Rittal – The System.

Faster – better – worldwide.
Faster – better – worldwide.

“Rittal – The System.”
Faster – better – worldwide: Everything we do centres around the benefits to you. For you, we have developed a perfectly coordinated system platform that unites innovative products, pioneering engineering solutions and comprehensive service. We plan and implement your infrastructure, ensure reliable power distribution, boost energy efficiency through innovative climate control, and develop complete data centres.

Faster
- System solutions from a single partner
- The perfect interplay between development, engineering, products and service
- A single point of contact thanks to process-optimised system consulting

Better
- Innovative strength secures competitive advantages
- Cost savings with proven energy efficiency
- Certified quality in management, production and environmental protection

Worldwide
- Over 60 subsidiaries, more than 250 service partners and over 1,000 service engineers worldwide
- Country-specific expertise from Rittal industry experts
- International approvals provide peace of mind
Future-safe, because everything fits together

Be it automation, communications or energy technology, market leaders Rittal offer the correct enclosures and cabinets to suit virtually all requirement profiles in modern industrial technology. All from a single source, all in top quality. Perfect, cost-effective solutions to suit every application.

Faster – better – worldwide.
- Faster: Our comprehensive approach to engineering ensures a high level of cost efficiency
- Better: Future-safe thanks to modular TS 8 system architecture; the configuration of enclosures can be adapted to suit changing requirements at any time
- Worldwide: A uniform global standard, guaranteed by international approvals

Product solutions to suit every requirement
- TS 8 system architecture offers a universal global standard and the most comprehensive range of system accessories
- From small enclosures, to compact enclosures, through to enclosure systems and modular enclosure technology

Maximum efficiency with engineering tools
- Less engineering and design input thanks to RiCAD 3D data to suit virtually all CAD systems.
- Efficient workflow thanks to technology integration into an holistic process
- Easy-to-use configurators
- Greater planning confidence, e.g. with RiTherm climate control calculation, EPLAN Cabinet and CFD simulation

World-class service
- Competent system consulting and implementation of engineering tools, including individual modification in the Rittal ModCentres
- Uniform global quality standards ensure a high level of availability and prompt service
- Superior competency thanks to perfectly coordinated software solutions from the powerful alliance of EPLAN and Rittal in the Friedhelm Loh Group
Space-saving enclosure solution for Schaffner AG

System partnership secures a competitive lead

Rittal sets new standards in product development: For example, it created a space-saving cooling solution in an enclosure for the innovative mains filter ECOsine™ Aktiv from Schaffner AG. Thanks to an intelligent combination of air and water cooling with a cooling unit and a recooler, the build size of the system was reduced by a factor of 3, while at the same time increasing reliability.

Flexibility in a compact design

The mains filter ECOsine™ Aktiv developed by Schaffner AG is housed in an enclosure with the dimensions 800 x 600 x 2000 mm (WxHxD). Thanks to the very compact design in just one enclosure, the mains filter may be installed centrally for “cleaning” the entire network, as well as on a decentralised basis directly at the source of interference or to protect sensitive equipment. For compensating power requirements in excess of 300 A, up to five mains filters may also be cascaded.

Our system consulting specialists will be happy to assist you in analysing the efficiency potential of your enclosure systems.

“Thanks to our value-added partnership with Rittal, we have been able to save development resources, reduce production times and launch a compact solution on the market in the shortest possible time, thereby securing a decisive competitive advantage for ourselves.”

Harald Lautz, Schaffner Deutschland GmbH
Reliability is our speciality

The requirements placed on modern power distribution systems are constantly growing. For this reason, more and more users are insisting on the security of internationally recognised and approved power distribution components.

“Rittal – The System.” offers innovative enclosure and busbar systems conforming with the relevant regulations. Tested by independent experts, and proven a million times over.

Faster – better – worldwide.
- Faster: Secure assembly and simple engineering
- Better: Flexible adaptation to the given application, and ingeniously simple mounting technology
- Worldwide: Suitable for global use in accordance with IEC standards and UL approval

Comprehensive product platform
- Ri4Power for structured system solutions: Licence-free low-voltage switchgear system based on the TS 8 platform
- RiLine60: 60 mm system technology for power distributors and controllers up to 1600 A: The superior power distribution system for all the world’s markets

Superlative engineering
- Rittal Power Engineering 5.0: Innovative project planning software for Ri4Power low-voltage switchgear and RiLine60 60 mm system technology with links to EPLAN software solutions
- Simple selection and graphic positioning of assemblies
- Automatic generation of panel-specific assembly diagrams

Servicing for added peace of mind
- Product advice and configuration by Rittal engineering support and system advisors for the power distribution sector
Efficient switchgear production for Koenig & Bauer

Success in the world’s largest market
In the North American market, electrical systems are required to meet particularly high standards. UL-approved power distribution components provide a reliable basis for problem-free certification. The best example of this is the Koenig & Bauer Group, one of the largest printing press manufacturers in the world. When it comes to the assembly of low-voltage switchgear by Trips GmbH, the company puts its faith in Rittal’s expertise.

