

VKY Series

The new level of
bonnell production.

VKY Series always new for 35 years.



The unstoppable coiling machine for bonnell springs.

Veysel Kutuklu Mattress Machinery has developed the VKY Series, with the aspiration to provide a robust machine that can serve for many years mattress and spring unit producer. The first delivery of VKY Series began 35 years ago. The amazing detail: The machines delivered 35 years ago are still running without any stop.

The VKY machines can handle unlimited range of different bonnell springs thanks to their great flexibility. This machine is built to achieve highest productivity with the maximum speed in the production of bonnell springs.



Highlights of VKY 80

The VKY 80 is designed to achieve the highest productivity for the production of bonnell springs. The improved knotting systems, the automatic lubrication system and the digital heat treatment system are ensuring the best experience for the production of any type of bonnell springs. The VKY 80 achieves a lean and robust machine structure because of the usage of highest quality materials in every detail.

Highlights

Highest Level of Speed

- + The new design allows the maximum speed of 80 springs/min.

Efficient Knotting with Servo Motors

- + Both of the knotting systems are equipped with a servo motor that raises the speed and stability of the knotting process

Automatic Lubrication System

- + The automatic lubrication system ensures a periodic oiling of 20 points on the machine
- + The time frames for the periodic lubrication can easily set up on the display

More Flexible Production

- + Simple production of different types of bonnell springs with 4, 5 or 6 turns
- + Flexible and quick setting of the spring diameter

Digital Heat Treatment

- + The temperature can easily set up on the display
- + The heat treatment provides maximum durability to the springs
- + The heat treatment ensures that every spring is stress-relieved and strengthened
- + This process is eliminating sag of springs

More Transparency About Production Numbers

- + The production monitoring tool shows the daily production of bonnell springs
- + Flexible and quick adjustments of the spring diameter

Easy Handling on a Touchscreen Display

- + The user-friendly touchscreen display offers the best experience for the operation of the machine

Highlights of VKY 65

The VKY 65 provides an efficient and nonstop production of bonnell springs.

The stable production performance, the easy handling on a touchscreen display and the heat treatment system are ensuring the best experience for the production of any type of bonnell springs. The VKY 65 achieves a lean and robust machine structure because of the usage of highest quality materials in every detail.

Highlights

Continuous Bonnell Production

- + The VKY 65 allows the maximum speed of 65 springs/min.

Heat Treatment System

- + The heat treatment provides maximum durability to the springs
- + The heat treatment ensures that every spring is stress-relieved and strengthened
- + This process is eliminating sag of springs

More Flexible Production

- + Simple production of different types of bonnell springs with 4, 5 or 6 turns
- + Flexible and quick adjustments of the spring diameter

Easy Handling on a Touchscreen Display

- + The user-friendly touchscreen display offers the best experience for the operation of the machine

Technical Data

	VKY 65	VKY 80
Spring Type	Bonnell	Bonnell
Performance	65 springs/min.	80 springs/min.
Production Capacity	31.200 springs/8 hours	38.400 springs/8 hours
	70 mm - 96 mm	70 mm - 96 mm
Spring Outside Diameter	Standard Ø 80-92 mm, Max. 18 Jaws, 1.9-2.4 mm	Standard Ø 80-92 mm, Max. 18 Jaws, 1.9-2.4 mm
	Optional Ø 80-96 mm, Max. 18 Jaws, 1.9-2.4 mm Ø 70-78 mm, Max. 23 Jaws, 1.9-2.2 mm Ø 70-75 mm, Max. 25 Jaws, 1.9-2.2 mm	Optional Ø 80-96 mm, Max. 18 Jaws, 1.9-2.4 mm Ø 70-78 mm, Max. 23 Jaws, 1.9-2.2 mm Ø 70-75 mm, Max. 25 Jaws, 1.9-2.2 mm
Spring Center Diameter	40 mm - 55 mm	40 mm - 55 mm
	75 mm - 160 mm	75 mm - 160 mm
Spring Height Diameter	Standard 120 mm - 140 mm (5 turns)	Standard 120 mm - 140 mm (5 turns)
	Optional 75 mm - 120 mm (4 turns) 140 mm - 160 mm (6 turns)	Optional 75 mm - 120 mm (4 turns) 140 mm - 160 mm (6 turns)
Spring Wire Diameter	1.9 mm - 2.4 mm	1.9 mm - 2.4 mm
Spiral Wire Diameter	1.3 mm - 1.4 mm	1.3 mm - 1.4 mm
Power Consumption	approx. 10 kW	approx. 12 kW
Power Requirements	Three Phase 380V Frequency: 50-60 Hz, Input Fuse: 63 A Cable: 4 x 6 mm ²	Three Phase 380V Frequency: 50-60 Hz, Input Fuse: 63 A Cable: 4 x 6 mm ²
Working Temperature	0° C - 40° C	0° C - 40° C
Weight	2.400 kg	2.700 kg
Wire Basket Capacity	600 kg	1000 kg
Machine Dimensions (LxWxH)	450 x 180 x 180 cm	470 x 180 x 180 cm



Cam Unit (4, 6 Turns)

- + The optional cam units allowing the production of bonnell spring with 4 turns or 6 turns
- + The cam unit have to be replaced together with two gears
- + The standard equipment includes 5 turns cam unit



Span Centring Base

- + The span centring bases are placed at both of the knotting positions on the machine
- + The different options of span centring base sets allow the production of bonnell spring with different spring diameters
- + The working range for each set is limited to 3mm