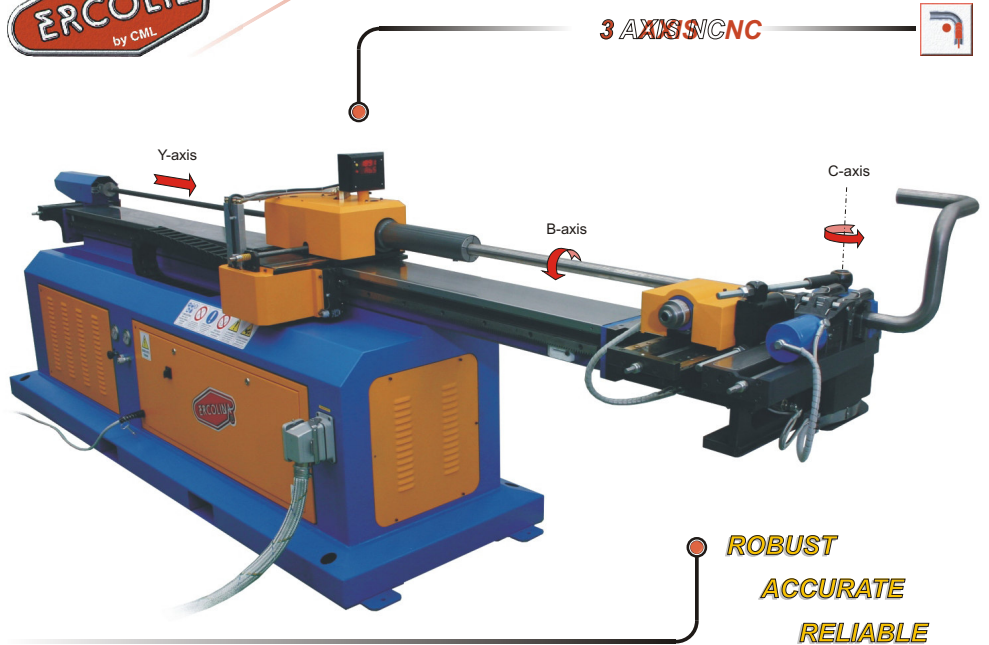




ERCOBENDER - MANDREL BENDING MACHINE

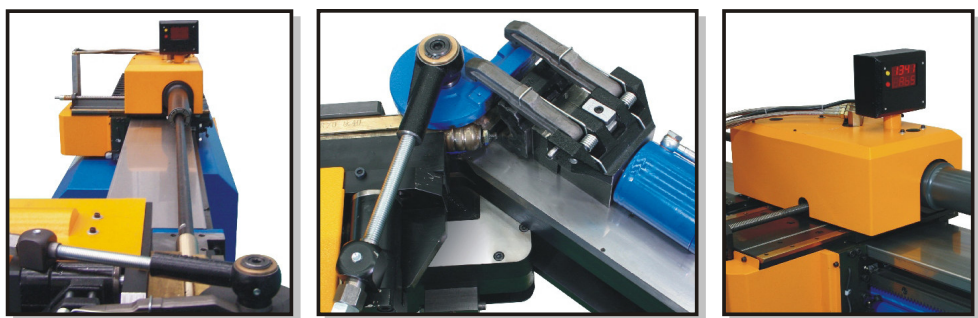


**ROBUST
ACCURATE
RELIABLE**

ERCOBENDER, Ercolina's 3 axis NC mandrel bender, achieves accurate repeatable bends, ideal for production or prototype applications.

User-friendly control accepts operator program information quickly. Machine completes programmed bend cycle automatically.

High bend capacity and axes motion accuracy are the result of over 30 years of experience in bending and cold metalworking sectors.



Linear rotary motion control of carriage and mandrel (B-axis) are fully automatic. Programmable spray lubrication system lubricates inside of tube, reducing friction and thinning effect on tube wall and allows tight radius applications. Forward motion of linear and rotary mandrel (C-axis) is fully automatic. Digital display of linear and rotary positioning.

