

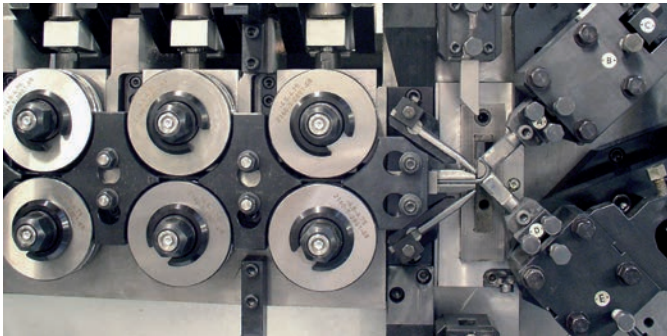
Electronic Spring Coiling Machine for the Production of Compression Springs



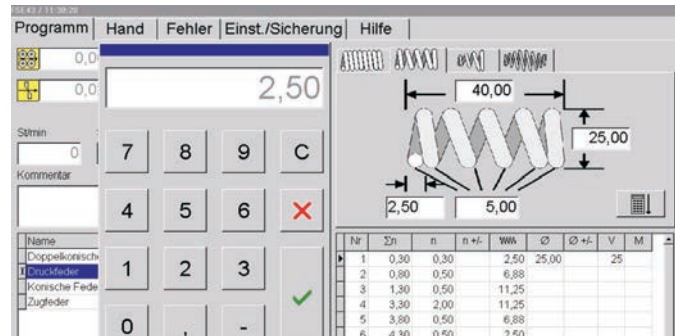
Series
FSE

Series FSE

▼ Tool room FSE



▼ DIN spring, simplified input using the FSE programming system



Design Features

Machine Structure

- Clear machine structure
- State-of-the-art machine drive with 6 - 8 CNC axes
- Powerful wire feed
- Rigid 2-finger coiling unit for minimum production tolerances
- Robust cutting unit for straight cut and torsion cut
- High production output
- Simple maintenance and repairs
- PTP Coiling finger

Short Tool Change and Setup Time

- Easy tool access
- Fast changeover from left- to right-handed coils
- Intuitive machine controls with touch screen control panel

Software

- User-friendly and easy-to-learn operating software
- Simplified spring input for shortest setup times
- SPC evaluation enables verification of a zero reject rate
 - in production
- Capacitive spring length measuring device
- Optional measuring camera



Quality, Reliability and Efficiency – WAFIOS FSE Spring Coiling Machines

Redefining Productivity

Designed for the production of compression springs, the WAFIOS FSE range offers a cost-optimized solution for manufacturing all standard types of compression springs, and has so far provided a reliable and tried-and-tested service to hundreds of satisfied customers all around the world.

The reliability of the machines ensures smooth and trouble-free production – not only because any standstill time is reduced to a minimum, but also thanks to the high repetition accuracy which delivers perfect production results time after time.

With easy setup and straightforward handling, tool change and setup time is minimized and machine availability is increased to its full potential.

Quality

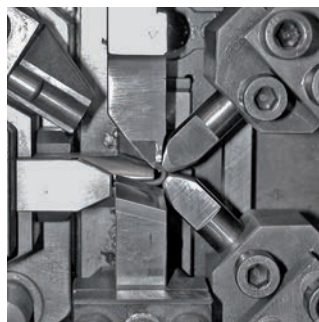
For more than 125 years, the name of WAFIOS has been synonymous with highest quality, safety standards, and technical innovations in the German machine manufacturing industry.

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.

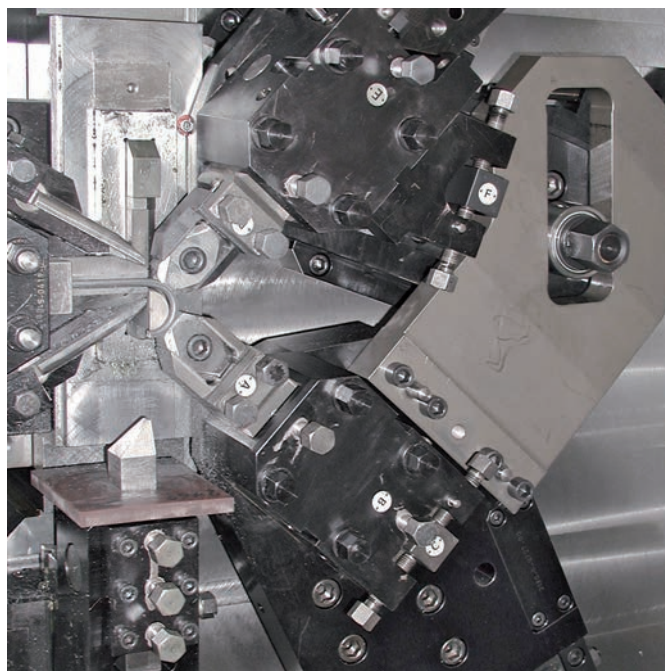


▲ Torsion cut



▲ User interface for the SPC evaluation

▼ Left-handed coils, FSE series



Technical Data	FSE 15	FFE 143
Wire diameter: [mm]	0.12 – 0.8 mm	6.1 – 16.0 mm
Spring diameter, max.: [mm]	20 mm	240 mm
Feed speed, max.: [m/min.]	150 m/min.	70 m/min.
Springs, max.: [pcs/min.]	750 pcs/min.	50 pcs/min.
Rings, max.: [pcs/min.]	800 pcs./min.	---
Abmessungen: (l×w×h) [mm]	900 × 900 × 1,700 mm	3,200 × 3,500 × 2,700 mm
Weight: [kg]	ca. 700 kg	ca. 18,000 kg
Rm: [N/mm ²]	2,600 N/mm ²	Ø 14 mm 1,800 N/mm ²
		Ø 16 mm 1,400 N/mm ²



WAFIOS AG

Silberburgstraße 5
 72764 Reutlingen, Germany
 Phone +49 7121 146-0
 Fax +49 7121 146-250
 sales@wafios.de
 www.wafios.com

Precision Machinery for Wire and Tube