

VK

Machinery that never sleeps.

Non-Stop Bonnell Production

**VKY Series- Automatic Bonnell
Coiling 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 VKY machine is designed to achieve the highest bonnell spring productivity and consistency.

Since 1968
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Since 1968



With a much improved knotting system, automatic lubrication system, and a digital heat treatment, the VKY machine packs amazing features that ensures the best experience for the production of any type of bonnell springs.

Worldwide Presence

The VKY - Automatic Bonnell Coiling Machine has a worldwide presence, companies in Europe, Asia, Africa, South America and North America are all using VKY machines daily in order to produce quality and strong bonnell bonnell springs for their mattress and furniture needs.

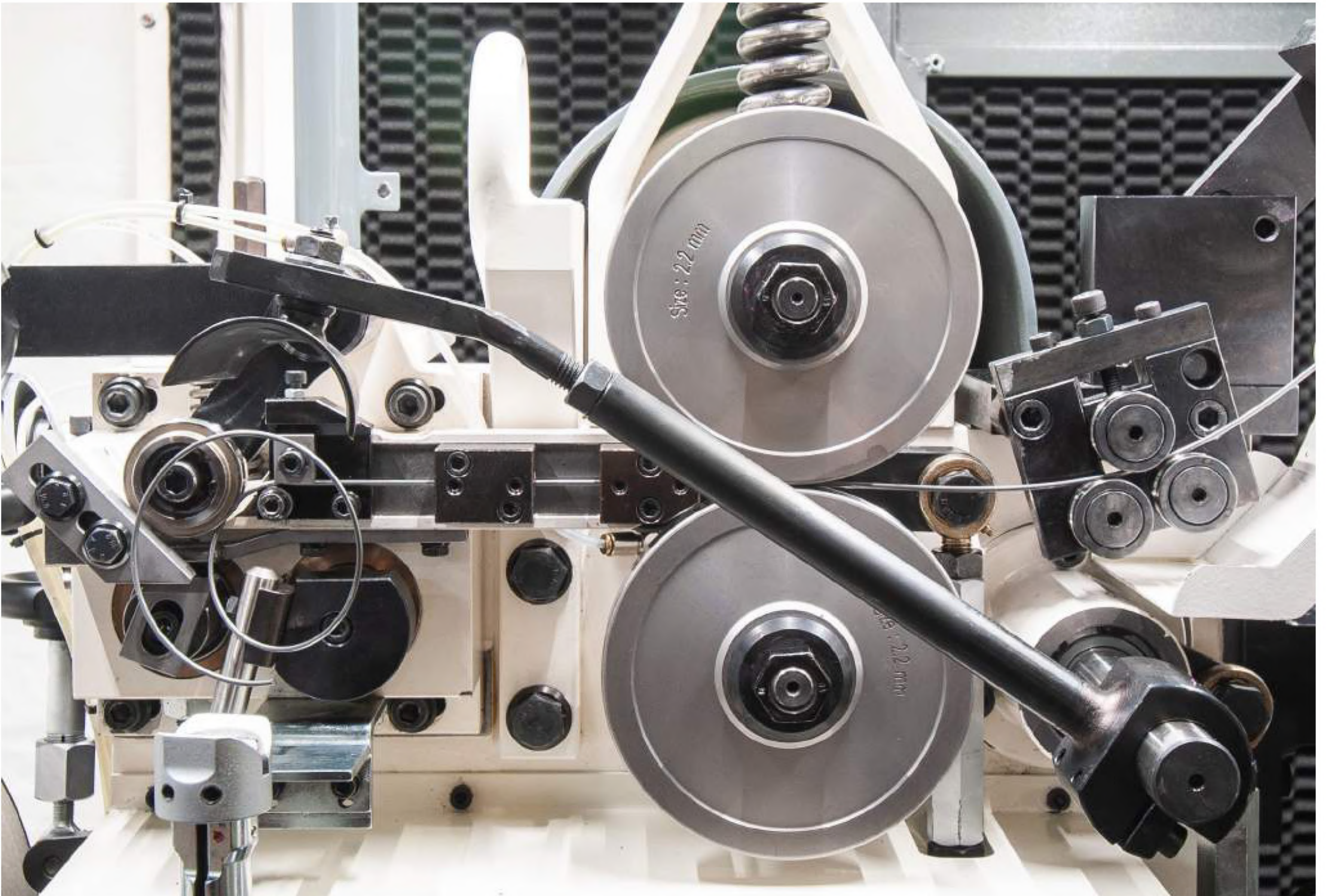


High-End Wire Cutting System

Wire cutting system with durable carbide cutting tools. These tools are made for the highest quality performance during the cutting process of millions of springs.

Strongest Wire Feeding Rollers

Designed using the strongest materials, our wire feeding rollers are proudly made in-house by our engineers to make sure they have a long lasting lifetime & durability, up to 10x more than normal wire feed rollers on the market.



Unrivalled Production Speed.

