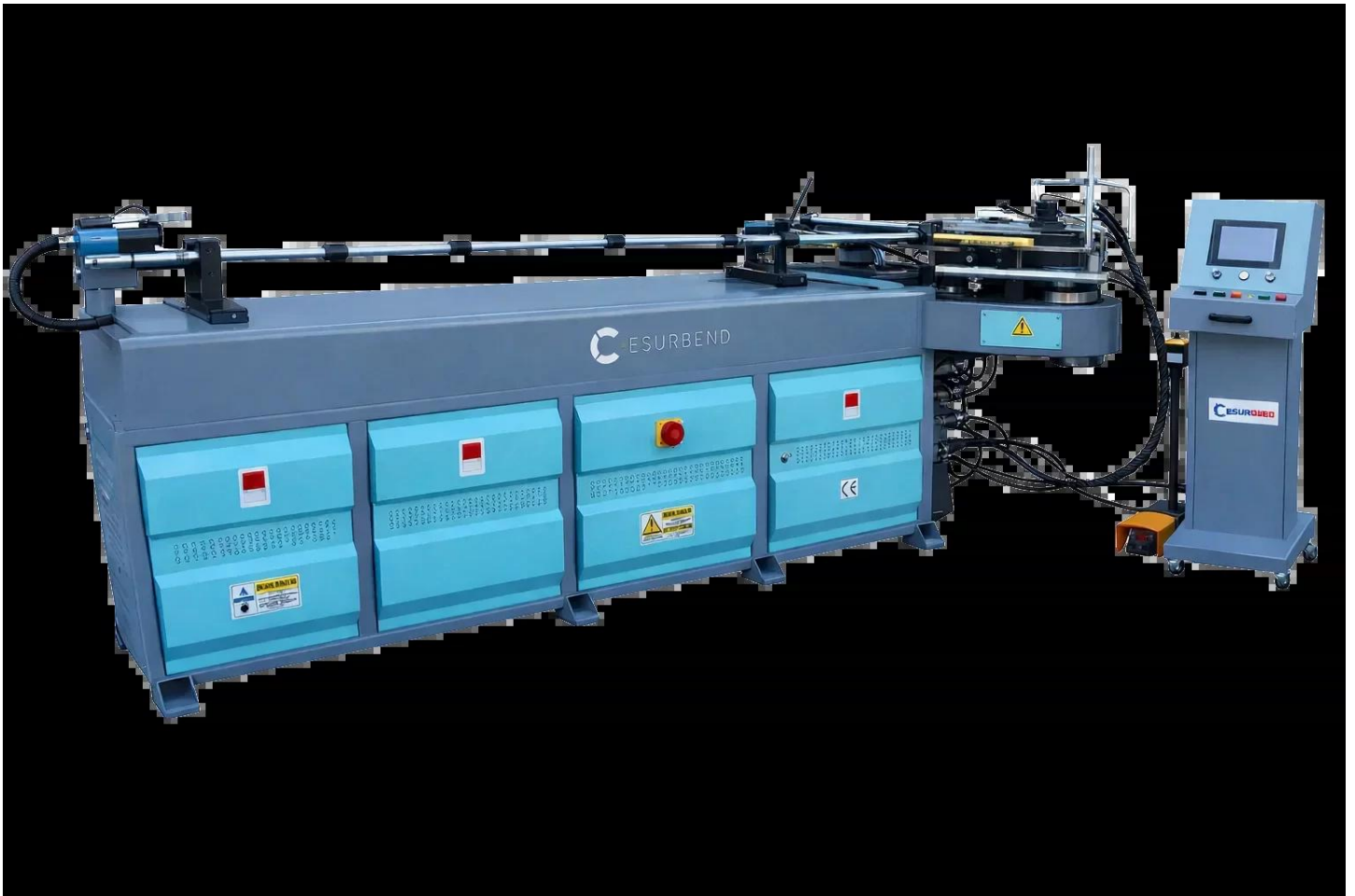




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CESURBEND PBNC-65 CNC Servo Tube and Profile Bender





CESURBEND PBNC-65 – a CNC Servo mandrel tube bender for precision bending of steel tubes and profiles with diameters up to 63 mm.

