



# ATRUMP MACHINERY, INC.

URL: <http://cncmachinesinmotion.com>  
E-mail: [sales@cncmachinesinmotion.com](mailto:sales@cncmachinesinmotion.com)



993 Carbon Canyon Rd. Chino Hills, CA 91709  
Office: (714) 528-7061 Fax: (714) 528-4892

Prices current for 2008

## CNC Knee Mill MODEL: 3VK Inverter

### MACHINE FEATURES

- Machine finished in Taiwan with China castings. 2 axis **\$19,745.00**
- 3HP Spindle Motor, R8 Spindle Taper
- 5,000 rpm spindle speed with HI-LO gear
- Guide ways are hardened, ground and Turcite-B coated
- Precision ballscrews for high accuracy and long lasting precision
- FC30 Meehanite Casting main frame with annealed & stress relieved for long term reliability
- Sturdy chrome quill
- Box ways design on Y axis to provide maximum rigidity & stability
- Way covers are standard on three axes
- Tool box & tools are included
- Precision APEC class7 spindle bearing to ensure spindle run out within 0.0002
- Automatic central lubrication system
- Built-in Quartz work light
- Hard limit switches
- Available in 2 axes, 3 axis and 4 axis configurations



2 axis or full 3 axis  
Contouring control.  
(4th axis optional)

### Specification:

Table:	10" x 50"
Longitudinal travel (X axis):	31"
Cross travel:	14 1/2"
Z axis travel cnc quill:	5" (2 axis with manual quill), 4"(3 axis cnc with Manual Z axis quill handle), 4.9" (cnc on the rigid ram model)
Knee travel (manual):	16"
Quill diameter:	3.375"
Spindle nose to table top (D):	0.75"-16.75"
Load capacity:	750 lb
Spindle taper:	R8 or 30 taper
Spindle Speed (r. p.m.):	70 to 5000 rpm with Hi/Lo gear. <b>Programmable</b>
Spindle center to column front surface:	6.875" to 27.875" 21" (on rigid ram model)
<b>Head:</b>	
Swivel (left/right):	90 degree
Tilt (front/back):	45 degree
<b>Motor:</b>	
Spindle motor/max torque:	3HP (Std.) 5HP (Opt.)
KVA rating:	4KVA, 15amps
Coolant pump (optional)	1/8 Hp
Lubrication pump:	Central Automatic lubrication
Power requirement:	4 KVA, 208-230 voltage 3 Phase or Single phase
Length X Width X Height (LXWXH):	102" x 77" x 84"
Net Weight:	3,100 lbs. (1420 Kgs.)



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Model	Spindle	Travels X, Y, Z	Tool Change	Servo Motors	Spindle motor	Control	2 axis Price	3 axis Price
3VK	R8	31", 14", 4.5"	Manual	29"/lbs. DC	3 H.P.	M-400S	\$19,745.00	25,905.00
3VK-R	R8	31", 14", 4.75"	Manual	29"/lbs. DC	3 H.P.	M-400S	\$ N/A	24,145.00

The "R" version is our Rigid Ram model. See photos below.

### Standard accessories:

Tools & Toolbox	29"/lbs. DC servo motors	Files transfer by USB or Ethernet
Leveling bolts and plates	Draw bar	Coolant System
Way cover	Automatic Central Lube	Halogen work light
Flood Coolant	R8 Spindle	Manuals

### Machine and control options:

1. Programmable spray mist coolant system	\$ 635.00
2. <b>Power Drawbar unit – Pneumatic – includes installation</b>	<b>\$ 695.00</b>
3. Riser Block Mounted Under Ram	Available
4. Transformer for 440VAC power Source	Available
5. Motor Upgrade to 5 H.P.	\$ 660.00
6. Single Phase Power Option	\$ 660.00
7. Tooling package A	\$1,000.00
8. Tooling package B	\$2,000.00
9. Tooling package C First cnc machine start up package	\$2,890.00
10. MPG Manual Pulse Generator	\$ 670.00
11. Multi work coordinate system [G55-59]	\$ 700.00
12. Subprograms & Macros [M98 & G65]	\$1,495.00
13. Scaling and Mirroring [G50 & G51]	\$ 495.00
14. Unlimited Program Memory (1 meg is standard)	\$1,495.00
15. Millwrite Engraving software.	\$ 665.00
16. Compression tapping	\$ 350.00
17. Laser Ball screw mapping	<b>Included</b>
18. Intercon programming software for your <b>desk top PC</b> (standard on your control)	\$ 840.00
19. DXF input, tool path generator	\$ 495.00
20. Setup of network communication between your control and one desk top computer.	Call
21. Probing package includes DP-4 probe hardware and probing cycles software.	\$2,210.00
22. TT-1 Tool height touch off kit. Comes with touch off hardware and software.	\$ 755.00
23. Coordinate System Rotation	\$ 495.00
24. Deluxe tool room package. DP-4 probe with probing, TT-1, & Coordinate System Rotation.	\$3,520.00
25. Digitizing software (3D surface copying). Complete package includes Unlimited program memory and Scaling & mirroring software options. Also includes Mold Magic, desk top software for reposting digitized tool path compensating for different tool sizes and milling step over.	\$4,200.00

F.O.B. Pomona, CA.

### STANDARD TERMS OF PAYMENT:

20% down-payment, balance due prior to shipment.

Terms can be negotiated to accommodate lenders and leasing companies.

**VALIDITY:** This proposal is valid for 60 days.

**Training:** \$680/Day plus travel expense.(U.S.A only)

**WARRANTY:** One-year warranty for any defects in material or workmanship of machine tool and factory installed components.

