

Pocket spring machine



FPC-105

The FPC-105 produces continuous strings of pocket springs.

The wire from the swift enters the wire section of the machine. It is fed through the heat treatment, where the wire is tempered. This heat treatment relaxes the springs from tense and prepares the wire optimally for coiling. The electronical coiling device forms the spring shape and loads the spring directly into the revolutionary cooling channel. The fabric roll is placed outside the machine. The setting station moves the spring into the fabric section, where the springs are placed precisely into the folded fabric. The longitudinal and transversal welding stations close the pockets around the springs and assure a high quality product. The conveying station transports the strings of pocket springs outside of the machine for further processing.

The touch screen panel with the user-friendly software allows a product change in a very fast way.

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The FPC-105 consists of the following:

- Swift with wire monitoring for max. 1'000kg of wire
- Heat treatment
- Electronical coiling machine
- Cooling channel
- Setting station
- Integrated material swift
- Material feed and folding unit
- 2 ultrasonic welding devices
- Touch screen panel
- Allows online help desk support

Advantages / Special Features:

- Extensive working range
- Very fast product change
- Electronical coiling device
- Divided into wire and fabric section
- Easy and fast change of fabric rolls
- Suitable for fabric rolls up to 1200 mm
- Exact alignment of the spring turns
- Cutting device (option)
- Double welding (option)

Working range

TECHNICAL DATA OF THE FPC-105 AT A GLANCE

Type of springs	Barrel / Cylindrical
Spring dimensions	Outer waist diameter Ø (Dta) 40 - 75 mm
Spring height	after setting: 100 - 260 mm pocket height: 70 - 230 mm
Spring wire gauge	1.3 - 2.2 mm
Performance	up to 100 springs/minute (depending on spring dimension)
Air consumption	approx. 6 m ³ / hour (at 6 bar)
Air pressure required	min. 6 bar
Power consumption total	approx. 16 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. 3'240 kg (Swift with safety mesh guard net approx. 700 kg)
Space requirements	Details and machine layout please visit: www.spuhl.com

 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