



Integral packaging solutions for airports



**From enclosure and case systems
through to entire climate control
and security solutions**

Focus on security and economics

Technology packaging for the aviation industry – Rittal is your partner

Be it building equipment, air traffic control systems or services for passengers and airport technology, Rittal's expertise is geared to your success. The result? Perfect unity between the enclosure system, equipment, system climate control, and security monitoring.

We offer a complex spectrum of solutions, coupled with a delivery and service network providing comprehensive worldwide coverage for planners, operators, equipment suppliers and service partners of the aviation industry.

Reap the benefits of Rittal's expertise, use the Rittal added-value package for your success.

Solution diversity through system platforms

Pre-configuration saves time

Complete, thanks to system integration

Global proximity with a local presence

Secure your competitive lead with a quality advantage

Perfect solutions through planning expertise

Eliminate the risks with a security advantage

Benefit from our product portfolio



Solutions for the aviation industry – holistic and project-oriented.

Technology packaging is the key. Racks, enclosures and terminals to suit all requirements, both indoors and outdoors. Plus matching **equipment** with endless diversity. System configuration, power distribution components, electronic assemblies and equipment for IT networks.

Effectiveness and operational reliability are ensured by the correct **cooling**, coupled with centralised monitoring of all safety-relevant factors in and around the rack systems. Achieve total **security management** with the Rittal CMC-TC!

What is more, we also offer a complete **service**, covering everything from project planning to assembly and maintenance.

The sum total of the details determines the quality of the whole

Rittal contributes to every stage of the process

Packaging + Equipment + Cooling + Security.

From individual enclosures to integrated systems covering all airport tasks. The modules from our comprehensive range are combined to form individual solutions which are both project-specific and holistic.

For complete facility management and IT networks.

For all air traffic control, meteorological and apron services equipment.

For organisation of passenger, baggage, mail and cargo volumes.

For monitoring and alarm systems in case of fire, smoke, icing, vandalism and other forms of interference.

There is no question about it: As a packaging system partner, Rittal offers convincing technical, organisational and economic advantages.



17 Apron equipment workshop

Constantly in use: RiLab mobile workstation as a mobile diagnosis station.

18 Refuelling services building

For the refuelling zone: Ex enclosures made from stainless steel and plastic.

19, 20 Control tower, apron control

In climate controlled TS 8 electronic enclosures: Technology and recording systems for all radio traffic.

21 Approach radar (ASR)

Communication Systems Containers offer suitable accommodation, as well as meeting fire protection and EMC requirements.

1, 2, 3 Terminals

Here, the various different strands of the IT structure and the power supply converge in racks. The enclosure system used for both technologies is the TS 8.

4, 5 Car parks

Vandal-proof and monitored: Ticket terminals made from stainless steel.

6 ICE railway station

Information boards based on Command Panels or amplifier housings for mobile communications – choose from a broad spectrum of solutions.

7, 8, 9 Office buildings, airmail control centre, customs

Decentralised server and network solutions are accommodated in IT racks and enclosures.

10, 12 Freight halls, security check booths for freight and baggage

Stainless steel consoles and stainless steel PC cases are used as control or inspection workstations.

11 HGV maintenance halls

Here, industrial workstations serve as mobile diagnosis stations, whilst Ex enclosures are used at the refuelling station.

13 Aircraft hangars

EMC-compatible enclosures and cases eliminate interference when testing navigation assemblies.

14 Sound-proof installation for engine test runs

Twin-walled CS Outdoor enclosures are available to accommodate the technical equipment.

15 Fire service

The alarm network, positioned in specially protected IT racks. The control rooms are based on Industrial Workstation modules.

16 Snow-clearing and de-icing equipment hall

On stand-by for when it is needed! The enclosures used for power supply and service engineering are predominantly corrosion-resistant stainless steel enclosures.

22, 23 Glide path transmitter, localizer

CS outdoor enclosures meet all requirements in terms of volume and security.

24 Meteorological service

Solutions for extreme requirements: From stainless steel enclosures through to Power System Racks for high-performance computer systems.

25 Observation deck

Points of information, both inside and out. Opti-Line interactive terminals provide the answer, whatever the situation.

26 General aviation terminal

The application area for server, network and telecommunications racks. Centralised controlling and security management is provided by the Rittal CMC-TC.



System control centre

IT networks, facility management, and much more besides . . .

