Heavy Steel Structure Provides Rigid Platform and Minimizes Vibration

FEATURES

- Interactive PLC touch screen offers easy access to auto and manual operating modes, system diagnostics and multiple language capability

- Programmable bend angles with independent material springback setting for each bend

- Programmable auto mandrel positioning allows operator to optimize extraction for improved bend quality

- Programmable clamping, pressure die and boost movements with manual override

- Precision encoders on each axis

- Programmable tail stock interference zone monitors position and eliminates workhead collision

- High capacity hydraulic reservoir with automatic cooling system

- Hand-held remote bending control, certified class 3 safety and all electrical components UL, CSA and CE approved

Model	Giga Bender 130	Giga Bender 200
Max. Tube Capacity – Mild Steel	5″ (.196 wall)	6½″ (.187 wall)
Stainless	5″ (.150 wall)	6″ (.187 wall)
Square Tube	4″ (.160 wall)	4″ (.187 wall)
Max. Pipe Capacity	4″ Sch. 40	6″ Sch. 40
Max. Bending Radius	18″	20″
Min. Bending Radius	3.125″	4.7″
Max. Tube Inside Carriage	5″	6½″
Max. Length Through Carriage	236″	236″
Max. Length in Carriage	177″	177″
Interactive Control	10″ touch screen color	10″ touch screen color
Number of Programs	Unlimited w/USB	Unlimited w/USB
Bend Direction	CCW	CCW
"Y" Axis Speed (ft/min)	164	118
"B" Rotation Speed (RPM)	30	20
"C" Bend Speed (RPM)	2	.6
Repeatability "Y" Axis	± .2mm	± .2mm
"C" Axis	± .5mm	± .5mm
Power	Three Phase 480V	Three Phase 480V
Dimensions (Height x Width x Length)	71″ x 75″ x 319″	77″ x 91″ x 339″
Weight (Dry)	18,000 lbs.	30,000 lbs.

Contact CML USA for complete technical specifications.
All capacities based on mild grade materials; heavy wall and high tensile materials reduce machine capacity.

- Standard programmable internal mandrel lubrication

- Machine frame standard compression design

- Super Bend-Tech SE for Ercolina software included

- Accepts YBC and XYZ input values

- Y - Feeding Hydraulic

- B - Feeding Hydraulic

- C - Bending Hydraulic CNC

Giga Bender Features for Bending Heavy Tube and Profiles

Bend Head

New patented bending head concept travels horizontally to adjust for bending radius. GB series bending head is manufactured from GS 500 spheroidal cast iron to absorb vibrations during the bend cycle providing maximum stability with high torque.

Clamp System

Clamp integrates to the top of bend die allowing more space to position the tube while providing optimal clamp pressure. Safely eliminates swing arm movement, reduces flexing and minimizes tooling setup and change over.

Booster Function

Booster function pushes the tube into bending die to minimize tube thinning in the extrados and prevent movement in clamp. Booster with adjustable speed features recapture function for deep angles ensuring the booster pressure throughout the bend length. Boost position monitored with digital encoder and is adjustable through programming eliminated manual adjustments.

Tailstock Carriage

Tailstock features large pass enabling control to program recapture of longer tube as necessary for the customer application. Segmented collets clamp securely with dual hydraulic cylinders. Y-axis with radial slide moves during the bend cycle accommodating radial growth and reduces pressure on linear axis.

Machine Structure

Ercolina GB series have a patented machine frame system working in flexion providing increased stability and accuracy with reduced weight. The tube axis positioned inside machine structure unlike conventional bending machines, which use weight to compensate for design.

Mandrel Retract System

Mandrel position is controlled with encoder and adjustable with software, eliminating manual positioning. Program features anticipated mandrel retraction and positioning for better bend quality. Mandrel rod installed or removed with easy release locking pin for faster tooling change. Mandrel rod can be stationary or can rotate as required.

MANDREL BENDERS

GB200 S CNC7