**Contact:** Doug Laursen of Machines in Motion Inc. **714 404-2996**

**\*\* WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE \*\***



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The 2+1 version includes a release for the Z axis that allows the operator to feed or drill manually with the quill handle.

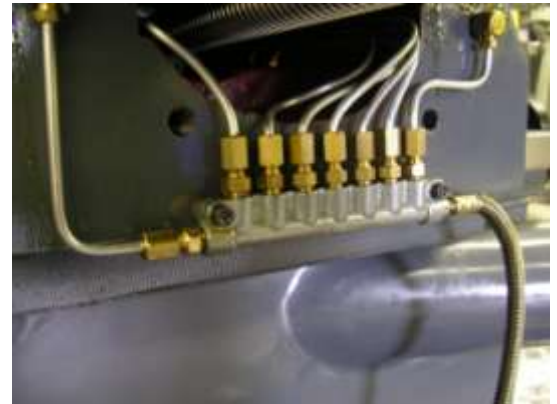
R8 or NTMB 30 taper spindle nose.

Shown with optional table guard.

Programmable spindle speed is standard.

Single phase power can be accommodated.

Real metering valves at each lube point prevent lube starvation.



Folding handwheels make it possible to manually position the X and Y axis, also used with Teach Mode programming.

A sensor on the back gear tells the control when it is necessary to reverse the spindle motor. M3 will always be clockwise.





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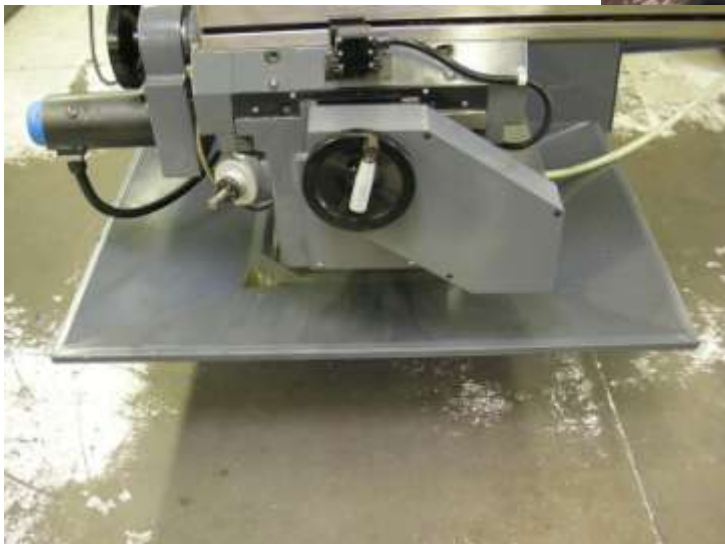
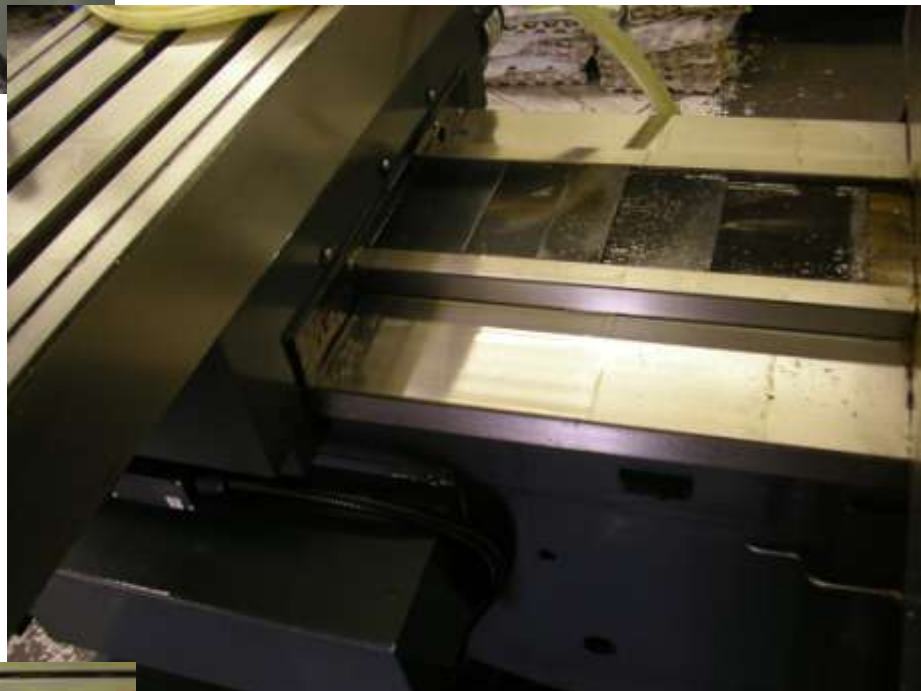


Hard limit switches prevent crashing the machine into the end of its travel.

Machine home is maintained in precisely the same location every time you power up the control.

Large, ground, way surfaces will maintain your machine's accuracy and prevent table shake during heavy milling operations.

All Atrump mills are laser calibrated prior to shipment for extraordinary accuracy.



Extra wide chip tray to help keep the shop clean.



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3VK-R Rigid ram model  
Incorporates a solid cast ram  
With a "Built for CNC" one piece  
Cast spindle box.

This is also a 3VK-R  
Rigid Ram model.

The difference is this  
ram is also movable  
for repositioning along  
the Y axis.

It incorporates the  
same "Built for CNC"  
solid cast spindle box  
providing an additional  
1inch of travel over the  
2+1 model.