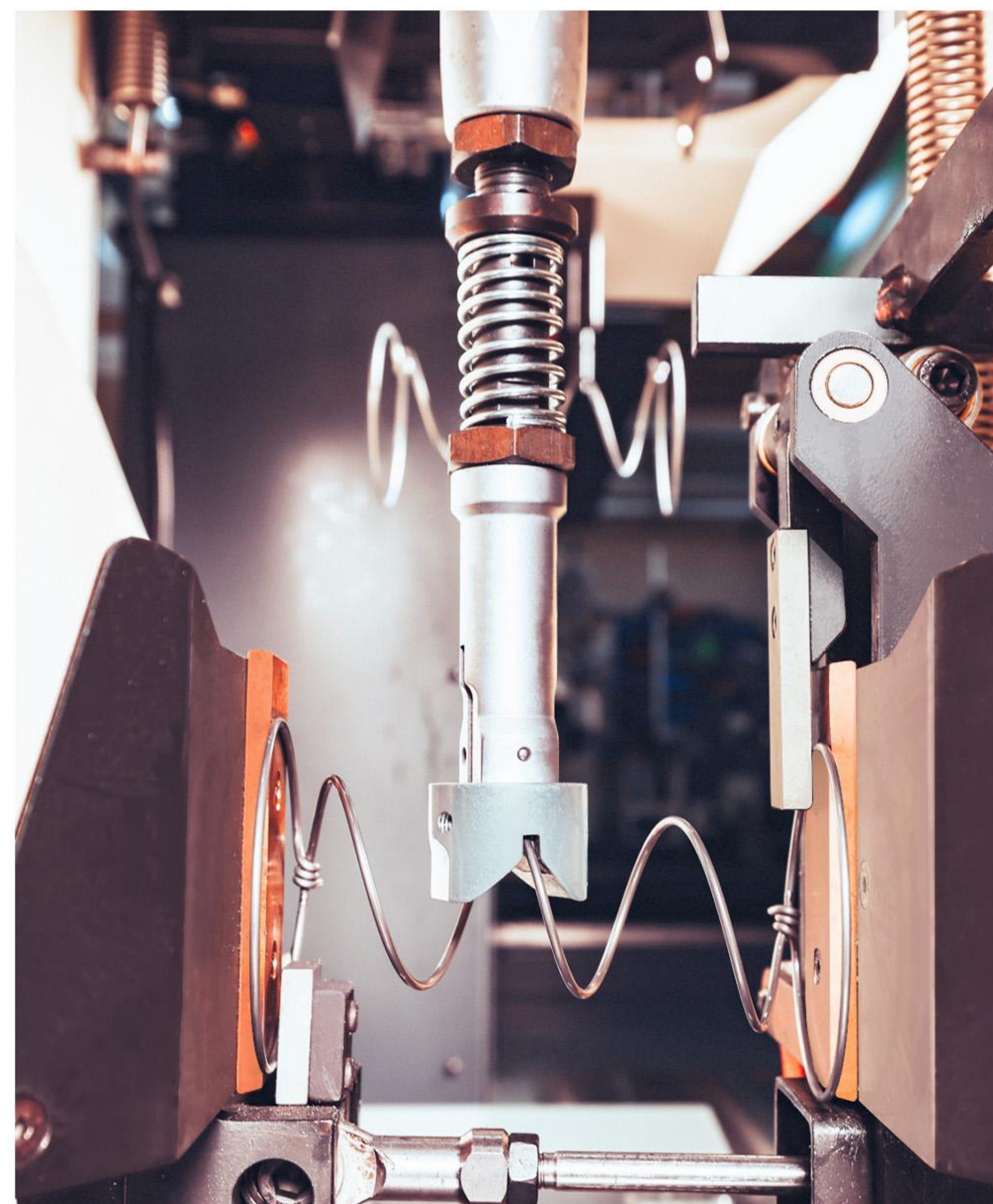
80

Springs/min

*This production speed is only possible using the VKY 80, the VKY 65 production speed is at 65 springs/min