In accordance with CE Machinery Directive and 392/89 safety regulation

Your Partner for Life



ADVANTAGES

- Unbeatable bend quality at competitive pricing;
- Robust structure in carbon steel;
- Limited maintenance;
- Proven electric over hydraulic design with fully adjustable controls and gauges;
- Highly accurate axial positioning;
- Individually controlled axis feedrate;
- Unlimited number of programs storage with smart card;
- Programmable axial forward powered motion of (Booster) from mandrel carriage;
- Programmable spray mist lubrication system;
- Pivoting work head minimizes internal distance between bends under working area;
- Automatic anticipated mandrel extraction;
- Standard hydraulic cooling system with temperature control.

MATERIAL APPLICATIONS

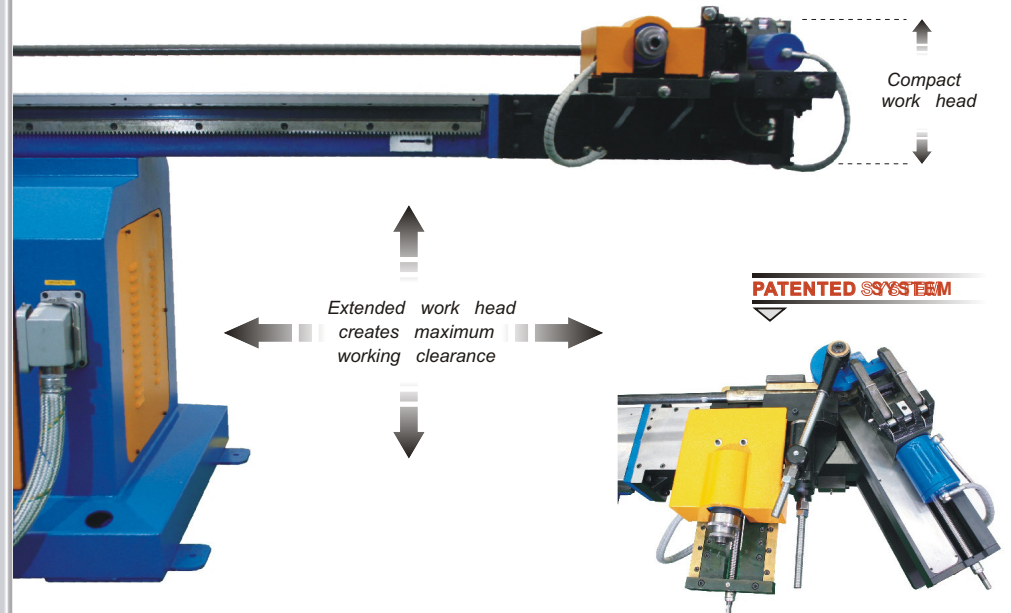
Mild steel, stainless, aluminized steel, chrome moly, aluminum, copper, copper nickel, brass, titanium others.

SECTOR APPLICATIONS

Mandrel tube and pipe bending, Non mandrel pipe bending, Custom automotive and motorcycle exhaust, Race Sport custom chassis, Roll cages, Hand rail, Sign furniture, Food processing dairy, Copper plumbing Marine, Refinery petro chemical, HVAC Heat exchanger Refrigeration, Automotive aftermarket accessories Ornamental.

MODELS

Ref.	Description
EB45 4RF NC3	rBender Ø max 45mm/1.77" - 3 Axis NC
EB65 4RF NC3	rBender Ø max 65mm/2.56" - 3 Axis NC
EB76 4RF NC3	rBender Ø max 76mm/3" - 3 Axis NC
EB127 4RF NC3	rBender Ø max 127mm/5" - 3 Axis NC



CAPACITY

ERCOBENDER	EB45 4RF NC3	EB65 4RF NC3	EB76 4RF NC3	EB127 4RF
MAX BEND CAPACITY σ Fe* (with resistance of material R=42kg/mm2)	\emptyset 45 x 4 mm / 1.77" x 0.157 2" 1/2 PIPE A53 (min \emptyset 6 mm / 0.236")	\emptyset 65 x 4 mm / 2.56" x 0.157 2" 1/2 PIPE A53 (min \emptyset 6 mm / 0.236")	\emptyset 76 x 6 mm / 3" x 0.236" (min \emptyset 6 mm / 0.236")	\emptyset 127 x 5 mm / 5" x 0.236" (min \emptyset 25 mm / 1")
MAX BEND CAPACITY σ STAINLESS STEEL* (with resistance of material R=64kg/mm2)	\emptyset 45 x 2 mm / 1.77" x 0.0785" (min \emptyset 6 mm / 0.236")	\emptyset 65 x 2 mm / 2.56" x 0.0785" (min \emptyset 6 mm / 0.236")	\emptyset 76 x 4 mm / 3" x 0.0785" (min \emptyset 6 mm / 0.236")	\emptyset 127 x 3 mm / 5" x 0.0785" (min \emptyset 25 mm)