CNC Servo Mandrel Tube Bender

CESURBEND PBNC-65 CNC Servo Tube and Profile Bender

Professional CNC Servo mandrel tube bender for 63 × 3 mm steel tubes with OMRON control

CESURBEND PBNC-65 is an industrial CNC Servo mandrel tube bender designed for precision bending of steel tubes and profiles. The machine is suitable for series production, fabrication shops, metalworking workshops, installation businesses and the production of components where repeatability and bending accuracy are essential.

Model **PBNC-65** enables bending of steel tubes up to **63 mm** in diameter and with a wall thickness of up to **3 mm**. Mandrel technology, a hydraulic mandrel, hydraulic clamping and CNC/PLC OMRON control with servo control help reduce material deformation and ensure high-quality bends.



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Tubes up to 63 × 3 mm, a bending angle of up to 190° and 7.5 kW bending power.

PBNC-65 CNC Servo is an advanced mandrel tube bender for series production, larger tube diameters and repeatable steel components.

Tube diameter **63 mm**

Wall thickness **3 mm**

Bending angle **190°**

Bending power **7,5 kW**

Product gallery

Photo of the CESURBEND PBNC-65 CNC Servo mandrel tube bender

One machine image has been included below: a general view of the CNC Servo bender.



CESURBEND PBNC-65 CNC Servo machine view
Charakterystyka

CNC Servo mandrel tube bender for tubes up to 63 mm in diameter

Working range up to 63 mm — the machine is designed for bending steel tubes with diameters up to 63



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mm.

Wall thickness up to 3 mm – enables work with steel tubes in fabrication and series production.

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

Servo control – increases accuracy, repeatability and ease of use in series production.

Mandrel technology – reduces tube flattening and helps maintain high bend quality.

Hydraulic mandrel – supports the tube internally, reducing the risk of deformation during bending.

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

100 programs in memory – the ability to save settings facilitates production of repeatable components.

Up to 15 bends in one cycle – the machine enables sequential bends according to programmed settings.

Stable 1,600 kg construction – the machine's high mass increases rigidity and stability when working with larger tube diameters.

Operating process

How does the PBNC-65 CNC mandrel tube bender work?

1

Part programming

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

2

Material stabilization

The hydraulic mandrel, hydraulic clamping and mandrel system stabilize the tube, reducing deformation



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during bending.

3

CNC Servo bending

CNC/PLC control and servo control support accurate bend production and repeatable sequential bends.

Applications

Where is the CESURBEND PBNC-65 CNC Servo suitable?

Series production

- Repeatable tube components.
- Steel components produced according to the program.
- Medium and larger production batches.

Fabrication and metalworking

- Frames, brackets and steel structures.
- Components made from steel tubes and profiles.
- Railings, handrails and utility 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-65 CNC Servo bender

Model **CESURBEND PBNC-65**

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

Control **CNC / PLC OMRON**

Screen **7" OMRON color touchscreen**

Program memory **Up to 100 programs**

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

Maximum tube diameter **63 mm – mild steel**

Maximum wall thickness **3 mm**



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Maximum bending angle **190°**

Maximum bending radius **250 mm**

Maximum hydraulic pressure **200 bar**

Bending speed **7–10 rpm**

Bending motor power **7,5 kW**

Hydraulic system power **4 kW**

Maximum tube / profile length **3500 mm**

Machine width **1450 mm**

Machine length **4250 mm**

Machine height **1200 mm**

Machine weight **1600 kg**

Equipment / features **Mandrel technology, hydraulic mandrel, hydraulic clamping, hydraulic guiding system, CNC / PLC OMRON control, servo control, program memory, sequential bends, high repeatability**

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