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CESURBEND PBNC-65A CNC Servo Tube and Profile Bender





CESURBEND PBNC-65A – CNC Servo mandrel tube bender for precision bending of steel tubes and profiles up to 63 mm in diameter.

CNC Servo Mandrel Tube Bender

CESURBEND PBNC-65A CNC Servo Tube and Profile Bender

Professional CNC Servo mandrel tube bender for 63 × 3 mm steel tubes with an extended 4000 mm loading length

CESURBEND PBNC-65A is an industrial CNC Servo mandrel tube bender designed for precision bending of steel tubes and profiles. The machine is well suited to serial production, fabrication plants, metalworking shops, installation businesses and the manufacture of parts where accuracy, repeatability and the ability to work with longer material are essential.

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



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Tubes up to 63 × 3 mm, 4000 mm loading length and a machine weight of 2000 kg.

PBNC-65A CNC Servo is an extended mandrel tube bender version for larger parts, serial production and repeatable industrial work.

Tube diameter **63 mm**

Wall thickness **3 mm**

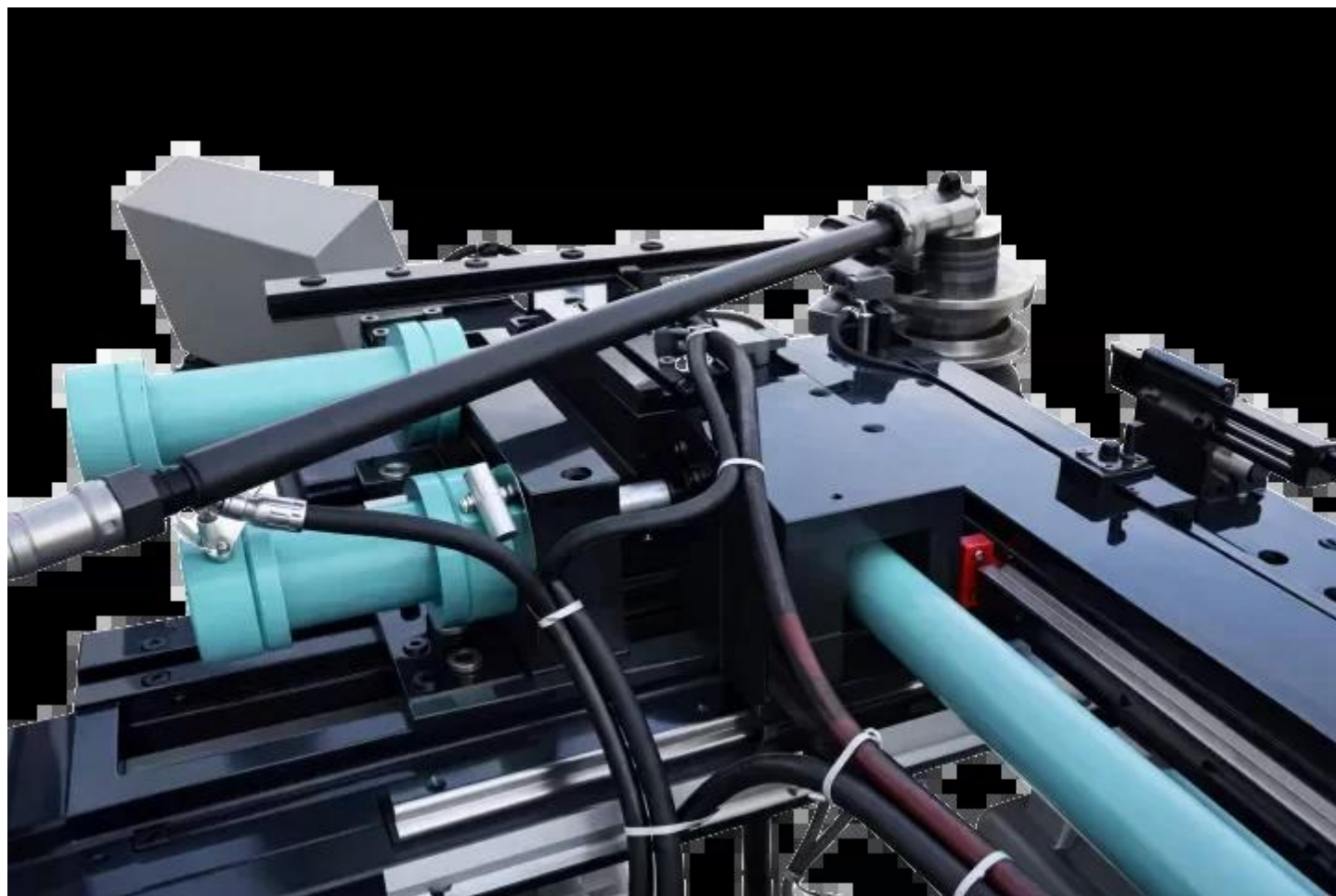
Bending angle **190°**

Loading length **4000 mm**

Product gallery

CESURBEND PBNC-65A CNC Servo mandrel tube bender photo

One machine photo is shown below: an overall view of the CNC Servo bender.



CESURBEND PBNC-65A CNC Servo machine view

Key features



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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 up to 63 mm in diameter.

Wall thickness up to 3 mm – suitable for steel tubes in fabrication and serial production.

4000 mm loading length – the PBNC-65A version allows work with longer tube and profile sections.

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

Servo control – increases accuracy, repeatability and operating convenience in serial production.

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

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

100 programs in memory – saving settings makes it easier to produce repeatable parts.

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

Stable 2000 kg construction – the machine's high mass increases rigidity and stability when working with larger tube diameters.

Working process

How does the PBNC-65A 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



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Material stabilisation

Hydraulic clamping and the mandrel system stabilise the tube, reducing flattening and deformation during bending.

3

CNC Servo bending

CNC/PLC control and servo control support precise bends and repeatable sequential bending.

Applications

Where is the CESURBEND PBNC-65A CNC Servo suitable?

Serial production

- Repeatable tubular parts.
- Steel parts made according to a program.
- Medium and larger production batches.

Fabrication and metalworking shops

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

Precision parts

- Tube-based installation components.
- Bends produced with high repeatability.
- Production of parts requiring CNC control.

Technical specification

Technical specifications of the CESURBEND PBNC-65A CNC Servo bender

Model **CESURBEND PBNC-65A**

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

Control **CNC / PLC OMRON**

Display **7" OMRON colour touchscreen**

Program memory **Up to 100 programs**



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

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

Maximum wall thickness **3 mm**

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 **4000 mm**

Machine width **1500 mm**

Machine length **6200 mm**

Machine height **1500 mm**

Machine weight **2000 kg**

Equipment / features **Mandrel technology, hydraulic clamping, OMRON CNC / PLC control, servo control, program memory, sequential bending, extended 4000 mm loading length, high repeatability**

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