× Digital Heat Treatment System

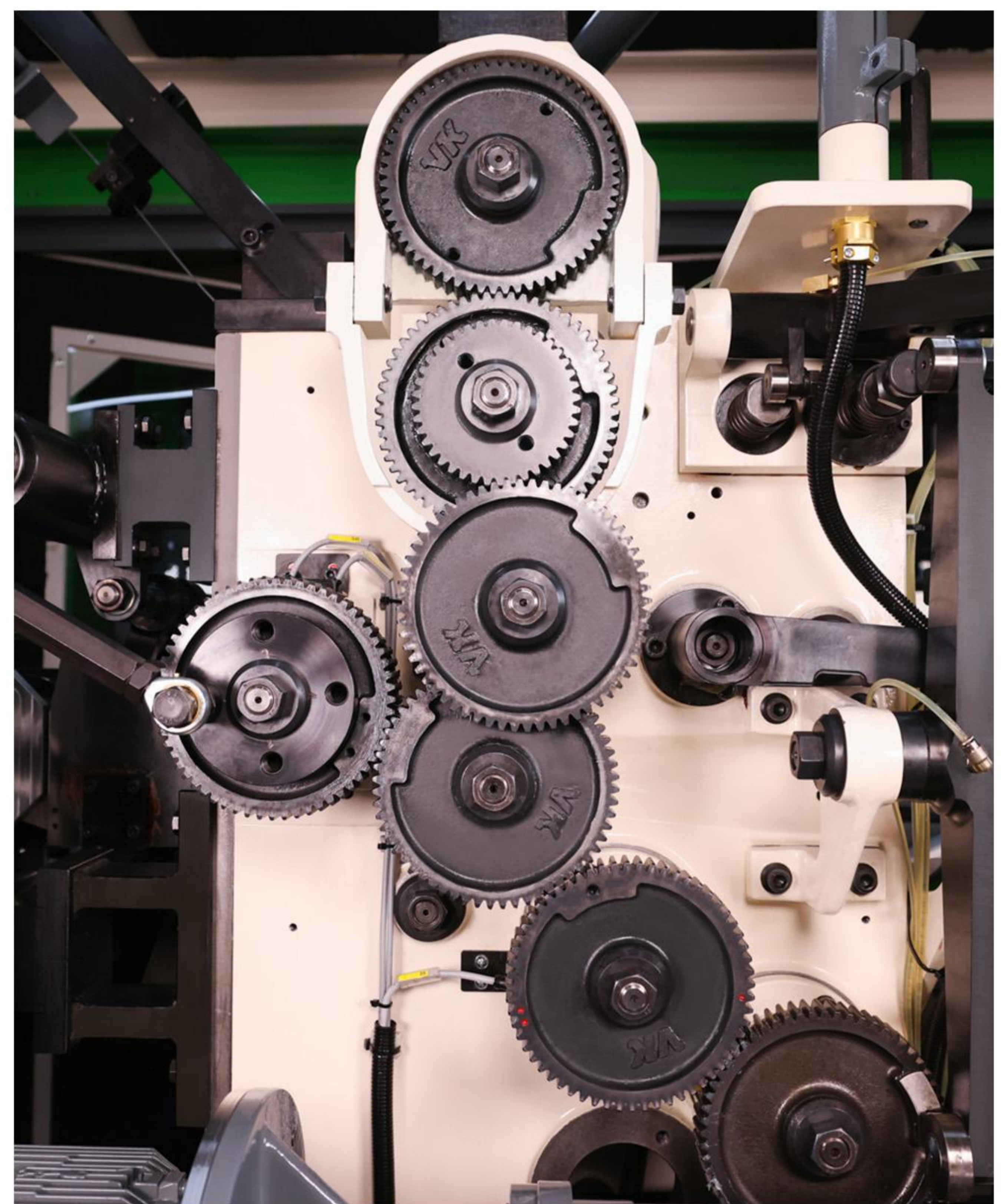
Our heat treatment unit for the VKY 80 machine is one of the most advanced technologies on these type of machines, it provides maximum durability to the bonnell springs and ensures that every spring is stress-relieved and strengthened. The flexible heat treatment unit offers a multi degree treatment options, which is adjustable easily from our touchscreen display. The VKY 65 comes with a standard heat treatment system which offers a manual setting between five heat treatment levels.



— Heat Treatment System

× Unique Gear System

A robust gear system where gears be easily adjusted and replaced without struggling with a chain system like on other machines. The red markings on the gears are allowing you to replace gears in the shortest time. We are also using only high quality materials, to ensure that our gear system can stand tough against gear failure, wear and tear as well as lasting the longest from any coiling system on the market.



— Gear System

Bonnell Spring Forming Pioneer

Quick Changeover For All Bonnell Spring Types

The machine is intended to make fast changes on the spring outside diameter, spring height and spring turns. It is suitable for all wire thicknesses between 1.9 to 2.4 mm. The machine design allows to produce springs with 4, 5, or 6 turns.



Spectacular Features.

