

Rittal – The System.

Faster – better – everywhere.

Rittal + Eplan Innovations 2025



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Efficiency Drivers for Your Process

Panel building and switchgear manufacturing

Standalone product solutions are not enough. The only way to drive forward efficiency in panel building and switchgear manufacturing is to address the entire value creation process as a whole, from planning and plant engineering through to operation.

It is only by cleverly combining data, software, and hardware to harness their full potential that we can achieve that all-important “MORE.” Eplan and Rittal help with this by providing solutions that cover each and every stage throughout the entire process – all from a single source.

More quality for data

The Eplan Data Portal gives planners rapid online access to high-quality data from big-name component manufacturers. Being able to transfer this data easily reduces the outlay involved in projects. Everything can move even faster when using the pre-configured solutions known as “Industry Standard Projects”.

More efficiency in engineering

Eplan Electric P8 for creating wiring plans, Eplan Pro Panel for 3D-assisted design and Rittal RiPanel for enclosure configuration ensure that electrical engineering companies are ideally equipped for the future – and can save up to 40% on planning costs.

More productivity in plant engineering

When using automation solutions from Rittal, the machining of enclosures, fit out, and wire processing can all be completed up to 85% faster. Software-based assistance systems from Eplan make assembly and wiring even more straightforward.

More availability in operation

Rittal Service helps with rapid response times – thanks to 150 service sites around the world and more than 1,000 service specialists.



Experience Value Creation Live

How can panel builders and switchgear manufacturers make the leap into the world of digitalization and automation – and how can they prepare for the future? Answers to these questions can be found at the Rittal Application Centers (RACs).

Rittal Application Center

Join. Apply. Grow.



The concept:

Rittal is turning the spotlight on the customer and their workshop, application scenarios, and processes. These are the places where existing and new customers can work with experts from Rittal to develop their projects, get to know new technologies, and try these technologies out easily – all in the spirit of “Join. Apply. Grow.” The combined expertise of Eplan, Rittal, and Rittal Automation Systems is unparalleled on the market. The RACs are where the interplay between these solutions throughout the entire value chain comes into play. As a user, you can experience this live in a genuine workshop environment. Our goal is to show you new development opportunities for the future and thereby continue to enhance your competitiveness.

What you can expect:

- Process standardization
- Short training times
- Increased reproducibility
- Reduction of data sources
- Shorter throughput times
- Increase in production capacities and reduction in production costs

Together, we will lift your productivity to a whole new level!

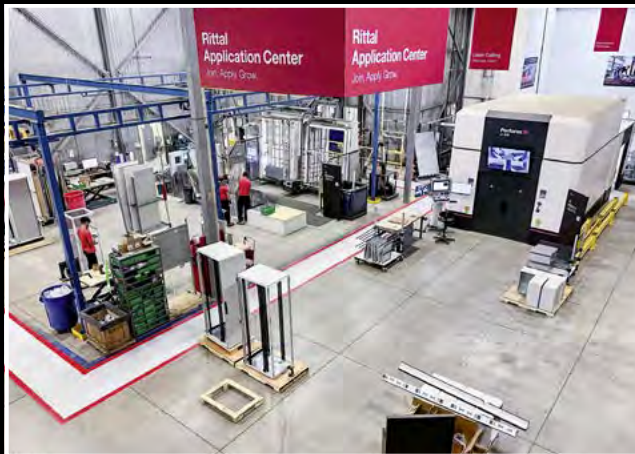
Standard Services:

- Modifying Rittal enclosures
- Installing Rittal system components and accessories

Additional Services:

- Planning and pre-assembly of low-voltage switchgear
- Precise machining of copper busbars
- On-site delivery with optional on-site installation
- Special logistics services





Rittal Application Centers worldwide – combined expertise within easy reach

Our team looks forward to seeing you at the following locations

- USA: Houston
- Canada: Mississauga
- Belgium: Lokeren
- Germany: Gera and Rittal Innovation Center Haiger
- UK: Hellaby
- Italy: Valeggio
- Japan: Odawara
- Austria: Vienna
- Poland: Stryków
- Sweden: Ängelholm
- Switzerland: Neuenhof
- Czech Republic: Zdíby



Find out more about
Rittal Application Centers:

www.rittal.com/rac

My Rittal Online Shop

The online shop is the central point of contact that makes it easy to order from our comprehensive range of enclosure, power distribution, climate control, and IT infrastructure solutions.



You can use the online shop to...

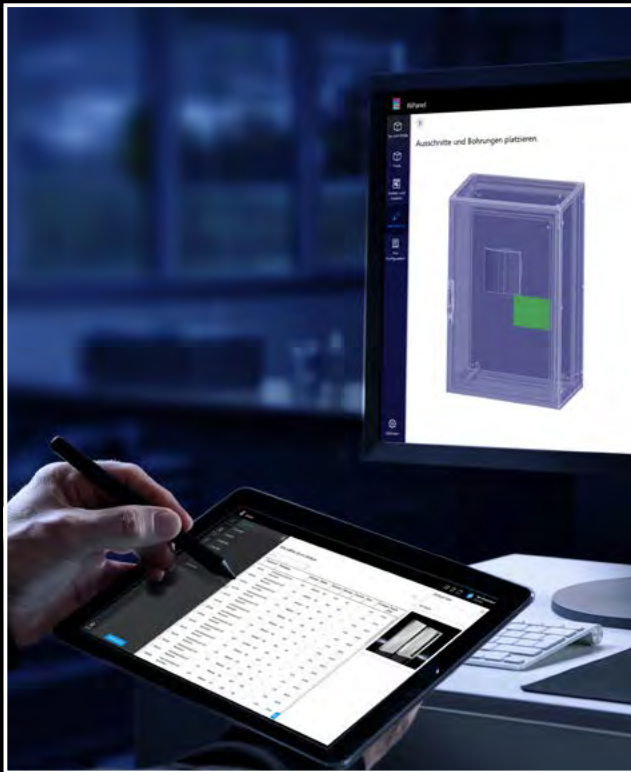
- Place an order conveniently, quickly, and efficiently – any time, any place
- Check the availability of products
- Configure solutions in RiPanel and quickly find accessories and spare parts
- Track orders and view your order history
- Upload and download documents for efficient ordering (PDF, Excel, CSV files)
- Save and share shopping carts and create and edit projects
- Manage user rights via at least one administrator
- View customized prices and terms and conditions



Find out more about
Rittal Online Shop:

www.rittal.us/onlineshop

RiPanel



Your cutting-edge tool for individual enclosure system configuration

Key functions at a glance:

- User-friendly interface
- Plausibility-checked selection of accessories
- Customized cut-outs and import of CAD data
- Automatic generation of technical data

Your benefits:

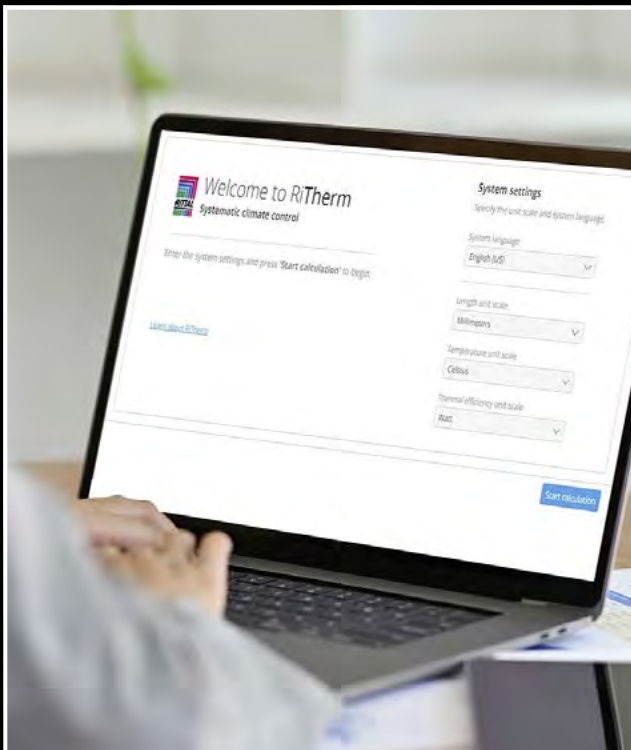
- Save time with configuration and ordering
- Avoid errors with the selection of accessories
- Parts list for improved planning
- Faster processes



Find out more about
RiPanel:

www.rittal.us/ripanel

RiTherm



Your climate control planning tool for enclosures

Quickly and easily design the correct climate control for your switchgear:

- Calculation and selection depending on the ambient conditions (indoor and outdoor applications)
- More accurate costings for bayed enclosures as a result of division into customised “heat loss zones”
- Improved documentation thanks to separate designation of the cooling output buffer
- Simplified product selection process because of customised product recommendations
- Support for compliance with international F-gas regulations due to GWP data and review of climate-control design



Find out more about
RiTherm:

www.rittal.us/ritherm

Eplan Pro Panel

End-to-end 3D planning for panel builders and switchgear manufacturers

Design your control cabinets, switchgear and power distribution systems for energy supply in 3D.

