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CESURBEND PBNC-38X3 CNC Servo Tube and Profile Bender





CESURBEND PBNC-38X3 – a CNC Servo mandrel tube bender for precision bending of steel tubes and profiles up to 38 mm in diameter.

CNC Servo Mandrel Tube Bender

CESURBEND PBNC-38X3 CNC Servo Tube and Profile Bender

Professional CNC mandrel tube bender for 38 × 3 mm steel tubes, with servo drives and OMRON control

CESURBEND PBNC-38X3 is an advanced CNC Servo mandrel tube bender designed for precision bending of steel tubes and profiles. The machine is well suited for series production, fabrication plants, metalworking shops, installation work and the production of components where repeatability and bending accuracy are essential.

The **PBNC-38X3** model bends steel tubes up to **38 mm** in diameter with a wall thickness of up to **3 mm**. Mandrel technology, hydraulic clamping and CNC/PLC OMRON control supported by servo drives help reduce material deformation and ensure high-quality bends.

Tubes up to 38 × 3 mm, bending angle up to 190°, and 15 sequential bends.

PBNC-38X3 CNC Servo is a precision mandrel tube bender for repeatable tubular components, small and medium production runs, and steel parts requiring high accuracy.

Tube diameter **38 mm**

Wall thickness **3 mm**

Bending angle **190°**

Bending power **3 kW**

Product gallery

Photos of the CESURBEND PBNC-38X3 CNC Servo mandrel tube bender



CESURBEND PBNC-38X3 CNC Servo machine view



Bending area, CNC/PLC panel or mandrel system
Key features

CNC Servo mandrel tube bender for accurate tube bending

Working range up to 38 mm — the machine is designed for bending steel tubes up to 38 mm in diameter.



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Wall thickness up to 3 mm — suitable for producing tubular components and steel profiles.

CNC / PLC OMRON control — enables precise parameter setup and control of the bending process.

Servo drives — increase accuracy, repeatability and operating convenience in series production.

Mandrel technology — reduces tube flattening and helps maintain a high-quality finished bend.

Hydraulic clamping — stabilizes the material during bending and improves part repeatability.

100 programs in memory — the ability to save settings makes it easier to produce repeatable components.

Up to 15 bends in one cycle — the machine can perform sequential bends according to programmed settings.

Bending speed 8–10 rpm — stable operation during precision bending of tubes and profiles.

700 kg construction — the machine's robust weight ensures stability during production work.

Working process

How does the PBNC-38X3 CNC mandrel tube bender work?

1

Part programming

The operator sets the bending parameters, saves the program and prepares the tube or profile for processing in the CNC/PLC system.

2

Material stabilization

Hydraulic clamping and mandrel technology stabilize the tube, reducing flattening and deformation during bending.

3



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CNC Servo bending

CNC/PLC control and servo drives support accurate bend formation and repeatable sequential bending.

Applications

Where is the CESURBEND PBNC-38X3 CNC Servo suitable?

Series production

- Repeatable tubular components.
- Steel parts produced according to a program.
- Small and medium production runs.

Fabrication and metalworking

- Frames, brackets and steel structures.
- Components made from steel tubes and profiles.
- Railings, handrails and functional components.

Precision components

- Tube components for installations.
- Bends produced with high repeatability.
- Production of components requiring CNC control.

Technical specification

Technical parameters of the CESURBEND PBNC-38X3 CNC Servo bender

Model **CESURBEND PBNC-38X3**

Machine type **CNC Servo mandrel tube bender for tubes and profiles**

Control **CNC / PLC OMRON**

Drive / control **Servo drives, precise bending-process control**

Program memory **Up to 100 programs**

Number of bends in one cycle **Up to 15 sequential bends**

Maximum tube diameter **38 mm — steel**

Maximum wall thickness **3 mm**

Maximum bending angle **190°**

Maximum bending radius **250 mm**

Bending speed **8–10 rpm**

Bending motor power **3 kW**



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Hydraulic system power **1,5 kW**

Maximum tube / profile length **2500 mm**

Machine width **1400 mm**

Machine length **3250 mm**

Machine height **1200 mm**

Machine weight **700 kg**

Equipment / features **Mandrel technology, hydraulic clamping, CNC / PLC OMRON control, servo drives, program memory, sequential bending and high repeatability**

Applications **Bending steel tubes and profiles, series production, metalworking shops, steel structures, installations, railings, precision parts and metal components**