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CESURBEND PBNC-90 CNC Servo Tube and Profile Bender

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CESURBEND PBNC-90 — a CNC Servo mandrel tube bender for precision bending of steel pipes and profiles up to 90 mm in diameter.

CNC Servo Mandrel Tube Bender

CESURBEND PBNC-90 CNC Servo Tube and Profile Bender

Professional CNC Servo mandrel tube bender for 90 × 4 mm steel pipes

CESURBEND PBNC-90 is an industrial CNC Servo mandrel tube bender designed for precision bending of larger-diameter steel pipes and profiles. The machine is ideal for serial production, fabrication plants, metalworking workshops, installation companies and components where repeatability, stability and bending accuracy are essential.

The **PBNC-90** model bends steel pipes up to **90 mm** in diameter with wall thicknesses of up to **4 mm**. Mandrel technology, hydraulic clamping, the OMRON CNC/PLC system and servo control help reduce material deformation and ensure high-quality bends.

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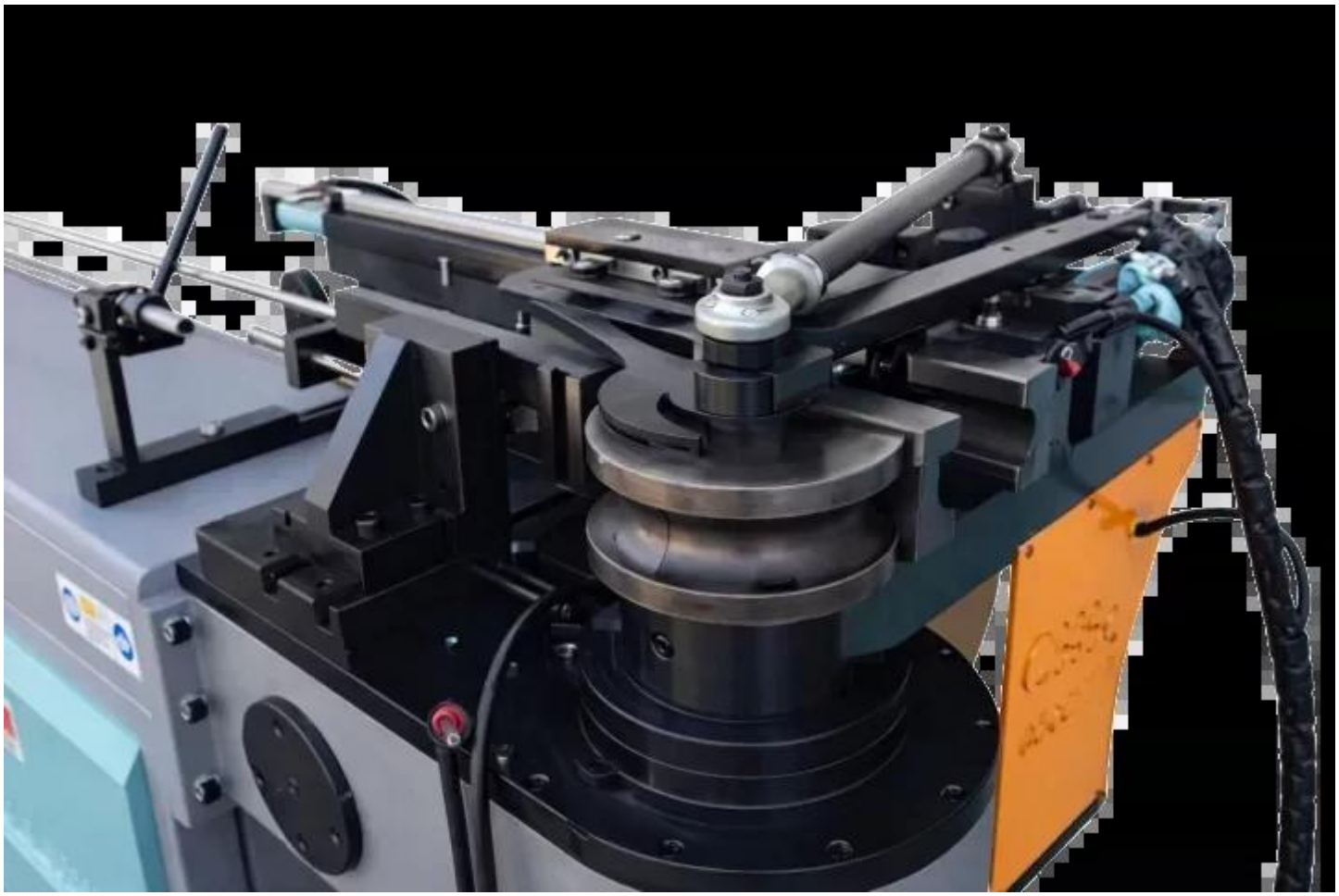
Pipes up to 90 × 4 mm, 15 kW bending power and a machine weight of 2650 kg.

