CT M and CT H Cutting Terminals from Rittal Automation Systems

Rittal and Eplan at the 2024 SPS

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Halle 3C, Booth 321

New entry-level digital cutting centres

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During control and switchgear construction, numerous small preparatory jobs must be carried out. These include cutting the wiring ducts, cable duct covers and mounting rails to exact dimensions. Rittal Automation Systems now offers two interesting entry-level machines for support: the new CT M and CT H Cutting Terminals. Components are fed and cut manually, while the length stop for the components is set automatically. The stop is controlled via engineering data. A QR code printer ensures each cut part is identifiable and finds its correct place in the enclosure.

In enclosures, most of the electrical and electronic components are attached via mounting rails. Wiring ducts accommodate the many cables connecting these components. After wiring, these ducts are then closed with cable duct covers. Consequently, control and switchgear manufacturers must cut many of these elements to exact lengths and install them in a typical enclosure. Manual cutting with hand tools or saws is tedious and time-consuming on the one hand and often too imprecise, and the cut edges need to be painstakingly deburred.

Cutting Terminal M and H for smaller quantities

For many years, Rittal Automation Systems has been offering machines of the Secarex series for the semi-automatic and fully automatic cutting to length of ducts, covers, and mounting rails. Major enclosure constructors typically use the Secarex machines. In contrast, enclosure manufacturers with lower throughputs or the service departments of larger companies still have to cut to length by hand laboriously.

Rittal Automation Systems offers an economical alternative with its new CT M and CT H Cutting Terminal machines: in both cutting centres, the blanks are inserted manually, while the stop, which determines the cut length, moves automatically and with high precision to the required dimension. This preserves the machine’s length precision, while expensive and unnecessary automation for feeding and removal is omitted with smaller quantities.

The Cutting Terminal is offered in two versions: With the Cutting Terminal CT M, both levers (one for cutting the plastic channels and covers and the other for the steel support rails) are operated manually. Cutting Terminal H features a hydraulically actuated cutting device. This replaces the long lever for cutting the support rails, which had required greater force. All the cutting units are designed to prevent burrs.

The cutting terminals can do more than just cut: Round holes, elongated and cross holes can be punched in non-perforated rails. Both versions process five DIN rail sizes with the dimensions 35 x 7.5 mm, 35 x 15 mm, 15 x 5.5 mm, and copper earthing rails with the dimensions 10 x 3 mm and C-profiles of 34 x 15 mm. All sizes can be processed without changing the link. It is also possible to cut G-profiles to length as per EN60715. For wiring ducts, the dimensions that can be processed range from 15 to 125 mm in width and a maximum height of 100 mm.

Manual and yet digitalised

To later position the many sections of different lengths correctly when installing them in the enclosures, the new cutting terminals feature a label printer with which the components can be labelled for each project and assigned a QR code. The worker affixes the label to the component after each cut so that it can be clearly designated.

The data needed is generated in the digital twin during engineering with Eplan Pro Panel and delivered to the Cutting Terminal via the order management tool, the RiPanel Processing Centre. The system’s state-of-the-art touch panel informs the operator about the following orders.

The benefits of this digital solution start at the cutting stage: The mechanical stop ensures precision. At the same time, the software distributes the cuts across the blanks so that as little waste as possible is left. This saves both money and resources. When assembling the components on the mounting plate, the worker scans the QR code and – in Eplan Smart Mounting – is given a direct visualisation of where the part concerned should be placed on the mounting plate. This precisely cut component then fits the first time. The cutting terminals are also a benefit in enclosure assembly.

The RiPanel Processing Center is a modern order management tool that enables the management and provision of production and machine orders in work preparation for the connected machines.

With the new CT M and CT H Cutting Terminals, Rittal Automation Systems offers two machines that provide access to precisely cut and digitally managed blanks even for companies where an automated cutting centre would not be cost-effective. This means that digitisation can also be implemented on a smaller scale.

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| Caption  During control and switchgear construction, numerous small preparatory jobs must be carried out. These include cutting the wiring ducts, cable duct covers and mounting rails to exact dimensions. Rittal Automation Systems now offers two interesting entry-level machines for support: the new CT M and CT H Cutting Terminals. |  |  |

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Rittal

Rittal is a leading global supplier of enclosure systems, automation and infrastructure with its industrial, IT, energy and power, cooling and service units. Rittal products and solutions are used in over 90% of global industries – standardised, customised, and always of the very best quality.

Our approach and methodology: With their combined hardware and software expertise, Rittal, Rittal Software Systems (Eplan and Cideon) and Rittal Automation Systems (RAS, Ehrt, Alfra) optimize, digitize and automate processes along the entire customer value chain, including the IT infrastructure – from panel building and switchgear manufacturing to mechanical engineering, factory operators and the energy sector.

Our delivery promise: Rittal standard products are delivered in Germany within 24 hours, and within 48 hours throughout Europe.

Customer focus

Improving efficiency and increasing productivity through automation and digitalisation is one of the biggest challenges for our customers. This requires in-depth knowledge and expertise, the combination of hardware and software, and cross-sector networking. We are convinced that creating and connecting data rooms is crucial to the success of industrial transformation. And that is exactly our speciality and field of competence.

Eplan and Rittal are driving the development of the digital automation twin, making data accessible and useable in operations as well. Cideon is improving data consistency in the digital product twin context with its CAD/CAM, PDM/PLM and product configuration expertise.

Sustainability

Environmental and climate protection, social commitment and ethical corporate management are a given for Rittal. We take our responsibility for a sustainable future seriously. Our approach to resource management and conservation involves continuous improvement of our own production processes and ensuring that our products have the lowest possible Product Carbon Footprint. Our solutions support our customers in achieving their own climate targets.

Family business and global player

Founded in 1961, Rittal is the largest company in the owner-operated Friedhelm Loh Group. The group operates worldwide, with 12 production sites and 95 international subsidiaries. It has 12,100 employees and posted revenues of 3 billion euros in fiscal 2023. In 2023, the Friedhelm Loh Group was presented with the “Best Place to Learn” and “Employer of the Future” awards. In 2024, Rittal was awarded the Top 100 Seal as one of Germany’s most innovative medium-sized companies for the third time in a row.

For more information, visit [www.rittal.com](http://www.rittal.com/) and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com).

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