

CNC TUBE BENDING

5 AXIS CNC TUBE BENDER

The CNC Tube Bending machine is designed to deliver high accuracy, efficiency, and user convenience with its Five-Axis Electric Servo Control system. This system manages:

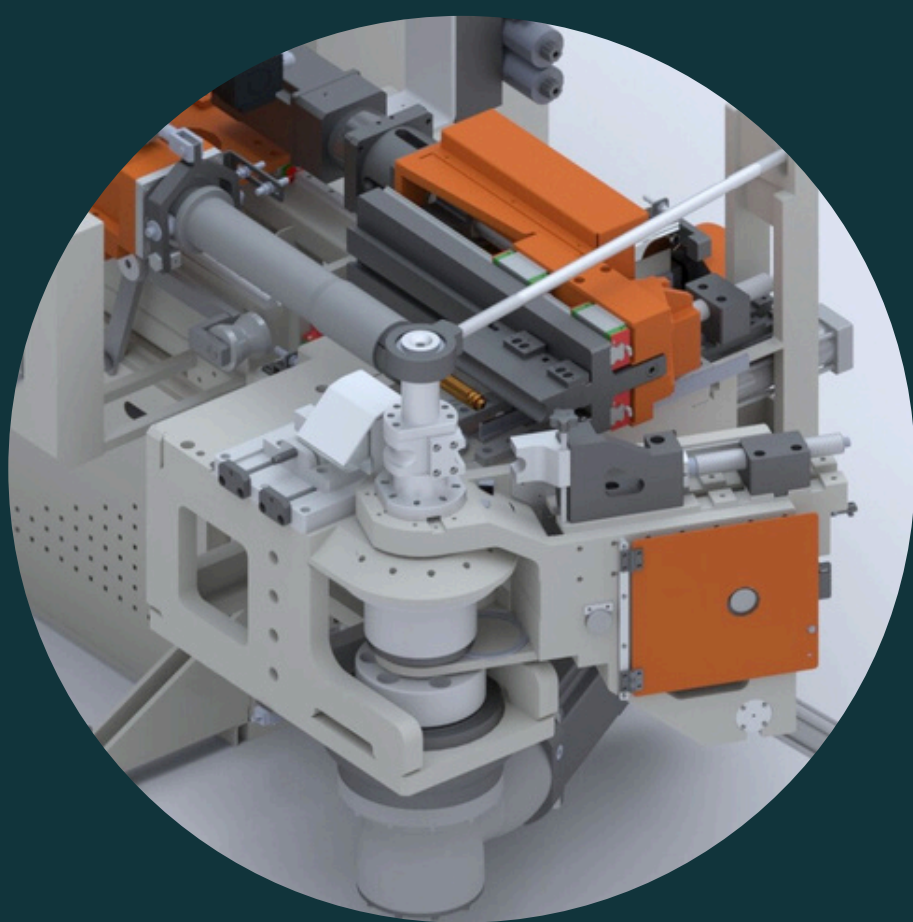
- Feeding
- Rotation
- Bending
- Horizontal movement of the bending head
- Tube surface pressure

Each axis operates independently with precise speed control, ensuring flawless synchronization during simultaneous movements. This guarantees exceptional results for both simple and complex bending operations.



Operator-Focused Features

- **Intuitive Control Unit:** The movable machine control unit enhances usability and allows operators to easily manage the system.
- **Protective Housing:** Electrical circuits and components are securely housed in custom-designed cabinets, providing durability and safety.
- **Safety Integration:** The system comes pre-equipped for safety mat connections to ensure operator protection during operation.



Key Features

- Five independent servo-controlled axes.
- Chain-free transmission for enhanced reliability.
- Single or multi-stack tube bending capabilities.
- Independent pressure die system for each bending stack.
- High transmission efficiency (90%+).
- Exceptional bending accuracy (+/- 0.05° to +/- 0.1°).
- Optimized working area with minimal interference.
- User-friendly CAD/CAM programming with 3D simulation.



