Rittal – The System.
Faster – better – everywhere.

Machine-integrated compact enclosures AE
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The whole is more than the sum of its parts

The same is true of “Rittal – The System.” With this in mind, we have bundled our innovative enclosure, power distribution, climate control and IT infrastructure products together into a single system platform. Complemented by our extensive range of software tools and global service, we create unique added value for all industrial applications: Production plant, test equipment, facility management and data centres. In accordance with our simple principle, “Faster – better – everywhere”, we are able to combine innovative products and efficient service to optimum effect.

**Faster** – with our “Rittal – The System.” range of modular solutions, which guarantees fast planning, assembly, conversion and commissioning with its system compatibility.

**Better** – by being quick to translate market trends into products. In this way, our innovative strength helps you to secure competitive advantages.

**Everywhere** – thanks to global networking across 150 locations. Rittal has over 60 subsidiaries, more than 150 service partners with over 1,000 service engineers worldwide. For more than 50 years, we have been on hand to offer advice, assistance and product solutions.
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Electrical engineering – superbly integrated

Rittal compact enclosures AE provide reliable protection for sensitive electrical and electronic components in plant and machinery. A wide selection of standard sizes, which can be combined into larger units using the baying kits available as accessories, ensure maximum flexibility. If you are still unable to find the right enclosure for your plant and machinery from this selection, we will be happy to support your “standard solution” with customised dimensions.

You will find sample sizes on page 7. Alongside the trademark functional benefits of the Rittal AE system, all enclosures are also built to the highest global quality standards.

Talk to us – we can work together to plan your very own standard solution.

Should you require further product information, simply visit the Rittal website, where you will find all the key facts and links to other information, updated daily. Alternatively, why not take a look at our Catalogue?
**Compact enclosures AE – the best basis**

Rittal standard compact enclosures AE offer decisive benefits: Apart from triple surface treatment, our materials, sizes and variants are tailored to all the main requirement profiles. What is more, compact enclosures AE boast a wide range of internationally recognised approvals and licences, and meet the highest global quality standards. Solution diversity can also be found in the Rittal system accessories. We have perfected our logistics so that standard compact enclosures AE are available within 24 hours.

**Standard**

- 59 different sizes in a range of designs, available off the shelf
- Available in the following materials:
  - Sheet steel, spray-finished
  - Stainless steel
- Optimum surface protection of sheet steel enclosures thanks to
  - Nanoceramic primer
  - Electrophoretic dipcoat-priming
  - Textured powder-coating
- An extensive range of international approvals, including
  - UL, CSA, TÜV
- Interchangeable door hinge on all one-door enclosures, no need for machining
- Permanent high protection category, thanks to seamlessly foamed-in PU foam seal
- Flexible interior installation with standardised system accessories

**Infinite baying as standard**

- Seamless baying of compact enclosures AE with the AE baying kit, while retaining the benefits of the standard enclosure. The self-adhesive baying seal, comprised of sealing elements and corner pieces, may be adapted individually to a range of enclosure sizes, for guaranteed simple, secure baying. Special screws ensure that the seal is compressed to a predefined size, for a permanent seal between the enclosures.

- Top-quality standardised products, proven a million times over
- The required enclosure area is easily adjusted to the specific conditions of your machine
- Supports integrated installation even beyond the enclosure boundaries
### Modified standard enclosure

Take the benefits of the standard enclosure and adapt them to suit your application. As well as defined cut-outs for climate components and control and display elements, we also offer a wide range of different colours. Just ask! Our consultants will configure the right solution to meet your requirements in next to no time.

- Top-quality standardised products, proven a million times over
- Precise machining with state-of-the-art laser systems based on your design data
- CAD data for all standard compact enclosures can be found on the Rittal website
- Spray-finishing in standard RAL shades to match your plant

### Compact enclosures based on AE

If none of these solutions are quite right for your specific space and design requirements, just talk to us. We can work together and plan your very own standard solution.

- Typical size variants – without gland plate, with mounting plate
  - (width x height x depth):
    - 800 x 800 x 400 mm
    - 1200 x 600 x 300 mm
    - 1200 x 800 x 400 mm
    - 1400 x 700 x 400 mm
Compact enclosures AE

The original – with global approvals and available in stock for immediate shipping. Countless practical sizes and functional system accessories for all common applications make the AE compact enclosure the standard solution.

1. Optimum corrosion protection due to triple-treated housing surfaces
2. Permanently high protection category thanks to seamlessly foamed-in PU seal
3. Perfect protection from multi-folded enclosure protection channel preventing the ingress of dirt and water when the door is opened
4. Effortless wall-mounting thanks to rear panel with holes, prepared for wall mounting bracket or direct wall mounting
5. Maximum flexibility for cable entry with sheet steel gland plates for self-population or the option to exchange for prepunched plates
6. Individual depth population with rails for interior installation
7. Quick-swap door hinge with no need for machining in single-door enclosures
8. Perforated mounting strips on the door enable quick and easy mounting of accessories such as support strips or cable conduit holders
Internationally recognised approvals and certifications

Rittal products boast a wealth of internationally recognised approvals and certifications and comply with the most exacting and globally recognised quality standards.

- All components are subjected to the most stringent testing in accordance with international standards and regulations
- The consistently high product quality is ensured by a comprehensive quality management system
- Regular production inspections by external test institutes guarantee compliance with global standards

All current approvals and certifications can be found on the Rittal website.

CAD data

Using the RiCAD 3D online CAD component library, Rittal offers engineering, climate control, IT and power solutions for the widest range of enclosures and applications from a single source.

With professional data for every CAD system, the efficiency of your system design is increased and assembly times are reduced.

- CAD data is also available as an app for reference on the move or from the Rittal website
- Data can be requested via e-mail
- Choose from over 70 CAD formats
- Direct link to the relevant page in the latest Rittal Catalogue for an “all-in-one” solution
- Optimum planning confidence through accurate and validated drawings
- By dispensing with the need for lengthy remodelling, time-savings are achieved
Compact enclosures AE

**Optimum surface protection**
Triple surface treatment provides optimum protection against corrosion.

Maximum quality is achieved in three stages:

1. **1st phase:** Nanoceramic primer
2. **2nd phase:** Electrophoretic dipcoat-priming
3. **3rd phase:** Textured powder-coating

- Plate with triple surface treatment (Rittal standard) after a 180-hour salt spray mist test
- Metal powder-coated only following a 180-hour salt spray mist test

**PU foam seal**
- Seamlessly foamed-in
- Temperature resistant from -20°C to +80°C
- May be over-painted and briefly stove-enamelled at up to 180°C

**Earthing**
- Easily accessible earthing bolt on the body
- Door earthing via perforated door strip
- Earth straps in various cross-sections and lengths available as accessories
Compact enclosures AE

Housing protection channel
- Specifically designed to remove water, so that moisture does not collect against the seal.
- Housing return edge with continuous protection channel prevents the ingress of dust and dirt when the door is opened.
- Multi-folded protection channel also ensures a high level of stability with the housing fully opened.
- Additional protection for the high-quality PU foam seal.

Mounting plate
- Simple one-person assembly even with free-standing enclosures, by screwing a combination bolt and lock nut into position.

Interchangeable door hinge
- The door hinge is easily swapped to the opposite side in single-door enclosures.
- No machining required, since the holes are pre-integrated and sealed with stoppers.

Design variants
AE compact enclosures are also available in the following variants:
- Stainless steel
- For applications in potentially explosive zones
- Machine-integrated compact enclosures
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- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

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

www.rittal.com/contact