



TB80 Mandrel Bender

NC Semi-Automatic Rotary Draw Mandrel Bender



Part# TB80-A/P80NC



Ideal for Prototype or Daily Production

FEATURES

- Control swings out to offer easy access to manual and auto operating modes, system diagnostics and multiple languages
- Unlimited storage of bend programs, material library and job information (optional)
- Touch screen displays absolute (ABS) or incremental (INC) positioning with inch or metric readout
- Programmable C axis with manual Y and B positioning
- Variable bending speed to 3 RPM with overload protection
- Programmable bend angle 0 to 180°
- Individual material springback and speed settings for every bend angle
- Anticipated mandrel retraction, clamping, pressure die and boost die movements
- Pressure die with auto recapture minimizes distance between bends
- Heavy duty tailstock carriage with segmented collet hydraulic clamping of workpiece
- Tailstock Y and B position display resets to zero after each bend for easy setup while maintaining absolute position

TB80 Mandrel Capacities & Specifications

Max. Tube Capacity – Mild Steel	3" (.125 wall)
Stainless	3" (.083 wall)
Square Tube	2½" (.083 wall)
Max. Pipe Capacity	2½" Sch. 10
Max. Bending Radius	8.8"
Min. Bending Radius	1.5 x Ø
Max. Shaft Rotation	210°
Max. Bending Angle	180°
Max. Tailstock Through Capacity	3"
Max. Material Length – standard table	13'
Optional Table Extension	21'
Program Storage	USB Optional
Precision of Bend Angle	+/- 1°
Power	Three Phase 220V or 480V
Dimensions (Height x Width x Length)	61" x 36" x 179" or 251"
Weight (13' or 21' table)	2,000 lbs. or 2,600 lbs.

Contact CML USA for complete technical specifications.

All capacities based on mild grade materials; heavy wall and high tensile materials reduce machine capacity.



Patented finger style (FST) clamping system minimizes clamping area.

- Bending head adjusts horizontally to maintain centerline radius of former allowing table to remain stationary
- Patented finger style (FST) clamping system minimizes distance between bends
- Direct drive electro-mechanical bending axis
- Precision encoders on all axes for greater repeatability
- Heavy one-piece steel structure improves rigidity and minimizes vibration
- Externally mounted gauges for adjustment of system and clamping pressure
- Accepts standard 030 mandrel tooling
- Electrical components UL, CSA and CE approved
- Programmable internal lubrication available
- Y - Feeding manual with adjustable stops
- B - Feeding manual with adjustable stops
- C - NC programmable bend angle
- Accepts optional mandrel lubrication pump