



Tube, Pipe and Profile

*Bending and
Metalworking Machinery*

**MANDREL BENDING
MACHINES**



www.ercolinacnc.com



Giga Bender 250 CNC



Giga Bender 130 Twin Head CNC

Giga Bender 90/100
CNC or NC Models



GB Series

MANDREL BENDERS

Dimensions & Specifications

Model	GB 250	GB 200	GB 130	GB 100SCNC6	GB 90SCNC6
Max. Tube Capacity					
- Mild Steel	10" (.288 wall)	7½" (.204 wall)	5" (.196 wall)	4¾" (.196 wall)	3½" (.196 wall)
- Stainless	10" (.180 wall)	7½" (.160 wall)	5" (.150 wall)	4¾" (.150 wall)	3" (.150 wall)
- Square Tube	8" (.200 wall)	6" (.200 wall)	4" (.160 wall)	4½" (.138 wall)	3½" (.138 wall)
Min. Tube Capacity	2¾"	2"	1½"	1"	½"
Max. Pipe Capacity	8" Sch. 40	6" Sch. 40	4" Sch. 40	3" Sch. 40	2½" Sch. 40
Max. Bend Radius	25"	20"	18"	16"	12"
Min. Bend Radius	4"	4"	3⅞"	1.5D	1.5D
Number of Programs	Unlimited - USB	Unlimited - USB	Unlimited - USB	Unlimited - USB	Unlimited - USB

* Contact CML USA for complete technical specifications.

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

TM76 MANDREL BENDER



Mandrel Bender **TM76**

Dimensions & Specifications

Max. Tube Capacity	
- Mild Steel	3" (.125 wall)
- Stainless	3" (.095 wall)
- Square Tube	2½" (.095 wall)
Max. Bending Radius	10"
Min. Bending Radius	.75" or 1.5" x Ø
Max. Shaft Rotation	210°
Max. Bending Angle	180°
Number of Programs	Unlimited with USB

About This Brochure

We have tried to make this brochure comprehensive and factual. We reserve the right to make changes at any time without notice, to prices, colors, materials, equipment, specifications, models and availability. Brochure may have been updated since the time of printing.



Model **030-A3/H76**

030 MANDREL BENDER

Dimensions & Specifications

Max. Tube Capacity	
- Mild Steel	3" (.125 wall)
- Stainless	3" (.065 wall)
- Square Tube	2" (.125 wall)
Max. Bending Radius	8⅞"
Min. Bending Radius	1.3" x Ø
Max. Shaft Rotation	210°
Max. Bending Angle	180°
Number of Programs	(30) Standard

Mega Bender 030 with Mandrel System

Part#	Description
030-A15/H76	Mega Bender® 030 with 5' table
030-A3/H76	Mega Bender® 030 with 10' table*
030-A6/H76	Mega Bender® 030 with 20' table
A15/H76	(5') mandrel table only
A3/H76	(10') mandrel table only
A6/H76	(20') mandrel table only

*10' table displayed – 5' & 20' tables not available with base enclosure

* Contact CML USA for complete technical specifications.

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

Ercolina Model Selection Guide

GB Series NC or CNC

TM76

Mega Bender with Mandrel Table

OPERATOR CONTROL

7.5" Interactive color touch screen.	Dual 5.7" Interactive touch screens.	LCD with PLC touch pad.
Six axis position display Absolute and Incremental readout value.	Three axis position digital display with auto sync feature between screens. Absolute and Incremental readout value.	Single axis position display with additional two axis LED readout of plane rotation and linear distance between bends.
Manual over ride control of Clamp, Pressure Die, Boost, Mandrel, Clamp release function.	Manual over ride control of Clamp, Pressure Die, Boost, Mandrel, Clamp release function.	Independent control of Clamp, Mandrel functions.
Inch and Metric programming and display.	Inch and Metric programming and display.	Inch or Metric display.
Manual, Semi Auto and Auto modes (with CNC).	Manual or Semi Auto mode.	Manual or Semi Auto mode.

PROGRAMMING

Unlimited program storage with USB memorizes up to twelve bend angle, spring back settings per program. Specific former radius, material size wall thickness, material grade and section modulus requirement, distance between bends and rotation.	Unlimited program storage with USB memorizes up to twelve bend angle, spring back settings per program. Specific former radius, material size and wall thickness.	Thirty program storage memorizes up to nine bend angle and spring back settings per program.
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BENDING SOFTWARE

Bend-Tech for Ercolina designs part creates print with complete bend dimensions. Can output to XYZ values.	Bend-Tech for Ercolina designs part creates print with complete bend dimensions. Can output to XYZ values.	Bend-Tech for Ercolina designs part creates print with complete bend dimensions. Can output to XYZ values.
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MACHINE DESIGN

C axis chain driven hydraulic operation. Main frame GS500 cast steel case.	C axis electro mechanical operation with planetary reduction. Main frame GS500 cast steel case.	C axis electro mechanical operation with gear reduction. Main frame aluminum case.
Digital encoders for five axis with digital display of absolute or incremental position on touch screen.	Digital encoders for three axis with digital display of absolute or incremental position on touch screen.	Analog encoders for C axis, Counter Die Axis display position on control. Pick up encoders with LED on table, monitor length and rotation from original bend plane (YB).
Hydraulic clamping with split collet. 2 ³ / ₈ " through spindle capacity, 3" material capacity	Hydraulic clamping with collet. 2" through spindle capacity, 3" material capacity with collet.	Pneumatic clamping with four interchangeable jaw sets. 2 ³ / ₈ " capacity (3" capacity with material adapter).
(NC) Manual positioning of rotation and linear distance with mechanical stops. Digital display of position. (CNC) Automatic positioning of rotation and linear distance with mechanical stops. Digital display of position.	Manual positioning of rotation and linear distance with mechanical stops. Digital display of position. Side mounted slide rack keeps tail stock close to table bed for strength.	Rotation and linear distance with slide stops Digital display of position. Top mounted slide rack for tail stock.
Programmable linear travel to 180 degree bends with adjustable speed. Integrated boost and pressure die assembly hydraulic assisted.	Programmable linear travel to 180 degree bends with adjustable speed. Integrated boost and pressure die assembly hydraulic assisted.	Mechanical travel with spring assist to 45 degrees. Integrated boost and pressure die assembly mechanical assisted.
Programmable mandrel extraction.	Programmable mandrel extraction.	Programmable mandrel extraction.
Internal mandrel lubrication, control pre-wired for with optional internal lubrication system.	Internal mandrel lubrication, control pre-wired for with optional internal lubrication system.	Manual.

CML USA Inc. Ercolina®

" 40 Years Excellence in Quality, Support and Service "

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