

CESURBEND PBNC-38X3A CNC Tube and Profile Bender





CESURBEND PBNC-38X3A — an industrial CNC mandrel tube bender for precision bending of steel tubes and profiles up to 38 mm in diameter.

Industrial CNC Mandrel Tube Bender

CESURBEND PBNC-38X3A CNC Tube and Profile Bender

Industrial CNC mandrel tube bender for 38 × 2 mm steel tubes with precise OMRON control

CESURBEND PBNC-38X3A is an industrial CNC mandrel tube bender designed for precision bending of steel tubes and profiles. The machine is well suited for serial production, fabrication plants, metalworking shops, installation companies, and the production of components where accuracy, repeatability, and control of the bending process are essential.

The **PBNC-38X3A** model enables bending of steel tubes up to **38 mm** in diameter and up to **2 mm** wall thickness. Mandrel technology, hydraulic clamping, and CNC/PLC OMRON control help reduce flattening and material deformation, ensuring high-quality bends.

Tubes up to 38 × 2 mm, bending angle up to 190°, and bending speed of 8–10 rpm.

PBNC-38X3A CNC is an industrial mandrel tube bender for repeatable tubular components, serial production, and parts requiring high accuracy.

Tube diameter **38 mm**

Wall thickness **2 mm**

Bending angle **190°**

Bending power **3 kW**

Product gallery

Photos of the CESURBEND PBNC-38X3A CNC mandrel tube bender



CESURBEND PBNC-38X3A CNC machine view



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

Industrial CNC 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 2 mm — suitable for producing precise tubular components and steel profiles.

CNC / PLC OMRON control — enables accurate parameter setting and control of the bending process.

Mandrel technology — reduces tube flattening and helps maintain the high quality of the finished bend.

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

3 kW bending power — provides stable operation with steel tubes in workshop or serial production.

Speed 8–10 rpm — allows efficient bend production while maintaining process control.

Bending radius up to 250 mm — a wide working range for typical tubular and structural components.

2,500 mm loading length — enables work with longer lengths of tubes and profiles.

700 kg construction — the machine's solid weight provides stability during production work.

Operating process

How does the PBNC-38X3A CNC mandrel tube bender work?

1

Part programming

The operator sets the bending parameters, prepares the tube or profile, and selects the appropriate operating program in the CNC/PLC system.

2

Material stabilization

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

3



KARTA PRODUKTOWA

CNC bending

CNC/PLC control supports accurate bend production, repeatability, and parameter control in serial production.

Applications

Where is the CESURBEND PBNC-38X3A CNC suitable?

Serial 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 installation components.
- Bends produced with high repeatability.
- Production of components requiring CNC control.

Technical specification

Technical parameters of the CESURBEND PBNC-38X3A CNC bender

Model **CESURBEND PBNC-38X3A**

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

Control **CNC / PLC OMRON**

Maximum tube diameter **38 mm — steel**

Maximum wall thickness **2 mm**

Maximum bending angle **190°**

Maximum bending radius **250 mm**

Bending speed **8–10 rpm**

Bending motor power **3 kW**

Hydraulic motor power **1,5 kW**

Tube loading length **2500 mm**



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Machine width **1400 mm**

Machine length **3250 mm**

Machine height **1200 mm**

Machine weight **700 kg**

Equipment / functions **Mandrel technology, hydraulic clamping, CNC / PLC OMRON control, high operating repeatability, industrial design for serial production**

Applications **Bending of steel tubes and profiles, serial production, metalworking shops, steel structures, installations, railings, precision components, and metal elements**