



CNC KNEE MILL MODEL: 3VK Inverter Rigid head

MACHINE FEATURES

- Centroid M400S or M39 3 axis Control
- 3HP Spindle Motor, R8 or NMTB #30 Spindle Taper
(Optional: 5 HP Spindle Motor, Spindle Taper #40)
- Programmable 50 to 5,000 rpm spindle speed
(Programmable 50 to 4,000 rpm speed for taper #40)
- Hardened & Ground with turcite-B coating guide way
- Precision ballscrews for high accuracy and long lasting
- Massive FC30 Meehanite Casting frame, main frame with annealed & stress relieved for long term reliability
- Anti rust chrome quill
- Rigid ram with cnc head stock
- 16" manual adjustable knee travel
- Box ways design on Y axis to provide maximum rigidity & stability
- Standard way covers on all three axes
- Tool box & Tools
- Precision APEC class7 spindle bearing to ensure spindle run out within 0.0002
- Auto lubrication system
- Built-in Quartz work light



Specification:

Table:	10" x 50"
Longitudinal travel (X-axis):	31"
Cross travel:	14 1/2"
Z axis travel cnc quill:	4.5"
Knee travel (manual):	16"
Quill diameter:	3.375" (86 mm)
Spindle nose to table top (D):	0.75"-16.75" (20 - 426 mm)
Load capacity:	600 lb
Spindle taper:	R8
Spindle Speed (r. p.m.):	70 to 5000 rpm with Hi/Lo gear
Transmission of spindle & motor:	Timing Belt
Spindle center to column front surface:	15.00"
Motor:	
Spindle motor/max torque:	3 HP (Std.) / 5 HP (Opt.)
KVA rating:	4 KVA, 15 amps
Coolant pump (optional)	1/8 Hp
Lubrication pump:	Auto Lubrication
Power requirement:	4 KVA, 3 Phase 208-230 voltage
Length X Width X Height (LXWXH):	108" x 77" x 92"
Net Weight:	3,100 lbs. (1420 Kgs)



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MODEL	SPINDLE	Travel X/Y/Z	Tool Change	Servo motor	SPINDLE MOTOR	Control	FOB CA
3VK	R8	31/14/5"	Manual	29in/lbs Dc	2.2Kw (3HP)	M400-S M 39	\$ 27,045 \$25,545

Machine Upgrade:

- **Spindle Taper 40.**
- **Spindle Motor 5 Hp.**
- **4,000 Rpm spindle speed.**

MODEL	SPINDLE	Travel X/Y/Z	Tool Change	Servo motor	SPINDLE MOTOR	Contro l	FOB CA
3VK	Taper 40	31/14/5"	Manual	29in/lbs Dc	3.7Kw (5HP)	M400-S M-39	\$ 31,545 \$ 30,045

STANDARD ACCESSORIES:

Tools & box	Chip Tray	Shop floor programming/Conversational
Leveling bolts & plate	Coolant system	USB 2.0 Port
RS-232 Interface	Auto lube system	15" color LCD
Operation manual	Halogen work light	1GB solid state hard drive

CNC KNEE MILL OPTIONAL ACCESSORIES

REVISION:
01012011

Item No	Item Description	Unit Price
CK-001	52pcs Clamping Kit Slot: 5/8" (16mm) stud: 1/2-13	\$80.00
CP-MIST	Mist type Coolant System	\$715.00
COL-R8	Collet R8 set -11 pcs import	\$80.00
COL-R8-LY	Collet R8 Lyndex Collet Set-11pcs	\$300.00
PDB-MAX	Power Draw Bar-Maxi-Torque	\$710.00
PDB-MAX-L	Installation of Power Draw bar	\$100.00
QUILL-Z	Z axis Scale feedback for 3rd Quill axis	\$1,235.00
RB6-A1-2V	6" Riser Block	\$850.00
RB8-A1-2V	8" Riser Block	\$900.00
TRAN-14KVA	Transformer: 14KVA (440~480V)	\$1,650.00
WISE-6	6" Angle Vise W/ Swivel Base (Import)	\$310.00
UG-MT3-5	Upgrade to 5HP motor (3VK only)	\$1,345.00

Optional software accessories: Price good from February 2,2012

Multiple work coordinate systems [G55-59 Free] (P7-P18)	10600	\$305.00
User Definable Macros and Sub Programs [M98 & G65]	10610	Free
Compression tapping	10620	Free
Scaling and Mirroring [G50 & G51]	10625	\$220.00



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Unlimited part program size	10630	\$550.00
4th Axis Software	10360	Free
Coordinate System Rotation	10850	\$220.00
DXF in, CAD Drawing Input software	10814	\$305.00
Cutter Compensation	10851	Free
Intercon off-line conversational program (for your desktop PC)	10730	\$275.00
Engraving software	10740	\$500.00
DIGITIZING & PROBING		
2D & 3D digitizing software (includes Centroid's Mold Magic™ software)	10770	\$3,350.00
DP-4 probing package	10405	\$1,590.00
TT-1; Tool touch off kit	10220	\$649.00
Tool room package: DP4 Probe with probing, TT-1, and Work Coordinates	10772	\$2,239.00
ACCESSORIES		
100 Step MPG	11069	\$495.00

Additional Accessories information:

Power requirement	4 KVA 3 phase 208 V/230 V max
Air requirement	With opt. power draw bar 90 - 100 psi
Type of oil for Way oil / pneumatic oil	Mobil Vactra #2 / Air tool oil
Coolant capacity	7 Gallons

F.O.B.: Pomona, CA.91768

DELIVERY: Please check with Atrump sale's team

STANDARD TERMS OF PAYMENT: 20% down-payment, balanced due on machine delivery

TAXES: Federal, State, Local Taxes are the responsibility of Purchaser.

VALIDITY: This proposal is valid for 30 days.

Training: \$800/Day plus travel expense. (U.S.A only)

WARRANTY: One-year limited warranty for any defects in material or workmanship of machine tool and factory installed components. Visit www.atrump.com/policy for full warranty details & contract.

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

Machines in Motion, Inc.

Our primary focus is the installation of new Centroid CNC controls on to experienced CNC machine tools. This puts us in contact with many customers weighing the pros and cons of a CNC control upgrade against the cost of a new CNC mill. We sell and fully support the Atrump line of CNC mills built with the Centroid CNC controller.



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Because Machines in Motion, Inc. is not a traditional *hard sell* machinery dealer you won't see a lot of fancy web pages, videos, or in your face advertising. We like our customers! We work hard to provide you with the right machine to fit your business needs.

Atrump machines are built with classic box way construction. A well proven technology using hand scraped – Turcite sliding surfaces, High pressure lube systems, and digital AC Brushless servo motors & drives. Couple these features with the simple to use Centroid CNC controller and you too will see a noticeable improvement in shop productivity.

Visit one of our other web sites.

Centroid users club: <http://www.centroidusersclub.com/> where we answer your questions to the benefit of all Centroid control users.

Control retrofit site: <http://cnc-machine-controls.com/> Information about upgrading your existing CNC machine with the professional level Centroid CNC control.

New CNC Mills site: <http://cncmachinesinmotion.com/> Information about new CNC milling machines with the professional level Centroid CNC control.