Eplan Pro Panel helps you create the basis for automating and streamlining your enclosure manufacturing even at the design phase.



A complete digital description of your enclosure in a single solution – mechanical construction, electrical components, routing and climate control:

- The 3D enclosure model functions as a specification and database for production
- Profitable from batch sizes of just 1 up to mass production

Streamline your production processes in panel building and switchgear manufacturing

- Production has access to suitably prepared data and information
- Both manual and partially automated production processes are supported
- Reproducible processes with automated enclosure machining and wire processing



Find out more about
Eplan Pro Panel:

[www.eplan-software.com/
pro-panel/](http://www.eplan-software.com/pro-panel/)

Eplan Smart Mounting



Your digital mounting assistant for enclosure production

The manual mounting of mechanical and electrical components in enclosure production just got easier with Eplan Smart Mounting. Precise work instructions, combined with 3D visualization, ensure efficient configuration of your enclosures based on the digital twin from Eplan Pro Panel.

- Rails, ducts, components: All information on rails, ducts, and components is visible at a glance
- Component status based on the traffic light principle
- Monitoring and reporting tool for production managers functions at work operation level



Find out more about
Eplan Smart Mounting:

[www.eplan-software.com/
smart-mounting/](http://www.eplan-software.com/smart-mounting/)

Eplan Smart Wiring

Your virtual assistant for manual cabling in control cabinet manufacturing

From each connection point to the wire connection to the exact installation route, the software provides the wiring technician with all the information digitally as a wiring list. If required, this can also be supplemented by a 3D view of the control cabinet.



In the event of changes, project synchronization and the display of all necessary activities ensure that nothing is overlooked. Status information facilitates project handover between employees and enables project monitoring.

- All wiring information at a glance: mounting structure, equipment, connections, connection types, and installation routes.
- As a wiring technician, you will receive detailed step-by-step instructions for easy implementation.
- Wiring is also possible without regularly looking at the circuit diagram. If required, this is stored in the wizard.



Find out more about
Eplan Smart Wiring:

www.eplan-software.com/smart-wiring

Eplan Cable proD

Software for efficient machine cabling

Eplan Cable proD enables the virtual cabling of machines. The software digitizes the planning and provides all the information for the use of pre-assembled cables from ordering to assembly on the basis of a digital twin.



- The installation routes and thus the length of the cables is clearly determined on the digital machine model as early as the engineering stage.
- Electrical engineering requirements are visualized in the MCAD model. This ensures that cables can be installed as planned.
- “Nasty surprises” due to errors that are only recognized during installation are a thing of the past.
- The digital twin provides all important information for cable installation via a viewer.



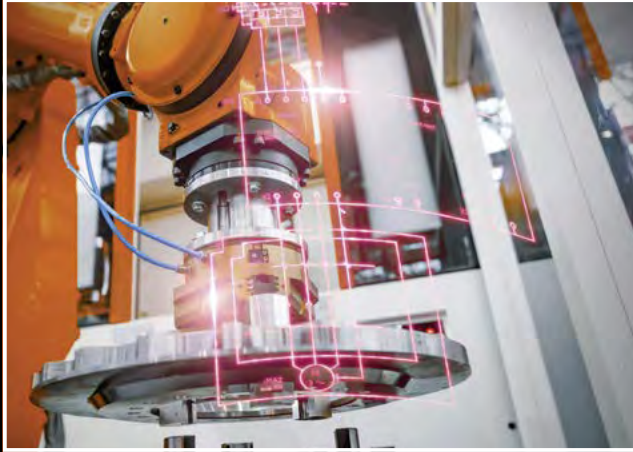
Find out more about
Eplan Cable proD:

www.eplan-software.com/cable-prod

Eplan Platform 2025

Professional design in electrical engineering

With Eplan, you can plan your electrical designs in one engineering system consistently, comprehensively, and quickly.



Thanks to standardization, new options in part data management, and access to component data via QR code directly in the schematics, the new Eplan version stands for more quality and data depth in circuit diagram creation.

- Supplementary Eplan Cloud Services can now be accessed directly via the Eplan menu and facilitate data management and collaboration across departmental and company boundaries.
- The Eplan Engineering Standard offers installation guidelines, as well as application and industry examples as a basis for your individual standardization.
- Use the latest update eLearnings for a quick introduction to the new Eplan solutions.



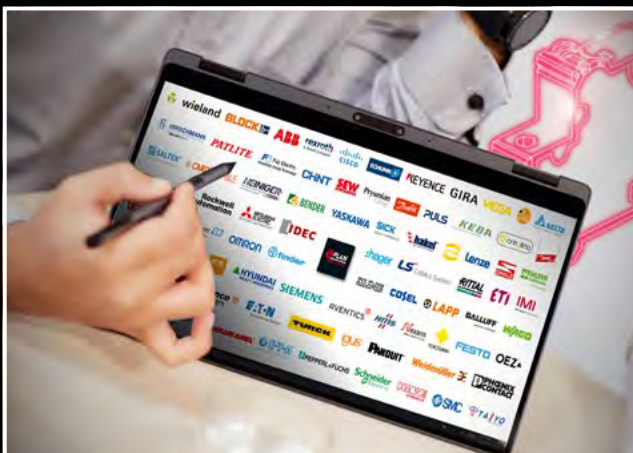
Find out more about
Eplan Platform 2025:

www.eplan-software.com/eplan-platform

Eplan Data Portal

Hundreds of manufacturers and millions of component data

The Eplan Data Portal gives you direct online access to high-quality product catalogs from numerous component manufacturers.



The simple drag & drop transfer of the components offered into the Eplan documentation reduces the project planning effort and increases the quality of the machine and system documentation.

- Find standardized, intelligent, and internationally valid device data quickly and easily.
- Minimize the effort involved in maintaining article data.
- Direct access to numerous configurators from leading component manufacturers simplifies and speeds up technical product selection.
- Increase the quality of engineering through greater data depth in your automation documentation.



Find out more about
Eplan Data Portal:

www.eplan-software.com/eplan-data-portal

Enclosures



Product group		Small enclosures	Wall-Mounted enclosures	Hygienic Design	
		Tough enough to take it all – there are practically no limits to the scope of applications for these robust small and compact enclosures. Electrical, electronic, and pneumatic components are securely encapsulated with a high IK impact resistance.		Hygienic Design (HD) enclosures are key elements in the design of open processes for the food industry and clean rooms due to their ease of cleaning.	
Material	Fiberglass-reinforced polycarbonate	■	■	–	
	Aluminium	■	–	–	
	Carbon steel	■	■	–	
	Stainless steel	■	■	■	
Dimension options		More than 160 small enclosures and 160 wall-mounted enclosures in a range of individual materials and designs.		30 different enclosure types and sizes.	
Product characteristics		Exceptionally robust and with a high NEMA and IK protection class, Rittal small and wall-mounted enclosures are compliant with all major international approvals and standards.		The range is based on common standards, directives, and regulations in the food and luxury goods industry.	



	Enclosure systems	Console systems	PC enclosure systems	Industrial workstations	Operating housings	Support arm systems	Stand systems
	Simple, fully symmetrical, and patented worldwide – this is the successful formula that has established the VX25/VX SE as a global standard.	Versatility through modularity – essential for cost-effectively meeting individual customer requirements for machine and plant operation.			Always exactly the right height and position with a range of viewing angles.		
	–	–	–	–	–	–	–
	–	–	–	–	■	■	–
	■	■	■	■	■	■	■
	■	■	■	–	■	■	–
	Free-standing and bayed enclosures in more than 120 options for controlgear production and plant manufacturing.	Choose from console systems in over 30 combination variants, 8 PC enclosure systems, and 13 variants of Industrial Workstations.			With over 30 operating housings, 5 support arm systems with a wide range of combination options, and 8 stand systems, there is a solution for every requirement.		
	Infinite installation opportunities, simple assembly, uncompromising baying and tested quality are the distinguishing features of these enclosure systems. QR codes on all machinable components.	Robust and modular, especially designed for tough industrial environments where a high protection category and good accessibility are key.			Flexibility, stability, simple assembly, and tremendous versatility with product combinations mean that every requirement is catered for.		

AX Wall-Mounted Enclosure, 3-part



More flexibility!

The new enclosure with a simplified delivery concept offers more flexibility in terms of product selection and can be used for many applications. It can also be easily fitted out using AX and VX system accessories. One basic enclosure – Countless opportunities. Extend without machining using Rittal system accessories.

- The 482.6 mm (19") range may be flexibly used in the center part (depending on the required installation depth)
- Access from the front and rear for maximum user-friendliness during installation and maintenance

Coming soon! Contact your Rittal rep for more info.

