

HighSpeed CNC Coiling and Bending Machine for the Production of Parts and Frames from Wire and Profiled Materials









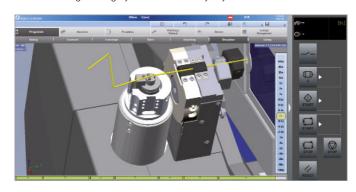
#### Our Accomplishments for your Benefit

- The highly dynamic drives and the 5-year license of iQsmartbend of the new BM HighSpeed series guarantee highest quality of parts and economic efficiency
- The machine's innovative design and new developments increase its dynamics while maintaining its well-known reliability
- The servomotor-driven displacement of the feed unit enhances the quality of parts and offers highest degrees of geometrical freedom due to variable bend-back clearances
- The high-end control WPS 3.2 EasyWay features an intuitive user interface, it reduces set-up times to a minimum and enables an easy production of complicated parts
- The HighSpeed series offers maximum flexibility and combines the following options in one modular concept: servomotor-displaceable feed unit, rotary straightening (BM 43 HS) and displaceable cutting unit (BM 43 HS)
- The new chamfering device without extraction unit ensures an economical production of wire parts with chamfered ends

# **Design Features**

- Newly developed, easy to maintain and more efficient feed unit
- Enhanced cutting unit with maximum bending freedom for geometries that require bend-back clearances
- Manual adjustment of feed unit on linear guides or servomotor-displaceable feed unit as an option
- The tubular wire guide and the displaceable feed unit increase process reliability and improve the machine performance when processing wire diameters smaller than 2 mm or soft materials.
- The light-weight bending head with low inertia guarantees high process speeds

▼ WAFIOS Programming System WPS 3.2 EasyWay



# **Control System**

- User-friendly and quick set-up due to hand-held operating device with touchscreen
- WAFIOS WPS 3.2 EasyWay user interface enables the programming of lengths, angles or coordinates
- Quick programming of tools, materials and bending programs

# WAFIOS Technology: For Those Who Demand the Best! Solutions for Process Optimization (iQs)

- iQwire: Real-time simulation for calculating cycle times and for collision control (option)
- *iQwire*<sup>+</sup>: Automatic calculation of a production process free from collisions, positioning of the table axis and optimized calculation of cycle times (option)
- iQinspect: Import/export of nominal geometry data and correction data from external measuring system to WAFIOS programming system WPS 3 (option)
- *iQbendcontrol*: Visual camera system for measuring and regulating bending angles (option)



# Variable, Flexible and Productive — WAFIOS CNC Bending and Coiling Centers BM

### Maximum Performance for your Parts

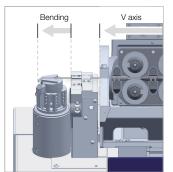
The BM HighSpeed series is the most efficient generation of machines for manufacturing bent wire parts of high complexity.

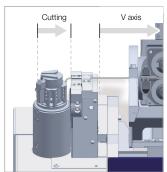
The HighSpeed machines, which include both highly dynamic drives and a 5-year license *iQsmartbend*, can be used to optimize unit costs across the entire range of parts. The high-end bending machine, equipped with intelligent software, optimizes all bending programs fully automatically based on its digital twin. As a result, die output of the BM 36 HS could be increased by up to 40%.

The BM series' great number of available options make it easy to customize to meet market requirements. The machine's modern and innovative design highlights the technological leadership of the new BM generation.

▼ Feed unit and straightening unit of the BM 36 HS







Servomotor-driven displacement of the feed unit for highest degrees of geometrical freedom

# Quality

For more than 125 years, the name of WAFIOS has been synonymous with highest quality, safety standards, and technical innovations in the German machine manufacturing industry.

# Reliability

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

# Cost efficiency

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

 $\ensuremath{\mathbb{V}}$  Chamfering device for the production of wire parts with chamfered ends







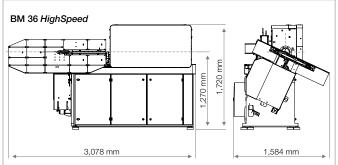
Technical Data	
	600 N/mm² 200 N/mm² 900 N/mm²
Extension of wire range diameter	(option)
Rotary angle, mandrel axis	
Angle of rotation of bending axis	
Bending head, up/down stroke	
Bending head transverse stroke	
Bend-back clearance	
Bending head positioning	(option)
CNC support plate, stroke	(option)
Feed speed	
Bending moment, tool holding fix	ture
Number of CNC axes	

BM 36 HighSpeed
2.0 – 6.5 mm 2.0 – 4.5 mm 2.0 – 3.6 mm
From wire Ø 1.5 mm
Infinite
Infinite
+10 mm / -80 mm
+40 mm / –40 mm
160 / 500 / 800 / 1,100 mm
Option: Infinite adjustment via CNC axis
+30° fix
+25 mm / -200 mm
max. 140 m/min
ca. 180 Nm
7 (max. 14 as an option)

BM 43 HighSpeed
3.0 – 8.0 mm 3.0 – 5.0 mm 3.0 – 4.3 mm
From wire Ø 1.5 mm
Infinite
Infinite
+18 mm / –122 mm
+60 mm / -60 mm
200 / 500 / 800 / 1100 / 1,400 mm
Option: Infinite adjustment via CNC axis
+25° fix
+25 mm / -235 mm
max. 140 m/min
ca. 225 Nm
7 (max. 17 as an 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 WAFIOS Machinery Corp. 9830 W. 190th Street, Unit D Mokena, IL 60448 USA

Precision Machinery for Wire and Tube