

Rittal – The System.

Faster – better – worldwide.

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System Consulting



Industrial Enclosures

Power Distribution

System Climate Control



FRIEDHELM LOH GROUP

Uncovering savings potential together



Rittal offers you more than just efficient products. Rittal can help you to save costs along the complete value creation chain. All you need to do is to uncover and realise the hidden potential. A whole team of Rittal experts – who know exactly what they are talking about – are waiting to give you their support. Together with your own specialists, they investigate the full process chain from initial development and engineering through to the actual manufacturing. Always on the lookout for optimisation potential. Rittal here offers you an ingeniously integrated concept combining consulting, software, products, services and support. A conclusive approach, but nevertheless open to all your individual contributions. Benefit from our proven expertise and long-standing experience. Put our promise to the test.

Rittal has both the consultants and the decisive know-how.



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A cleverly sophisticated concept, as always from Rittal. Integrated, system-independent and individually tailored. An unbroken chain from consulting, via products and solutions, planning and software, through to worldwide service and support.

Complexity

Material costs

Engineering costs

Current situation

Recognise potential

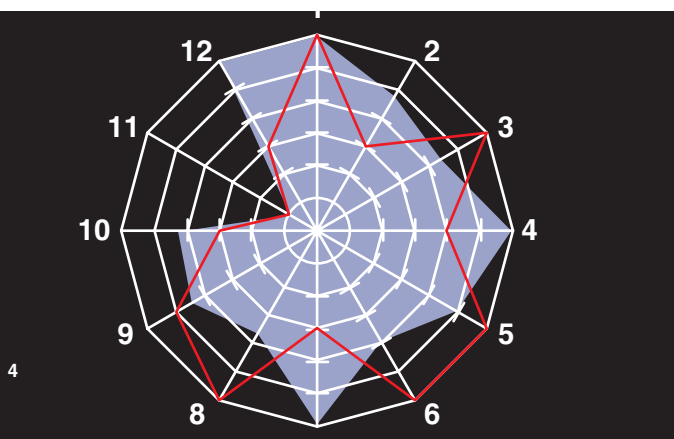
Step 1: Analysis of current situation

Rittal follows a systematic road to the solution. The starting point is a customer-specific analysis of the current situation at all levels:

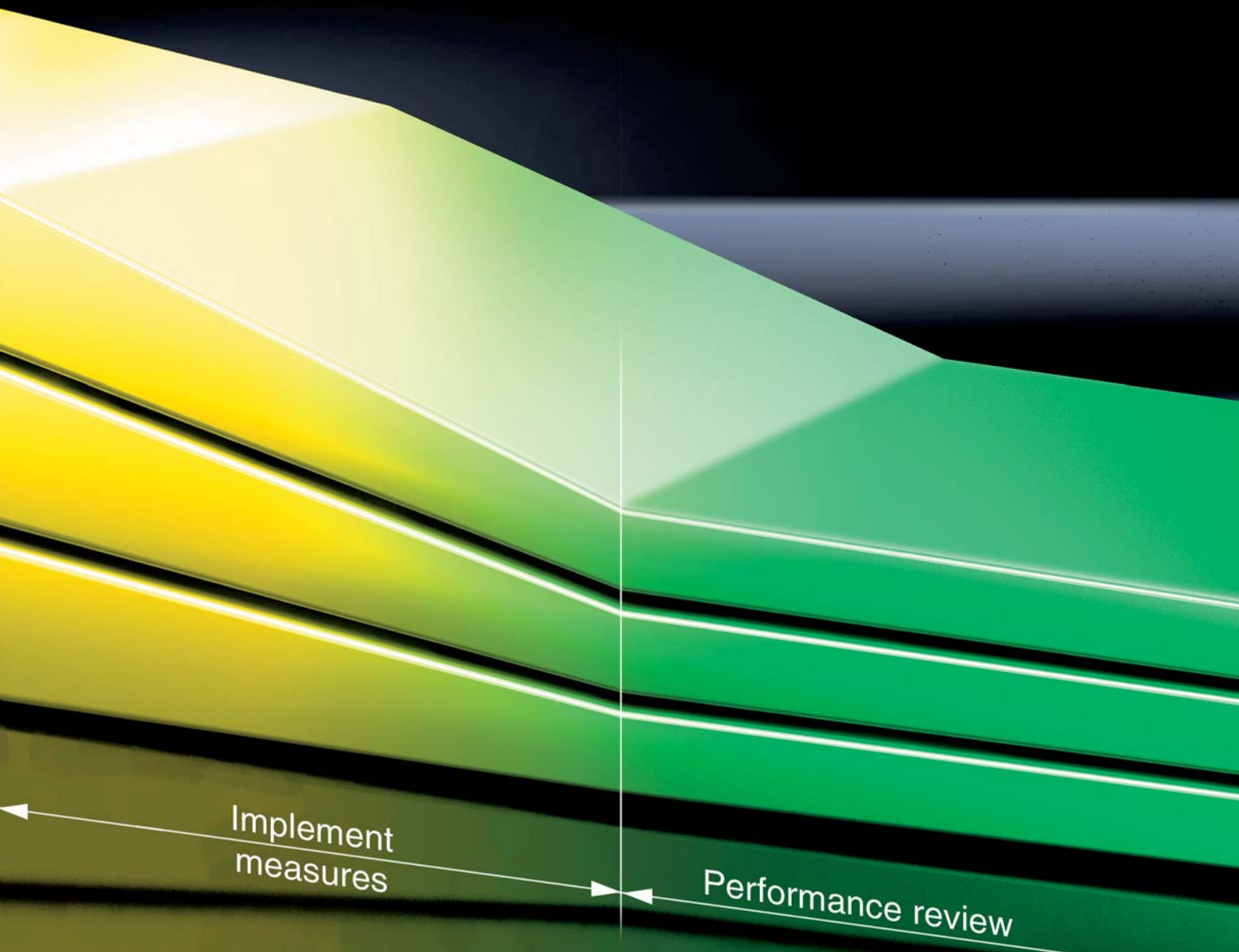
- Products, tools and software used
- Defined processes and procedures
- Efficiency of the solution

