

## **CNC Knee Mill Model: K3NC INVERTER 2+1**

- **Centroid M400i control**
- **3 HP spindle motor, R8 spindle taper**
- **5,000 rpm spindle speed with HI-LO gear**
- Hardened & ground with Turcite-B coating guide way
- Precision ballscrews for high accuracy and long lasting
- FC30 Meehanite casting main frame with annealed & stress relieved for long term reliability
- Anti rust chrome quill
- Box ways design on Y and Z-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 in
- Automatic lubrication system
- Built-in Quartz work light
- **Hard limit switch**
- **2-axis or 3rd axis simultaneous**



### Specification

Table: .....	10" x 54"
Longitudinal travel: .....	31"
Cross travel: .....	14.5"
Quill travel (Z-axis): .....	5" (manual)
Knee travel (manual): .....	16"
Quill diameter: .....	3 3/8" (86 mm)
Spindle nose to table top (D): .....	3/4" to 16 3/4" (20-426mm)
Load capacity: .....	600 lbs
Spindle taper: .....	R8
Spindle speed: .....	70 to 5000 rpm with Hi/Lo gear
Transmission of spindle & motor: .....	Timing Belt
Spindle center to column front surface: .....	6 7/8" to 23 1/2" (175-597 mm)

### Head

Swivel (left/right): .....	90 degree
Tile (front/back): .....	45 degree

### 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: .....	Automatic
Power requirement: .....	4 KVA, 3 Phase 208V to 230V (Max)

### Dimension & Weight

Length x Width x Height: .....	108" x 77" x 92"
Net weight: .....	3,100 lbs (1420 Kgs)

### Additional Accessories Information

Power requirement: .....	4 KVA 3 phase 208V to 230V (Max)
Air requirement: .....	With opt. power draw bar 90 - 100 psi

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Type of oil for way oil / pneumatic oil: ..... Mobil Vectra #2 / Air tool oil  
 Coolant capacity: ..... 7 Gallons

Model	Spindle	Travel X/Y/Z	Tool Change	Servo Motor	Spindle Motor	Control	FOB CA
K3NC 2+1	R8 or #30	31/14/5"	Manual	750W-AC	2.2kW (3HP)	M400i	<b>\$33,590</b>

### Standard Accessories and Software

Tools & box	Leveling bolts & plate	RS-232 interface
Auto Lubrication	Chip tray	60 GB solid state hard drive
Halogen work light	Coolant system	Shop floor programming/Conversational
USB 2.0 port	15" color LCD	Machine manual & E-manual for Centroid

### Free Software for Centroid

10360 4th axis software 10620	Compression tapping	10851 Cutter compensation
10610 User definable Macros and sub programs [M98 & G65]		

### Optional Machine Accessories

CK-001	52pcs Clamping Kit	\$90
CP-MIST	Mist type Coolant System	\$760
TG-A1	Table Guard-Aone Knee Mill	\$700
COL-R8-11	Collet R8 set -11 pcs import	\$90
COL-R8-LY	Collet R8 Lyndex Collet Set-11pcs	\$360
PDB-MAX	Power Draw Bar-Maxi-Torque	\$720
Labor-PDB Max	Installation of Power Draw bar	\$110
RB6-A1	6" Riser Block for Knee Mill	\$700
RB8-A1	8" Riser Block for Knee Mill	\$750
Labor-RB	Installation of any riser block	\$160
WISE-6	6" Angle Vise W/ Swivel Base (Import)	\$360
TRAN-14KVA	Transformer: 14KVA (440-480V)	\$1,300

### Optional Software Accessories

10249	Printed operation manual Centroid	\$88
10630	Unlimited part program size	\$550
10730	Intercon off-line conversational program (for your desktop PC)	\$275
10850	Coordinate system rotation (CSR)	\$220
10625	Scaling and mirroring [G50 & G51]	\$220
10814	DXF in, CAD drawing input software	\$305
10740	Engraving software	\$500
11069	100 Step MPG	\$495

### Terms & Conditions

F.O.B.: Pomona, CA 91768  
 Delivery: Please check with Atrump's Sales Team  
 Standard Terms Of Payment: 20% down-payment, balanced due on machine delivery  
 Taxes: Federal, State, Local Taxes are the responsibility of Purchaser.



**Factory Direct Sales**  
**Phone us: (877) 733-5500**

Email Us: [centroid.controls@gmail.com](mailto:centroid.controls@gmail.com)



## ***CNC Knee Mill Model: K3NC INVERTER 2+1***

Validity: This proposal is valid for 30 days.  
Training: \$850/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 <http://atrump.com/policies.html> for full warranty details & contract.  
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