

CNC tube bending center for the production of two and three dimensional bent parts from tube or bar stock



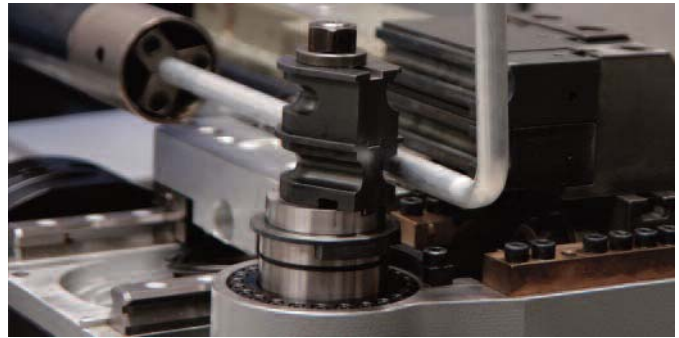
BMZ 52

BMZ 52

▼ Electro/pneumatic regulated part conveyance



▼ Multi-leveled tool with follow bar



Our service for your benefit

- Ultimate flexibility and a high degree of automation
- Highest output and quality
- Added value from superior and precise technology
- Perfected machine handling due to functional design
- Configurable machines according to product requirements

Design Features

Machine

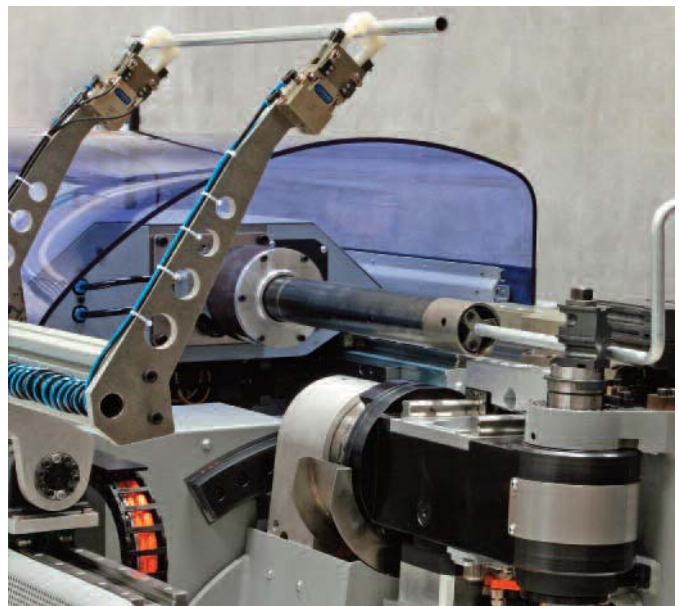
- Extremely high bending speed
- Interpolated axes reduce side-times
- New integrated loading unit with flexible positioning
- Automatic loading/unloading (also simultaneously)
- Tried and true fully-electric machine concept (designed for multi-shift operation)
- Manual input device

Control

- New WAFIOS programming system WPS 3.2 EasyWay
- Clear text programming of lengths, angles and coordinates
- Graphic user-interface
- User-controlled programming
- Bending simulation and interfaces to the peripherals

Bending Head

- Pivoting bending head
- Mechanically convertible for right or left hand bending (option for right and left hand bending in a single handling)
- Double mounted follow bar
- Stable and rigid tool mounts for highest bending accuracy
- Kinematics of the bending head allow for loading and ejecting
- Combined draw and free-form bending
- Simple and reproducible tool changes reduce re-tooling times
- Three-jaw chuck system allows for the clamping of end-processed tube
- Configurable to have up to 14 CNC axes
- Tools for mandrel-free bending



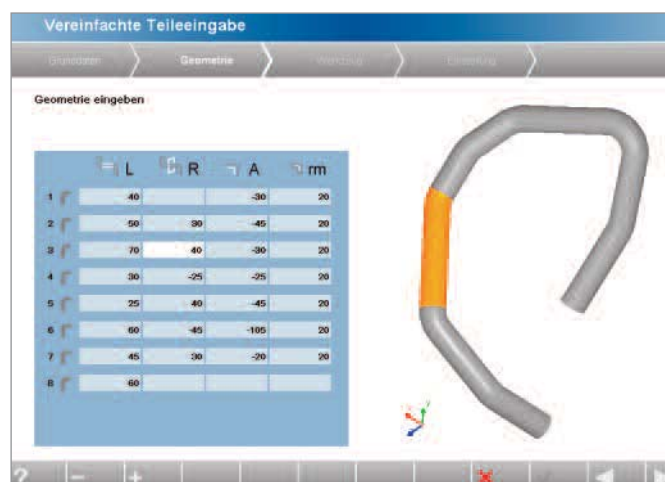
Flexible, Powerful and Functional - WAFIOS CNC-tube bending machine BMZ 52

Bending in a new dimension

The BMZ 52 combines mature and proven elements with a new powerful machine concept. The WAFIOS BMZ 52 sets new market standards in the production of complex bent parts made from cut-to-length and end-processed tube and bar stock.

The newly designed bending head with a pivoting clamp enables a high degree of automation right up to fully operative production cells with loading and unloading functionality. The double-mounted follow bar in conjunction with the stable and rigid tool mount is a guarantee of highest precision during bending operation. The integrated three-jaw chuck system can also accommodate end-processed tube. The WAFIOS BMZ 52 can handle all standard bending procedures on the market.

The basic assembly can be mechanically re-aligned for right or left hand bending, but the modular concept of the BMZ 52 may be configured for right and left hand bending in one handling.



▲ New WAFIOS programming system WPS 3.2 EasyWay for tubes

Quality

For more than 100 years the name WAFIOS has stood for the highest in terms of quality expectations, safety standards and technical innovation in German manufacturing systems engineering.

Reliability

Strict quality controls, state-of-the-art production systems and many years of experience guarantee that your investment is in safe hands. Our global service network ensures high availability of WAFIOS machinery.

Efficiency

High production output and a long service life will save money and shorten the amortization time of your investment.



▲ Three-jaw chuck system

Technical data		BMZ 52
Operating range	Tube dia. max (Al) Tube dia. max (steel) Standard lengths (suggested) With inner mandrel From rack	21,00 x 1,5 mm 18,00 x 1,5 mm 2,000 mm (Opt. 3,000) Up to 1,600 mm 100 - 2,000 mm
CNC axes	Standard/Maximum Bending head Rotation unit and feed Bending head positioning Inner mandrel device Follow bar device	6 / 14 axes 2 axes 2 axes 2 axes 1 axis (option) 1 axis (option)
Control	Programmable length/angle Coordinates Graphical visualization	Yes Yes Yes
Automation	Loading from rack Auto eject and stack Link to robotic arm	Standard Standard Optional
Weight		ca. 3,000 kg
Dimensions	(LxWxH in mm) (without rack)	3,300 x 1,200 x 1,475



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Precision machinery for wire and tube