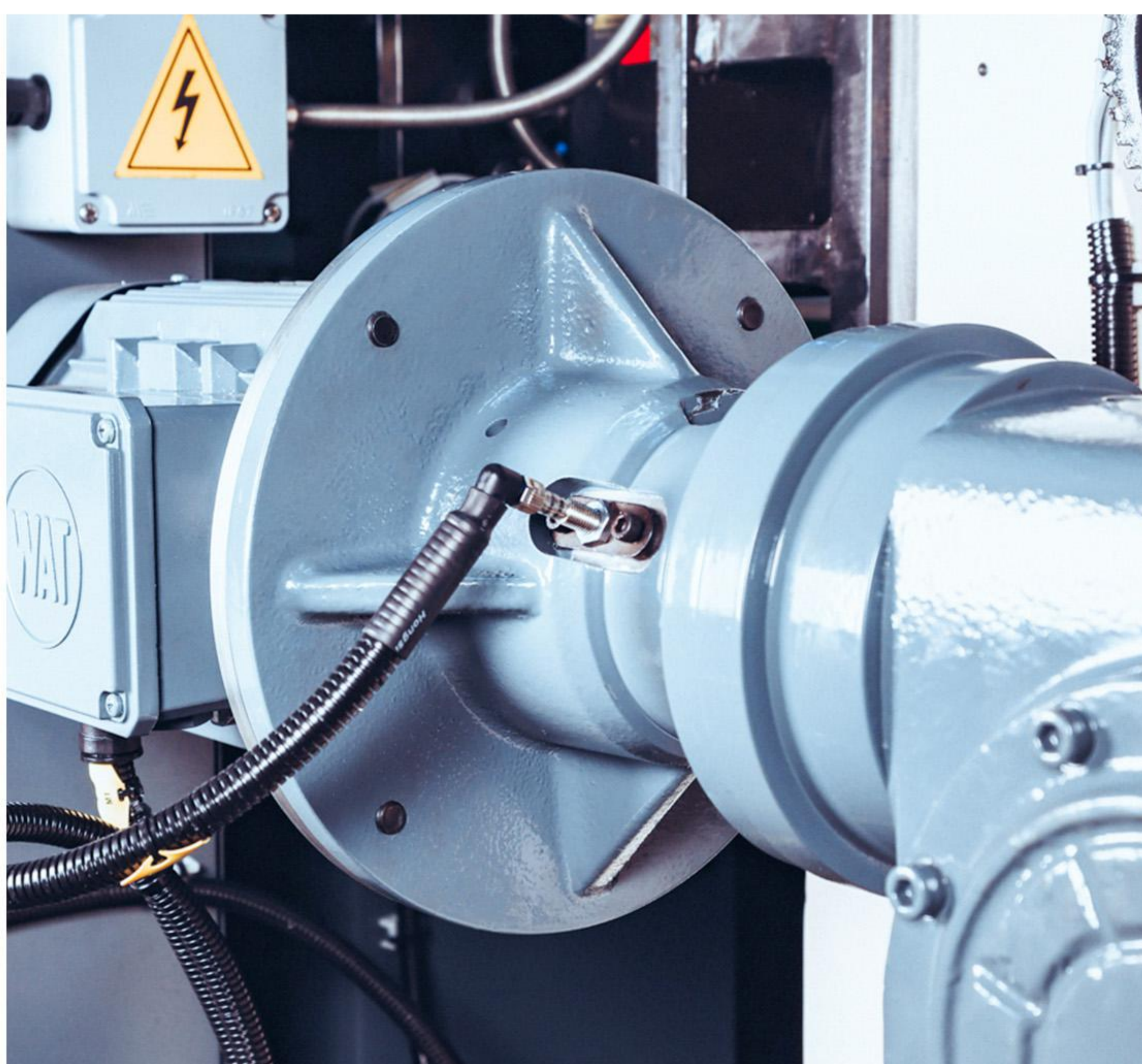


— Lubrication System

× Automatic Lubrication System

The automatic lubrication system ensures a periodic oiling of 20 points on the machine with the option to set the desired time frame for each lubrication through the touch-screen display. The oil tank capacity for the coiling section holds 3 liters. There is no more need for manual lubrication needed.

