

Rittal – The System.

Faster – better – everywhere.

Value Chain Consulting

An integrated, system-independent
and individually tailored service



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FRIEDHELM LOH GROUP



Strong partners for sustainable panel building and switchgear manufacturing



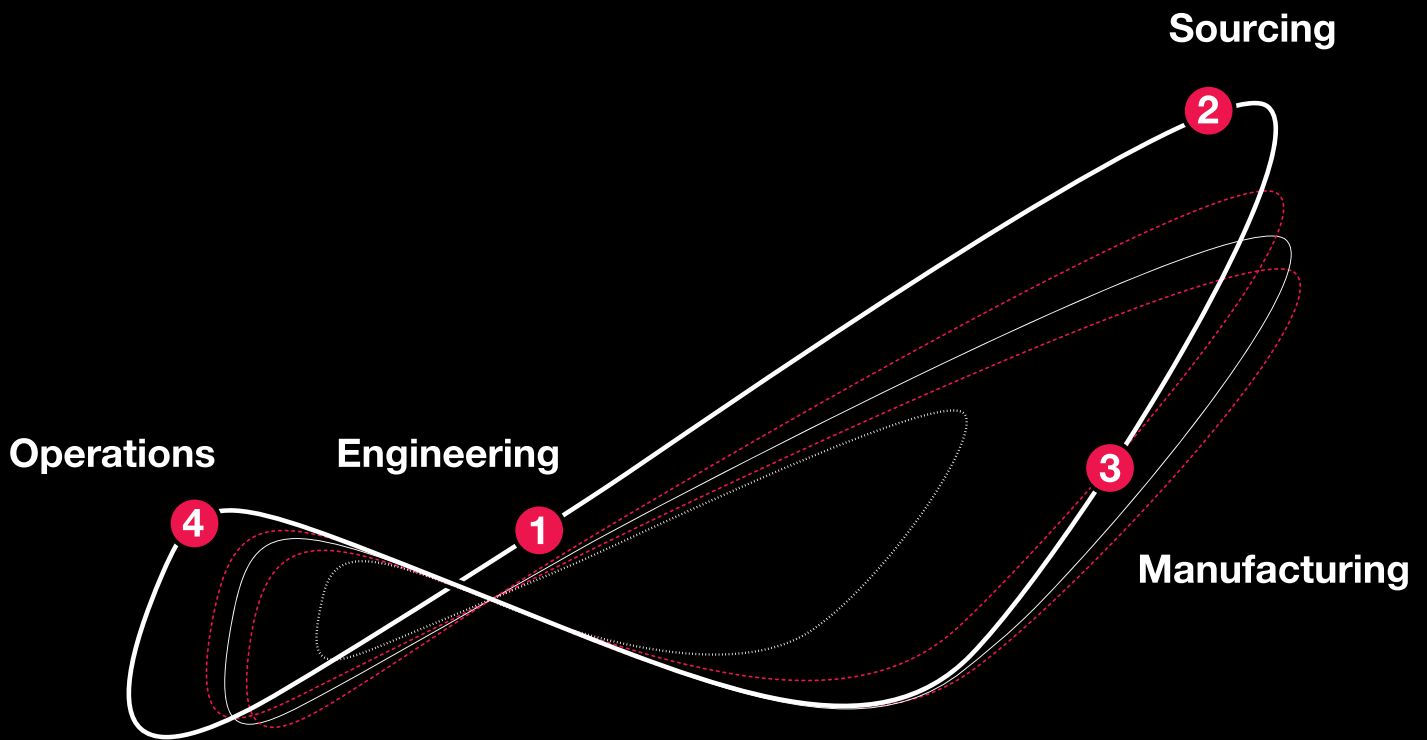
Industry is making great strides with digitalization. Digital data, one of the most important resources, is becoming increasingly influential. The same applies to panel building and switchgear manufacturing, which produce a key part of the infrastructure for virtually all sectors of industry.

Digitalization and integration – clearly more efficient.

Incredibly tight equipment production cycles now make huge time and cost pressure the norm. Alongside a high-quality product, having the most efficient process also delivers a key competitive advantage. Switchgear manufacturers that focus on the entire value chain – from planning and design through to the placing of orders, production, delivery and service operations – can boost their efficiency and gain a vital edge on the market.



The digital twin, for example, is the virtual prototype of a system. Created at the engineering stage, it provides a crucial basis for production and also for the subsequent maintenance and repair of the finished product.



The digital twin – a crucial basis.

