IN STAINLESS STEEL:

- Compact enclosures
- Enclosures and support arm systems for the human/machine interface
- Large enclosures
Be it automation, communications or power supply technology, Rittal offers the right enclosures and cabinets to suit virtually all requirement profiles in modern industrial engineering. As you would expect, the range is also available in stainless steel with extremely high specifications on hygiene and corrosion resistance.

Ingeniously designed system platforms in conjunction with an extensive range of system accessories provide the basis for the exceptional solution diversity of the Rittal stainless steel range. Allow us to advise you. We are happy to work to your requirements.

Regardless of where your products are developed, manufactured or used, we are at your service.
Fresh milk, new car paint, important medication; however varied the demands placed on stainless steel enclosures may be, we have the right solutions to accommodate them. What is more, we are constantly extending our expertise, by building on development work in close dialogue with our customers.

The use of system accessories is the first step towards rational system integration. The second step is afforded by a broad range of modules for climate control, electronics, IT networks and power distribution. The result? Holistic individual solutions, which are both perfect and cost-effective.
# Overview of Diversity

## Quality for your success

You define your requirements – Rittal has the solution!

The system diversity offered by us is exemplary. It is the cumulation of expertise gleaned from countless discussions with customers.

The result? Fast, reliable solutions available off the shelf, immediately – and assembled ready for use upon request.

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## Quality is the key

... and at Rittal it is constantly being improved, thanks to on-going quality assurance in our accredited QA laboratory.

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## System integration included

The basic fittings of every enclosure lend themselves to a wide range of external and internal mounted parts.

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## Work more effectively, easily and reliably

Success is down to the individual. Rittal offers effective support through its products.

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## Enclosures for the human/machine interface

<table>
<thead>
<tr>
<th>Premium Panel</th>
<th>Command panel housing with door</th>
<th>Command panel</th>
<th>Support arm system/stand system</th>
<th>AP one-piece consoles</th>
<th>AP universal consoles</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Premium Panel" /></td>
<td><img src="image2" alt="Command panel housing with door" /></td>
<td><img src="image3" alt="Command panel" /></td>
<td><img src="image4" alt="Support arm system/stand system" /></td>
<td><img src="image5" alt="AP one-piece consoles" /></td>
<td><img src="image6" alt="AP universal consoles" /></td>
</tr>
</tbody>
</table>

- **Dimensions for installed equipment**: 482.6 mm (19")/7 U.
- **2 sizes**: 320/240/160 mm and 400/320/160 mm.
- **4 sizes**: 300/300/150 mm to 600/400/150 mm.
- **Various support arm components for enclosures KL, AE and CP**.
- **4 sizes**: 600/960/400 mm to 1200/960/400 mm.
- **Single or double-door**.

- **Size**: 600/1300/500 mm.
- **With tall or short front door and clearance for desk section or drawer**.

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Page 30/31 | Page 32/33 | Page 34/35 | Page 36 – 41 | Page 42/43 | Page 44/45
**Compact enclosures**

- **Terminal boxes KL**
  - 6 sizes
  - 150/150/80 mm to 300/300/120 mm
  - Cover, screw fastened

- **Bus enclosures BG**
  - 5 sizes
  - 200/300/80 mm to 600/200/123 mm
  - Hinged door with screw fastener

- **Compact enclosures AE**
  - 15 sizes
  - 200/300/155 mm to 1000/1200/300 mm
  - One-door or two-door, lockable door with double-bit lock insert

- **Electronic Kombi systems EL**
  - 8 sizes
  - 600/345/375 mm to 600/746/475 mm
  - Front door, also with viewing window

**Large enclosures**

- **PC enclosure systems**
  - Size
  - 600/1600/620 mm
  - With viewing window and drawer or desk section

- **TS8 baying systems**
  - 8 sizes
  - 800/1800/400 mm to 1200/2000/600 mm
  - Single or double-door

- **Free-standing enclosures ES**
  - 6 sizes
  - 600/1600/400 mm to 1200/2000/500 mm
  - