## **CNC MANDREL BENDER** Art. EB50 CNC4 P ADVANTAGES: ERCOBENDER Covering the entire carriage length, Fast and accurate Bending Technology Mandrel and non mandrel bending; Pressure die in bending position the tunnel replaces the use of safety B and Y axes interpolation, powered by brushless motors, to works under constant pressure; **EB50** Two stack bending head -one stack is guarantee fast and accurate Highly accurate positioning and preset for variable radii bending accelerations; stability ensured by an oleodynamic TECHNICAL DATA (calendering): ■ High motor torque on Y-axis cylinder and prismatic ball guides. allows booster and calendaring Cross movement of bend head: **CAPACITY Max:** 4 Axis CNC Automatic carriage with tube booster Flexion Module (R 42Kg/mm<sup>2</sup>): 5cm<sup>3</sup> function for variable radii bends; Ø50 x 1,5 mm / 2" x 0.06" (inox AISI 304) COLLET Ø50 x 3 mm / 2" x 0.12" (Fe 42) Programmable automatic collet Booster on pressure die; Ø63.5 mm/2"1/2 (Tube OD) Axes Interpolation for 3D bends; Min Radius: 20 mm / 0.79" Carriage axes powered by brushless Max Radius (fixed): 220 mm / 8.7" **BOOSTER** Max Tube Length: 3100 mm / 122" Bending ControlPressure die booster during bending allows to Hydraulic motion of other axes; control tube deformation and to AXES: bend tight radii and small thickness Advanced mandrel extraction Y Linear programmable in automatic cycle; 76 m/mn; 250 ft/mn Speed: Repeatability: +/- 0.05 mm; +/- 0.00197" Control panel with interactive and grafic interface for the complete control of 3000 mm / 118" Stroke: C - Axes machine's parameters; **B** Rotation SIEMENS closed-loop control system; Speed: **60** rpm Repeatability: +/- 0.05° Laser scan safety equipment. Stroke: C Bend Arm Speed: 25 rpm Repeatability: +/- 0.05° Stroke: X Head Position CLR **B** - Axes 25 m/mn; 82 ft/mn Speed: Repeatability: +/- 0.05 mn; +/- 0.00197" 200 mm / 7.87" Stroke: WEIGTH: 3000 Kg / 6615 lbs HYDRAULIC MOTION: ■ Clamp In/Out ■ Pressure Die In/Out ■ Pressure Die Booster In/Out ■ Vertical Bend Head Up/Down ■ Colet In/Out ■ Mandrel In/Out OPTIONAL EQUIPMENT: ■ Wiper Die Support; ■ Mandrel Lubricatrion; ■ Vertical Bend Die Opening (for square and special profiles rotation); MANUFACTURING EVOLUTION: Punching Equipment. Machine main frame in high resistance Bend head load up to 42000 Kg/93000 First class and high strength components allows the machine to reach Positioning of mandrel with accurate tollerences well below declared rates; anti-rotating hydraulic system; Innovative patented design of bend End stop positioning by threaded rod. head; Special vice movement inside the arm **SECTOR APPLICATION:** Control Panel SIEMENS 802C creates more space for the working area Mandrel tube and pipe bending, Non and join the former directly with the bend mandrel pipe bending, Custom HEAD SHIFTER automotive and motorcycle exhaust, Placed between side guides, the special Programmable automatic motion of bend arm (X-axis) for head positioning on Race and Sport custom chassis, Roll rack position ensures maximum efficiency and stability to carriage run.

cages, Hand rail, Sign frames, Furniture, Food processing diary, Copper plumbing, Marine, Refinery petro chemical, HVAC Heat exchangers, Refrigeration, Automotive aftermarket accessories, Ornamental.

machine axis according to centerline bendina radius (clr).

Useful for tooling stack change.

Bending area protected by laser scan

safety equipment. Conform with CE 2006

Safety Regulations.

Excellent stability of the former during bending avoids the use of any tie bar;

Prismatic ball guides for all linear

movements:

High performance mechanically blocked vice (approx 10 tons).