Rittal Wire Terminal WT C

Rittal at the SPS in Hall 3, Booth 121

From 8 to 10 November 2022 in Nuremberg, Germany

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Ten times faster: the new all-rounder for flexible wire processing

**Fully automatic wiring processing goes one stage further. At SPS 2022, Rittal will present its Wire Terminal WT C5 and C10 innovations that allow wire processing at speeds ten times faster than by hand. Due to the modular system design and numerous option packages, panel builders and switchgear manufacturers now have a future-oriented automation solution. You can start with a small version and then adapt and expand it individually in terms of software and hardware as your needs grow. In addition, users are given a cross-process solution thanks to complete networking, ranging from electrical engineering to production.**

Herborn, 08 November 2022 – Wiring in panel building and switchgear manufacturing are time-consuming elements, taking up around 50 per cent of the processing time. How can companies speed up their assembly and wiring processes while cutting costs and maintaining the same high quality? How can machine operation and production processes be made even simpler? And how can plant constructors lay the foundations today for a technology that will still meet all their demands in another ten years or even longer?

Rittal has the answer with its new, fully automated wire processing machines: the Wire Terminal WT C5 and C10. They allow wires with individual wire printing (black, white and light blue) and picking to be assembled ten times faster than by hand. But there’s more: The core advantages are the variety of combinations, the different wire output methods and the support for downstream, digitally consistent and automated processes such as labelling, sorting and transport. The technical basis for the multi-talent is an individually adaptable and expandable modular system structure in terms of both hardware and software, depending on the needs. It puts users in an ideal position to meet future requirements. Moreover, the payback period is only 2.5 years for 300 enclosures per year.

**Flexible configuration stages**

The Wire Terminal WT is available in two different versions and flexible configuration stages. As an entry-level wire processing solution, Rittal offers the WT C5 variant with five vibratory bowl feeders for wire-end ferrules and a wire-end treatment feature for wires with cross-sections ranging from 0.5 to 2.5 mm². The product also cuts to length, labels and crimps. The WT C10 variant has ten vibratory bowl feeders for wire-end ferrules with wire cross-sections of up to 6 mm² as default. Both variants allow further expansion to full functionality in the respective wire application.

**Quick-change system for wires**

The fully automated machine, easily operated via a 24" display, offers many improvements and innovations, such as when feeding and outputting the wires. Safe wire feeding and a simple, fast changeover to other wires are achieved via a new type of wire feeding system featuring three feed blocks for as many as 36 wires and with 12 wire types per feed block. The quick-change system allows the feed blocks to be set up and changed flexibly. An RFID transponder automatically secures the wire feed. This makes it easy to change complete wire magazines.

**The highest quality of process reliability**

With up to ten vibratory bowl feeders for the process-safe input of loose wire end ferrules and thanks to the easy way it can be refilled, the WT C10 offers maximum flexibility and less set-up effort for the wire end treatment. The use of a new-technology crimper permits the processing of wire end ferrule lengths ranging from 8 to 18 mm. You can choose between stepless partial and full stripping up to 20 mm when stripping the wires. This new crimper, which uses servomotor technology, ensures continuous very high quality.

**Three wire output methods**

Depending on the requirements, the wires can be dispensed in a machine in three different ways: through ejection, by a rail system or via a chain bundler. The patented rail system can hold up to 2100 wires. Wire sorting is unnecessary, as the pre-assembled wires are produced in wire rails as standard, depending on the order. This enables the lined-up wires to be processed quickly and efficiently, which, in conjunction with the Wire Cart trolley, is ideal for improved order picking at the workplace. Chain bundles can also be produced to make the wiring process even more efficient: Wires are arranged sequentially in the order chosen. This also allows companies to act flexibly as service providers. In a Wire Terminal, the three flexible output options can be implemented. Combined with the “Eplan Smart Wiring” software app, this leads to effective value creation in the additional process step of enclosure wiring.

**A digitally supported process chain**

Besides the labelling, sorting and transport options, Rittal also supports downstream processes with consistent data. Furthermore, the new software architecture ensures seamless integration into the RiPanel Processing Center job management software’s data workflow. This means more efficient production, not only due to the higher working speed. Consequently, production becomes an even stronger part of the entire digitally supported process chain, centrally planned and controlled with data directly from the Eplan and Rittal engineering and manufacturing ecosystem.

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**Caption(s)**

Rittal\_Wire\_Terminal\_WT\_C: At SPS 2022, Rittal will present its Wire Terminal WT C5 and C10 innovations that allow wire processing at speeds ten times faster than by hand.

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**About Rittal**

Rittal, headquartered in Herborn, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, as well as software and services. Systems made by Rittal are deployed in over 90 per cent of all industries across the world, including machine building and plant engineering, food and beverage, and IT and telecommunications.

The international market leader’s product portfolio includes configurable enclosures, with data available across the entire production process. Smart Rittal cooling systems, with up to 75 per cent lower power and a great carbon advantage can communicate with the production landscape, enabling predictive maintenance and servicing. The offering also includes innovative IT products, from IT racks and modular data centres, to edge and hyperscale computing solutions.

Leading software providers Eplan and Cideon support the value chain, providing interdisciplinary engineering solutions, while Rittal Automation Systems offers solutions for switchgear. Within Germany, Rittal can supply products on demand within 24 hours – with precision, flexibility and efficiency.

Founded in 1961, Rittal is the largest company in the owner-operated Friedhelm Loh Group. The Friedhelm Loh Group is active worldwide, with 12 production sites and 90 international subsidiaries. It has more than 11,600 employees and posted revenues of € 2.6 billion in fiscal 2021. In 2022, the family-run business was named one of Germany’s leading employers by the Top Employers Institute, for the 14th year running. Within the scope of a Germany-wide survey, Focus Money magazine identified the Friedhelm Loh Group as one of the nation's best providers of vocational training for the fifth time in 2021. In 2022, Rittal was awarded the Top 100 Seal as one of Germany’s most innovative medium-sized companies.

For more information, visit www.rittal.com and www.friedhelm-loh-group.com.