

Ideal for Prototype or Daily Production



Part# TB80-A/P80NC

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 work piece
- Tailstock Y and B position display resets to zero after each bend for easy setup while maintaining absolute position
- Bending head adjusts horizontally to maintain center-line radius of former allowing table to remain stationary
- Patented finger style (FST) clamping system minimizes distance between bends
- Direct drive electro-mechanical bending axis

TB80 MANDREL BENDER

NC SEMI-AUTOMATIC ROTARY DRAW MANDREL BENDER

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.

- 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



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