

**VK**

Machinery that never sleeps.

# Endless Assembly Possibilities

**VKD Series- Automatic Bonnell  
Assembly Machine**



# VK Mattress Machinery

For the past 54 years, VK Mattress Machinery has been consistently providing the mattress and furniture industry with high-quality solutions and tools to help producers all over the world elevate their production quality and efficiency. The VKD machine is the new standard of bonnell assembling machines. It was designed to accomplish the highest productivity for the production of bonnell spring units.

Since 1968  
—  
Since 1968



The VKD machine offers an automatic lubrication system, an easy spring unit width changeover, and a very precise encoder system, all working to ensure the best experience for the production of any type of bonnell spring units.

\*The encoder and lubrication system are only available on the VKD x model

# Worldwide Presence

The VKD- Automatic Bonnell Assembly Machine has a worldwide presence, companies in Europe, Asia, Africa, South America and North America are all using VKD machines daily in order to assemble quality and strong bonnell spring units for their mattress and furniture needs.



# 20x long-lasting & Strong Jaws.

The VKD - Automatic Bonnell Assembly Machine comes equipped with a standard 18 modular and long-lasting jaws for the VKD 2000/x model, 16 for the VKD 1800/x model, and 7 for the VKD 1000/x model with the option of adding more jaws upon request to make the maximum total of jaws that can be added at 23 jaws\*.

\*The maximum jaw number that can be added is: VKD 2000/x = 23 | VKD 1800/x = 17 | VKD 1000/x = 10



120 **springs units/8h**

# Outstanding Performance

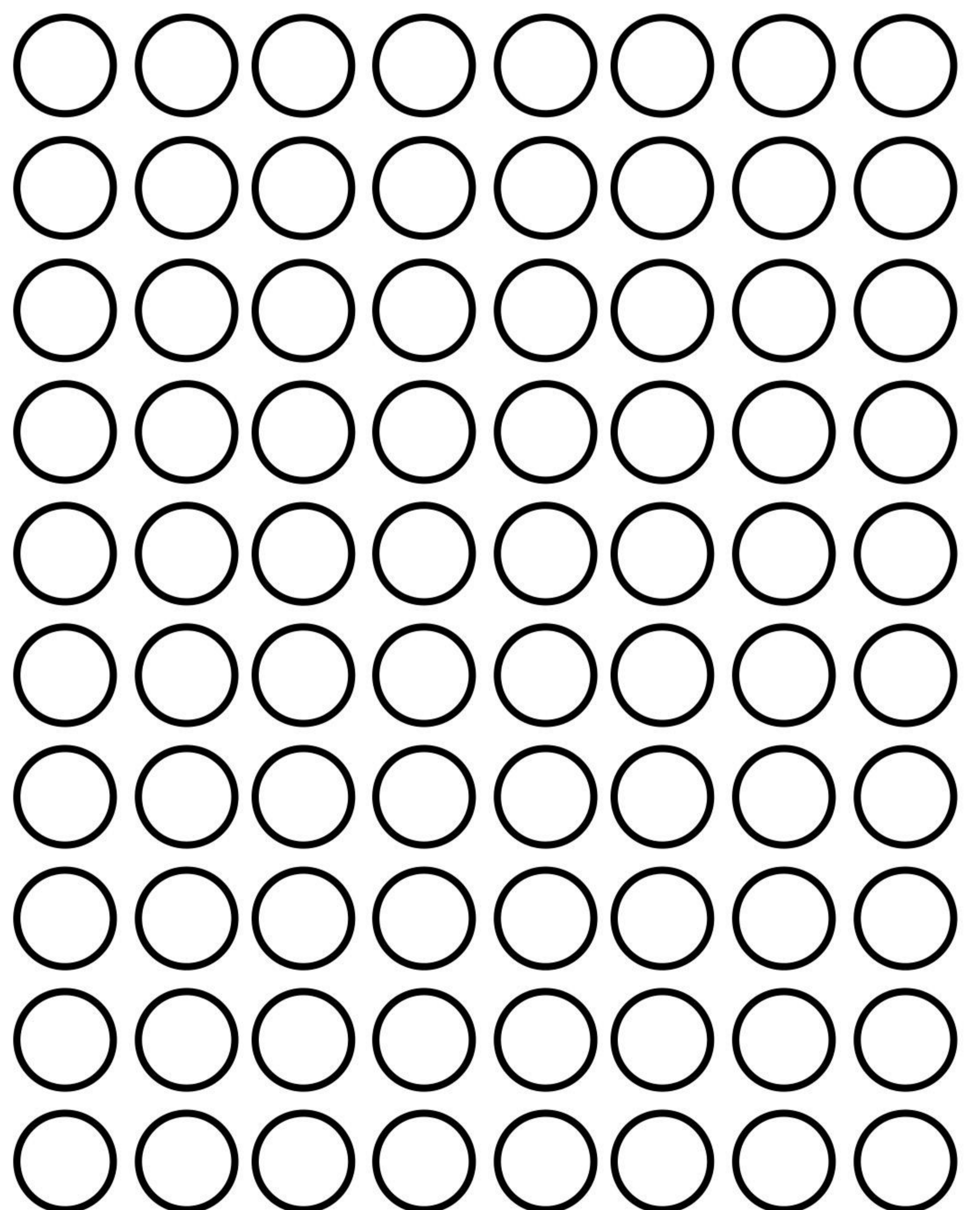
\*This production performance depends on the operator's skills.