AX Wall-Mounted Enclosure, Carbon Steel



- Simple, flexible interior installation
- Configuration without machining

New sizes added to the AX wall-mounted enclosures in carbon steel. The wide enclosures offer an alternative to bayed enclosure suites for various applications, and are ideal as underfloor enclosures in mechanical engineering or for conveying applications in logistics.



Find out more about the AX wall-mounted enclosure, carbon steel:

www.rittal.us/ax

AX Wall-Mounted Enclosure and VX C4-H Baying Enclosure System



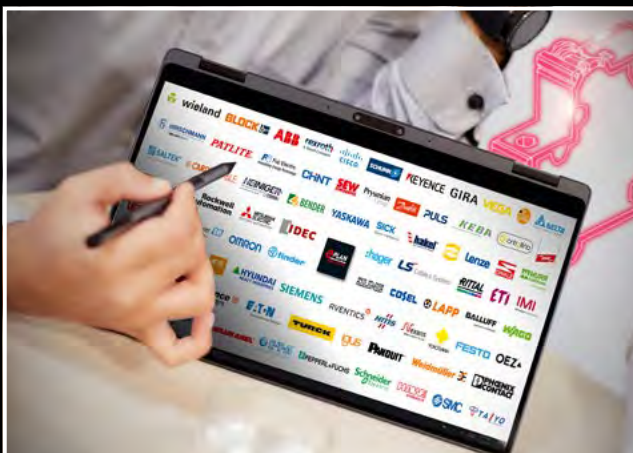
Coming soon, discover the AX/VX C4-H options from Rittal with surface coatings analogous to ISO 12944. The special spray-finish on the body and enclosure panels, plus zinc magnesium coating of the VX frame, ensure high levels of corrosion resistance.



■ Corrosiveness category C4-H (high) analogous to ISO 12944

Availability VX: Off-the-shelf

Availability AX: Coming soon



Find out more about
C4-H:

www.rittal.us/c4h

CS Toptec, Bayable Outdoor Enclosure



The bayable CS Toptec translates the tried-and-trusted baying concept of Rittal large enclosures into the twin-walled outdoor enclosure system. With an extended range of sizes for enclosures up to 70.9" (1800 mm) high and direct installation options for Blue e+ outdoor cooling units or Blue e+ fan-and-filter units, the Toptec is ideally suited to a wide range of outdoor applications.

Benefits:

- Side panels and baying kit selectable as accessories depending on the application
- Interior fit-out with the Rittal modular system

Availability: Off-the-shelf



Find out more about
Toptec outdoor enclosures:

www.rittal.us/toptec

Small and Wall-Mounted Enclosures – Versatility Off the Shelf



The extensive portfolio of small and wall-mounted enclosures is available ex-stock in carbon steel, stainless steel, and fiberglass-reinforced polycarbonate. Enclosures for special requirements such as for use in the sensitive environments of the food and beverage industry or in explosion-prone areas are also available off the shelf.

A comprehensive range of accessories can be installed in the enclosures without the need for machining. The high protection category of the enclosures – up to NEMA 4X – ensures they can safely be used for various applications.

Availability: Off-the-shelf



Find out more about
wall-mounted enclosures:

www.rittal.us/junctionbox



Find out more about
small enclosures:

www.rittal.us/wallmount

Hygienic Design Pushbutton Enclosure



The new HD pushbutton enclosures with 30.5 mm cut-outs are ideal for use in the open processes of the food and beverage industry.

- Lid with gap-free silicone seal
- Hygiene-compliant quick-release hexagon fastener

Availability: Off-the-shelf



Find out more about
Hygienic Design switch housings:

www.rittal.us/hd-pushbutton

Hygienic Design Viewing Window



Optimum protection of switches and displays available in three sizes.

- Optimum seal thanks to slot-free transition between the viewing window and the frame
- All three variants have a large viewing panel

Availability: Off-the-shelf



Find out more about
the Hygienic Design viewing window:

www.rittal.us/hd-window

VX Base/Plinth System, Stainless Steel



The new stainless steel base/plinth offers simple interior installation options via the new corner piece.

- High corrosion resistance and stability
- Configured using various rails, bars, and cable clamp rails
- Cover caps can be replaced with stainless steel versions available as accessories

Availability: Off-the-shelf



Find out more about the VX stainless steel base/plinth system:

www.rittal.us/vxplinth

AX Base/Plinth System, Sheet Steel



Following our new design principle, the base/plinth boasts maximum space for individual cable entry with an optimised trim panel concept.

- High level of stability
- The base/plinth can be configured using rail systems via side elements
- With positioning aid for enclosure attachment

Availability: Off-the-shelf



Find out more about the AX sheet steel base/plinth system:

www.rittal.us/axplinth

CX One-Piece Console



Versatile console for monitoring and operating machinery and equipment. Compatible with the AX and VX accessory platforms.

- Flexible interior fit-out with the Rittal modular system
- Flexible cable entry
- The supplied gland plates are easily exchanged for VX gland plates from our system accessories range
- Lock systems are easily replaced with AX handles

Availability: Off-the-shelf



Find out more about
the CX one-piece console:

www.rittal.com/consoles

CX Console System



The CX console system delivers maximum flexibility. Whether you only use the pedestal or opt for a 2-part / 3-part assembly with desk unit and/or console, you can count on having maximum reliability and accessibility when monitoring your machines and systems.

- The straight back on the console part enables external mounting of climate control components such as fan-and-filter units
- Compatible with the AX and VX accessory platforms

Availability: Off-the-shelf

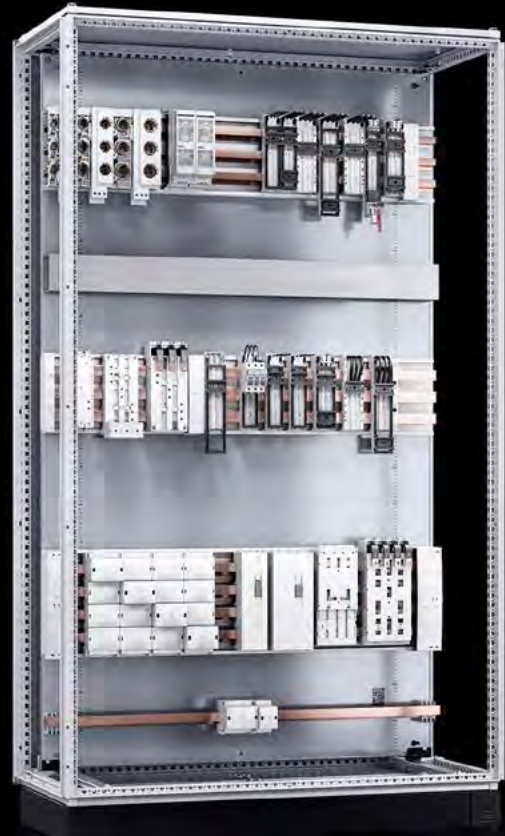


Find out more about
the CX console system:

www.rittal.us/consoles

RiLineX

NEW! Coming soon in 2025

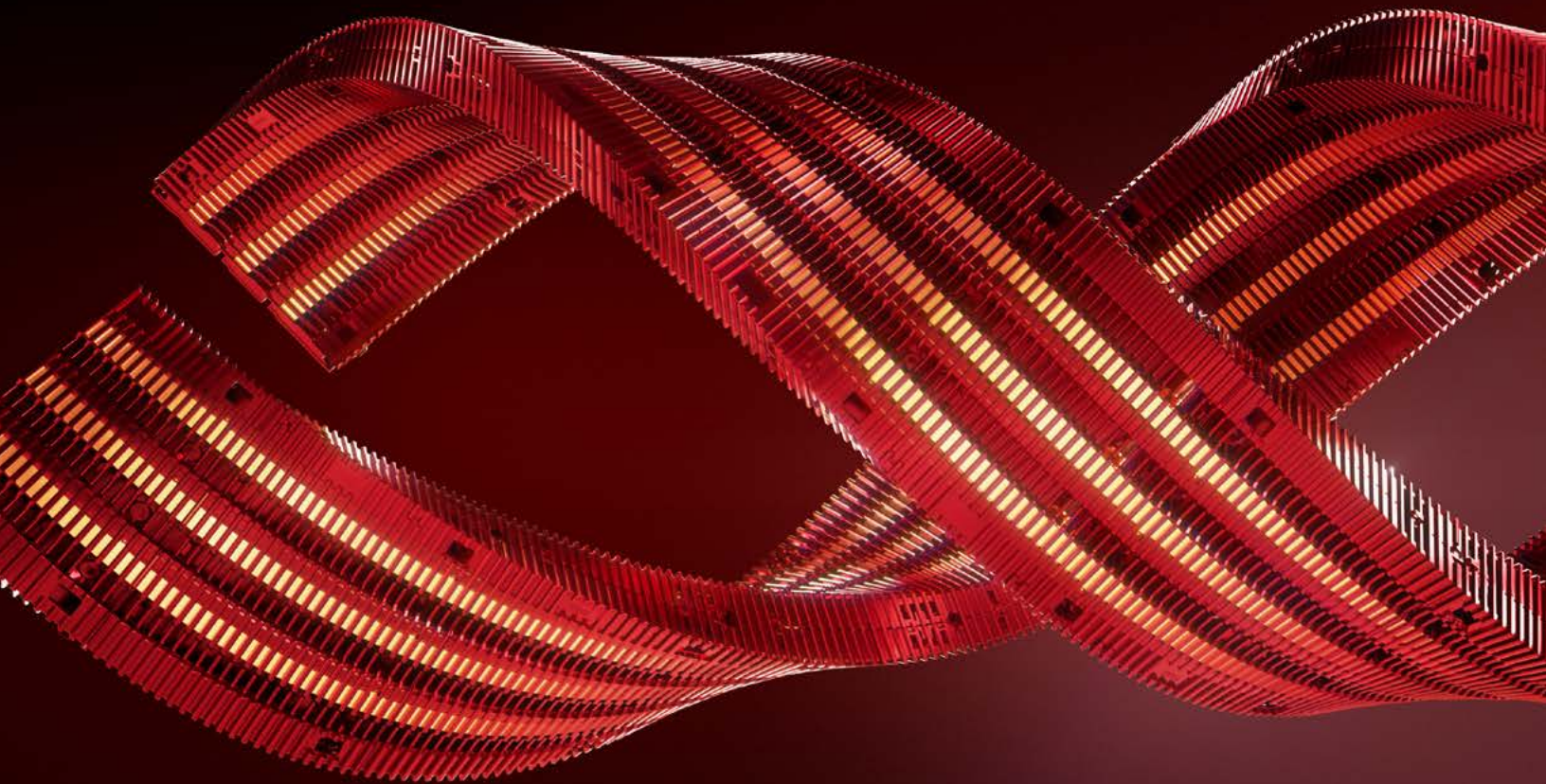


	RiLine busbar systems			
	The tried-and-trusted, super-flexible power distribution systems for custom requirements, from small power distributors to switchgear, controlgear, and heavy-current power distributors for infrastructure and industry applications. Simple, secure assembly plus user-friendly planning with design verification are the distinguishing features of these systems.			
Systems	RiLine Compact	Mini-PLS	RiLine60	
Bar center distance mm	60	40	60	
Rated current A up to	160	250	800, 1600	
Product characteristics	■ Contact-hazard-protected board with integral busbars for the safe accommodation and contacting of components ■ The board and all components are simply top-mounted, with no tools required ■ Suitable for AC and DC applications	■ Space-saving design, as components can be installed above the busbar supports and bar connector elements ■ Simple component installation via plug and lock action from the front ■ Optimum contact hazard protection with all-round encapsulation	■ Thanks to the special design of the PLS special busbars, components can be installed above them in the support area without any problems ■ Optimum contact hazard protection with all-round encapsulation ■ Suitable for AC and DC applications	



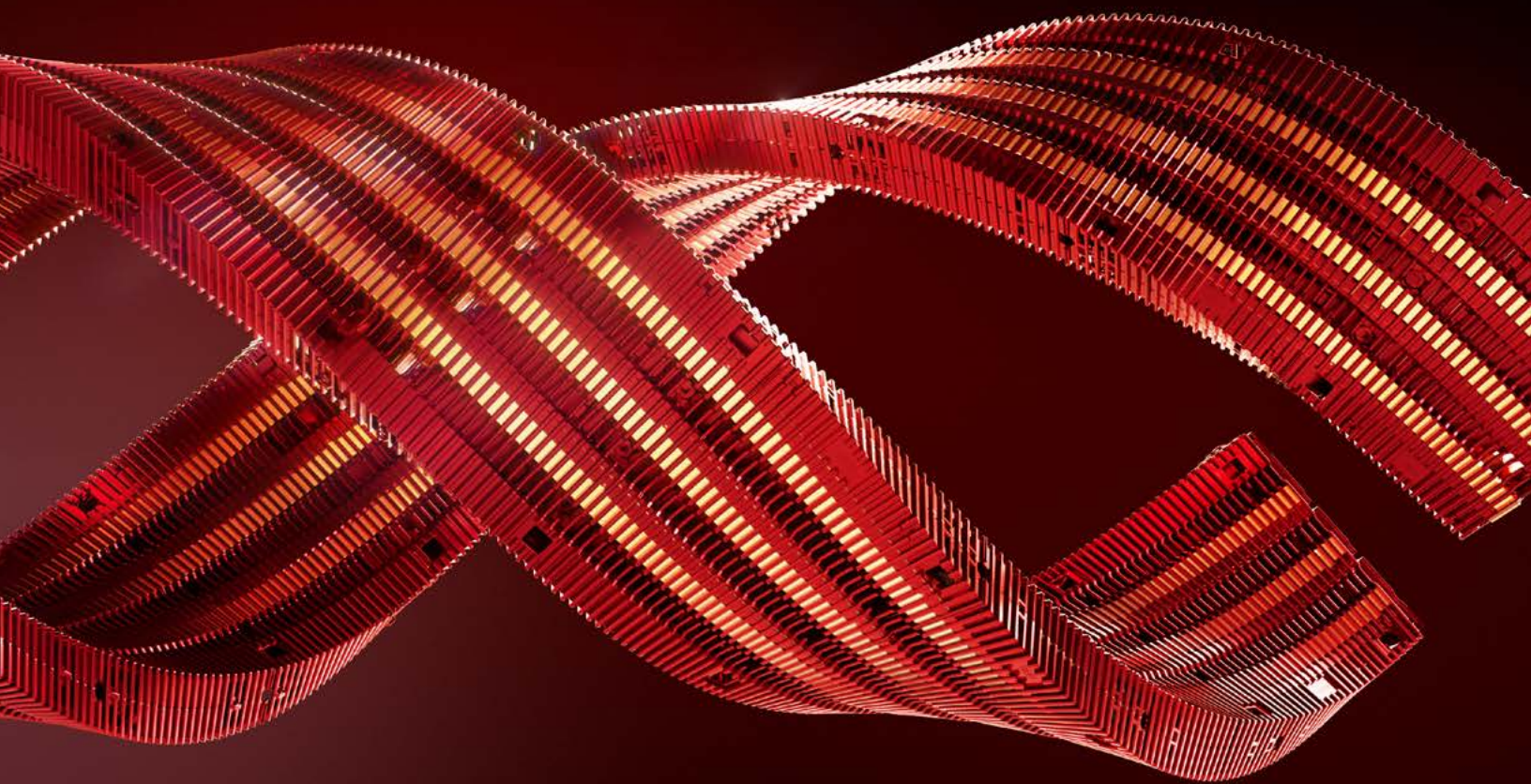
	Ri4Power low-voltage switchgear		
	The tested and complete enclosure and bar solution. Enclosure and bar system. Mutual interference between electrical equipment in low-voltage switchgear systems has already been tested to IEC 61439 and confirmed with a design verification.	Modular system for low-voltage switchgear with design verification to IEC 61 439-1/-2 and DIN EN 61 439-1/-2 plus power distributors and structured system solutions for switchgear with 1-4b Form separation.	ISV distribution enclosures for standard-compliant power supply in buildings and industry. Flexible configuration with practical power distribution modules.
	Ri4Power 185 Compact	Flat-PLS	ISV distribution enclosures and wall-mounted distributors
	185	60, 70, 80, 185	60, 100, 185
	2100	6300	1200
	■ Components in the pitch pattern of the cover system can be installed above the busbar support ■ Integral busbar shielding in the cover section to prevent accidental arcing ■ Components can be installed above the cover section and components can be retrofitted quickly without removing the cover section	■ Tested system solutions to the internationally valid IEC 61 439-1 standard and simple creation of the design verification ■ High levels of short-circuit withstand strength up to I_{cw} 100 kA for 1 sec./I_{pk} 220 kA ■ Tested accidental arcing protection to IEC 61 641	■ Distribution enclosures as wall-mounted and free-standing enclosures for individual population with modular elements

Innovative Strength in Our DNA



Coming soon... RiLineX - busbar system

The requirements placed on state-of-the-art, dependable power distribution are growing all the time due to developments such as the growth of electrification and the energy savings brought about by the switch to direct-current technologies. Demand for internationally recognized and approved components is also growing. This new system platform utilizes the DNA of our modular platforms and is the result of over 40 years of experience in power distribution.

