

**PRESS RELEASE**

* **Wickert: New Coil Station for Rubber with Automatic Weight Adjustment**
* **Qualified for clean room and automation**

Landau, 9 July 2020. Wickert Maschinenbau GmbH has developed a coil station for rubber with an integrated load cell and automatic weight adjustment. This system, which is now available as a stand-alone model for the first time, allows for separating the roll material from the release film without any elongation and cutting it precisely. With a deviation of over ±1 g, the cutting length is automatically adjusted. In clean rooms compliant with ISO class 8, the peripheral component may also be used.

Rubber material with a width of up to 530 mm and a thickness of between 0.8 mm and 6.5 mm may be processed in sections with length of between 350 mm and 920 mm. The transfer to rubber presses may be manual or fully automated.

According to Wickert, the independent dynamic weight adjustment of the cut sections is unique in the world at present and allows for high throughput, especially in automated operation.

**Easy handling and self-optimizing control unit**

The station’s input can take coils with a diameter of up to 600 mm and a maximum weight of 100 kg. The coils are automatically fixed centrally. Due to ergonomically designed guides, the strips can be threaded easily. The rubber material is then unwound by means of deflection and feed rollers and supplied to the cross cutter. At the same time, the release film is separated and wound on a pneumatic expanding shaft. A sensor permanently measures the diameter of the wound material; the velocity and force of the expanding shaft movement are optimized autonomously.

The rubber material is subsequently supplied to the cutter. A transversely moving circular blade cuts it into the requested length, which is measured by a sensor. The line guide and the blade pressure may be adjusted to ensure precise cuts. Subsequently, the cut sections are transferred to a platform with a load cell on a transport belt and weighed. If the specified weight tolerance is exceeded, the control unit will autonomously optimize the subsequent longitudinal cuts. Finally, the cut sections may be transferred to the rubber press for further processing either manually or in an automated manner.

**Easy installation**

The coil station is controlled via a 10” touch panel. For automated manufacturing processes, all functions may readily be integrated in the press control unit. The maximum transport weight of the solid system is 1.8 t so that it can be transported by means of a forklift and installed easily.

**FDA approval**

All components in contact with products are either of plastic or stainless steel and suitable for use in the pharmaceutical and food industry. In this respect, the coil station has been approved by the US Food and Drug Administration, FDA.

**About Wickert Maschinenbau GmbH**

Wickert Maschinenbau GmbH is a medium-sized, family-owned company based in Landau/Germany. It develops and manufactures hydraulic presses and fully automatic press systems. All machines and systems have a modular structure and feature pressing forces of between 20 and 100,000 kN, with a customer-specific layout, each. The provided systems are used to process elastomers, composites, plastics and powder materials for the production of brake and clutch linings as well as grinding disks; as fixture hardening systems, and in research and scientific laboratories.

Hans-Joachim Wickert and Stefan Herzinger are the partners and managing directors of the family business that was found in 1901 and exclusively manufactures in Landau/Germany, from where it supplies its customers in Europe, the Americas and Asia. In 2019, 172 employees generated a turnover of around € 40 million.

**Photographs:**

Ein Bild, das drinnen, Kühlschrank, sitzend, Tisch enthält.

Automatisch generierte Beschreibung

Photograph 1:

The coil station developed by Wickert Maschinenbau for rubber material is now available as a stand-alone model for the first time. In clean rooms compliant with ISO class 8, the peripheral component may also be used (photograph: Wickert Maschinenbau GmbH).

Ein Bild, das sitzend, Kühlschrank, Raum, weiß enthält.

Automatisch generierte Beschreibung

Photograph 2:

The coil system allows for separating the roll material from the release film without any elongation and cutting it precisely (photograph: Wickert Maschinenbau GmbH).

Ein Bild, das sitzend, Kühlschrank, Spielzeug, weiß enthält.

Automatisch generierte Beschreibung

Photograph 3:

The coil station is controlled via a 10” touch panel. For automated manufacturing processes, all functions may readily be integrated in the press control unit (photograph: Wickert Maschinenbau GmbH).

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