\*\* This production results are only applicable using a 90x190cm | 8x24 springs sized mattress.

# Unprecedented Spring Unit Flexibility

Knowing the huge challenge during the production of different bonnell spring unit sizes, we needed to make sure that the changeover between all mattress sizes settings is done in a seamless manner. To set the desired size for your bonnell spring unit size you only need to change the positioning of the jaw system, which only takes couple of minutes, and makes the VKD machine revolutionary in term of size changes.

The VKD machine is benchmark in spring unit size changes, sofa and mattress manufacturers are switching between sizes daily without struggling for many hours like on other machines.



**One Machine,  
Limitless  
Possibilities**

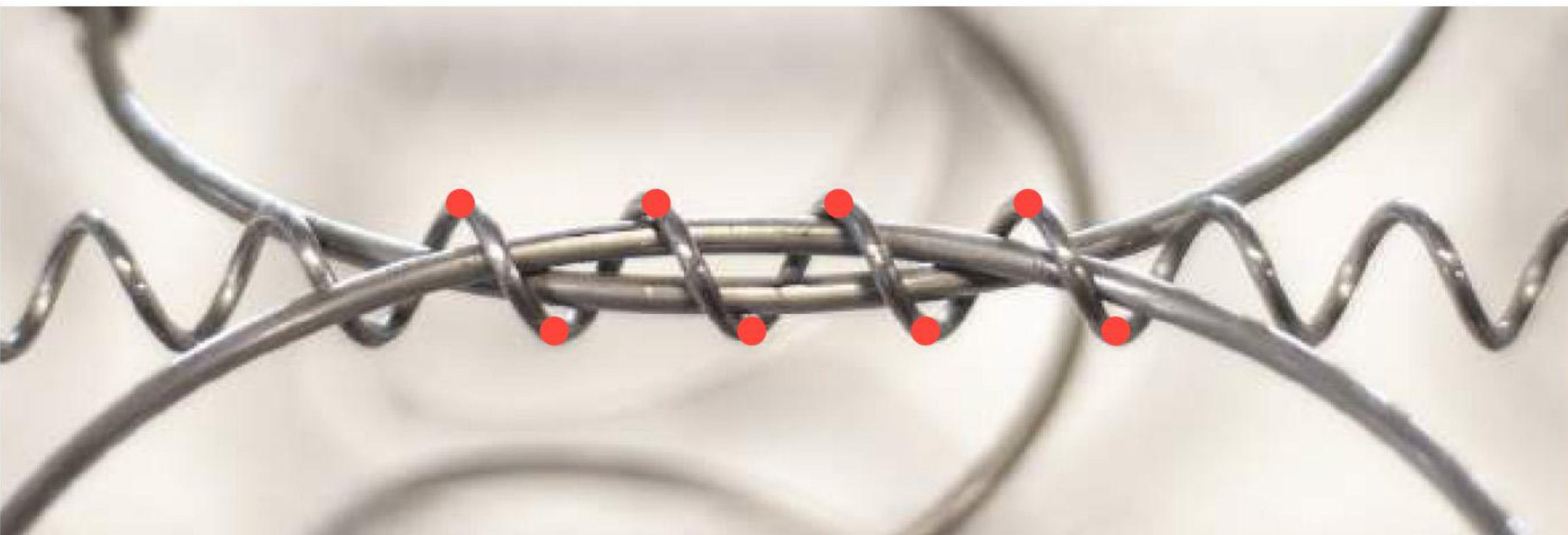
## × Ingenious Spiral Knotting Options

With excellent spiral knotting options there is a possibility to change the firmness of the springs units, the options are as follows:



— 4-5 Knotting System

The 4-5 knotting of the spiral wire allows to produce spring units with maximum firmness. This system reduces the range of motion for the bonnell springs.



— 4-4 Knotting System

The 4-4 knotting of the spiral wire ensures the production of spring units with medium firmness. This system allows a small degree of motion for the bonnell springs.

The working range of this knotting system is for springs in the diameter between 80-96mm and wire diameter between 1.9-2.4mm. This option is suitable for roll-packing the spring units.



