

Press release

Rittal Limited



15 September 2014

Automation in enclosure assembly

Kiesling Maschinenteknik, a member of the internationally successful Friedhelm Loh Group, is a specialist for automation solutions in switchgear manufacture. After a five-year development period, the Averex, the world's first robotic wiring centre is production-ready. But first, two real-world field tests will be conducted in the second half of 2014.

Averex has been specially developed for wiring enclosure mounting plates. The system cuts the wires to the correct length before stripping and crimping with wire ferrules, feeding the wires through the cable duct and attaching them to components such as terminal blocks, contactors and motor circuit breakers.

On average it takes around 180 seconds to complete this wiring process manually but Averex finishes the same task in approximately 40 seconds. Exceptionally reliable, Averex uses lasers to identify parts and check their dimensions against the assembly tolerances. Automation reduces the number of required working hours by approximately 15 per enclosure compared to manual wiring (based on 300 wires).

Control software, with routing module, is particularly simple to use, featuring an intuitive graphics-based operator interface and can be integrated conveniently with electronic wiring lists and CAD layout tools. The solution's stand-out technical feature is its' patented machine head, which can be rotated by 270 degrees and includes cable routing, cutting, stripping and crimping units, torque-controlled screwing and, pre-punched holes are provided in the reinforcing plate.

(226 words)

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Image

Picture shows: Averex

Notes

Rittal GmbH & Co. KG, headquartered in Herborn, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, plus software and services. Systems made by Rittal are deployed in a variety of industries, including mechanical and plant engineering, IT and telecommunications.

The company's broad portfolio includes complete solutions for modular and energy-efficient data centres: from innovative security concepts for data systems to physical data and system security for IT infrastructures. Thanks to leading software vendor Eplan's interdisciplinary engineering solutions, and Kiesling Maschinentchnik's automation concepts for switchgear manufacture, Rittal covers most aspects of the value chain.

Founded in 1961, Rittal is now active worldwide with 11 production sites, 64 subsidiaries and 40 agencies. With 10,000 employees worldwide, Rittal is the largest company in the owner-operated Friedhelm Loh Group, based in Haiger, Germany. The entire group employs more than 11,500 people and generated revenues of about €2.2 billion in 2013. Further information at www.rittal.com and www.friedhelm-loh-group.com.