Digitalization, standardisation and automation are key to cutting costs and avoiding unnecessary additional outlay. The central element is the digital twin, which is created during the engineering process, links together all downstream process steps – from sourcing and manufacturing through to operation – and contains information about an enclosure’s properties and operational behaviour.

Engineering solutions from Eplan – system and automation expertise from Rittal.

Eplan supplies high-performance engineering solutions linked by the EPLAN Platform for switchgear planning. The Rittal portfolio of solutions supports all steps in the production process where data generated in the digital twin at the engineering stage can be put to further use. This data can also be accessed for commercial processes and during operations such as monitoring, servicing or developing the next switchgear generation.

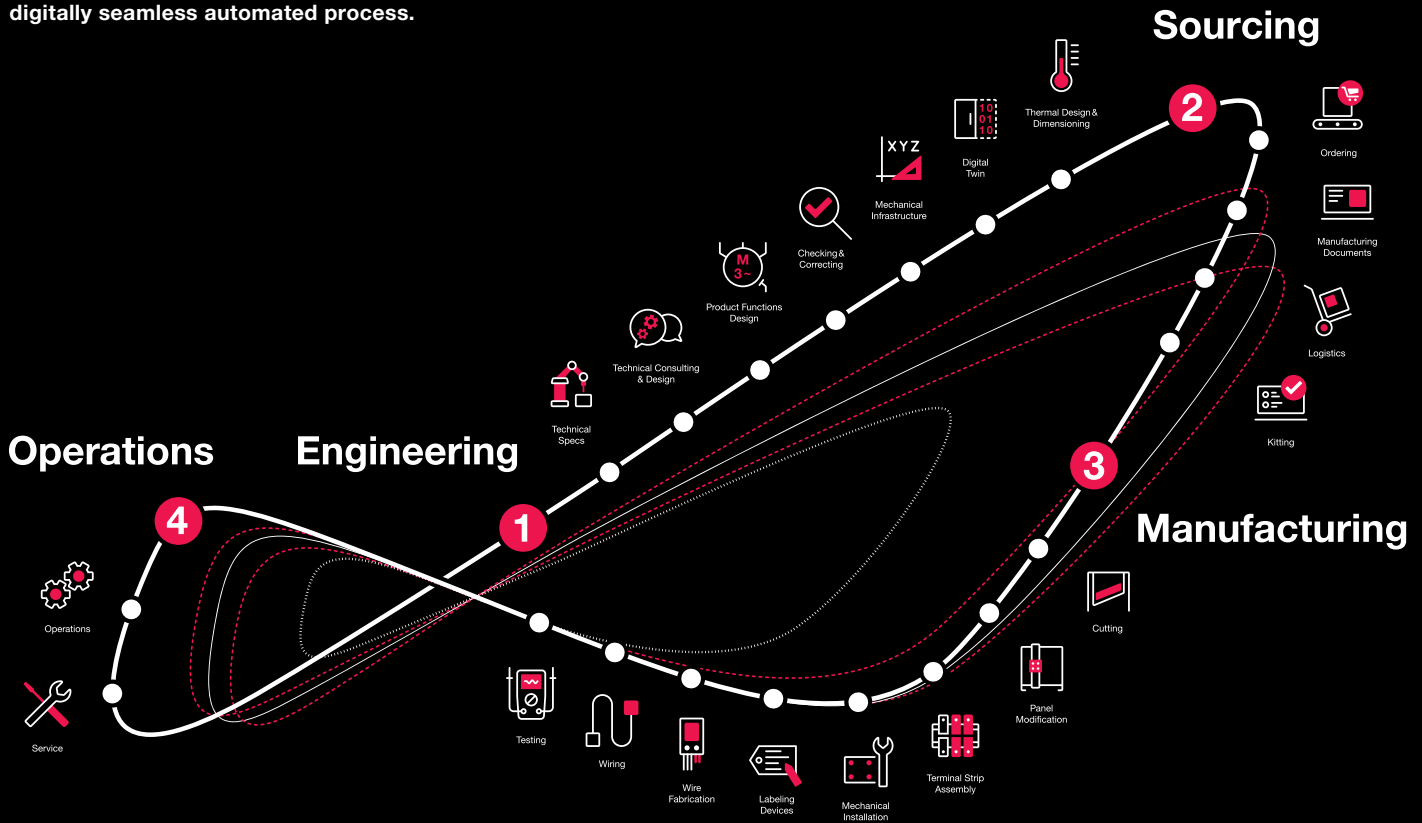
95%

of companies have been able to **boost productivity**, while also **improving their products and services** thanks to digitalization*

* According to the Digital Value 2018 survey of 200 decision-makers from a variety of sectors in Germany, Austria and Switzerland.