TECHNICAL SPECIFICATIONS

ERCOBENDER	EB45 4RF NC3	EB65 4RF NC3	EB76 4RF NC3	EB127 4RF
MAX BENDING RADIUS*	300 mm / 11.8"	300 mm / 11.8"	300 mm / 11.8"	400 mm
MIN BENDING RADIUS* (with standard mandrel)	1,5 x \emptyset	1,5 x \emptyset	1,5 x \emptyset	1,5 x \emptyset
MIN BENDING RADIUS* (with special mandrel)	1 x \emptyset	1 x \emptyset	1 x \emptyset	1 x \emptyset
MAX SHAFT ROTATION	210°	210°	210°	210°
MAX BENDING ANGLE	185°	185°	185°	185°
DIAMETER OF THROUGH HOLE OF TUBE HOLDER CHUCK	\emptyset 46 mm / 1.8"	\emptyset 66 mm / 2.6"	\emptyset 81 mm / 3.2"	\emptyset 123
LENGTH OF COMPACT PIVOTING HEAD	1500 mm / 59"	1500 mm / 59"	1500 mm / 59"	1500
MIN INTERNAL DISTANCE BETWEEN BENDS AND WORK HEAD	260 mm / 10.2"	260 mm / 10.2"	310 mm / 12.2"	390 mm / 15.4"
MAX HYDRAULIC PRESSURE	150 bar	150 bar	150 bar	150 bar
MAX HIGH BENDING AND RETURN SPEED	12/14 rpm	12/14 rpm	6/8 rpm	4/6 rpm
MAX LOW BENDING AND RETURN SPEED	6/14 rpm	3/14 rpm	1/6 rpm	0,75/4 rpm
MANDREL TABLE (standard length of tube to be bent)	4200 mm / 165.5"	4200 mm / 165.5"	4200 mm / 165.5"	6200 mm
STROKE OF CHUCK of one mandrel recapture	3200 mm / 126"	3200 mm / 126"	3200 mm / 126"	5000 mm
3 AXIS NUMERIC CONTROL: bending (C), linear feed (Y), rotation (B)	C=11/4 rpm Y=400 mm (15.7") /sec B=5/10 rpm	C=12/3 rpm Y=400 mm (15.7") /sec B=5/10 rpm	C=6/1 rpm Y=400 mm (15.7") / sec B=5/10 rpm	C=4 rpm Y=400 mm (15.7") /sec B=5 rpm
CYCLE TIME (90° bend-to-bend)	6 sec	6 sec	10 sec	13 sec
DATA INPUT THROUGH POLAR SYSTEM (y - b - c)	yes	yes	yes	yes
NUMBER OF PROGRAMS	Unlimited (with use of Smart Card)	Unlimited (with use of Smart Card)	Unlimited (with use of Smart Card)	Unlimited (with use of Smart Card)
ACCURACY OF BEND ANGLE	+/- 0.1°	+/- 0.1°	+/- 0.1°	+/- 0.1°
ACCURACY OF CHUCK ROTARY MOTION	+/- 0.1°	+/- 0.1°	+/- 0.1°	+/- 0.1°
ACCURACY OF CARRIAGE LINEAR MOTION	+/- 0.1° mm	+/- 0.1° mm	+/- 0.1° mm	+/- 0.1° mm
THREE-PHASE MOTOR 400V/440V at 50/60 Hz (other voltages on request)	20 Kw (total)	20 Kw (total)	20 Kw (total)	40 Kw (total)
DIMENSIONS (Length - Width - Height)	5200x1100x1300 mm 17.1x3.6x4.3 ft	5200x1100x1300 mm 17.1x3.6x4.3 ft	5200x1100x1300 mm 17.1x3.6x4.3 ft	6000x1300x1300 mm 19.7x4.3x4.3 ft
WEIGHT	1900 Kg / 4190 lb	1900 Kg / 4190 lb	2200 Kg / 4850 lb	4600 Kg

* Depending on diameter, wall thickness and type of material

** With special accessories

CML International S.p.A. reserves the right to change above mentioned specifications without notice