Step 2: Recognise potential

The second step is to uncover the potential for time and cost savings. An individual evaluation scrutinises data consistency, technology efficiency and the possibilities for process optimisation. In many cases, this already identifies the first savings.



Realising the potential

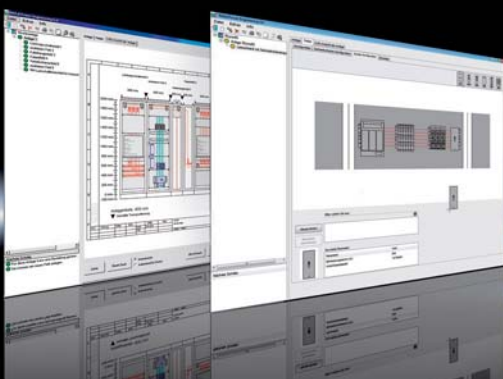


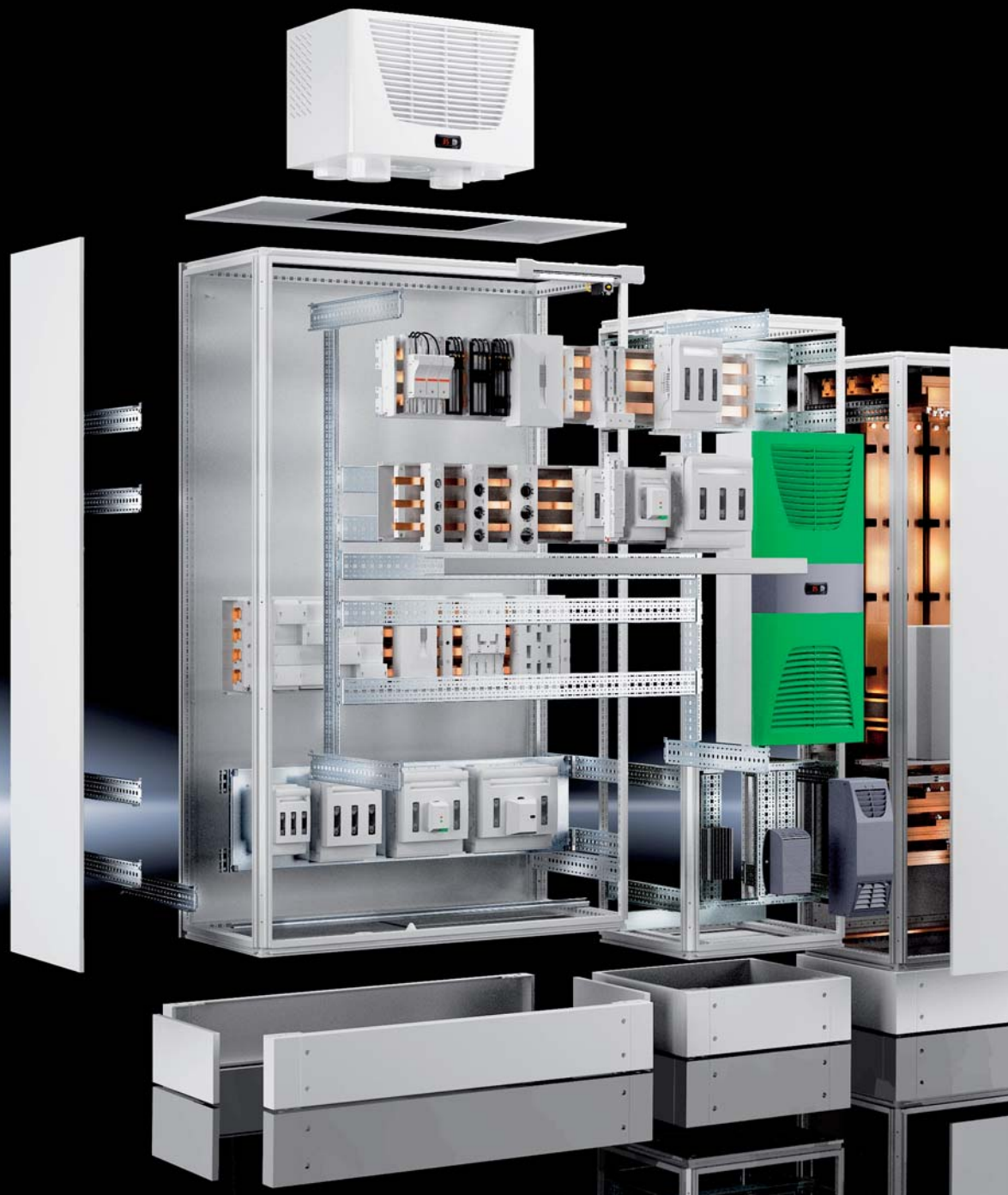
Step 3: Implement measures

With corresponding support from Rittal, the customer can now translate the theoretical results into concrete efficiency-boosting measures. Rittal possesses all the necessary intelligent tools, solutions and systems. Each component is perfectly integrated – without compromise, without the need for improvisation.

Step 4: Performance review

A systematic approach is the key to significantly enhanced efficiency. To this end, Rittal offers a unique complete package (products, planning and software, service and support). After a defined period, we join you to review the success of the implemented measures.





Example: Baying system TS 8

- Infinite possibilities and universal baying capability.
- Comprehensive range of system accessories permits individual configuration.
- Compatible with all fields of application: Industrial, IT, power distribution and climate control.

Example: Power distribution

- Power Engineering software for fast and optimum configuration of low-voltage distribution systems.
- Coordinated modular system on the basis of the TS 8 platform – open to practically all system manufacturers in the field of low-voltage switchgear.



