

BabinMachineTool 14 Upland Road Brockton, MA 02301

Call us @ 508-588-9189 or email: sales@babinmachine.com

CNC Bed Mill: A1-3T (3 HP) and the A1-5T (5 HP)

MACHINE FEATURES

- Centroid M400W control with 15" LCD and Industrial PC
- 3 HP Spindle Motor, CAT30-NMTB30 or R8 Spindle Taper
- 70-4,200 rpm Programmable spindle with HI-LO gear
- Manual Quill and 20" Full CNC Z axis operation
- Delta Axis Motors and drives, Delta Spindle inverter
- Hardened & Ground with Turcite-B coating on all machine ways
- Precision Double nut ball screws, hardened and ground for longer life, higher accuracy and better repeatability
- FC30 Meehanite Casting Base, Column and Head; annealed and stress relieved for long term stability and reliability
- 100% Laser tested providing positioning accuracy & repeatability
- Dovetail way design on the all axes to provide maximum rigidity and stability
- Table chip pan with 2 Lexan doors (Optional)
- Standard rubber way covers on all three axes
- Programmable Coolant System
- Automatic lubrication system with Low Lube alarm
- Built in Quartz Work Lamp
- **MPG Manual Hand box with axis and speed controls (opt.)**



CNC Control Centroid M400W

Windows based, Easy to use Conversational programming, and creates Fanuc compatible G-Code, 60 Gig Solid state memory, and multiple USB ports and network capability. Large 15" color LCD Screen with 3D Color graphics. 6 Zero Points G54-9. See the Control data sheet for the more details and more CNC control specifications.

Specifications:

Table Size: (Hardened and Ground)	9" x 49"	(230x1250 mm)	Table has (3) "T" Slots
Longitudinal travel (X-axis):	28"	(635 mm)	
Cross travel (Y-axis):	15.74"	(400 mm)	Ground 32mm C5 Double Nut
Vertical travel (Z-axis):	19.68"	(500 mm)	Ball Screws on all Axes
Quill Travel (Hardened and Chromed)	5"	(125 mm)	
Quill Diameter.....	3T = 3.38" (86 mm)	5T = 3.94" (100 mm)	
Spindle nose to table top (D):	3.93"~23.6"	(100~600 mm)	
Spindle center to column front surface:	16.5"	(420 mm)	
Load capacity:	660 lb.	(300 Kg)	
Spindle taper:	NMTB30 or CAT30 or R8		
Spindle Speed (rpm):	80 to 4200 rpm		
Transmission of Power motor to spindle:	Belt		
Automatic Tool Changer - NA	Power Draw Bar (Recommended optional item)		
Head swivel (Right/ Left).....	90 degrees		
Feed Rate:			
Rapid feed rate:	X/Y: 220 ipm Z: 220 ipm		
Cutting feed rate:	1-150 ipm		
Feed motors on XYZ:	Delta Motors and Drives XY=.75kW Z=1 KW AC Servo		
Motors:			
Spindle motor HP Rating:	A1-3T = 3 HP	A1-5T = 5 HP	
Coolant pump:.....	0.3 HP		
Lubrication pump:	150 W		
Power requirement:	6/8 KVA, 3 Phase 208-230 voltage		
Machine:			
Width x Depth x Height (WxDxH):	99" x 102" x 98"	Floor Area required in operation	
Net Weight:	4,400 lbs.	(2000 Kg)	

REVISION: 3-1-2016

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CNC Bed Mill w/ 20" CNC Z axis & Manual 5" Quill

MODEL	Spindle	Travel X/Y/Z	ATC	CNC System	Spindle Motor	Axis Motors	FOB ECEDM-PA
A1-3T	NMTB30/R8	28/15.75/20"	Manual or	M400W	3 HP	AC .75/.75/1KW	\$31,650
A1-5T	NMTB40		Opt. PDB		5 HP		\$35,150

Standard Accessories:

M400W Industrial PC	Large 15" Color LCD	Shop floor conversational Programming
Operation manual set	Auto lube system	Manual/Programmable Coolant system
Schematic Set	Halogen work light	(3) USB 2.0 ports & RS-232 Interface
Toolbox	Leveling Bolts & Pads	60 GB solid state hard drive
1 Mb Part Program Size	Compression Tapping	Cutter Compensation
4 th Axis Software		

Additional information:

Power requirement	6/8 KVA 3 phase 208 V/230 V max
Air requirement	90 - 100 psi with Power draw bar
Type of oil for Way oil / oil chiller / pneumatic oil	Mobil Vactra #2 / Shell Tellus 32 / Air tool oil
Coolant capacity	7 Gallons

Part.# CENTROID SOFTWARE OPTIONS Updated 3-16

10600	Extended Multiple work coordinate systems (G59-+10)	\$ 325.00
10625	Scaling and Mirror (G50 & G51) and Coordinate System Rotation.....	\$ 225.00
10630	Unlimited Part Program Size.....(1 MB is Std.).....	\$ 550.00
10670	Second language (Spanish or French).....	\$ 250.00
10730	Intercon Off-Line Conversational Software for your PC.....	\$ 600.00
	Installation and Training are included and Added \$ 300.00 minimum (Windows PC Only)	
RE681	Program manual (additional copies).....	\$ 75.00
10740	Centroid Engraving Software.....(Software alone \$ 500.00)	
	Software/Installation/Manual and Training.....	\$ 950.00
10814	DXF File Input Software .(Read in DXF and make Intercon g-code Program)	
	Software alone \$ 325.00 Software/Installation/Manual and Training.....	\$ 875.00
10850	Coordinate System Rotation.....	\$ 225.00
10808R	Remedy MPG 100 step/revolution with metal handwheel....(New Machines only).....	\$ 495.00
CC-FS*	Centroid Control floor stand (Lower position and movable).....	\$ 1,150.00

Part.# HARDWARE OPTIONS - - Non ATC Machines

Quill-DRO ... Z Axis DRO integrated into the CNC Control display as "Q" ... (Factory Installed)..	\$ 1,600.00
TG-A13T... Table Guard with 2 Clear Doors (Price w/machine order)	\$ 1,050.00
PDB-M ..Maxi-Torque Power Draw Bar Installed.....	\$ 825.00
K3-MST Auto Mist system with Flexible nozzle or Prog. Coolant System.....	\$ 725.00
K3-EFD External USB 3.5" Floppy Drive.....	\$ 225.00
KB-KBWT* Water Tight Manual Data Input (MDI) via Keyboard	\$ 665.00
K-EW Control Extended Warranty Parts and Labor for 1 year.....	\$ 2,650.00
K3-Trans...High voltage Transformer 440/480 to 220 VAC, 9 KVA \$ 2,200.00 - - 25 KVA....	\$ 2,900.00

Tapping Option:

1) 10810 Rigid Tapping software (10620 Compression tapping which is now free).....	\$ 550.00
1) 3/4" Floating Tapping Head for #8 to 1/2" Taps w/2E Collets.....	\$ 285.00
1) NMTB-30 x 3/4 Tool holder.....	\$ 60.00
Software and Hardware.....	\$ 895.00

This offers rigid style tapping, it has limitations and please discuss the details with your sales person.

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All Centroid rotary tables are full servo tables which will do 4 axis machining

DC-120 Centroid 120 mm 4.7" Rotary Table, 3J Chuck & DC1 16 in-lb. Drive...(TS=.\$ 850.00)...\$ 8,825.00

DC-170 Centroid 170 mm 6.7" Rotary Table, 3J Chuck & DC 16 in-lb. Drive...(TS=.\$ 1,150.00) \$ 9,350.00

