



# GIGA BENDER CNC SERIES



**INNOVATIVE TUBE & PIPE  
BENDING  
MACHINERY**

**" 40 Years Excellence in Quality, Support and Service "**



# MANDREL GIGA

## GB250/GB200/GB130 FULLY AUTOMATED GIGA BENDERS

Ercolina's patented  
(KST) clam shell  
hydraulic clamping.

### MODELS AVAILABLE

Up to 10 Axis CNC Control



### Features

- Bending capacity 8" Schedule 40 Pipe A53 *depending on model*
- Ideal for industrial bending of tube, pipe, square and rectangular profiles to center line radius as small as 1.5D
- Programmable control with bend angles 0° to 180°
- Adjustable material springback setting for each bend
- USB for unlimited program memory storage and communication
- Interactive touch screen display with ABS or INC modes
- Operator friendly control offers easy to use access to auto and manual operating modes, system diagnostics and multiple language capability
- Programmable mandrel positioning, clamping, pressure die and boost die movements
- Quick change tooling for improved productivity
- Heavy steel structure improves rigidity and minimizes vibration
- Standard with Ercolina's patented (KST) clam shell hydraulic clamping
- Electrical components UL, CSA and CE approved
- Hand-held remote bending control, certified class 3 safety
- Machines available up to (10) axis control
- One (1) year limited warranty



Interactive 10" Color  
Touch Screen  
with Unlimited USB Storage

\* Contact CML USA for complete technical specifications.

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

# BENDER SERIES

**"FREE"**  
Ercolina®  
Demonstration  
on DVD



Structural "compression" design for maximum stability and theoretically no flexion.

## Dimensions & Specifications

Model	Giga Bender 250	Giga Bender 200	Giga Bender 130
Tube Capacity (Max.) - Mild Steel	10" (.288 wall)	7½" (.204 wall)	5" (.196 wall)
Stainless	10" (.180 wall)	7½" (.160 wall)	5" (.150 wall)
Square Tube	8" (.200 wall)	6" (.200 wall)	4" (.160 wall)
Tube Capacity (Min.)	2¾"	2"	1½"
Pipe Capacity (Max.)	8" Sch. 40	6" Sch. 40	4" Sch. 40
Bend Radius (Max.)	25"	20"	18"
Bend Radius (Min.)	4"	4"	3⅝"
Interactive Control	10" touch screen-color	10" touch screen-color	10" touch screen-color
Number of Programs	Unlimited - USB	Unlimited - USB	Unlimited - USB
Tube Inside Carriage (Max.)	9"	7"	5"
Mat'l Length Through Carriage (Max.)	236"	236"	236"
Mat'l Length in Carriage (Max.)	177"	177"	177"
Bend Direction	CCW	CCW	CCW
"Y" Axis Speed (ft/min)	118	118	164
"B" Rotation Speed (RPM)	20	20	30
"C" Bend Speed (RPM)	.6	.6	2
Repeatability "Y" Axis	± .2mm	± .2mm	± .2mm
"C" Axis	± .5mm	± .5mm	± .5mm
Motor (horse power @ 480V)	87	47	47
Dimensions (L x W x H - Inches)	355 x 100 x 83	339 x 91 x 77	319 x 75 x 71
Weight (Dry - Lbs.)	48,500	46,500	18,000

# GB90/GB100 CNC GIGA BENDER

**HEAVY STEEL  
STRUCTURE**



Shown with optional  
KST Clamping System

## Features

- Ideal for bending tube, pipe, square and rectangular profiles to center line radius as tight as 1.5D, accepts large radii tooling to 16" CLR
- 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
- USB for unlimited program memory storage and communication
- Precision encoders on each axis
- Interactive touch screen displays absolute (ABS) or incremental (INC) positioning with inch or metric readout
- Programmable tail stock interference zone monitors position and eliminates workhead collision
- Accepts YBC and XYZ input values
- High capacity hydraulic reservoir with automatic cooling system
- Heavy steel structure provides rigid platform and minimizes vibration
- Standard hydraulic ports accept Ercolina's patented (KST) clam shell or (FST) finger clamp systems
- Hand-held remote bending control, certified class 3 safety and all electrical components UL, CSA and CE approved
- \* Optional mandrel lubrication system upon request

## DIMENSIONS & SPECIFICATIONS

Model	Giga Bender 90SCNC6	Giga Bender 100SCNC6
Pipe Capacity (Max.) - A36	2½" Sch. 40	3" Sch. 40
Tube Capacity (Max.) - Mild Steel	3½" (.196 wall)	4¾" (.196 wall)
Stainless	3" (.150 wall)	4¾" (.150 wall)
Square Tube	3½" (.138 wall)	4½" (.138 wall)
Tube Capacity (Min.)	½"	1"
Bend Radius (Max.   Min.)	12"   1.5D	16"   1.5D
Interactive PLC Touch Screen Control	7.5" color screen	7.5" color screen
Material Length (Max.)	10' optional 20' table	10' optional 20' table
Hydraulic Clamping	(FST) Finger or (KST) Clam Shell specify when ordering	
(C Axis) Rotation / Bend Angle	CCW / 0° to 180°	
(B Axis) Bend Plane Rotation	Auto positioning with digital display	
(Y1 Axis) Distance Between Bends	Programmable with digital readout	
(X2) Pressure Die Linear Travel		
(Y2) Pressure Die Infeed		
Program Storage	Unlimited with USB	Unlimited with USB
Hydraulic Reservoir	40 gal.	40 gal.
Motor (horse power @ 480V)	7.8	7.8
Dimensions (L x W x H - Inches)	298 x 51 x 55	298 x 51 x 55
Weight (Dry - Lbs.)	6,800	7,200



**7.5" Color  
Touch Screen**

### 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.

\* Contact CML USA for complete technical specifications.

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