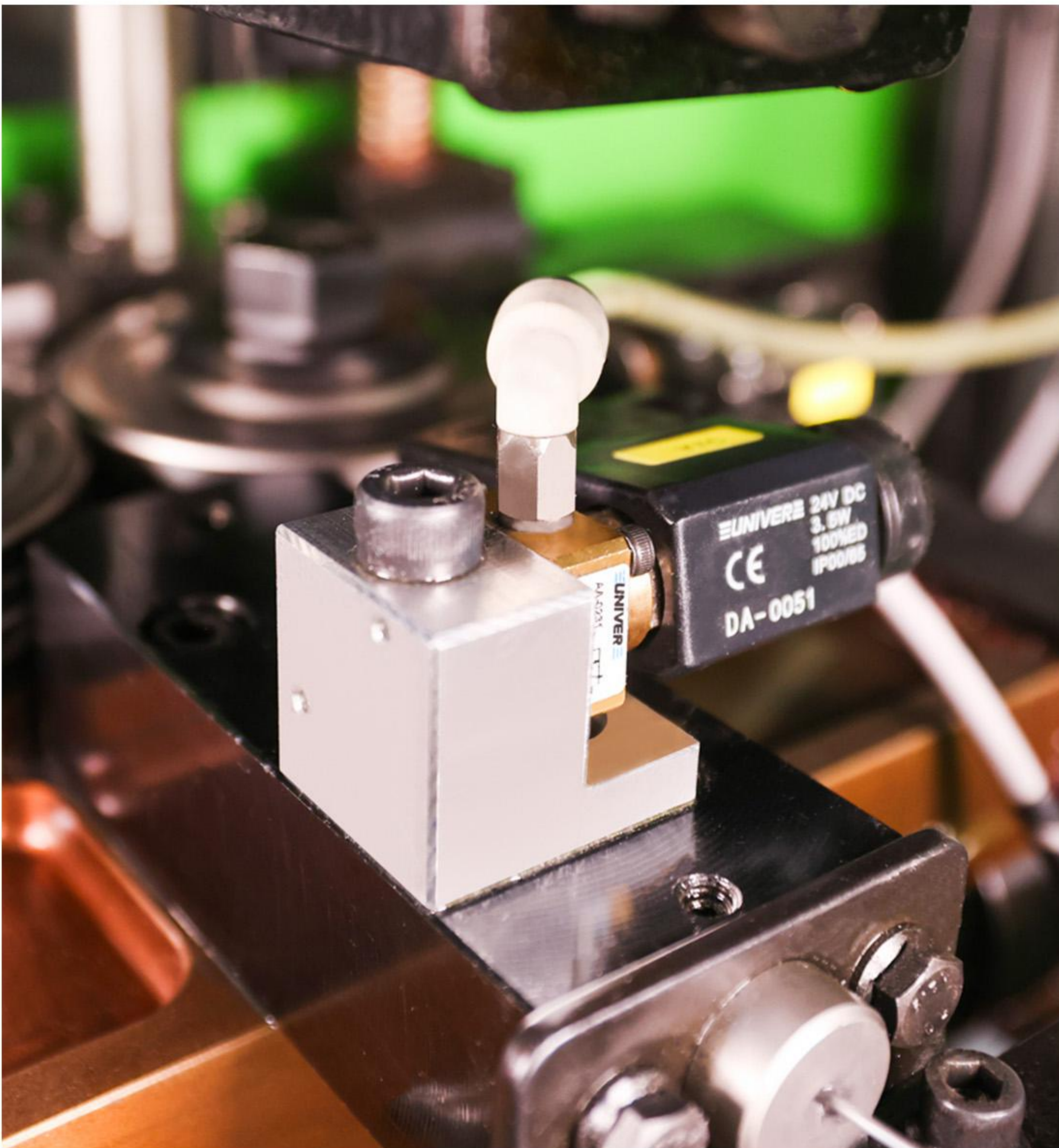
— 4-3 Knotting System

The 4-3 spiral wire knotting provides the production bonnell springs with maximum range of motion. This knotting system is designed for mini bonnell springs in the diameter 70-78mm and the wire diameter 1.9-2.2mm. This option offers the ideal solution to increase the number of springs on bonnell spring units.



**Elevate Your  
Bonnell Spring  
Unit Production**

# Outstanding Features.



— Spiral Wire Lubrication

## × Innovative Spiral Wire Lubrication

The automatic spiral wire lubrication makes sure the wire is continuously lubricated to avoid any friction and allow a smooth motion throughout the whole bonnell spring unit assembly process.

## × Assembly Slider Control Panel

The assembly control panel is located outside the assembly machine on a sliding mechanism that allows the use in any position of the machine, whether you are on the left or the right end of the machine. The control panel can be reached from any position for making adjustments on the spring unit sizes.