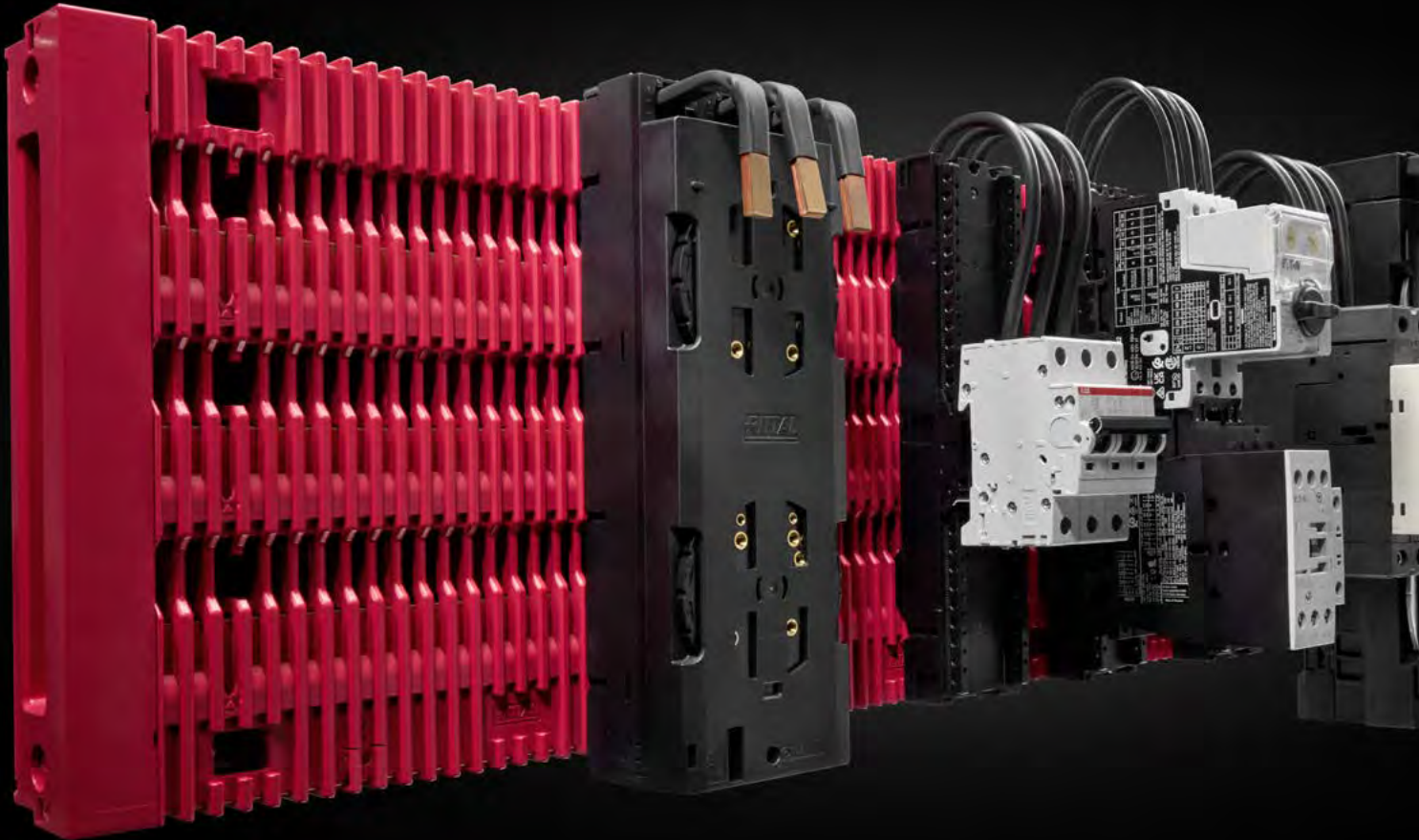


With RiLineX, we and our partners are setting the global standard in power distribution across all sectors – from the process industry to renewable energies. This open system platform is not just ideal for today's requirements, it has also been designed for the future.

RiLineX is the optimum basis for efficient and sustainable power distribution and supports the integration of new technologies on its innovative busbar system.

Innovative Strength in Our DNA

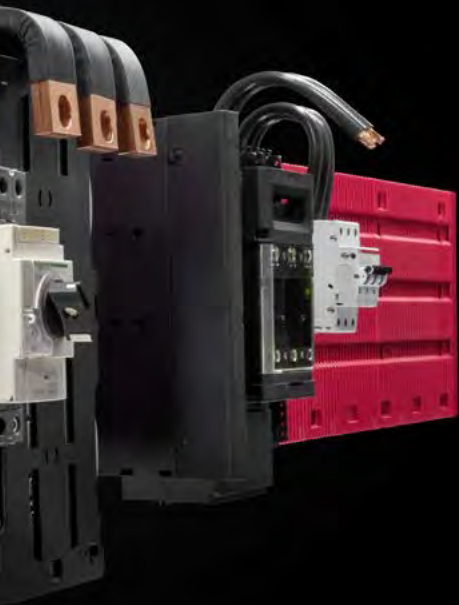
RiLineX
THE POWER PLATFORM



Become a partner!

Businesses deliver genuine customer benefits when they don't just supply standalone products and proprietary solutions, but actually offer solutions that span multiple processes and meet the needs of entire value chains. That is why we work with our partners in the Rittal partner network to enhance our joint reputation as a solution provider in the markets, expand our shared customer base, and build a global network of experts. Our RiLineX partner program gives you, as a component manufacturer, the opportunity to bring your technology to our platform license-free..

- Raise your profile within the Rittal ecosystem.
- Become part of an innovative power platform.
- Create added value through pooled expertise.



Nine good reasons to use RiLineX

- X Fast and efficient planning thanks to a simple system design
- X Approximately 30% savings in engineering
- X Approximately 50% savings in assembly
- X Simple installation thanks to innovative plug-in system for the board and tool-free component fitting
- X Simplification thanks to modular system design
- X Contact hazard protection to IP 2XB, suitable for upgrade to IP 4X at front
- X Tested short-circuit resistance up to 52.5 kA
- X Suitable for applications up to 1000 V AC and up to 1500 V DC
- X Seamless approvals for UL/IEC

Rittal Energy Meter & Current Transformer

Transparency when it comes to identifying energy flows is the bedrock of any energy management solution. This transparency is made possible by energy monitoring using measuring instruments (Rittal Energy Meter) and by a suitable current transformer.

- Simple integration thanks to top hat rail mounting
- Low-power current transformer technology (333 mV) helps lower costs as there is no need for design work or the short-circuit terminals that are otherwise commonly used
- Identify potential energy savings and harvest optimization potential



Current transformers are compact and precise current measurement solutions that can be connected to the Rittal Energy Meter (REM). These transformers ensure measurements are transmitted reliably and efficiently at low voltage, which supports high precision and makes it easy to integrate the solution into legacy energy monitoring systems.

Availability: Off-the-shelf



Find out more about energy efficiency solutions:

www.rittal.us/energysolutions



Find out more about Rittal Energy Meter:

www.rittal.us/energymeter

Energy & Power Solution Configurator



The tried-and-trusted tried-and-trusted RiPanel configurator tool has entered a whole new era in power distribution and isolation. This configurator sets new standards for planning low-voltage switchgear and is fully integrated into the Rittal and Eplan cloud environment. By guiding you quickly and efficiently through the entire planning process, configuring the best solution for your application is simple and logical.

- Thanks to direct access to the online shop, you can order your custom configuration directly
- Generation of a design verification to IEC 61 439
- System documentation including assembly instructions



Find out more about RiPower:

www.rittal.com/RiPower-configurator

Ri4Power Combination Section



This combination section is based on the VX25 Ri4Power switchgear and power distribution system with a main busbar measuring 4 x 50 x 10 mm and a bar center distance of 185 mm.

- Combination of a circuit-breaker and several NH fuse-switch disconnectors in one enclosure
- The necessary testing to IEC 61 439 Parts 1 and 2 has been successfully completed in an independent test laboratory

Availability: Off-the-shelf



Find out more about the VX25 Ri4Power:

www.rittal.com/Ri4Power

Ri4Power Base System



An additional busbar position has been added to the VX25 Ri4Power busbar system for assembly in the roof or rear section. The main busbars can now be positioned in the base area as well.

- Tested up to 6300 A/100 kA
- Identical layout as for applications in the roof section
- Straightforward cable infeed and outlet in the roof section

Availability: Off-the-shelf



Find out more about the VX25 Ri4Power:

www.rittal.us/ri4power



One for all. Especially for you! “Rittal – The System.”

With tailor-made products, modern IT architectures and comprehensive service, Rittal offers individual solutions for every industry – for improved efficiency, greater added value, and more security.

VX ESS – Energy Storage Solutions



A flexible energy storage enclosure based on our proven VX enclosure system, specially designed to accommodate energy storage modules in a wide variety of dimensions.

This versatile modular system is also ideal for applications involving hydrogen, supercapacitors, and other energy storage media.