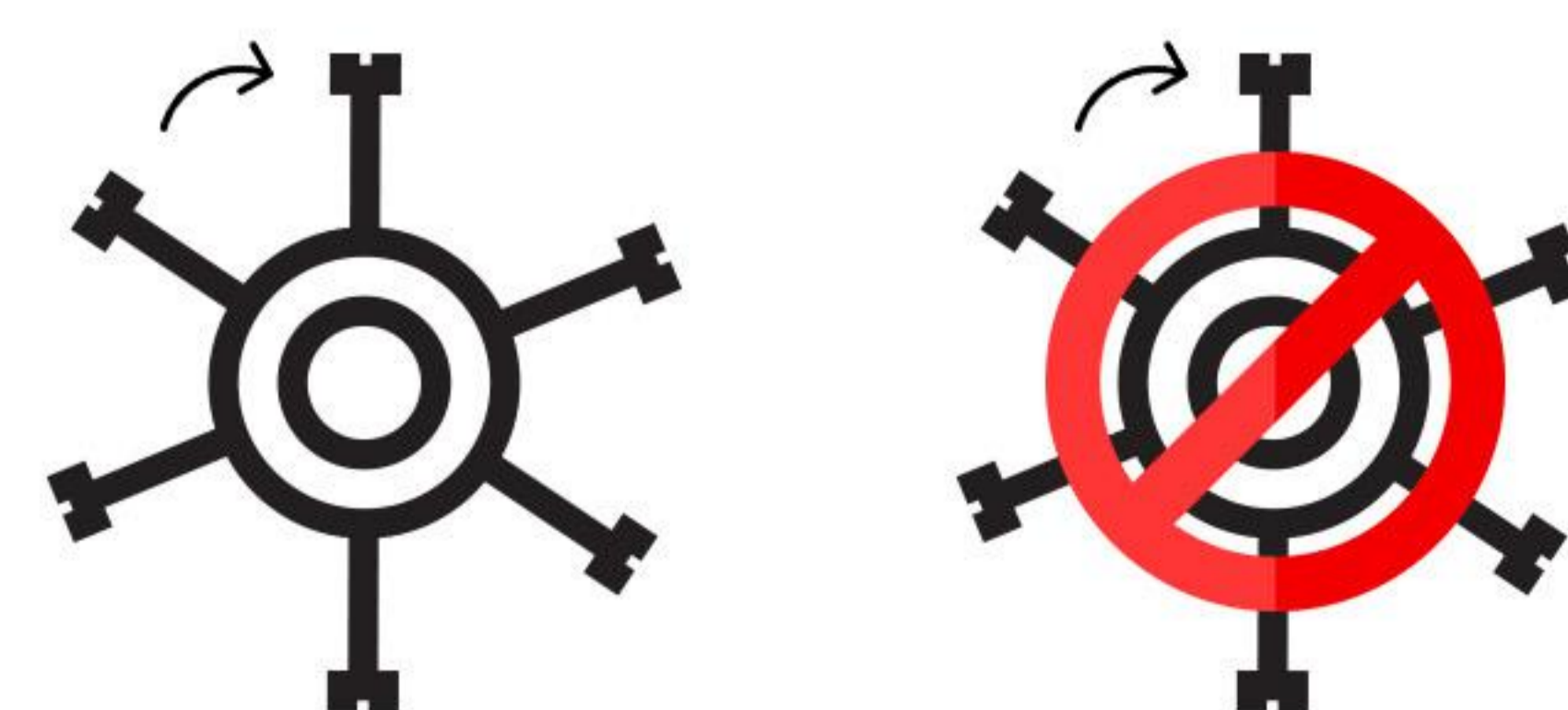
*This feature is only available on the VKY 80



— Arm Security System

× Damage Protecting Arm Security System

Our german technology torque limiter ensures a safe working environment by making sure the machine is stopped if anything blocks the arms from moving. This security system prevents bigger damage to the arms.

