CNC Coiling and Bending Machines for the Production of Torsion Springs
Newly designed rotary infeed system with two pairs of feed rollers

Tool change and setup time is minimized thanks to the fixed and automatically approachable tool positions

Our Offer – Your Benefit

- Cost-optimised solution
- High flexibility creates market opportunities and an extremely wide variety of possible uses
- Zero-error production

Design Features

Machine Structure
- Standard version with 6 CNC axes (rotary infeed / coiling wire guide / compound table / rotary unit)
- Swiveling roller straightener
- Additional rotary units (optional: max. 2)
- Switch mandrel attachment (optional)
- High-performance control system for 8 CNC axes
- Innovative machine design with full consideration of ergonomic design aspects
- Maximum upgrade level: 8 CNC axes

Compound Table
- Enables eccentric working without additional tooling requirements
- Cartesian table axes aligned to vertical plane
- Coiling, bending and cutting tools are positioned on the compound table (positions can be stored in memory).
- Additional setup positions for shortening of tool adjustment travel

Software
- Includes the latest version of the tried and tested control software WAFIOS WPS 3.
- Clearly laid out and simple menu controls for user-friendly operation via the touch screen.
- New: iQspring® automatically ensures the optimal positioning of tools.
- Thanks to the automatic controls, tool change and setup time is significantly reduced.
- Continuous monitoring of machine status and service intervals
Redefining Productivity

The WAFIOS FMK is designed for the production of torsion springs and offers new technical solutions for increased productivity and cost optimization.

The Cartesian compound table is a completely new design. Even though it only requires two CNC axes, it can virtually match all of the functions of conventional spring coiling machines.

The latest version of the WPS 3 control software offers machine operators completely new tool setup options. As well as automated tool positioning on the compound table, it also offers tool configuration options.

The WAFIOS FMK range is available in two basic versions for wire diameters of 0.6 – 2.0 mm and 1.2 – 3.2 mm.

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.
Technical Data | FMK 2 | FMK 3
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Wire dia. (for 2,000 N/mm²) | 0.6 - 2.0 mm | 1.2 - 3.2 mm
Axes | 6 (max. 8) | 6 (max. 8)
Feed speed | 100 m/min. | 85 m/min.
Bending torque (rotary unit) | 5.2 Nm | 23.8 Nm
Bend-back clearance, max. | 100 mm | 150 mm
Rotary angle | infinite | infinite
Compound table traversing distances | max. 140 mm | max. 200 mm
Output up to ca. | 120 pcs/min | 85 pcs/min
Dimensions l x w x h mm | 1,970 x 1,410 x 2,065 | 3,000 x 2,300 x 2,400
Weight | ca. 2,100 kg | ca. 3,800 kg

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Precision Machinery for Wire and Tube