

# Automatic spring coiling machine for Bonnell springs



## MDC-80

The automatic spring coiling machine MDC-80 is a straightforwardly designed compact unit for producing Bonnell springs.

The wire, which is fed from the swift, is wound to a spring in four steps. After the coiling process, the springs are placed in the 6 star-shaped conveying arms and are then advanced in increments. The ends of the springs are knotted on the front into end rings and then heat-treated between two electrodes. This heat treatment relaxes the spring that has become tense from the coiling process and reduces the setting loss.

Finally, the completed springs arrive at the spring offload point, where they are uniformly stacked for further processing.

# MDC-80



## The MDC-80 consists of the following:

- Swift with wire monitoring for max. 1,000 kg of wire
- Coiling machine
- Geneva motion unit with 6 arms
- Upper and lower knotting unit
- Heat treatment station
- Offloading unit
- Run-out channel

## Options:

- Spring height minimum 55 mm
- Spring height maximum 190 mm

## Advantages / Special Features:

- No compressed air required
- Adjustable knotting device for easy adjustment of the spring diameter
- Protection cabin
- 2 eccentric packets for 4 - 5 or 5 - 6 coil springs are standard

## Working range

### TECHNICAL DATA OF THE MDC-80 AT A GLANCE

Type of springs	Bonnell
Spring dimensions	Spring end ring Ø (Dfi) 65 - 90 mm
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 65 - 70 mm) 1.9 - 2.4 mm (Dfi 70 - 90 mm)
Performance	up to 80 springs / minute (depending on spring dimensions)
Power consumption	approx. 14.5 kVA
Power requirements	Voltage: 3 x 400 V, input fuse: 50 A or Voltage: 3 x 220 V, input fuse: 90 A (other Voltages on request) Frequency: 50/60 Hz
Working temperature	+10° C to +40° C
Weight	net approx. 2'000 kg (Swift with safety mesh guard net approx. 680 kg)
Space requirements	Details and machine layout please visit: <a href="http://www.spuhl.com">www.spuhl.com</a>

**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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