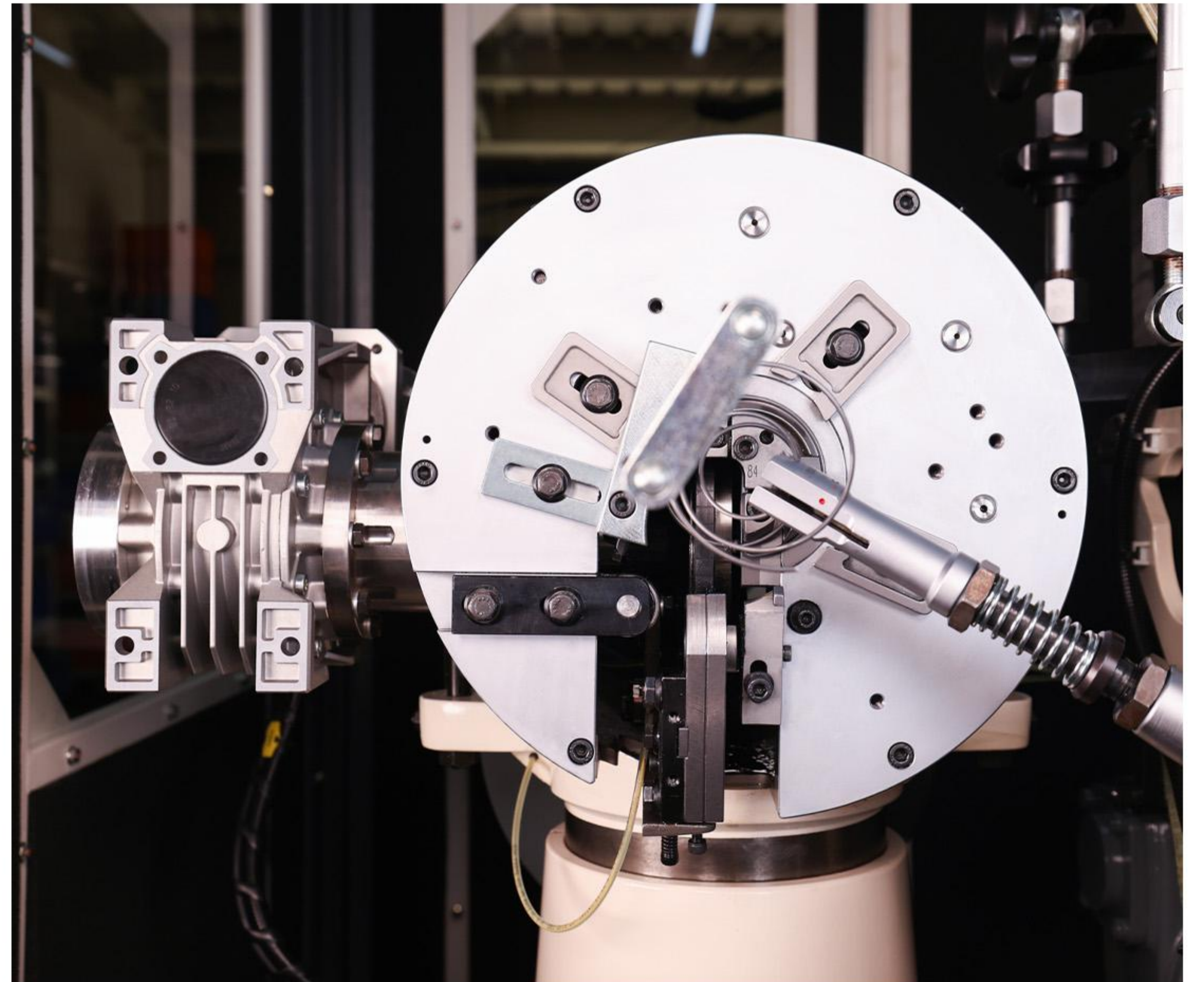


*This feature is only available on the VKY 80

**Freedom
For All Wire
Thicknesses
From 1.9mm
to 2.4mm**

× Easy-To-Adjust Machine Drums

The drums used on our VKY 80 machine are robustly empowered with servo motors and allowing an independent operation without getting power from the main motor. The new designed drum system allows an easy spring diameter change without the need to adjust the cam unit setting. The VKY 65 model has no additional servo motors on the knotting points.



— Machine Drums



— Coiling Control Panel

× Coiling Control Panel

The machine offers multiple control panels to change the coiling settings, which is located inside the cabin system. This panel enables to make adjustments on the spring outside diameter and spring height in the easiest way.

Ultimate Accuracy

**Next Level
Bonnell Spring
Production**

× Production Flexibility & Transparency

Using the display located outside the machine, you are able to track and monitor your day-to-day production. It also allows you to make precise changes of the lubrication period for the machine, as well as the heating treatment settings.

× Soundproofing & Ventilation

The coiler unit is equipped with soundproofing panels that help reduce the production noise drastically as well as a sound-insulated ventilation system that helps clear oil dust and small wire particles which keeps the coiler unit clean.

× Wire Inputs

Wire input positioning options for the machine basket can be in 3 areas depending on the desired position by the purchasing company, either left, front, or the back of the machine.

× 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.

× Floor Leveling System

During the VKY machine installation the floor leveling system helps us level the machine to ensure a very stable and steady production performance.

× Basket Cage

Built using a wire mesh design which offers an excellent security for the rotating wire bundles during production.

—— Optional

× Cam Unit

The machine comes with a standard 5 turns cam unit that can be changed to 4 or 6 turns depending on your desired bonnell spring height. The cam unit have to be replaced together with two gears in case of any requested change.

× Span Centering Base

The span centering bases are placed at both of the knotting positions on the machine. The different options of span centring base sets allows the production of bonnell spring with different spring outside diameter. The working range for each set is limited to 3mm.

× Remote Control System

Our remote control system grant access to error reports by our service agents, this feature allows remote controlled software updates on machines with an internet connection by our service team.

