

ANGLE ROLLS

CE35, CE40 & ER60



CE40MR3
Part# MAC-CE40MR3



U.S. Patent
5,970,770; 6,173,598
MX Patent
209183

Features

- Bending speeds 20% faster than competitive machines
- Forged roll shafts precision ground and fitted for maximum performance and minimal deflection
- Heavy duty structure and rigid components for high section modulus ratings
- Reinforced engineered mainframe design proven to outperform competitive models
- Patented by Ercolina®; simultaneous downfeed and roll movement to minimize deformation
- Programmable touch pad controls with digital center roll positioning display
- Universal tooling set included with each machine
- 40H3 hydraulic machine with memory storage with eight (8) individual programs and unlimited passes
- Remote pendant with low voltage controls and foot pedal switch
- Threaded roll shafts with micrometric flange adjustment helps eliminate spacer usage
- Inline direct drive roll shaft system
- Optional Anti-twist correction system for angle iron “Leg In” applications

Dimensions & Specifications

Model	CE35	CE40MR3	CE40H3	ER60H3
Roll Shaft Diameter	40mm	40mm	40mm	40mm
Center Roll Positioning	Manual	Manual with patented torque multiplier	Hydraulic 10 Tons	Hydraulic 10 Tons
Pipe Capacity	1½" Sch. 40	2" Sch. 40	2" Sch. 40	*2" Sch. 40
Angle Capacity	1½" x 1½" x ¼"	2" x 2" x ¼"	2" x 2" x ¼"	*2" x 2" x ¼"
Universal Tooling	Included - 6⅝" O.D.	Included - 6⅝" O.D.	Included - 6⅝" O.D.	Included - 6⅝" O.D.
Programming	NA	NA	NC - Touch Pad	NC - Touch Pad
Number of Programs	NA	NA	8	1
Shaft Speed	6/12 RPM	10 RPM	10 RPM	10 / 20 RPM
Distance between Shafts	10⅝"	10⅝"	10⅝"	10⅝"
Drive Motor	¾ hp into planetary	1½ hp into planetary	1½ hp into planetary	1½ hp into planetary
Operating Position	Horizontal or Vertical	Horizontal or Vertical	Horizontal or Vertical	Horizontal or Vertical
Angle Twist Correction	Optional	Optional	Optional	Optional
Foot Pedal Stand	Yes	Yes	Yes	Yes
Operating Voltage	220V 1ph	**220V or 440V 3ph	220V or 440V 3ph	220V or 440V 3ph
Height	59"	59"	50"	50"
Length	39"	39"	39"	39"
Width	22½"	26"	26"	26"
Shipping Weight	480 lbs.	763 lbs.	850 lbs.	1039 lbs.

* Capacity based on mild steel with machine in “Low bending speed”