A whole new level of efficiency with Rittal Value Chain Consulting

Our solutions make it possible to link all enclosure manufacturing steps to create a highly efficient and digitally seamless automated process.



Efficiency is key in panel building and switchgear manufacturing. Value Chain Consulting helps you cut costs by speeding up processes and reducing delivery times throughout the value chain. An entire team of Rittal experts assist you in identifying and harnessing potential savings. They work with you to examine the complete process chain – from initial development and engineering through to actual production – always on the lookout for optimisation potential.

We provide an ingenious, integrated concept combining consulting, software, products, support and services that is comprehensive and system-independent, but still allows for individual contributions.

Benefit from the proven expertise and decades of experience that Rittal brings to the table.

Process analysis – for enhanced competitiveness

Digitalization throughout the value chain and end-to-end data spanning various processes and systems are the prerequisites for automating panel building and switchgear manufacturing operations. The Rittal process analysis tool ascertains your current production situation based on a University of Stuttgart study relating to automation and digitalization potential. This involves scrutinising all process steps – from engineering and production through to shipping – to identify potential for boosting efficiency and productivity. To optimise the workflow as effectively as possible, we also offer various automation concepts that can be adapted to different economic requirements.

The benefits for you:

- Identify potential for boosting efficiency and productivity
- Secure sustainable competitiveness
- Optimise the value chain
- Cut throughput times

Our scope of services:

- Using charts to analyse the customer workflow together with the steps in the engineering and production processes
- Subsequently producing a detailed final report containing specific automation solutions for savings in the value chain

Details:

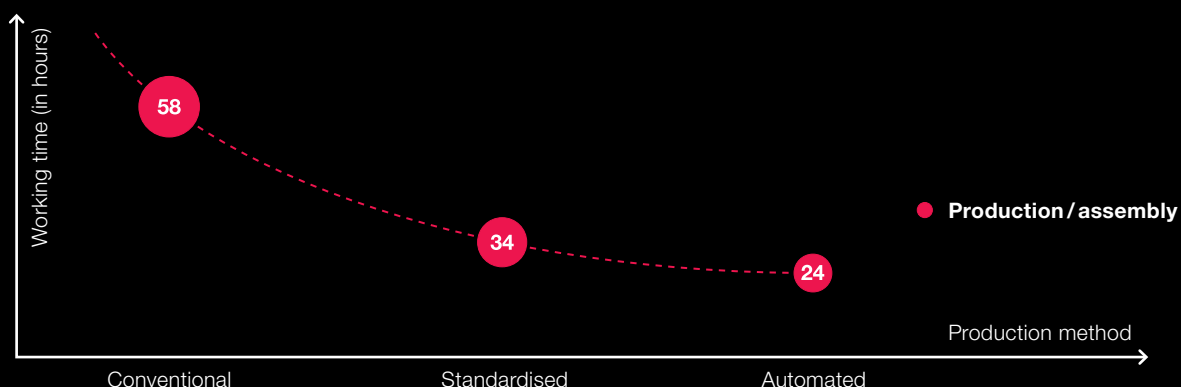
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Duration: 2 days

