

BAUER INDUSTRIAL EQUIPMENT LTD.

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Celebrating quality products
at competitive prices since 1973!



newall



TRAK CNC

MICROCUT Model PBM-4EVS+

Heavy Duty, High Precision, Vertical Milling Machine

FEATURES

- American made 4-axis DRO combines knee and quill movement on Z axis
- Automatic table movement on X & Y axes
- Japanese Yaskawa inverter provides direct drive from motor and infinitely variable spindle speeds
- Low & high gear provide maximum torque at any RPM
- Precision ballscrews on X & Y axes for smooth positive control when hand cranking
- DC Servo motors on X & Y axes rated at 280 in-oz. continuous torque
- Table (knee) elevating motor
- Automatic lubrication system
- Air power drawbar for rapid tool changes
- Extra heavy duty deep ribbing in the column base for added rigidity.
- Turcite "B" hardened and ground box ways for friction free table movement under heavy loads.
- Easy to use pendant control for greater operator efficiency.
- Coolant system with chip tray, front and rear way covers



SPECIFICATIONS

Table Size	12" x 54"
Spindle Nose to Table	1.6" - 19.6"
Spindle Center to Column	7.9" - 26.8"
Travel (X, Y, Z)	33" x 15" x 18"
Ram Travel	19"
Quill Travel	5"
Quill Feed Rate	0.0016", 0.0031", 0.0059"/rev
Table (X&Y) Feed Range	1" - 100"/min
Spindle Taper	NST 40
Spindle Motor (Coolant Motor)	5 HP (1/8 HP)
Spindle Speed (Low/High Range)	60-480-3600 rpm
Spindle Steps	Inverter Variable
Head Swivel (R/L & F/B) / Ram Swivel	45° / 360°
Electrics	220/60/3
Net Weight	3,300 lbs.



STANDARD ACCESSORIES

4-axes DRO with auto table movement on X & Y axes
Auto Lubrication
Pendant Control & Electric Cabinet
ALIGN Air Power Drawbar
Coolant System w/Chip Tray, Front & Rear Chip Covers
Input DRO Data Offline (on PC)

Ballscrews and servo motors on X & Y axes
Turcite "B" on X,Y Axes
Table Elevating Motor
Halogen Work Lamp
Toolbox with Tools

OPTIONAL EQUIPMENT

Remote Stop/Go Switch

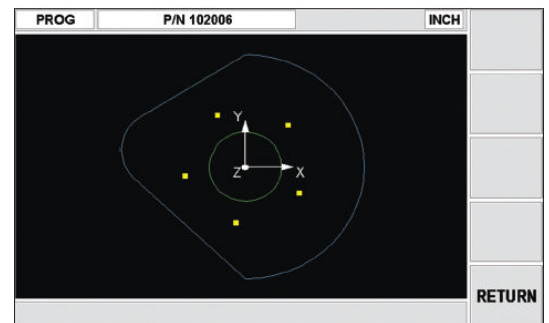
Please feel free to contact us for pricing or if you have any questions.

DIGITAL READOUT FEATURES

- 4-axes system combines knee and quill movement on Z axis
- 7" colour LCD with adjustable contrast
- Clear and concise on-screen display and graphics
- LOOK button displays what has been inputted so far
- Override, from 10% to 150%, any inputted feedrate during cutting
- Inch/Metric conversion
- Absolute/Incremental dimensions
- Jog X & Y axes
- Power feed X & Y axes separately or simultaneously
- Feedrate can be set from 1 to 100 inches per minute
- Save data points by touching off existing part
- Return to Absolute 0 with one button press
- Tool diameter compensation
- Circular and linear interpolation
- Automatically radius corners
- Automatically moves table (X & Y) for:
 - Positioning
 - Drilling
 - Bolt Hole Circles
 - Milling
 - Arcs
 - Pockets
 - Frames / Profiles
- Rotate and Repeat steps for even quicker inputting
- Two USB ports for saving data
- Math Help to calculate:
 - Line-line, line-arc, and arc-arc intersections
 - Line-arc tangency
 - Centers, points, radii, and angles of circles
 - Polar-Cartesian transformation
- Machine error and backlash compensation
- Downloadable free DRO software for inputting data offline on PC



PROG	P/N 102006	INCH	POSN
EVENT 1	BOLT HOLE	EVENT 2	DRILL
# HOLES	5		MILL
X CENTER	0.0000 abs		ARC
Y CENTER	0.0000 abs		POCKET
RADIUS	1.2500		FRAME
ANGLE	45.0000		REPEAT
TOOL #	1		
TOOL DIA	0.2500		
Select an event.			



MATH	INCH	NEXT SOL
	TYPE 17:	
	X1 3.2500	
	Y1 -0.2000	
	X2 0.1500	
	Y2 0.0000	
	R1 1.4500	
	SOLUTION 1 OF 2	
	X 0.7429	
	Y -1.3233	
	RETURN	