- Width pitch pattern adjustable in 6.25 mm increments, for energy storage modules in many different sizes
- Optimum organization with flexible positioning of the interior
- Efficient passive ventilation thanks to perforated door and rear panel
- Robust construction ensures a load capacity of up to 1,000 kg in total and 120 kg per slide-in level or 200 kg per heavy-duty shelf
- Modular energy storage component installation compatible with the CS Toptec outdoor enclosure

Availability: Q4 2024



Find out more about
energy storage solutions:

**[www.rittal.com/
energy-storage-solutions](http://www.rittal.com/energy-storage-solutions)**

Climate Control



Type of climate control	Fans, fan-and-filter units, air/air heat exchangers	Cooling units, Thermoelectric Cooler	
	Ambient air cooling units are ideally suited for dissipating heat loads exceptionally cost-effectively. The pre-requisite for this is that the ambient air must be relatively clean and at a temperature below the required enclosure internal temperature.	Cooling units keep the enclosure internal temperature at a constant level, which is independent of the ambient temperature. The air routing meets individual requirements. Two separate circuits prevent the ingress of dust into the enclosure.	
Air throughput, unimpeded airflow CFM	11.77 – 682.75	–	
Special thermal output W/C	17.5 – 90	–	
Total cooling output BTU/hr	–	272.97 – 19790.42	
Continuous thermal output BTU/hr	–	–	
Product characteristics	The new generation of Blue e+ fan-and-filter units is impressively simple to maintain. It is available in AC/DC, EC, and EMC variants. Fan-and-filter units with EC technology, in particular, deliver significant time and cost benefits with their IoT capabilities.	The Rittal Blue e+ series is the most efficient cooling unit on the market. With heat pipe technology as standard and speed-controlled components, average energy savings of 75% can be achieved.	



	Air/water heat exchangers, chillers	Enclosure heaters	Climate control accessories
	Efficient liquid cooling may be used in all situations where a high cooling load is required, such as process and machine cooling or when dissipating heat loss from enclosures via air/water heat exchangers. Liquid cooling allows you to achieve spatial separation between cooling production and process cooling.	Condensation poses a particular risk for control electronics, especially with outdoor siting. A range of output categories ensures that the correct thermal output is always available.	Perfectly coordinated components allow you to customize the climate control to your specific requirements, whether you need targeted air routing, precise control of the equipment or appropriate consumables.
	–	–	–
	–	–	–
	1023.64 – 170607.08	–	–
	–	34.12 – 2729.71	–
	Energy savings of up to 70% can be achieved with the Blue e+ generation of chillers. They ensure efficient cooling of liquid media with a high degree of control accuracy thanks to innovative DC inverter technology.	The innovative profile geometry means that heat is distributed evenly inside the enclosure and cold spots are prevented. The tool-free push-in connection technology speeds up the wiring process considerably.	With innovative accessories, the efficiency and reliability of climate control components can be additionally enhanced with monitoring, control, and individual air routing.

Blue e+ Fan-and-Filter Units with EC Technology



Revolutionary, IoT-compatible fan-and-filter units – Superior performance, sustainability, and reliability

Enter the future of fan-and-filter technology with Blue e+ fan-and-filter units. Alongside their pioneering IoT-compatibility, the outstanding filter performance with innovative pleated filter included with the supply sets these units apart.

These fan-and-filter units will unlock a host of benefits – higher air throughputs, and superior monitoring and sustainability.

Availability: Off-the-shelf

- Maximum air throughput with a standard pleated filter
- Easy filter changes, thanks to a new opening mechanism on the louvered grille
- Faster installation on the enclosure with optimized detent hooks
- IoT link including new filters (automatic filter cleaning, filter maintenance display, emergency cooling function)
- Multi-voltage capability 100 – 240 V
- The fan-and-filter units portfolio includes the options AC/DC, EC, and EMC



Find out more about
Blue e+ fan-and-filter units:

www.rittal.us/fan-and-filter-unit

Switching Refrigerants Made Easy!



In 2024, Rittal switched its entire cooling unit range from refrigerant R134a to R513A.*

The order numbers of the affected products will remain unchanged.

Cooling units that have already been installed can still be operated and maintained with R134a.

Affected product groups:

- Blue e cooling units 1023.46-13648.57 BTU/hr
- Blue e+ cooling units 5118.21-19790.42 BTU/hr

Benefit:

- Compliance with statutory regulations for refrigerants in the USA from 1 January 2025 in the case of cooling units and from 1 January 2026 for chillers

* The entire chiller portfolio is also being switched to R513A. The switchover will be completed in March 2025.



Find out more about switching refrigerants:

www.rittal.us/f-gas

Additions to the Chiller Portfolio



- More power options: Blue e+ chillers in 5118.21 BTU/hr and 23884.99 BTU/hr complement the series
- Higher efficiency in outdoor siting with Blue e+ Outdoor chillers in 13648.57, 18766.78, and 23884.99 BTU/hr variants
- Blue e+ Hybrid IT chiller in 23884.99 BTU/hr with integrated “outdoor” and “free cooling” option

Benefits:

- The “outdoor” option guarantees optimum protection from the weather, protection from the weather with an IP 54 rating for the electronic and high operating limits. The integrated heating also ensures that the cooling medium is brought to the optimum temperature before it is used. When the “free cooling” option is also used, the associated carbon footprint can be reduced by up to 90%.



Find out more about
Blue e+ chillers:

www.rittal.us/chillers

Direct Liquid Cooling (DLC) – Modular Platform Solutions



The Rittal Direct Liquid Cooling portfolio is available as:

- An air-based solution in the form of a rear-door heat exchanger or side cooler (38 kW and 55 kW)
- A water-based CDU in-rack solution (80 kW and 150 kW) and CDU in-row solution for very high performance densities up to 1 MW in your data center

Benefits:

- Modular concept for all units
- Redundant pump units and fail-safe mode for pumps
- Leak monitoring on an individual component basis
- Sensors and controllers can be replaced during active operation
- Pumps in the CDU in-row solution can be replaced during active operation
- Customer-specific distribution bars
- Power supply via DC busbar

Availability: Q2 2025



Find out more about
Direct Liquid Cooling:

www.rittal.us/dlc



IT category	IT enclosure systems/racks	IT power	
	The TS IT Pro is the bread-and-butter solution for all network and server applications, including data centers, edge locations, or hyperscale data centers. For colocations, our TS IT Colo rack provides the perfect, scalable platform that's quick to ship and implement.	Put your faith in innovative IT power concepts for energy distribution and backup to meet all your redundancy, scalability, and availability requirements.	
Product options	Over 100 enclosures, 4 distributor frames and 48 racks provide an unrivalled range in this sector, with a suitable solution for every requirement.	From a simple socket strip to interlinked power distribution units (PDUs) and a complete UPS system, choose the best possible power supply for your application from a range of options.	
Product characteristics	All enclosures are available off the shelf or with a short delivery time. All this plus a high load-bearing capacity of up to 4,000 lbs and a protection category of up to IP 55, allowing it to be used in tough industrial environments as well.	Optimum integration of the rack PDUs by mounting in the zero U space and professional monitoring by linking to standard DCIM software (such as RiZone). The voltage, current, active, and apparent power and power factor may be transmitted directly.	



	IT cooling	IT monitoring	IT security solutions	Modular data center solutions
	Climate control concepts from Rittal cover the full spectrum of applications, from cooling a single rack through to entire data centers. Security plus optimum energy and cost efficiency are paramount.	Today's IT landscape would be unthinkable without monitoring. It has become firmly established as a permanent feature of physical IT security, allowing modern IT infrastructures to be operated securely.	As well as security rooms, the Micro Data Centers Level E provide optimum protection against potential physical threats. Modularity and extendibility offer a high level of diversity and protection of your investment.	Rittal offers predefined MDC bundle solutions for up to four IT racks and various climate control options. There are also preconfigured RiMatrix data center solutions for modules with more than four racks.
	Demand-based cooling provides the basis for optimum energy efficiency in data centers thanks to 45 units with cooling outputs ranging from 3 to 481 kW.	More than 15 different sensors and upgrades ensure 360° monitoring of your entire IT infrastructure.	A flexible modular system allows you to configure a solution tailored to your requirements, for both security rooms and Micro Data Centers Level E.	The predefined RiMatrix data center modules can each cover up to 400 kW. This means that several modules in a data center can be combined.
	Integral climate control concepts for rack, suite, and room climate control help to minimize operating costs and ensure energy-efficient operation over a period of many years.	The CMC III monitoring system sets new standards in terms of configuration and reducing system complexity. It can communicate with a range of sensors and actuators via the integral CAN bus, and can be integrated into standard DCIM systems.	Protection from fire, flue gases, water and dust, as well as unauthorised access. Power supply, cooling, monitoring, fire alarm, and extinguisher systems round off this security cover into a complete data center.	The predefined solutions can be customised to ensure maximum flexibility and customer benefits with minimum planning outlay.