System is what counts



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- Efficient engineering processes
- Faster planning and design
- Consistent system solution
- Fewer interfaces

- Energy and operating costs
- Manual modifications
- Purchasing expenses
- Storage costs
- Complexity

-

Example: Climate control

- Rittal Therm software for energy-efficient configuration of climate control.
- Enclosure – roof plate with cut-out – cooling unit: Everything fits perfectly. Modifications and reworking are now superfluous.

Example: Tools

- Consistent process from CAD, via electrical planning and climate control calculation, through to provision of the manufacturing data.



Ideal basis for efficiency

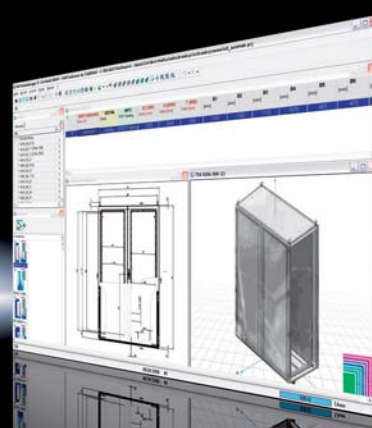
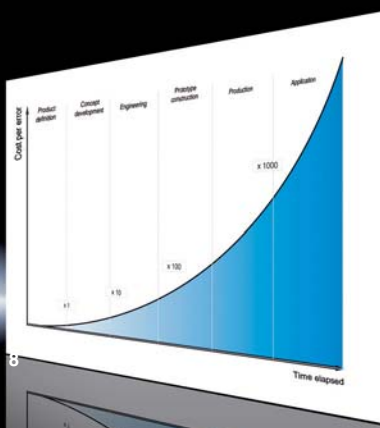


Some 70 to 80% of the material, production and operating costs are already defined at the engineering stage.

Optimisation of the influencing factors permits a significant reduction of these costs. The following three examples show how costs can be tackled at their source.

Example: RiCAD 3D

- All 3D design data are made available immediately and can be used directly for planning in your own CAD system.
- Drawing data from RiCAD 3D form the basis for efficient enclosure configuration in EPLAN Cabinet.





Example: EPLAN

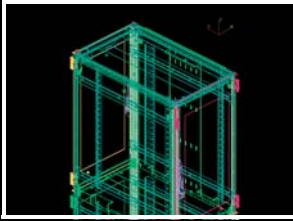
- EPLAN Cabinet provides integrative data for downstream processing at the manufacturing stage.
- The interaction between EPLAN Electric P8 and EPLAN Cabinet permits simpler definition of the total power loss of a system.