A number of UL systems have already been installed with the RiLine60 60 mm busbar systems up to 1400 A. As these components are already certified with the highest approval status “cULus-listed”, the systems will pass inspection with the minimum possible input. The benefits: The switchgear assembler saves time and money with significantly simplified and faster system testing.

TS 8 enclosures, power distribution systems in the Maxi-PLS and Flat-PLS series up to 4000 A and comprehensive accessories from Rittal are also used in systems for Koenig & Bauer.

Is your power distribution future-safe and standard-compliant? We will be happy to advise you.

“With the Rittal range of solutions, as a UL-certified company, Trips is able to significantly simplify and accelerate complex engineering and testing processes for switchgear.”
Thomas Kleinhenz, KBA team leader at Trips
“Rittal – The System.” guarantees comprehensive process control protection with the minimum possible energy consumption. Modern cooling units with excellent efficiency and perfect interface technology, together with liquid cooling concepts, offer fresh new perspectives for the correct cooling of electronic components. This is crucial to the availability and reliability of machinery and IT technology.

Faster – better – worldwide.

- Faster: With comprehensive engineering support, “Rittal – The System.” secures a decisive competitive advantage
- Better: Precise dimensioning and energy-efficient innovations set global standards in efficient climate control solutions
- Worldwide: With 60 service support points, more than 250 global service partners and over 1,000 service engineers, Rittal is at your side around the globe

Products for industry and IT

- Rittal has developed cooling systems based on air or water cooling specifically for industry. Choose between fan-and-filter units, air/air heat exchangers or compressor-controlled TopTherm cooling units
- Whether in a rack, in enclosure suites, or as room-based cooling, “Rittal – The System.” offers the perfect solution for all types of IT cooling, such as air/water heat exchangers or recooling units

Planning confidence through engineering

- Time-saving: Rittal Therm 6.0 software for the correct dimensioning of cooling systems
- Plausibility checks ensure added planning confidence
- We will be happy to calculate your precise climate control requirements

Service is our strength

- CFD analysis, servicing, pipework calculation: When it comes to your climate control requirements, “Rittal – The System.” offers a precise-fit solution
- You will receive on-site advice from our experienced experts, and enjoy the security of a global service network, both pre- and after-sales
A sustainable climate control solution for J.G. WEISSER SÖHNE

Up to 48% energy savings with “greenplus”

Efficiency, cost-effectiveness, and sustainability:
These factors are pivotal to the business success of J.G. WEISSER SÖHNE, leading manufacturers of precision lathes and multi-functional production systems. In its attention-grabbing “greenplus” project, the company successfully proved that it is still possible to achieve energy savings of up to 48% for customers, even with modern systems.
To this end, it developed a “green” concept comprising all components from its Drive, Hydro, Air and Cooling units and the patented rotary lathe.

For efficient cooling of the built-in controller and spindle, J.G. WEISSER SÖHNE has opted for Cool Efficiency cooling units and recyclers from Rittal. This achieves savings of up to 465 kWh per year, per machine with cooling.
With 200 machines, this translates into savings of around 10,000 Euros per annum.

“To achieve our energy concept, we decided on Rittal as a cooperation partner early on. We pulled out all the stops and achieved energy savings of up to 48%, thanks to an intelligent combination of all optimisation measures. Alongside the patented rotary lathe, the new Cool Efficiency cooling units from Rittal also made an important contribution.”
Thorsten Rettich, Head of Construction at J.G. WEISSER SÖHNE
Data centres are highly complex systems: Software, hardware and IT infrastructure must work together efficiently in order to supply the user with inexpensive, reliable IT services. The IT infrastructure must be fail-proof and expandable. It must guarantee a high level of availability coupled with low energy consumption. It must meet a wide range of requirements from various different sectors. Above all, these include powerful climate control, reliable power distribution, and comprehensive monitoring.