The Basis for Everything: The Flexible 19" Rack Solution



The TS IT Pro - Made in America, Ready to Ship

Inspired by a trusted design used by the world's leading hyperscalers, the Rittal TS IT Pro is an ideal solution for data centers that combines quality with cost-effectiveness.

Easy Ordering & Quick Deployment

Get your TS IT Pro customized and ready to ship with all necessary accessories pre-installed for streamlined deployment. The TS IT Pro guarantees standardization and consistency across various locations by a partner that can ensure a continuity of supply.

Availability: Off-the-shelf



Find out more about
the VX IT Open:

www.rittal.us/vx-it-open

IT Edge Solutions for Industry 4.0: in a Network Rack



Micro Data Center – All-in-One IT Infrastructure

- Standardized, all-in-one IT infrastructure for fast, no-hassle deployment
 - Includes enclosure, climate control, power, monitoring, and security
 - Industry-leading durability and security to be placed right on the factory floor
 - Highly effective thermal management and up to 75% energy savings when paired with Blue e+ cooling unit



Find out more about
the Micro Data Center:

www.rittal.us/micro-datacenter

TS IT Colo



Availability: Off-the-shelf

Get up and running fast.

The TS IT Colo enclosure provides more internal usable volume to support the highest cable and component installation densities. With no internal obstructions, both the 0U space and interstitial space between adjacent enclosures are maximized for installation availability. With USA-based manufacturing, a wide range of accessories, and dimensions currently favored by US colocations, Rittal's cutting edge platform helps your business unlock the future of colocation.



Find out more about our colocation solutions:

www.rittal.us/colo

Added Flexibility for TS IT!



Plinth for TS IT with VX compatibility

The new plinth clears the way for customized floor space configuration.

Boasting top-notch stability, countless options for flexible interior installations, and flush and seamless termination between baying points, the VX Plinth offers perfect support for TS IT enclosures. Some of the great benefits of this new plinth include convenient, flexible baying features and reliable stability. All current plinth features and enclosure compatibilities are retained.

Availability: Off-the-shelf



Find out more about the plinth:

www.rittal.com/plinth

Rack Based on the Open Compute Principle



44U OCP ORV3 rack

As a member of the OCP (Open Compute Project) community, Rittal has created the OCP ORV3, the only OCP-accepted rack in the world that is 100% compliant with the OCP ORV3 standard. It is also UL listed and guarantees maximum flexibility with integral castor modules and the option of tool-free assembly for 21" IT components with IT shelves.

The OCP ORV3 also has an integrated 48V busbar and is prepared to accommodate a direct liquid cooling solution. The rack is available in 44U with matching accessories.

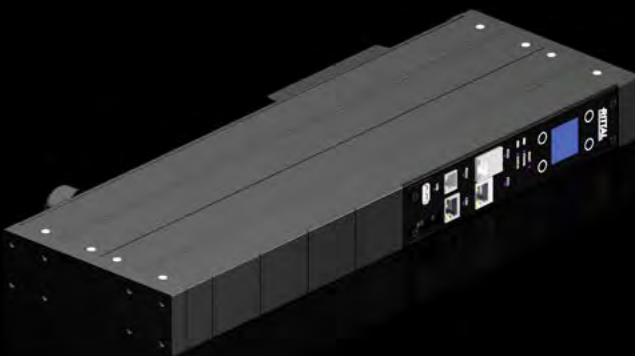
Availability: Off-the-shelf



Find out more about the Rittal OCP ORV3:

www.rittal.us/ocp-orv3

OT Monitoring: Reliable IT Operation



CMC III PU 19" – Ready to use

The new CMC III PU 19" edition provides a central monitoring unit for the entire OT layer. With up to 16 sensors, the processing unit collates data from the IT system enclosure and raises the alarm if defined limits are exceeded.

The 19" format means easier installation in the IT enclosure because no further accessories are required. What's more, the power pack is directly integrated, so the CMC III PU 19" edition is ready to use immediately.

Availability: Off-the-shelf

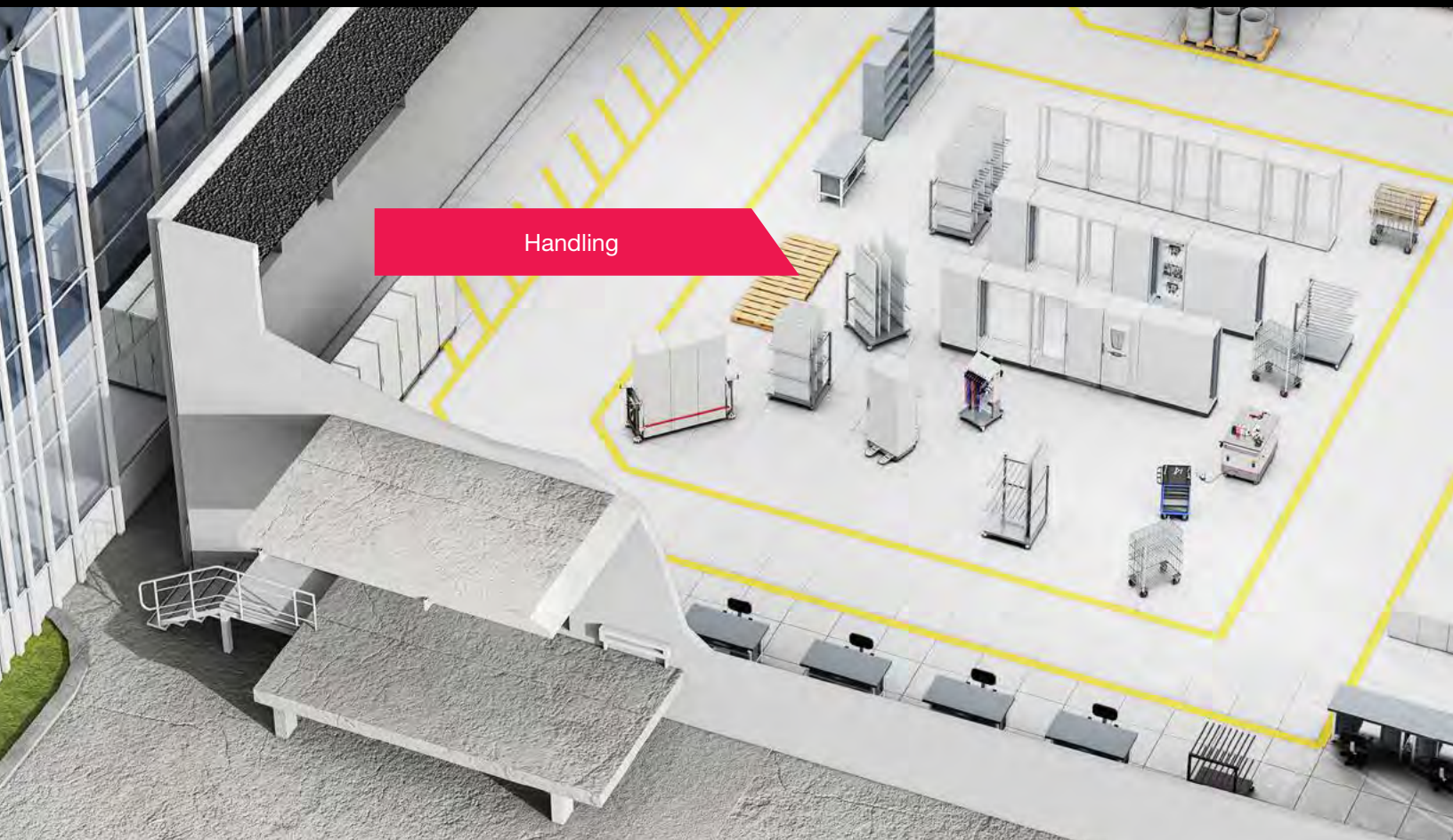


Find out more about the CMC III PU 19" edition:

www.rittal.us/cmclll



Automation with Rittal Automation Systems (RAS)