Example: Rittal Therm

- The total power loss can be entered directly as a key parameter in Rittal Therm, or else taken over from the EPLAN platform.
- Overdimensioning of the cooling unit by just 1 kW already results in avoidable energy costs of approx. € 1,000 over the course of 3 years.



Engineering tools/Service



RiCAD 3D

3D data that enables efficient planning

Irrespective of which CAD system you use, RiCAD 3D effectively supports your system design efficiency and productivity.

It includes both 2D and 3D drawings for virtually all Rittal products together with an extensive range of system accessories.

Benefits:

- Precisely detailed CAD product data
- Export in all standard CAD formats
- Simple integration into the most varied CAD systems



Rittal Therm

Precise and efficient climate control

Rittal Therm undertakes the time consuming calculation of the necessary cooling power and selects the matching products.

Benefits:

- Fast and thorough determination of the climate control measures required that have to be implemented
- Subsequent cost savings come from determining the correct climate control measures
- Easy calculation by determining the actual cooling output that is needed, as well as any upgrades or enhancements to the switchgear
- Detailed documentation will be provided with the calculation



Rittal Power Engineering

The software solution for the planning, realisation and configuration of low-voltage switchgear with enclosure systems and power distribution components from Rittal.

Benefits:

- Simple and fast configuration of projects and equipment
- Fast workplace preparation thanks to graphical component assignment
- Automatically generated assembly plan for each panel
- Simple assignment and time-saving component installation
- Graphical planning of RiLine60 busbar systems



AE enclosures with CAD

Rittal provides a very special service: You will receive an enclosure that has been assembled as defined in your specifications, finished with cut-outs and drilled holes and painted in the special colour that you stipulated within the next 7 days!

Benefits:

- Send us your drawing via our Internet portal. You will receive your quote within the next 24 hours.
- Production will start as soon as we receive your order.
- Your compact enclosure that has been especially manufactured for your application will be delivered 7 days later!

www.rittal.de/laser-express

To find out if this service is offered in your country please contact your local Rittal subsidiary.



EPLAN platform

The modular EPLAN platform delivers core functions which are required not only in electrical CAE, but also for fluid or EMSR engineering.

Standing on a common platform, all systems are able to access a single database.

Benefits:

- Standardisation of functional units
- Automation and parallel implementation of project design processes
- Open and flexible system
- Interdisciplinary engineering

TS 8 configurator

A complete enclosure assembled using just eight clicks that includes parts list and 3D model, etc.

Benefits:

- Easy menu-assisted fitting out of a bayed TS 8 enclosure with bases/plinths, side panels and the handle system required
- Mounting rails and a punched section with mounting flange can be pre-assembled for interior installation
- This will result in the creation of a 3D drawing that can be incorporated directly in the system design or integrated in EPLAN Cabinet

www.rittal.com/configurators



Command panel configurators

Optimum and easily defined solutions for the human/machine interface based on Rittal Comfort Panel and Optipanel.

Benefits:

- Select the enclosure that holds the panels to be used (the integrated database contains a variety of commercial panels from various manufacturers)
- Easy navigation thanks to the list of related questions
- Quick compilation of the features required
- Request a quote based on the selected data
- Request the 3D data for integration in the system design

www.rittal.com/configurators



Support arm configurator

The system is able to precisely define the correct support arm system by using important user specific parameters such as the jib length, enclosure weight or the cable cross-section that is needed.

Benefits:

- Specific assembly that meets the user's requirements
- Integrated consistency checking
- Configured system parts list

www.rittal.com/configurators



CM configurator

The new Rittal CM compact system enclosure brings you the advantages of the AE compact system enclosure together with the configuration diversity of the TS 8 top enclosure system.

Benefits:

- Simple menu-assisted selection of the CM enclosure together with bases/plinths and gland plates that meet the requirements
- The relevant interior installation accessories can also be selected to match the chosen enclosure
- The end result will enable you to request a quote that reflects the actual configuration

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IT configurator

Rittal offers the ideal system solution for every networking task, matched to the user's individual demands.

Benefits:

- A specific enclosure can be selected
- Accessories can be configured
- Plausibility checking
- The end result will enable you to request a quote that reflects the configuration selected



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Maximum efficiency, reduced costs, energy savings. Rittal's strategy says think in terms of system solutions and provide a system for all applications – from power distribution and automation, to building installation, through to the IT infrastructure.

And offer your customers unprecedented benefits.

- Industrial enclosures
- Power distribution
- Electronic packaging
- System climate control
- IT systems
- Service



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