WAFIOS

CNC Tube Bending Machine for the Production of Two- and Three-Dimensionally Bent Parts of Tube or Solid Material

RBV 35

RBV 35

▼ Right and left bending is enabled by traversing paths via two follow bars

▼ Intelligent tool system
▼▼ Bending head to be moved independently of the follow bar

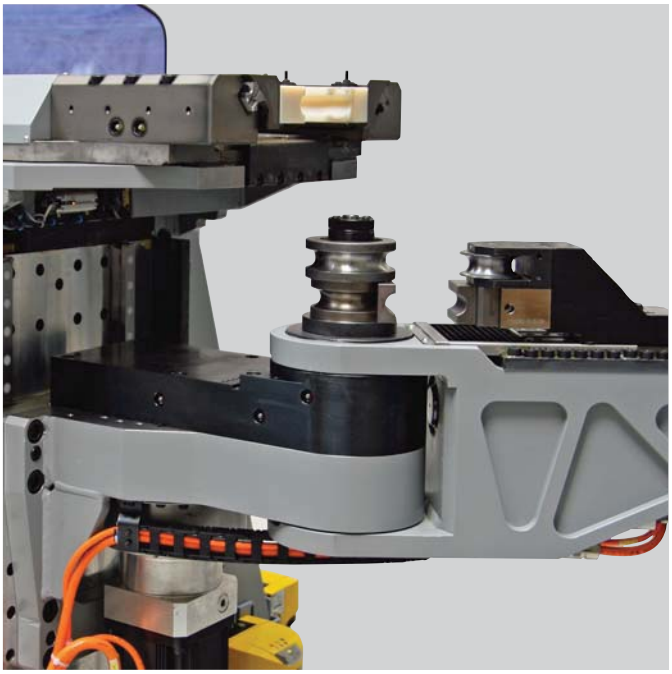
Design features

Machine structure
- Perfect harmony of functionality and design
- Very rigid machine design
- Right and left bending (option)
- CNC-control of all functions
- Fully electric drive concept
- Tube positioning with boost pressure function of advance feed unit
- Patented clamping concept for maximum degrees of freedom in the geometry of parts
- For tube diameters up to 35 mm
- High degrees of freedom for extreme bending geometries
- Standard machine with 8 interpolatable CNC axes
- Intelligent tool systems

Control
- New user interface **WAFIOS WPS 3.2 EasyWay**
- Intuitive control concept for the creation of a bending program in short and concise steps
- User-friendly touch screen with ergonomic control panel (option)
- Activity-oriented touch-screen user interface (option)
- Interactive graphical 3D programming of tubes
- Exactly repeatable bending results
- Definition of different user levels
- Functions for monitoring the machine status and maintenance intervals
- 3D simulation bending process *iQtube*® as option
- Software for external programming stations

Our accomplishments for your benefit

- Very rigid machine design ensures high quality of parts and high repeat accuracy
- Modular structure with standardized components enables economical stand-alone versions as well as fully integrated production cells
- Highly dynamic drive concept with interpolatable axes over all movements, intelligent tool system and new, patented clamping concept ensure high outputs



Dynamic, Robust and Economical – WAFIOS RBV 35 CNC Tube Bending Machine

A Power Pack Full of Innovative Technology

The WAFIOS RBV 35 CNC tube bending machine offers a very good cost/performance ratio for tube diameters up to 35 mm. Due to the machine's modular structure that uses standardized components, it can be produced at low costs. Moreover, the modular structure allows the expansion of the machine from a stand-alone solution to a fully integrated production cell. The enormous rigidity of the machine body ensures high quality of parts and repeat accuracy at all times.

The enormous rigidity of the machine body ensures high quality of parts and repeat accuracy at all times. The high output is enabled, on the one hand, by a highly dynamical drive concept in which all movements are interpolatable via axes. On the other hand, the innovative bending technology is found in the details. The intelligent machine concept requires only one stationary follow bar. The bending head is moved independently of the follow bar. The possibility to make right- as well as left-bending operations allows traversing via two follow bars.

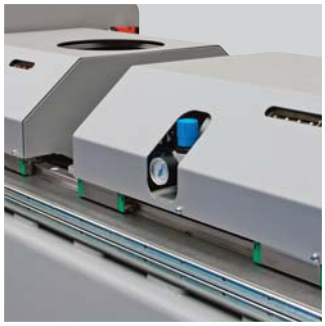
A new, patented clamping system has been implemented for the first time. The intelligent drive develops the ideal combination of speed and force. The reduction of the component size without any loss of efficiency enables maximum degrees of freedom in the geometry of parts.

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.

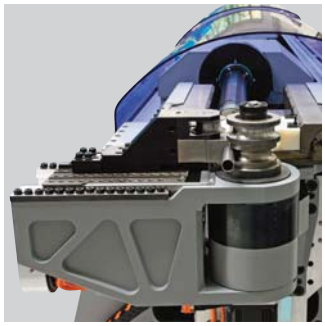
Reliability
Strict quality controls, state-of-the-art production systems and many years of experience guarantee that your investment is in safe hands. Our global service network ensures high availability of WAFIOS machinery.

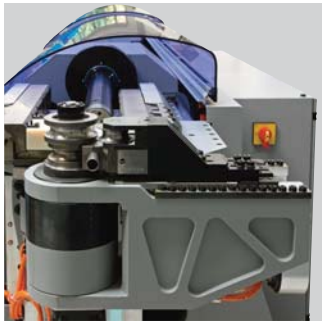
Efficiency
High production output and a long service life will save money and shorten the amortization time of your investment.

▲ Versatile connection possibilities



▲ Tube positioning with boost pressure function (booster) of advance feed unit





▲ Option: Left-hand- and Right-hand bending

Technical Data	RBV 35
Bending capacity	
Bending torque	6 kNm
Clamping force	52 kN
Boost pressure: advance feed unit	12 kN/24 kN
Bending geometry parameters	
Max. tube diameter	35 mm
Infeed length	2,500 mm (4,500 mm*)
Max. bending radius, rotary-draw bending	170 mm
Max. bending radius, free-form bending	endless
Max. bending angle	190°
Max. freely programmable traversing path of boost pressure unit	over entire machine length
Max. freely programmable traversing path of mandrel unit	over entire machine length
Bending procedures (rotary-draw and free-form bending)	
Bending directions	Right-hand/left-hand (option)
Bending levels	up to 3
Tool installation height	210 mm
Maximum speed	
Advance feed	2 m/s
Rotation	420° /s
Bending	165° /s
Axes accuracy	
Advance feed	+/- 0,05 mm
Rotation	+/- 0,05°
Bending	+/- 0,05°
Dimensions/Weight	
l x w x h mm	4,610 x 1,420 x 1,475
Weight	4,000 kg
Connection and consumption data	
Voltage	400 V
Frequency	50 Hz
Max. current consumption	18 A
Compressed air connection	6 bar
Max. compressed air consumption	10 l/min

* Option

WAFIOS Machinery Corp.
27 Northeast Industrial Road
Branford, CT 06405 USA
Phone: (203) 481-5555
Fax: (203) 481-9854
sales@wafios.us
www.wafios.us

Midwest Technical Center
9830 W. 190th Street, Unit D
Mokena, IL 60448 USA

Machinery for Wire and Tube

5076 US. - 09/15