Milling



Laser Machining



Busbar Machining

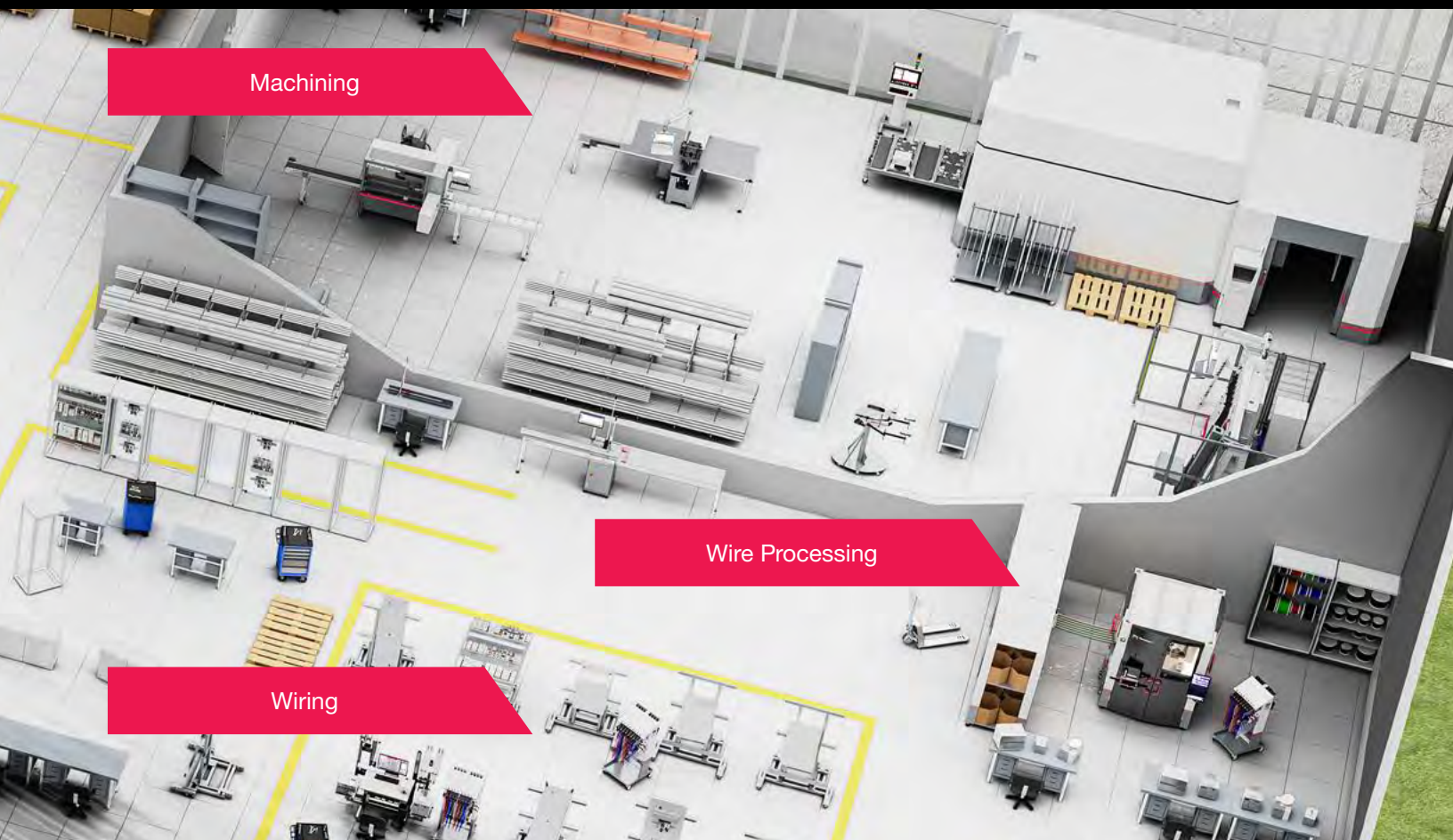


Component Cutting

Helping you forge ahead step by step

The solutions offered by RAS cover a whole host of individual processes and the entire manufacturing spectrum – from manual tools to fully automated machining centers.

- **Our machines** for the mechanical processing of metals work fast, accurately, and highly efficiently.
- Thanks to **automated solutions** for wire processing, we deliver enormous efficiency gains.
- Our **ergonomic handling tools** optimize process steps in manual activities.
- **We offer tailored advice**, tailored solutions, and flexible financing concepts for each next step in your automation journey.



Component
Mounting



Wire Processing



Wiring



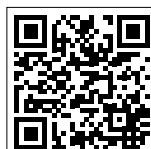
Handling



Manual Tools

Rittal Automation Systems –

the simple route to automating and industrializing your panel building and switchgear manufacturing.



Further
information:

www.rittal.us/automationsystems

Wire Terminal WT C

Automated Wire Processing



We reserve the right to make technical modifications.

Complete enclosure wiring 10 times faster

The Wire Terminal WT C is a fully automated wire processing machine that can process wires in bulk and prepare them for assembly 10 times faster than manual processing.

This machine can cut wires to length, strip insulation, crimp wires, and label them for specific projects. No manual intervention or retooling is required thanks to the WT C's capability of processing up to 36 different wires with cross-sections ranging from 0.5 mm² to 6 mm².

Other benefits:

- Save up to 80% time on wire designing, cutting, stripping, crimping, and labeling
- Integration with Eplan Smart Wire software
- Simple step-by-step instructions without complicated wiring diagrams

Other benefits:

- Eplan reduces design time, allowing users to execute projects faster with fewer resources
- Save time with Smart Wire by eliminating guesswork and simplifying verification
- Boost manufacturing output and unlock the full potential of the WT C with the Eplan Data Portal



Find out more about
the WT C:

www.rittal.us/wtc

Busbar Punching Machine



We reserve the right to make technical modifications.

Precise, efficient, in-house busbar modification

The FlexPunch is ideally suited for all automated busbar punching and machining.

With a quick-change tool function, this solution allows you to punch and cut flat materials quickly and precisely to the required length.

With powerful tool springs and correspondingly high retraction forces, even thick copper bars are punched extremely cleanly so that no reworking is required.

The seamless data communication via ethernet ensures professional machine monitoring and production analysis to boost your production efficiency.

Other benefits:

- Compact design
- Machining of copper and (on request) aluminum busbars
- Busbar sizes from min. 15 mm to max. 200 mm in width and min. 3 mm to max. 16 mm in thickness



Reach out about
our busbar solutions:

www.rittal.us/contactus

Overview of Our Services

Sustainability and energy efficiency are among the biggest challenges facing industrial companies today. This requires careful analysis of every aspect, from small pieces of equipment through to large-scale production machines.

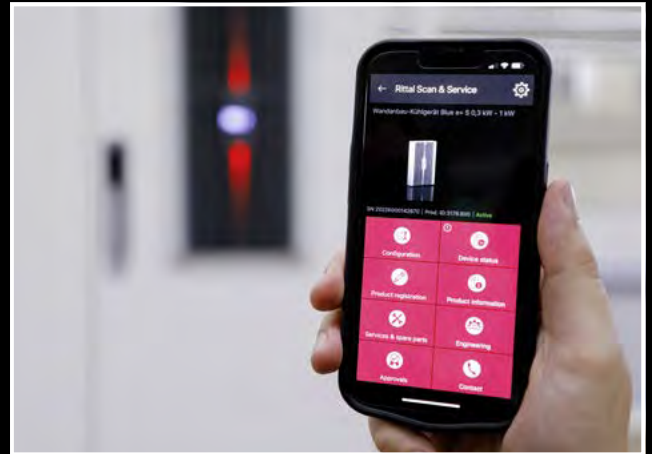
The demands on plant availability are increasing as the pressure on costs and resources continues to rise. Now more than ever, it is vital to continuously modernize and maintain your production equipment and keep it in optimum condition. The Rittal service team is on hand to support you with a comprehensive range of one-stop services, short response times, and qualified service engineers offering in-depth product and system knowledge.



Global service network

Wherever your plant or system is located, we are on hand to assist. Our global service network means you can rely on consistent quality. Our local experts always support you, whether by providing quick, straightforward assistance over our service hotline to help resolve minor issues or travelling to you to carry out repairs, conduct regular maintenance, or replace equipment.

- All from a single source
- Manufacturer expertise
- Always nearby



Scan & Service app

Want to configure your climate control devices quickly and easily? Simply scan the QR code on the rating plate for detailed information about every Rittal product. The NFC scan gives an overview of your device statuses for easier configuration. That's no problem when using the Scan & Service app.

- Save time by transferring your settings to other cooling units
- Contact Rittal around the clock
- Easily request accessories and spare parts

Register your product now in the app and get an extended warranty.



Find out more about
Rittal Services:

www.rittal.us/service



Download here:



Efficiency and service check

Is your cooling unit still efficient and up-to-date? Let us check it for you with the Rittal efficiency and service check! We capture data on site and check the general condition and service status of your equipment. By carrying out energy analyses, we show you how much you can save – for the sake of the environment and your budget.

- Overview of the current status of your equipment
- Illustration of energy consumption and costs as well as potential savings
- Specific and detailed programs and initiatives for energy audits to ISO 50001



Modular service contracts

Would you like to be able to plan your maintenance and costs? We help keep your products up-to-date! Choose from a range of modules and compile your own tailored service agreement.

- What response times do you need?
- What are the ideal maintenance intervals for your application?
- What are your requirements in terms of spare parts availability?

Your choice – our concern!





One for all. Especially for you! “Rittal – The System.”

With tailor-made products, modern IT architectures and comprehensive service, Rittal offers individual solutions for every industry – for improved efficiency, greater added value, and more security.

EPLAN

efficient engineering.



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



www.rittal.us/contactus

Your Eplan contact.



www.eplan-software.com/contact

FRIEDHELM LOH GROUP