— 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



Italy



Germany



Germany



Austria



Denmark



Italy



Germany



Germany

Technical Specifications

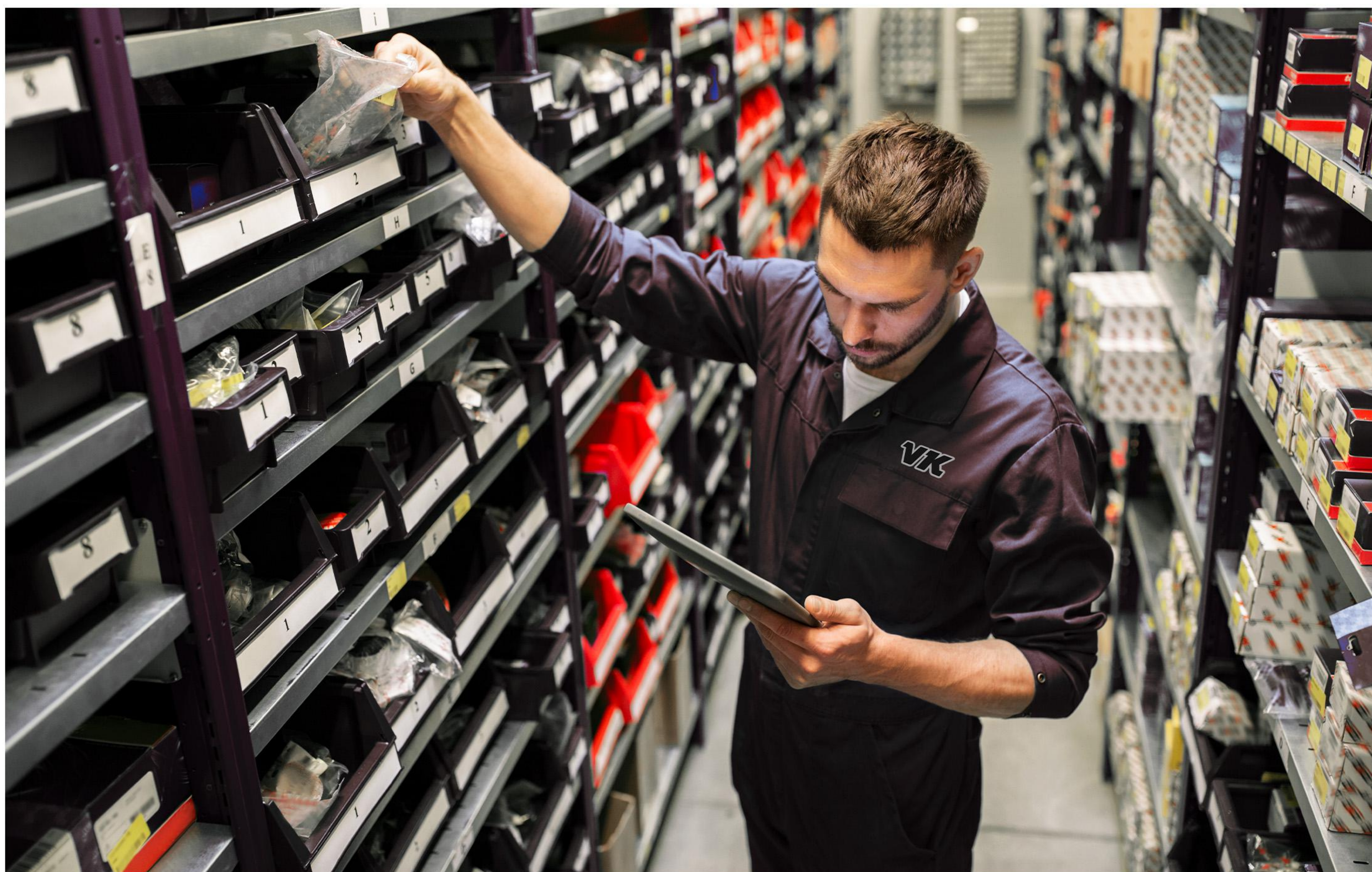
VKY 65

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
Spring Outside Diameter	70 mm - 96 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	70 mm - 96 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
Spring Center Diameter	40 mm - 55 mm	40 mm - 55 mm
Spring Height Diameter	75 mm - 160 mm Standard 120mm-140mm(5turns) Optional 75mm-120mm(4turns) 140mm-160mm(6turns)	75 mm - 160 mm Standard 120mm-140mm(5turns) Optional 75mm-120mm(4turns) 140mm-160mm(6turns)
Spring Wire Diameter	1.9 mm - 2.4 mm	1.9 mm - 2.4 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	470 x 180 x 180 cm	470 x 180 x 180 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 VKY machine. On top of that we gladly offer convenient and express delivery options to reduce the down time of any machine.