- 4th Axis notes**
- 1) DC drives are for bed mills AC/DC drives are for machining centers
 - 2) Prices above are factory installed and tested before shipment
 - 3) 4th Axis retrofit in the field is available, Shipping, installation charges are additional.
 - 4) 4th Axis ½ day of Training is additional and already added to these prices
 - 5) **TS = Optional Tail Stock price** - Shipping is already included to this price

Part.# DIGITIZING & PROBING

10220	TT-1 Tool Length Touch Off Kit w/software (added 3 hrs. Training \$ 380.00).....	\$ 1,125.00
10405	DP-4 Probe Centroid Probing cycles; 6 types for settings fixtures and tool offsets and CRS #10850... (added is 4 hrs. Probe Training \$ 600.00).....	\$ 2,200.00
10770	DP-4 Centroid Digitizing software w/all Surface probe, multiple patch, and grid type...(Includes:10405 probe, Unlimited file size, Mold Magic Software and Training \$ 850.00).....	\$ 4,150.00
10772	Toolroom Pkg: DP4 Probing & TT1 Tool Setter & WCS (Training \$ 750.00)	\$ 3,000.00

Training Options:

IHT-NATC	In House Training (2 days) 5 hour day training & travel Non ATC Mills.....	\$ 2,000.00
XIHT.....	Additional day of in house training or future training dates.....	\$ 850.00 each

Basic NMTB-30 Non ATC Kit:

PDB-M	..Maxi-Torque Power Draw Bar Installed.....	\$ 825.00
CK-001	52 Piece Table clamping kit.....	\$ 150.00
B-NMTB30	Tool Set: (1 each) 1/4,5/16,3/8,1/2,5/8,3/4,7/8, and 1".....	\$ 375.00
B-NMTB30-KD	..... Drill Key type Drill chuck on a NMTB30 JT3 Tool.....	\$ 125.00
B-NMTB30-SM	.....Shell Mill NMTB tool with 3/4 tool shank.....	\$ 50.00
B-SVice	..... 7" Solid fixed Machining Vice.....	\$ 625.00
	Total.....	\$ 2,150.00

Name Brand NMTB-30 Non ATC Tool Kit: Accupro

PDB-M	..Maxi-Torque Power Draw Bar Installed.....	\$ 825.00
CK-001	52 Piece Table clamping kit.....	\$ 150.00
M1251	..... Tool locking Clamp to be Vice Mounted... 30 Taper.....	\$ 225.00
M3803	30 Taper 12 station tool rack.....	\$ 185.00
M6809	..... NMTB 30 Tool Set =3/16,3/8,1/2,5/8, 3/4,7/8, and 1"	\$ 715.00
NMTB30-JC	..... Drill Key type Jacobs Drill chuck on a NMTB30 JT3 Tool.....	\$ 650.00
B-NMTB30-SM	..... Shell Mill NMTB tool with 3/4 tool shank.....	\$ 50.00
G6V	..... Gibraltar 6" fixed machine vice.....	\$ 690.00
	Total.....	\$ 3,350.00

Note: When a non ATC machine is sold, we recommend that a power draw bar is included with the tooling kit. This enhances the production ease of your machine. Items may be added, doubled or deleted as desired

Table Work-holding Options: System 3R – Kurt – Sunspot – and all other types

Remedy supports all brands of work holding fixturing, as the machine table has (3) T-Slots which are ground square to the X axis travel.

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F.O.B.: East Coast EDM in Southampton, PA 18974

DELIVERY: Please check with your sales team.

STANDARD TERMS OF PAYMENT: 40% down-payment, balanced due 10 days after machine delivery.

TAXES: Federal included; State and/or Local Taxes are the responsibility of Purchaser.

VALIDITY: This proposal is valid for 30 days, prices are subject to change there after.

Training: 2 days. Please check with your sales team for details.

WARRANTY: 12 months limited warranty for any defects in material or workmanship of machine tool and factory installed components. See the full quotation or warranty detail sheet.



Centroid M400W Control



Add an indexer or full 4th axis to your mill



DP-4 Probe kit

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

REVISION: 3-1-2016