with 10TPI leadscrew, .001" dial graduations
- Large ram allows for over 18.5" of travel, inlaid scale, and deep throat for large workpieces
- Large Square Ways on Y and Z Axis..... Double locks on all axis
- Aged stressed castings, stress relieved for long life and accuracy, Meehanite type
- Power quill feed allows for 0.0018, 0.003, 0.006 Inches of feed per revolution of spindle
- Hardened and ground and precisely scraped work table, saddle and knee ways, turcite B coated for wear resistance
- Centralized one-shot lubrication pump lubricates all way surfaces and leadscrews
- Backlash adjustment for leadscrews, Gib adjustments for ways
- Electrical cabinet with internal transformer for 110V and 24V devices, circuit breaker protected, Low Voltage controls, 24 volt spindle fan cooling motor, 24 volt halogen machine light. Transformer also includes power supply for digital readout and power table feed.
- Operator low voltage controls for spindle drive and coolant pump, with emergency stop button. Spindle off/forward/reverse switch.
- Built in coolant tank base with coolant pump, pressure and return hose , nozzle and valve, Installed and ready to use. Base chip pan to help prevent coolant overflow.
- **Schneider digital** infinitely variable speed spindle drive, 5 Horsepower (4.0Kw) powers the 5 HP three phase induction spindle drive motor from 65 to 3750 RPM. Spindle speed indicator on head shows RPM in direct drive and back gear. Spindle induction motor is finned for cooling and has 24 volt fan cooling system.
- **Sino** three axis digital readout has 0.0002" resolution. Readout comes mounted to knee, table and cross and is ready to use. The readout is inch/metric switchable, with absolute incremental function. There is a calculator function, bolt hole pattern function, line pattern function, and arc calculate function. A comprehensive manual is included.
- Power table feed is **Align** model AL500SP. Infinitely variable feed from .8 to 32 IPM with rapid button, on/off switch, and adjustable travel stops. This heavy duty power feed has 150 inch pounds of torque, with max to 650. Power table feed comes installed on machine, ready to use.
- Toolbox and tools, manuals, electrical drawing, test certificate all included.

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### **SPECIFICATIONS:**

Working Surface.....	10" x 54"
Longitudinal Travel.....	34.4" with powerfeed (37.4" without powerfeed) (Powerfeed stops can be pinned at max travel.)
Cross Travel.....	16.5" (15.5" with readout installed)
Vertical Travel.....	16.5"
Ram Travel.....	18.5" with scale
Head tilt, left to right.....	90 degrees left, 90 degrees right with degree ring scale
Head Tilt, front to back.....	45 degrees front, 45 degrees back with degree ring scale
Ram Circular Movement.....	360 Degree with degree ring scale
T-Slots.....	3 @ 2 1/2" centers, 5/8" Ea.
Spindle Drive.....	Yaskawa 4.0Kw (5 Horsepower) Variable frequency inverter
Spindle Range ( Electronic Variable).....	60-3750 RPM with frequency changer
Spindle Type.....	R-8
Quill Travel & Diameter.....	5" travel and 3 3/8" diameter
Power quill feed range, Inches per rev.....	0.0018", 0.003", 0.006"
Weight of Work Piece, max.....	660 lbs
Spindle Motor.....	5 HP, 208-240 volt, 3 phase induction drive spindle motor motor- standard
Electrics.....	208-240 volts, 3 phase – standard (For 440/460/480 Volt operation order transformer from option list.)
Machine, Net Weight.....	3400 lbs

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## **Standard Configuration of KIT Machine: (All items already installed on machine!)**

• Base Price of machine.....F. O. B. Memphis, TN.....	\$ 11,450.00
Part Number: 3EVH-5	
Upgraded to 5HP Schneider electronic vari-speed spindle drive.....	1,790.00
Part Number: VS-606V7	
• Heavy duty power table feed on X axis.....	630.00
Part Number: AL500SP	
• Flood coolant pump, hose, nozzle.....	450.00
Part Number FCKIT	
• Chip pan.....	195.00
Part Number CPKIT	
• Machine light.....	195.00
Part Number MLKIT	
• Front and Rear way covers.....	75.00
Part Number: FRWCKIT	
• Three axis digital readout.....	<u>1,895.00</u>
Part Number SINO3AX	
Subtotal.....	\$ 16,680.00
Less package discount.....	- <u>1,190.00</u>

**TOTAL PRICE OF KIT.....F.O.B. Memphis, TN.....\$ 15,490.00**

## **Options you may wish to purchase: (All items will be installed on machine.)**

• Transformer for 440/460/480 volt operation, mounted and wired.....	595.00	(3PHTRANS-K)
• Air Power Drawbar, pneumatic, installed.....	895.00	(PDB-PB001)
• Bestline Power Feed for Y-axis (cross feed).....	730.00	(Y150-3V)
• Bestline Power Feed for Z-axis (knee feed).....	795.00	(Z150-3V)
• Mill QC collet set, 1 holder R-8 to ER32, 1 spanner for collet nut, 11 ER32 collets from 1/8" to 3/4", all in form fitted case.....	219.00	(R8ER32KIT-K)
• Clamp kit, 58 piece, bolts, nuts, step blocks, fingers, for fixturing.....	69.00	(CK-K)
• Precision Parallel Set, several matched parallels in form case.....	149.00	(P100-K)
• Milling vise, 6" lock type.....	299.00	(6" VISE-K)
• R-8 collet set, 11 pieces.....	129.00	(R8-SET)

We await your reply and thank you for this opportunity to quote.

Sincerely,

U.S. Industrial Machinery

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**U. S. Industrial Machinery  
Vertical Milling Machine  
Model 3EVH-5  
Electronic Variable Speed**

Three Axis Digital Readout

Power Quill Feed

Operators Panel – controls  
for spindle on/off, spindle  
speed, coolant, main power  
and e-stop

Power Table Feed

Chip Pan

Detail of work light, coolant nozzle, way cover, ram  
and spindle



SINO 3-Axis digital readout  
measure table, cross and knee  
travel, inch/metric, and multi-  
functionality



Electrical Cabinet –With Schneider  
Electronic Vari-speed drive, control and  
accessory power transformer, circuit  
breakers and main disconnect.

