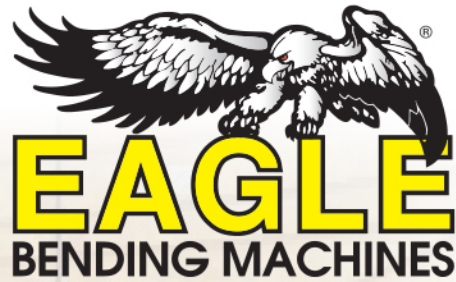


# BA CNC SERIES

For Oval,  
Arched & Round  
Aluminium Window  
Extrusion Production



Servo Controlled Roll Bending  
Offers The Industry's  
Highest Level of Variance Control  
& Roll Bending Precision



**SUPERIOR SERVO CONTROLLED ROLL BENDING**



# BA CNC SERIES SERVO CONTROLLED ROLL BENDING

Heavy Duty fully adjustable supports

Precision Rotary Encoder

Electronic Variable Speed Control

High Resolution Color LCD Screen. Interactive with Graphic Capabilities

Bellows to Protect Interior from Debris

Moog Servo Valve for Precision Hydraulic Movements

Start Cycle Sensor

Air/Oil Heat Exchanger for Constant Oil temperature

Machine Operates in Both Horizontal & Vertical Positions

Heavy-duty cast steel foot pedals with builtin E-Stops.



Servo Compensation for Material Elongation and Material Yield

Full Function Keyboard with Industrial PC main control, Unlimited Memory, and USB Port.

**The EAGLE-BPR BA50CNC is a three driven rolls bending machine driven by a sophisticated but easy to use computer program. Standard Window Shape Programs, Direct Radius Input and Automatic Interpolation-Blending between bend speeds simplifies programming. Servo Controlled Bending Roll Movement offers the Industry's Highest Level of Material Variance Control and Bending Precision.**

The BA50 and BA35 Series CNC Roll Bending Machines use Leading Edge Servo Controlled Technology resulting in the highest precision CNC Machine available. BA Units have 3 driven rolls, windows based DIRECT RADIUS program features servo actuated forming roll, variable speed movements and an integral industrial PC with removable USB. BA units create variable radii, spirals, ovals and polycentric forms in a production environment.

**BA Series Features and Benefits:**

- Variable speed forming roll travel via "MOOG" servo-valve for **immediate response and real-time micro precision adjustments**
- Exclusive **BPR Direct RadiusPRO-Bending Program**
- **Industrial PC** with removable USB for unlimited storage capability
- **Automatic CNC piloted or Manual piloted** operation
- **"Graphic Imaging"** to display final part shape per data input to facilitate operator input
- **Full automated internal bending angle or radius calculations**
- **Point to point, interpolation, teach-in or automatic input modes**
- Menu driven, drop down screen, PC mouse pointer programming if using remote PC or laptop computer
- Profile translation encoder equipped with adjustable contact pressure for **precise linear readings**
- Hydraulic system temperature maintained by **integral air/oil cooler on automatic cycle**
- Hydraulic and electronic circuit on timed protective automatic shut down **"energy saving mode"**
- **Combination Horizontal & Vertical operation**

The BA50 and BA35 Series CNC Roll Bending Machines are fitted with dedicated roll sets for optimal performance. Our tooling specialists design roll sets to the window extrusion profile based upon production needs. Combination or multi-use sets, if requested, are contingent upon profile and radius requirements.

<b>BA50 SPECIFICATIONS</b>			
Shaft diameters	2" (50 mm)	Working height	39"
Roll diameters	7.5" nominal	Driving rolls	3
Drive motor	1.8 kW	Forming rolls adjust	Servo Controlled
Pump motor	4.0 kW	Weight	1850 lbs
Floor area	36" wide x 58" deep	Rolling speed	0 to 24 FPM
Floor area	26" x 23" control stand	Forming roll travel	105 mm
Voltage	220V-3Phase ONLY	Length Data Input	SI Units (mm)
Cylinder thrust	13.5 metric tons	Section Modulus	0.561 Cu. In.

<b>BA35 SPECIFICATIONS</b>			
Shaft diameters	1.375 in." (35 mm)	Working height	32"
Roll diameters	5.5 in." nominal	Driving rolls	3
Drive motor	1.1 kW	Forming rolls adjust	Servo Controlled
Pump motor	2.2 kW	Weight	1358 lbs
Floor area	34" wide x 58" deep	Rolling speed	0 to 25 FPM
Floor area	26" x 20" (control)	Forming roll travel	95 mm
Voltage	220V/3/60	Length Data Input	SI Units (mm)
Cylinder thrust	5 metric tons	Section Modulus	0.326 Cu. In.

**NEW!**

**MDA  
145-300  
Archimeter**



*Thousands of satisfied users worldwide rely on Eagle Bending Machines for their manufacturing needs. Setting today's standard of dependability, precision engineering and leading edge technology are what make Eagle-BPR the Industry leader.*

The Archimeter MDA 145-300 is a digital instrument designed to measure the internal radius of a profile or section.

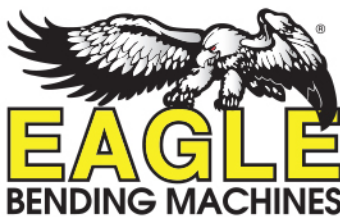
The Archimeter can be used to measure the bending radius of parts produced on a vast array of different bending machinery: section, plate rolls, rotary tube/pipe benders, ram benders and angle rolls to name a few.

The MDA 145-300 enables the operator to quickly check completed profiles for proper bending radius.

Simply place MDA 145-300 against the part and reference the value indicated on the LCD digital display to the radius chart to quickly and accurately determine the radius. The unit can be used on any profile shape such as tube, plate, extrusions and other structural/architectural profiles.

- **Quickly check completed parts**
- **Optimize bending quality**
- **Minimize material waste**
- **Minimize setup time**

*Discover the advantages of the complete line of Eagle-BPR Section Benders, Angle Rolls, Plate Rolls and Tube/Pipe Benders. Call, write or fax for free information packet TODAY!*



**Eagle Bending Machines Inc.**  
P.O. Box 99 • 34225 U.S. Hwy. 31  
Stapleton, AL 36578-0099, U.S.A.  
TEL: (251) 937-0947  
FAX: (251) 937-4742  
E-Mail: [sales@eaglebendingmachines.com](mailto:sales@eaglebendingmachines.com)  
Website: [www.eaglebendingmachines.com](http://www.eaglebendingmachines.com)

**"THE BENDING EQUIPMENT SPECIALIST"**