Bending Capacities by Model

| Model | Bending Capacity |
|---------|------------------|
| SnrTB01 | Ø19 mm |
| SnrTB02 | Ø30 mm |
| SnrTB03 | Ø38.1 mm |
| SnrTB04 | Ø50.8 mm |
| SnrTB05 | Ø63.5 mm |
| SnrTB06 | Ø88.9 mm |
| SnrTB07 | Ø101.6 mm |
| SnrTB08 | Ø127 mm |

User-Friendly CAD/CAM Programming

The software simplifies the programming process with:

- A comprehensive program library with advanced filters for quick part selection.
- 3D simulation to visualize and validate designs before production.
- Automatic defect correction and guided design tools

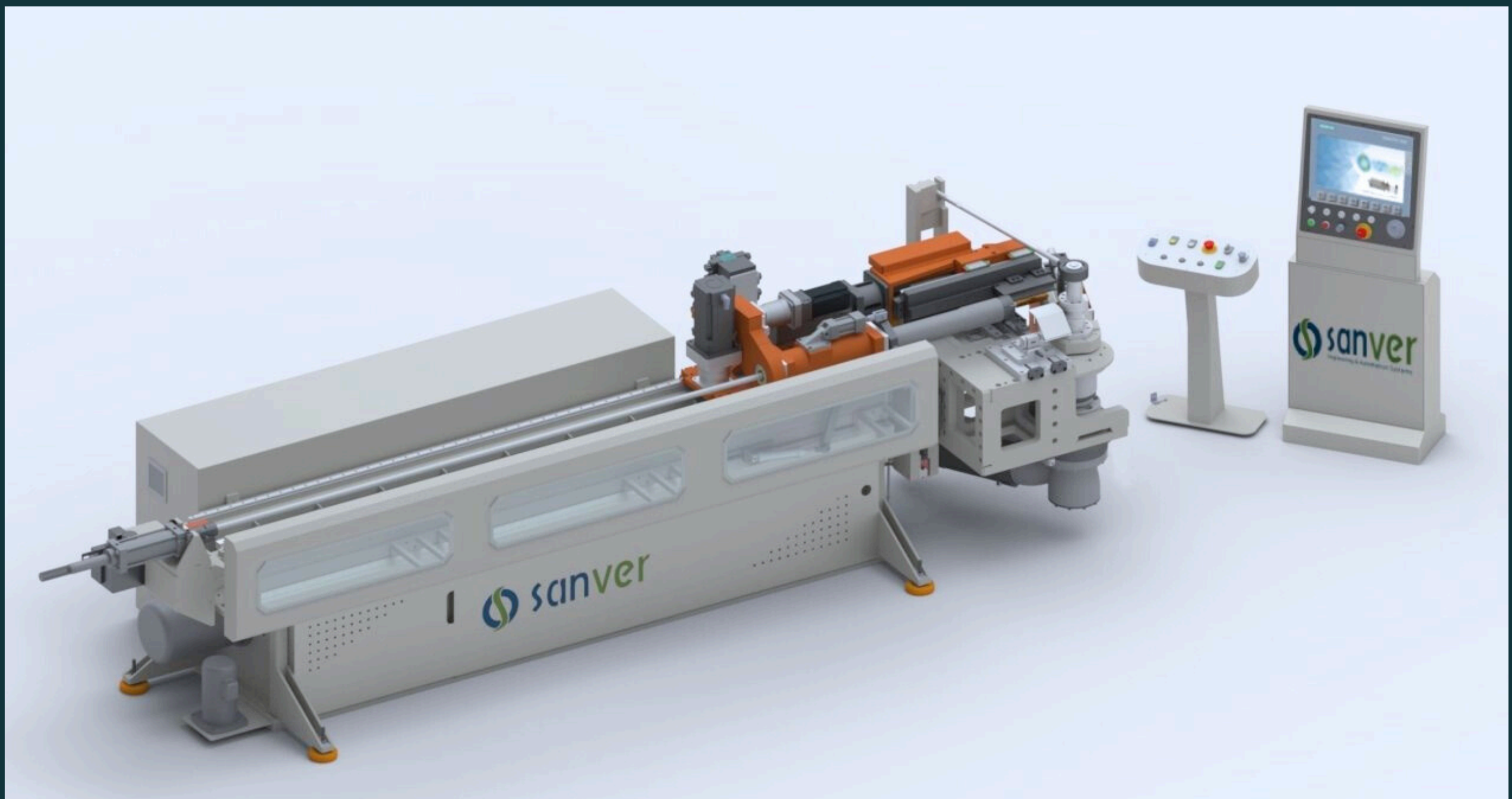
Operators can easily select pre-saved programs or create new workpieces, ensuring all bending parameters are accurately applied. The intuitive interface allows even less experienced operators to achieve professional-level results.

Productivity and Reliability

Unattended Operations with Safety: Advanced sensors automatically halt production if conditions become unsuitable, ensuring zero waste and consistent output.

Precision from the Start: Regardless of tube shape or material, the system ensures repeatability and geometric accuracy for every bent part.

Quick Tool Changeover: The quick-change tooling system allows operators to replace tools in just three minutes, ensuring minimal downtime and seamless production transitions.





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