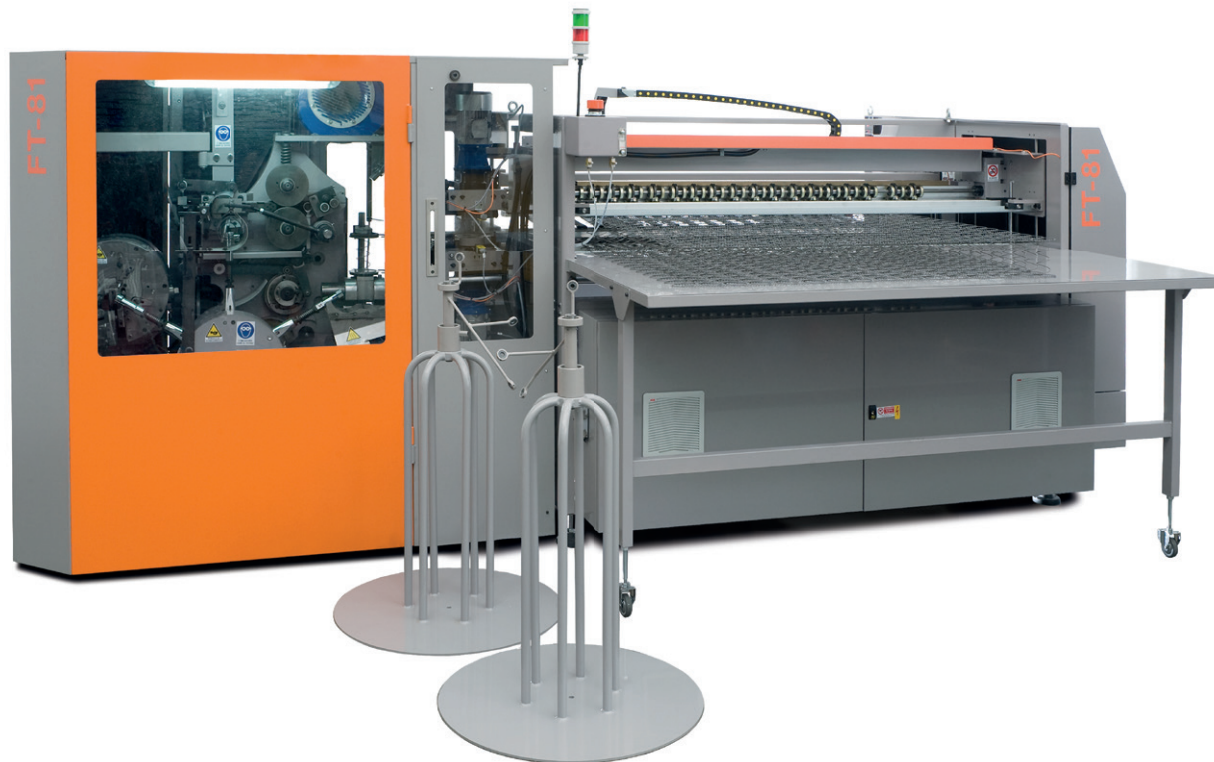


Transfer system for Bonnell spring units



FT-81

The FT-81 transfer system is a fully automatic, compact unit with a straightforward design that manufactures high-quality, completely finished Bonnell innerspring units.

In four processing steps, the wire, which is fed from the swift, is processed to a spring. After the coiling process, the springs are placed into a star-shaped, 6-arm transport wheel and are gradually advanced to the next step. On the front side, the spring ends are knotted into end rings and then heat-treated between two electrodes. This heating relieves the wire from the stress of the coiling process and therefore reduces the setting loss. The finished springs are picked up by a turning arm and the knots turn to the correct position. The springs are finally moved vertically into the conveyor channel and are gradually advanced. The feed rate corresponds to the spring spacing within the spring unit. During transport, the springs are turned from the horizontal to the vertical position. After the programmed unit width has been reached, i.e., the required number of springs has been loaded, the row will be pushed by a loading slider into the jaws of the assembly machine. Using a helical feeder on the left side, one row after the other is tied into an innerspring unit. The innerspring unit ejection on the operator side allows for optimal handling by the operator.

FT-81



The FT-81 consists of the following:

- Swift with wire end detection for up to 1,000 kg of wire
- Coiling machine
- Geneva motion unit with 6 arms
- Upper and lower knotting unit
- Heat treatment station
- Turning and delivery station to conveyor channel
- Insertion unit with loading slider
- 2 unwinders for helical wire
- Wire feeds with two helical coiling machines
- Helical cutting tools
- Upper and lower knuckling devices (end jaws)
- Forward-facing innerspring unit table

Options:

- Additional pairs of jaws available
- Conversion kit for production of Low Height
- Alternating system
- Furniture option (Duplex/Triplex)

Advantages / Special Features:

- Easy adjustment of end ring diameters in the knotting units
- The stacking device is equipped with the unique spring turning station
- 18 jaws included in the standard equipment. Each jaw can be used as a knuckling device
- Very fast and flexible setting of the unit width
- Very compact and small footprint

Working range

TECHNICAL DATA OF THE FT-81 AT A GLANCE

Type of springs	Bonnell
Spring dimensions	Spring end ring Ø (Dfi) 61 - 88 mm Number of jaws: 18 standard Jaw type 88 (Dfi 75 – 88 mm): max. 20 jaws Jaw type 74 (Dfi 69 – 76 mm): max. 24 jaws Jaw type 68 (Dfi 61 – 70 mm): max. 25 jaws (on request)
Spring height	4 turns low height 55 - 75 mm, 4 turns 75 - 120 mm, 5 turns 120 - 150 mm, 6 turns 140 - 160 mm, 7 turns 160 - 190 mm (on request)
Spring wire gauge	1.9 - 2.3 mm (Dfi 61 - 70 mm) 1.9 - 2.4 mm (Dfi 70 - 88 mm)
Helical wire diameter	1.3 - 1.4 mm
Working width	2'000 mm
Performance	up to 81 springs / minute (depending on spring dimensions)
Air consumption	approx. 0.4 m ³ / hour
Power consumption total	approx. 20 kVA
Power requirements	Voltage: 3 x 400 V, input fuse: 80 A or Voltage: 3 x 220 V, input fuse: 80 A (other Voltages on request) Frequency: 50/60 Hz
Working temperature	+10° C to +40° C
Weight	net approx. 5'200 kg (swift with safety mesh guard net approx. 730 kg)
Space requirements	Details and machine layout please visit: www.spuhl.com

CE The machine complies with CE safety standards

Subject to changes without notice. The machine will be set for one spring type only from its working range. Each additional modification of the actual coil specification (Dta, wire ø, turns, height etc.) may request additional tools.

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ISO 9001 and ISO 14001