A constant flow of people, baggage and freight needs to be looked after and coordinated. Everything must run smoothly. The requirements are vast. As a result, reliable systems for power supply, process control, communication and security are vital.

Rittal meets the requirements of individual technology packaging with a universal selection of more than 8,000 standard products. **System platforms and modular technology** provide diversity and flexibility, whilst at the same time helping to minimise the required planning and assembly input.



Power distribution: from the 3200 A Maxi-PLS to the distribution enclosure, both securely and quickly installed in the TS 8 enclosure system. Enclosures for process control, server and network racks are likewise based on the **TS 8 system platform**. The potential synergies with planning, installation and system security are self-evident.

Office solutions – the right enclosure for every task in decentralised networks.

Rittal **electronic systems** offer you the “complete know-how” in electronic packaging.

Security management can be a success factor, with the **rack monitoring system CMC Top Concept**. Access control, climate control as well as other control and alarm messages safeguard an airport's vital lines of communication. Security and server administration with the 1 U **monitor/keyboard drawer** offers a space-saving solution.



Air traffic control

Outdoor solutions with leadership qualities

Take-offs and landings every minute. Day and night. In (almost) all weathers. One hundred percent concentration is essential, together with complete reliability from every system.

The secondary technology of “packaging” makes an important contribution to security, thanks to its **complete system integration**. Perfect enclosures, with customised equipment, offer precisely dimensioned climate control, as well as centralised function and security monitoring.



Dissipate heat loss particularly effectively: with a **central recooling system** combined with heat exchangers. **CS Outdoor enclosures in every format** for radar systems, glide path transmitters and localizers, as well as for power supply to the runway, taxiway and apron lighting.

In explosion hazard areas at refuelling stations (aircraft, apron vehicles), **Ex enclosures to ATEX standard** are used. Meanwhile, our **stainless steel range** offers every required size and feature for meteorological monitoring.



Service and information

Control rooms, workstations, information terminals

Airport dynamics are a hub of global thinking and global actions.

The ability to communicate, inform, observe, and operate continuously from any given location is crucial to success. We create optimum pre-requisites for the screen and keyboard, which act as the interfaces between humans and technology.

Our comprehensive international service enables us to supply concepts that are both aesthetic, ergonomic and economical, as well as being precisely tailored to your requirements. We project plan, manufacture, assemble and test, as well as delivering to the point of use.

22 national distribution and logistics centres, 20 production sites in 10 countries, 45 subsidiaries and over 70 agencies ensure market-specific, personalised customer care worldwide.



The car park is home to the **ITS Out-Line (stainless steel) ticket terminal**, complete with computer, climate control, and vandalism monitoring. **Industrial workstations** – both stationary and mobile – are available for routine checking of aircraft and for the diagnosis and maintenance of apron vehicles. Electronic information displays in the railway and bus stations are achieved with the **Command Panel VIP 6000**, the tailor-made enclosure.

Visitor information, communication and business stations: **Interactive Terminal Systems** provide access to the world – stylish, complete and robust – for both inside and out. When it comes to flight simulation, testing of baggage for explosives, and laboratory equipment, **PC enclosure and case systems** are used in situations where the computer and keyboard must be protected from ambient influences and unauthorised access.

Rittal has a presence at countless international airports, including the following cities and countries:

Amsterdam	Madrid
Athens	Milan
Barcelona	Manchester
Bremen	Manila
Brussels	Munich
Dubai	Oslo
Düsseldorf	Palma
Frankfurt	Porto
Geneva	Singapore
Hong Kong	Stockholm
Cologne	Tokio
Copenhagen	Venice
Kuala Lumpur	Vienna
Lisbon	Zurich
London	
China	Korea (South)
Canada	USA





Interested in finding out more about the use of airport solutions?

Individual customer advice is one of our core philosophies. We will advise you at every stage of your project, and work with you to formulate optimum solutions. Take advantage of our customer service. Simply fax this form to us, or send us an eMail.

Name

Company

Department

Address

Address

Tel./Fax

eMail


I have some specific questions:

- Please arrange for a specialist advisor to visit me.
- Please call me back.

Rittal has one of the largest ranges of enclosures available for immediate delivery. However, Rittal also supplies integral solutions at a high level – up to Level 4. Fully assembled and functional, tailored to your specific requirements. Wherever your location.

The global alliance between production, distribution and service guarantees customer proximity. World-wide! Wherever in the world you develop and implement solutions for yourself and your customers, we are close at hand.

Rely on the all-round competence of a strong partner:

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

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