With “Rittal – The System.” we have therefore created a platform that satisfies these requirements while at the same time minimising complexity and reducing the number of interfaces. “Rittal – The System.” guarantees everything from a single source, with one point of contact who is familiar with the specific requirements of your industry.

**Faster – better – worldwide.**

- Faster: One point of contact for all requirements, from the component through to the finished data centre
- Better: Significant, measurable improvement in energy efficiency, e.g. up to 40% energy saving with Rittal IT cooling
- Worldwide: Consistent global compatibility ensures lasting planning confidence

We will be happy to analyse the efficiency potential of your IT infrastructure. Please contact us for advice.

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**Systematic products**

- RimatriX5: Modular hardware and software components for the IT infrastructure
- From high-end server and network racks, to the distribution and back-up of power, through to innovative climate control concepts
- For the most demanding requirements: Right up to IT security rooms and data centres up to Tier 4

**Superlative software tools**

- Energy-efficient management of the entire data centre infrastructure with RiZone
- Transparency and automation with state-of-the-art monitoring software
- Optimum security thanks to monitoring systems such as the CMC-TC (Computer Multi Control Top Concept)

**Servicing for added peace of mind**

- Industry-competent analysis and planning
- Fast installation and commissioning
- Individual maintenance contracts ensure high availability
- Global 24 h service and general contracting
Meeting extreme demands in Redmond

The world’s leading software developer Microsoft has set up a special data centre at the corporate headquarters in Redmond to enable its customers to test new software ahead of productive deployment. At the Enterprise Engineering Center, the IT environments of major corporations are simulated on more than 700 servers. Following expansion of the test laboratory in 2009, Microsoft can now depict the impacts of migration on energy consumption at an even finer resolution, using IT infrastructure from Rittal. The system suppliers equipped the new data centre with the energy-efficient cooling system LCP Plus and high-load server enclosures from the TS 8 series.

Energy savings of up to 40%

Rittal TS 8 enclosures and Rittal Liquid Cooling Packages are ideal for use in modern high-density data centres, in which blade servers introduce ever greater loads and waste heat into the server racks. The modular TS 8 system is designed for a weight of up to 1,600 kg. The special feature of the Rittal LCP compared to conventional climate control solutions is its immediate proximity to the heat source. Circulating cooling systems simply supply a mass of cold air to whole data centre rooms, each of which accommodates a multitude of servers. The LCP, by contrast, is installed directly alongside the racks and provides for targeted delivery of the cold air in front of the servers. In this way, the Rittal system is not only able to dissipate very high heat loads, but also reduces the energy consumption for climate control by up to 40 per cent.

“Rittal’s LCP Plus cooling system meets two key criteria for the EEC: First, the cooling is integrated into an enclosed environment. That gives us the ability to monitor it in a much more targeted way and to develop even more energy-efficient solutions for the future. Secondly, this solution is more portable and flexible than the traditional centrally cooled data centre.”

Michael Dillon, Microsoft EEC
“You don’t have to worry about a thing. We take care of everything.” Rittal Global Service is there to ensure this pleasant feeling of security and availability. We are on a worldwide mission to ensure that every aspect of our products is exactly as it should be: Perfect.

Rittal’s added value begins with the quality of our products, and extends throughout every phase of the process, from planning and commissioning, right through to support and servicing once the system is up and running. Only “Rittal – The System.” can provide this great feeling of satisfaction and all-round support.

The Rittal performance spectrum:
- 12 high-tech production sites
- Over 60 international subsidiaries
- Over 40 international agencies

“Our project for Berlin Airport was completed without a hitch. This is partly thanks to the cleverly thought-out technology behind the Ri4Power system.”

Martin Kopf,
Elpro project manager
“One of the main reasons why we use Rittal is the availability of 3D data, the excellent links to engineering tools such as EPLAN Cabinet or P8, and the project support for climate control with user programs such as Therm.”

Hans-Peter Kasparick, Head of Process Engineering and Systems Engineering, Siemens WKC

“The Rittal logistics mean that simple switchgear can be supplied in a turnkey state in just three days.”

Karsten Scharte, Managing Director, ISAB
Rittal – The System.

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ENCLOSURES  POWER DISTRIBUTION  CLIMATE CONTROL
Congratulations!

Every day, more and more customers are delighted with their perfectly coordinated enclosure architecture. Thanks to the modular TS 8 system, your investment is completely future-proof. “Rittal – The System.” congratulates you.
Rittal – The System.

Faster – better – worldwide.

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