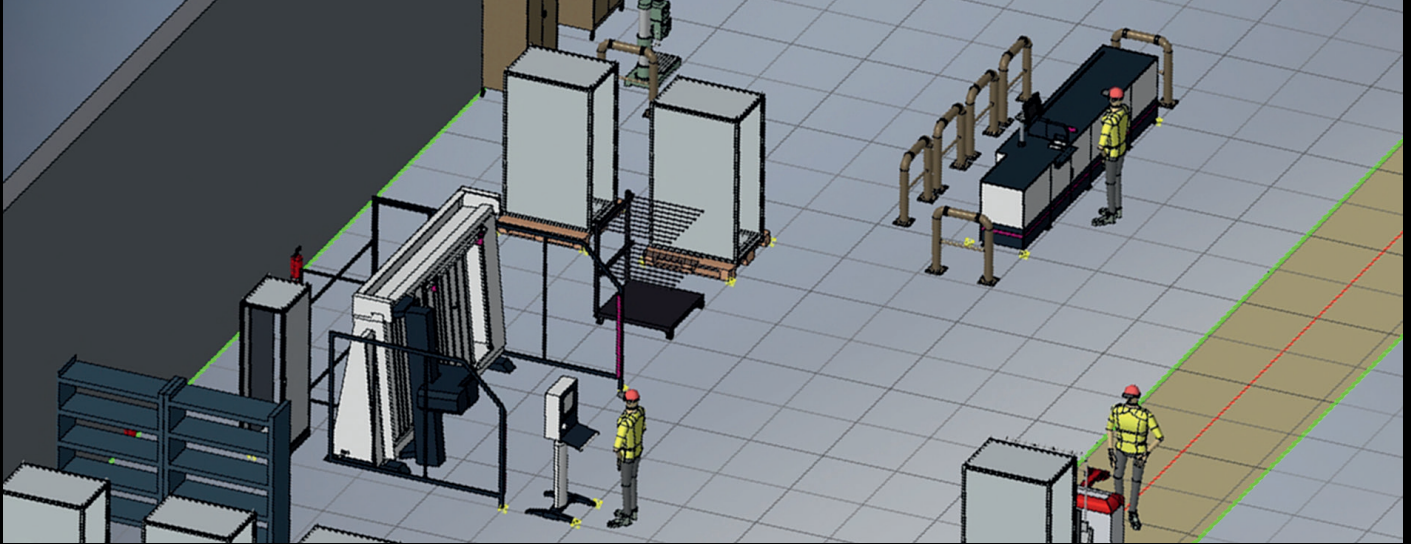


**The time saved
depends on the
level of automation**

Cutting working time by increasing the level of automation in enclosure production



Production hall planning – efficient, sustainable and fit for the future



Details:

Order no.: 1178.981

Duration: 3 days

To maximise efficiency during panel building and switchgear manufacturing operations, a thorough, systematic approach is required when devising and planning production hall processes. End-to-end data retention plays a key role, as does the optimum utilisation of space, the integration of automation solutions into the workflow, a favourable production flow and ergonomic workplace design.

Rittal works with you to identify all production requirements. From greenfield projects to brownfield plants, our specialists plan production halls taking into account potential savings throughout the value chain. The end result is a specific hall layout that ensures the best possible workflow.

The benefits for you:

- Optimum utilisation of space, also factoring in future production requirements
- Integration of automation solutions into the workflow
- A favourable production flow
- Ergonomic workplace conditions

Our scope of services:

- Planning and clearly visualising all results in a specific hall layout

System Consulting – genuine, systematic customer benefits

The System Consulting package from Rittal combines genuine customer benefits with profitable added value. Our specialists collaborate with you to devise proposals for targeted production measures in four process steps:

Analysis of current situation

In our systematic consulting approach, we work with you to analyse each area of application, both in isolation and in conjunction with other areas. This includes system solutions, engineering/CAD applications, power distribution, climate control, compatibility, human/machine interfaces and customer solutions (minimising the number of variants).

Identifying potential

We prepare detailed proposals for further measures in downstream check-ups. The aim of product optimisations is to standardise and to reduce complexity. In the case of climate control solutions, we present ROI analyses that already reveal initial savings.

Implementing measures

The ROI analysis helps systematically translate the results relating to boosting efficiency into specific measures at the customer's premises.

Impact assessment

System Consulting significantly improves efficiency. After a defined period, we assess the impact of the implemented measures with you.

The benefits for you:

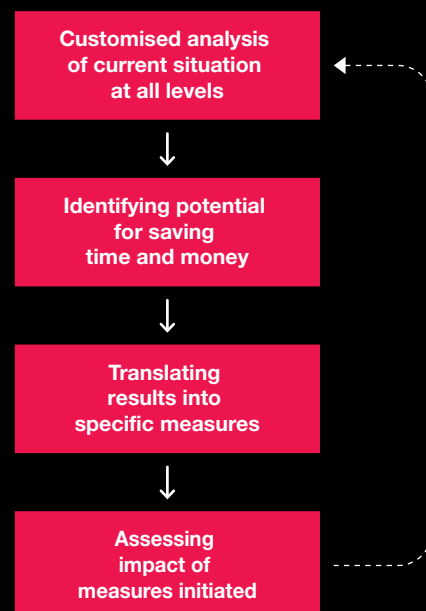
- Higher level of standardisation
- Significant cost reductions
- Faster series production
- Optimised application
- Reduced complexity of parts
- Design to cost using more efficient accessories
- Validation and optimisation of enclosure climate control

Our scope of services:

- Product analysis followed by a concluding presentation of results
- Customised proposals for optimisations at all levels

Details:

Duration: 1 day



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Faster – better – everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

Are you interested in Value Chain Consulting?

Contact our experts by phoning **+49 2772 505 2375**
or sending an e-mail to **sc@rittal.de**

You can find the contact details of all
Rittal companies throughout the world here.



www.rittal.com/contact

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