



PAT MOONEY, INC.

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POLARIS

FMB PRECISION GEAR DIRECT SAWS - AUTOMATIC SERIES

The Polaris is manufactured by FMB, a world leader in the design and manufacture of metal cutting bandsaw machines. This machine features a complete hydraulic system for clamping, sawing, and material indexing. In addition the machine is controlled by CN to insure accurate and controlled machine function. The control will allow the storing of 10 cutting programs with 10 strings. The cutoff length is set via the CN backgauge. The length is entered via the keypad, and the machine takes over. The setup of precise cutoff with no setup time is **POLARIS**.

Standard Features & Equipment:

CN cutting control manages your cutoff programs, simply input via the keypad, the desired length, number of pieces, blade speed, etc. and the machine will monitor the cutoff jobs for accuracy, includes CN backgauge encoder, and servo motor.

- Heavy Duty Machine Base
- Hydraulic band tension with built in indicator
- Precision Carbide Blade Guides with Roller Guides
- Planetary Gear Drive with Reductor unit with case hardened and ground helical gears, greased and lubricated for long life
- Inverter for band speed control
- Flood Coolant System with automatic return
- Hydraulic unit for control of material clamping, material indexing, positive downfeed of the sawblade. Built in control of the feed speed and feed pressure
- Sawblade return Height Control
- Fast Approach of Blade to the material
- Infinitely variable blade speeds 50-330 FPM
- Blade Breakage Switch to shut machine off in case of blade breakage
- Motion Detector to sense if blade stalls in material
- Working cycle controlled by microprocessor
- Self Centering Feed Vise for crooked or bent material
- Vise pressure regulator
- hydraulic Driven Chip Brush
- Part Counter
- Complete electrical wired for 220, 440 volts, 3 Ph operation with 24 volt control, voltage and modern safety built in
- Two speed infeed system to slow feed of material to zero

Technical Data:

| Cutting Capacity | O Degree | Bundle |
|------------------|---------------|------------------|
| Round | 14" | |
| Rectangle | 14" x 15 3/4" | 7 3/4" x 13 3/4" |
| Square | 14" x 14" | |

- Blade Size: 14'9" x 1 1/4"
- Blade Speeds: Vari 50 – 330 FPM
- Saw Motor: 5-1/2 HP
- Floor Space: 86" x 75"
- Machine Weight: 5280 lbs.
- Hydraulic Motor: 2 HP
- Coolant Motor: 1/4 HP