\*This feature is only available on the VKD x models

## × Production Flexibility & Transparency

Using the display located outside the machine, you are able to track and monitor your day-to-day production. It allows you to follow daily production numbers for bonnell spring units.

## × Precise Spiral Testing Tool

The spiral testing tool helps determine the pitch of the spiral wire and makes sure it's going through the jaw system and the bonnell springs fluidly.

## — Optional

## × Additional Jaws

Additional jaws can be installed on the machine to raise the number of the spring on the spring units. The maximum jaw capacity varies from the different VKD machine models

- VKD 1000/x: 10 Jaws
- VKD 1800/x: 17 Jaws
- VKD 2000/x: 23 Jaws

## × Easy-To-Use Touchscreen Display

The user-friendly touchscreen display offers the best experience for the machine operator to navigate between all the possible setting changes and customization for a unique production experience.

## × Spiral Encoder

The spiral encoder on the VKD machine gives you a very precise and accurate spiral wire measurement.

\*This feature is only available on the VKD x models

— Spare Part Kit

# Long-Lasting Spare Parts.



# Finest Quality

## × Components & Raw Materials

Although we have been producing all own mechanical parts in our factory since 1968, we do have other partners that we work with in order to provide our customers with the best quality possible, and make an even better machine for the mattress and furniture industry.



Japan



Germany



Turkey



Germany



Germany



Austria



Germany



Italy



Germany

## Technical Specifications

	<b>VKD 1000/x</b>	<b>VKY 1800/x</b>	<b>VKY 2000/x</b>
<b>Spring Type</b>	Bonnell	Bonnell	Bonnell
<b>Performance (approx.)</b>	28.500 springs/8h	28.500 springs/8h	28.500 springs/8h
<b>Spring Outside Diameter</b>	70 mm - 96 mm	70 mm - 96 mm	70 mm - 96 mm
<b>Spring Center Diameter</b>	40 mm - 55 mm	40 mm - 55 mm	40 mm - 55 mm
<b>Spring Height Diameter</b>	75 mm - 200 mm	75 mm - 200 mm	75 mm - 200 mm
<b>Spring Wire Diameter</b>	1.9 mm - 2.4 mm	1.9 mm - 2.4 mm	1.9 mm - 2.4 mm
<b>Spiral Wire Diameter</b>	1.3 mm - 1.4 mm	1.3 mm - 1.4 mm	1.3 mm - 1.4 mm
<b>Working Width</b>	1000 mm	1800 mm	2000 mm
<b>Standard Jaws</b>	7	16	18
<b>Max. Jaws</b>	10	17	23
<b>Power Consumption</b>	approx. 3,5 kW	approx. 3,5 kW	approx. 3,5 kW
<b>Power Requirements</b>	Three Phase 380V Frequency: 50-60 Hz, Input Fuse: 63 A Cable: 4 x 4 mm <sup>2</sup>	Three Phase 380V Frequency: 50-60 Hz, Input Fuse: 63 A Cable: 4 x 4 mm <sup>2</sup>	Three Phase 380V Frequency: 50-60 Hz, Input Fuse: 63 A Cable: 4 x 4 mm <sup>2</sup>
<b>Working Temperature</b>	0° C - 40° C	0° C - 40° C	0° C - 40° C
<b>Weight</b>	approx. 750 kg	approx. 1.050 kg	approx. 1.150 kg
<b>Wire Basket Capacity</b>	2x500 kg	2x500 kg	2x500 kg
<b>Machine Dimensions</b>	250 x 240 x 190 cm	330 x 240 x 190 cm	350 x 240 x 190 cm

## × Service & Spare Parts

VK Mattress Machinery's highest priority after every machine sale is to make sure we provide our customers the best after-sale experience, whether it's machine installation, training for the company's operators or spare parts, when it comes to the latter, we make sure we possess an extensive inventory that can serve our clients around the world as a supply for any replacement part needed for the VKD machine. On top of that we gladly offer convenient and express delivery options to reduce the down time of any machine.



— Service & Spare Parts

## × Remote Support Service

In case all our talented technicians are out on missions to support our customers with the needed mechanical or electrical work around the world, we do offer remote support for situations that doesn't require any presence from our technicians by providing a remote access solution that allows us to dig deep into any issue and solve it in the quickest timeframe possible. We are proud to say that 90% of the service requests we receive are solved in the most efficient way.

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The machines complies with CE safety standards.

**VK**

The information in this brochure contains only general descriptions and performance characteristics that may not always be as described or illustrated in a particular application. In addition, the products may have changed through further development. The desired performance features are only binding if they have been expressly agreed in writing upon conclusion of the contract.