** Single phase machines available

Refer to **Page 30** for Bending Capacities



Minimum Radius Guide for Ercolina® CE Machines

On Mild Steel Material



Profile Type	CE40 / ER60			CE50 / ER76			CE70			CE100		
	Profile Dimensions	Min. CLR Inches	Wall	Profile Dimensions	Min. CLR Inches	Wall	Profile Dimensions	Min. CLR Inches	Wall	Profile Dimensions	Min. CLR Inches	Wall
Pipe	1/2"	6	.095	3/4"	6	.120	1/2"	8	.095	4"	24	.187
	1"	10	.120	2"	12	.156	3"	24	.216	4"	32	.200
	2"	18	.120	2 1/2"	16	.134						
Tube	1"	6	.120	1"	6	.120	7/8"	8	.065	1 3/16"	10	.079
	1 3/8"	8	.120	2 1/2"	20	.203	4"	47	.120	4 3/4"	40	.157
	2 3/4"	24	.049	3 3/8"	24	.083				5 9/16"	71	.125
Square Tube	1 3/16" x 1 3/16"	6	.065	1 3/16" x 1 3/16"	6	.083	1" x 1"	8	.065	1 3/16" x 1 13/16"	10	.079
	1 9/16" x 1 9/16"	16	.083	2" x 2"	20	.120	3" x 3"	47	.120	4" x 4"	63	.157
	2" x 2"	24		2 1/2" x 2 1/2"	30	.120						
Rectangular Tube Hardway	1 3/16" x 7/16"	6	.065	1" x 7/16"	6	.083	1 1/4" x 5/8"	8	.065	1 1/4" x 5/8"	12	.079
	1 9/16" x 1 9/16"	18	.095	2 1/2" x 1 9/16"	18	.120	4" x 2"	82	.120	4" x 2"	82	.157
	2" x 1"	24	.095	3 3/8" x 1 9/16"	34	.120						
Rectangular Tube Easyway	1 3/16" x 7/16"	8	.078	1 3/16" x 5/8"	6	.083	1 1/4" x 5/8"	8	.065	1 1/4" x 5/8"	12	.079
	2" x 1"	20	.095	2 1/2" x 1 9/16"	24	.120	4 3/4" x 1 5/8"	47	.160	4" x 2"	79	.157
	2 1/2" x 1 3/16"	32	.095	3 3/8" x 1 3/16"	32	.120						
Oval tube Hardway	1 3/16" x 7/16"	8	.059	1 3/16" x 5/8"	8	.065	2" x 1"	8	.080	1 1/4" x 5/8"	12	.059
	2" x 1"	24	.095	2 1/2" x 1 3/16"	24	.095	4" x 2"	47	.118	4" x 2"	40	.125
Oval tube Easyway	1 3/16" x 7/16"	6	.058	1 3/16" x 5/8"	8	.065	2" x 1"	8	.080	1 1/4" x 5/8"	12	.059
	2" x 1 3/16"	24	.095	2 1/2" x 1 3/16"	24	.095	4 3/4" x 1 5/8"	47	.125	4" x 2"	40	.125
Round solid	3/4"	4	NA	1 3/16"	4	NA	1 1/4"	6	NA	1/2"	8	NA
	1 3/16"	10	NA	1 9/16"	10	NA	2 3/8"	16	NA	2 3/8"	20	NA
Square solid	5/8"	4	NA	5/8"	4	NA	1 1/4"	6	NA	1/2"	12	NA
	1"	8	NA	1 3/16"	8	NA	2"	16	NA	2 3/8"	20	NA
	1 3/16"	10	NA	1 9/16"	10	NA						
Rectangular solid Hardway	1 1/2" x 7/16"	4	NA	1 3/16" x 7/16"	6	NA	1 1/4" x 1 1/4"	8	NA	1 1/4" x 1 1/4"	10	NA
	2" x 5/16"	10	NA	2" x 1/2"	8	NA	4" x 1/2"	24	NA	4 3/4" x 3/4"	30	NA
	2" x 7/16"	18	NA	2 1/2" x 1/2"	18	NA						
Rectangular solid Easyway	1 3/16" x 7/16"	6	NA	2" x 7/16"	6	NA	1 1/4" x 3/8"	8	NA	2" x 3/8"	10	NA
	2 1/2" x 5/8"	8	NA	4" x 5/8"	8	NA	5 1/2" x 1 1/4"	16	NA	8 x 1 3/16"	20	NA
	3 3/8" x 5/8"	24	NA	4" x 1 3/16"	24	NA						
Angle "Leg Out"	1" x 1"	8	.156	1" x 1"	8	.156	1 1/4" x 1 1/4"	10	.160	1 1/4" x 1 1/4"	10	.187
	1 1/2" x 1 1/2"	12	.120	2" x 2"	12	.236	3 3/4" x 3 3/4"	24	.375	3 3/4" x 3 3/4"	20	.500
	2" x 2"	16	.236	2 1/2" x 2 1/2"	16	.236	4" x 4"	24		4" x 4"	24	.500
Angle "Leg In"	1 3/16" x 1 3/16"	10	.120	1" x 1"	8	.120	1 1/4" x 1 1/4"	10	.160	1 1/4" x 1 1/4"	10	.187
	1" x 1"	14	.156	2" x 2"	12	.236	3 3/4" x 3 3/4"	32	.375	3 3/4" x 3 3/4"	20	.500
	2" x 2"	28	.236	2 1/2" x 2 1/2"	30	.236	4" x 4"	24		4" x 4"	24	.500
T "Leg Out"	1 3/16" x 1 3/16"	6	.120	1 3/16" x 1 3/16"	6	.120	1" x 1"	8	.125	1 3/16" x 1 3/16"	8	.187
	1" x 1"	8	.156	2" x 2"	8	.236	4 3/4" x 4 3/4"	24	.375	4" x 4"	20	.375
	2" x 2"	12	.236	2 1/2" x 2 1/2"	12	.236						
T "Leg In"	1 3/16" x 1 3/16"	6	.120	1 3/16" x 1 3/16"	6	.120	1" x 1"	8	.125	1 3/16" x 1 3/16"	10	.187
	1 1/2" x 1 1/2"	8	.156	2" x 2"	8	.236	4 3/4" x 4 3/4"	24	.375	4" x 4"	20	.375
	2" x 2"	12	.236	2 1/2" x 2 1/2"	16	.236						
C "Leg Out"	1 3/16" x 5/8"	6	.156	1 3/16" x 5/8"	6	.156	1 1/4"	12	.125	1 9/16" x 1 3/8"	10	.187
	2" x 1 3/16"	14	.236	3 3/8" x 1 3/16"	12	.236	6 1/4"	24	.250	8 3/4" x 3 1/8"	59	.375
C "Leg In"	1 9/16" x 1 9/16"	6	.203	1 9/16" x 1 9/16"	6	.203	1 1/4"	12	.125	1 9/16" x 1 3/8"	10	.187
	2 1/2" x 1 3/16"	14	.236	3 3/8" x 1 3/16"	12	.236	6 1/4"	24	.250	8 3/4" x 3 1/8"	59	.375
C "Leg Up"	1 3/16" x 5/8"	12	.156	1 3/16" x 5/8"	12	.156	1 1/4"	10	.060	1 3/16" x 1 3/16"	10	.157
	2" x 1"	18		2 1/2" x 1 3/16"	20	.236	2 3/8"	28	.125	4" x 2"	39	.250
H Profile "Leg Up"							3 1/4"	24		3 3/8"	20	NA
							6 1/4" x 2 1/2"	47		8 3/4"	59	
H profile "Leg In"							3 1/4"	24		4"	39	
							6 1/4"	47		4 3/4"	63	

1. Capacities based on mild grade material, number of bending passes may vary. 2. Tie Bar accessory may be required for bending large profiles. 3. Two roll drive machines increase minimum CLR. 4. ER60/76 capacities based on "low bending speed", high speed may reduce machine capacity. Consult CML USA Inc. Ercolina® with application questions.