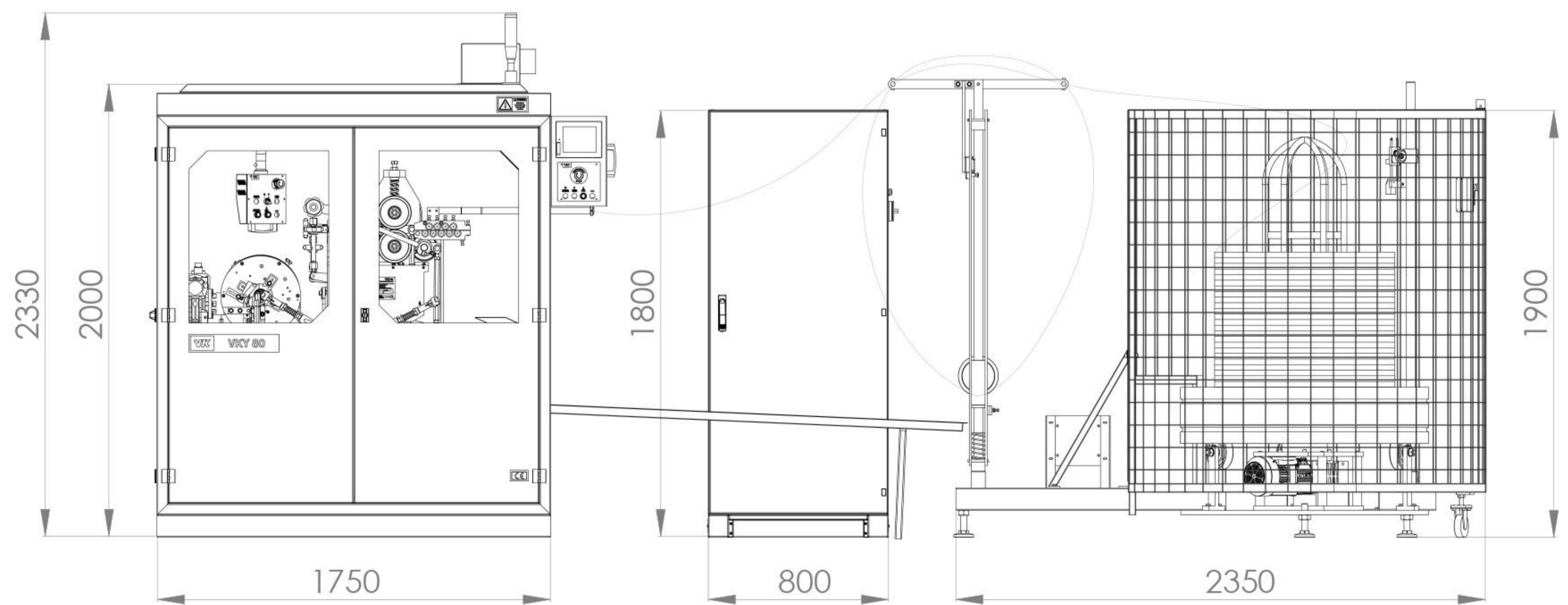
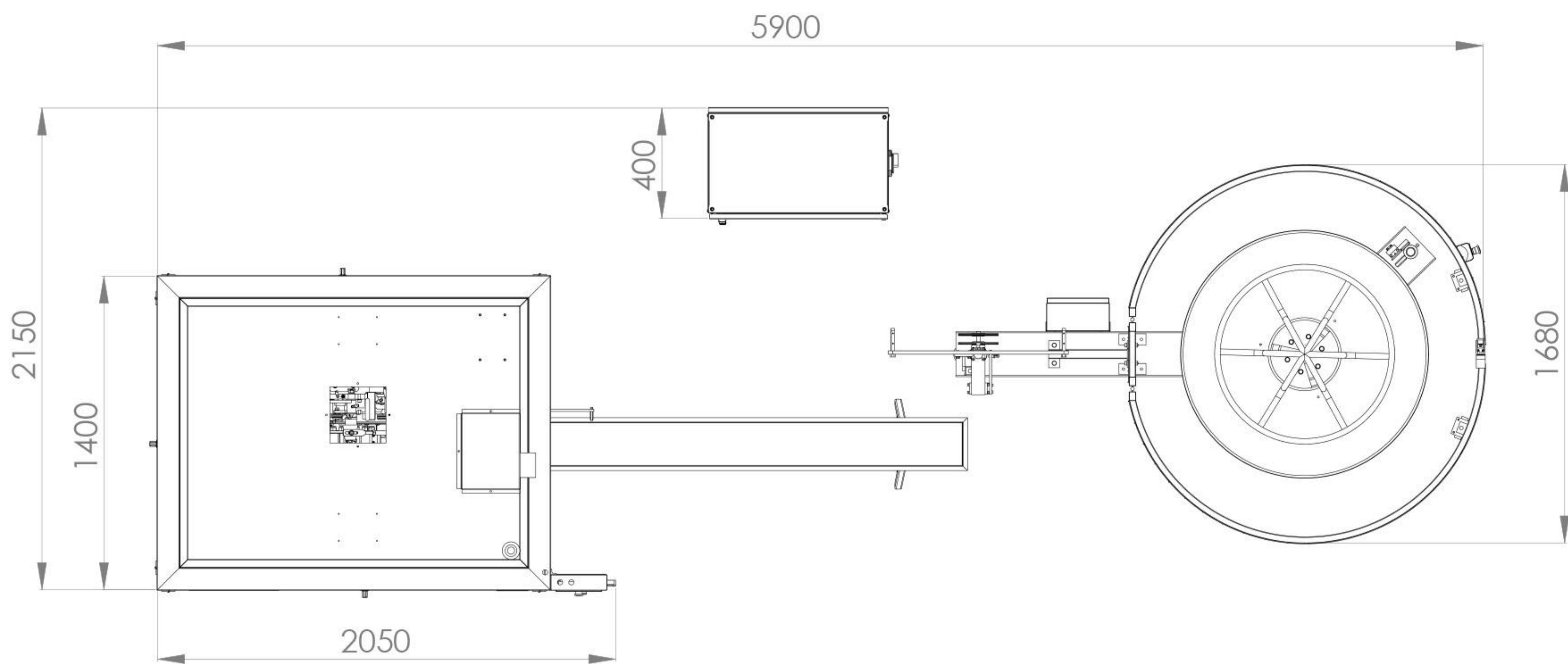


— Service & Spare Parts

× 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.

Space Requirements



Required Machine Space:

approx.

6m x 2.5m

Suggested Working Space:

10m x 5m

**Veysel Kütüklü Makina
Sanayi ve Ticaret A.Ş**

Emek Mah. Sivaz Cad. No:17
34785 Sancaktepe
Istanbul, Turkey

Tel +90 216 466 36 90
Fax +90 216 415 55 08

info@veyselkutuklu.com
sales@veyselkutuklu.com
www.veyselkutuklu.com



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.