PBNC-90 CNC Servo is an industrial mandrel tube bender for larger pipe diameters, serial production and repeatable work with steel components.

Pipe Diameter **90 mm**
Wall Thickness **4 mm**
Bending Angle **190°**
Bending Power **15 kW**
Product Gallery

Photo of the CESURBEND PBNC-90 CNC Servo Mandrel Tube Bender

One machine photo is shown below: a general view of the CNC Servo bender.



CESURBEND PBNC-90 CNC Servo machine view
Key Features

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CNC Servo Mandrel Tube Bender for Pipes up to 90 mm in Diameter

Working range up to 90 mm — the machine is designed for bending steel pipes up to 90 mm in diameter.

Wall thickness up to 4 mm — suitable for working with heavy-duty steel pipes in fabrication and industrial production.

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 pipe flattening and helps maintain high bend quality.

Hydraulic Clamping — stabilises the material during bending and improves component repeatability.

Direct Drive Gear System — provides powerful and stable drive transmission when bending larger diameters.

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 enables sequential bends according to programmed settings.

Stable 2650 kg Construction — the high machine weight increases rigidity and stability when working with larger pipe diameters.

Operating Process

How Does the PBNC-90 CNC Mandrel Tube Bender Work?

1

Component Programming

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

2

Material Stabilisation

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

3

CNC Servo Bending

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

Applications

Where Does the CESURBEND PBNC-90 CNC Servo Excel?

Serial Production

- Repeatable larger-diameter tubular components.
- Steel components produced according to a program.
- Medium and large production batches.

Fabrication and Metalworking

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

Precision Components

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

Technical Specifications

Technical Parameters of the CESURBEND PBNC-90 CNC Servo Bender

Model**CESURBEND PBNC-90**
Machine Type**CNC Servo Mandrel Tube Bender for Pipes and Profiles**
Control**CNC / PLC OMRON**

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Display**7” OMRON colour touchscreen**
Program Memory**Up to 100 programs**
Number of Bends per Cycle**Up to 15 sequential bends**
Maximum Pipe Diameter**90 mm — mild steel**
Maximum Wall Thickness**4 mm**
Maximum Bending Angle**190°**
Maximum Bending Radius**250 mm**
Maximum Hydraulic Pressure**200 bar**
Bending Speed**3–6 rpm**
Bending Motor Power**15 kW**
Hydraulic System Power**5,5 kW**
Maximum Pipe / Profile Length**4000 mm**
Machine Width**1300 mm**
Machine Length**4600 mm**
Machine Height**1400 mm**
Machine Weight**2650 kg**
Equipment / Features**Mandrel technology, hydraulic clamping, OMRON CNC / PLC control, servo control, Direct Drive Gear System, program memory, sequential bends and high repeatability**
Applications**Bending steel pipes and profiles, serial production, metalworking shops, steel structures, installations, railings, precision components and metal elements**