

Electromechanical Ring Coiling Machines for the Production of Rings from Profile Wire



Series
SNA

Series SNA

▼ Programmable multi-roller coiling system for the production of a wide range of different ring geometries

▼ CNC cutting module with cutting force of up to 120kN



Design Features

Machine Structure

- High-precision feed rollers (2 pairs of feed rollers)
- Quick clamping mechanism for feed rollers
- Vertical positioning axis for the cutting module
- Cutting device with a cutting force of up to 120 kN
- Programmable multi-roller coiling system with linear guidance for the production of right-handed rings with circular or variable/oval ring diameters
- Pitch device for the production of wave or multi-layered rings
- Maximum upgrade level: 6 CNC axes

Control/Software

- Programmable control system which acts similarly to an electronic gearbox for synchronization of feed, shape and cut
- The speed of each CNC axis can be individually adjusted in order to maximize output
- Plain-text user guidance via the control panel
- WAFIOS programming system WPS 2/3 enables fast and easy input of tool and geometry data
- Continuous monitoring of machine status and service intervals

Quality and Reliability

- Failure monitoring via laser scanning device
- Integrated sensor systems for process-monitored production
- Optionally available with modern-based remote software support and diagnostic support (Teleservice)



Versatile, Powerful and Profitable – WAFIOS SNA Electromechanical Ring Coiling Machines

A New Dimension of Rings and Springs

The SNA series is designed for the production of high-precision technical rings, made in single or multiple layers from profile material, and offers users incredible versatility in terms of the number of different and varied potential applications it is suitable for.

A special pitch device is also optionally available which can be used to create wave rings. With the aid of the multi-layer production layout, it is possible to manufacture corrugated springs. Despite their compact design, corrugated springs are characterized by high spring pressure, offering a wide range of potential applications for spring manufacturers and the processing industry in the future.

The horizontally mounted feed improves quality in terms of feed forces and slip of the profile material. The vertically arranged cutting module at the top with punch and die allows a range of different contour cuts to be manufactured. The rigid multi-roller coiling unit with up to 5 coiling rollers achieves highest precision on the ring diameter, which can be programmed to be either circular or oval depending on the requirements.

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.



▲ Horizontally mounted CNC feed



▲ Production of wave rings using the pitch device

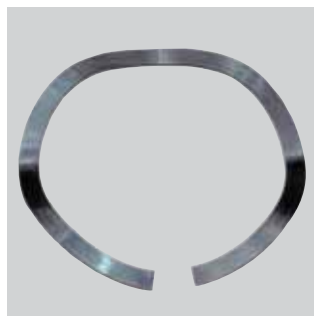


▲ SNA 22



▲ User-friendly control thanks to the WAFIOS programming system **WPS 3** (SNA 33)

Technical Data	SNA 22	SNA 33
Minimum profile cross-section:	ca. 1.0 x 0.5 mm	ca. 2.5 x 0.6 mm
Maximum profile cross-section, at 2,000 N/mm ² : Maximum profile cross-section for wave rings or 2-layered rings:	up to 4.0 x 1.5 mm up to 4.0 x 1.25 mm	up to 8.0 x 3.0 mm up to 8.0 x 1.0 mm
Min. outer ring diameter: Min. outer ring diameter for wave rings:	ca. 15 mm ca. 20 mm	ca. 45 mm ca. 50 mm
Max. outer ring diameter: Max. outer ring diameter for wave rings:	ca. 120 mm ca. 80 mm	ca. 320 mm ca. 250 mm
Max. feed speed:	120 m/min.	100 m/min.
Output (depending on strip-material feed length):	max. 250 strokes/min.	max. 175 strokes/min.
Max. cutting force:	45 kN	120 kN
Installed output:	ca. 8 kW	ca. 16 kW
Space required (l x w x h in mm) (without wire pay-off)	1,300 x 1,600 x 2,100	1,550 x 1,800 x 2,200
Weight	ca. 2,100 kg	ca. 4,500 kg



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Precision Machinery for Wire and Tube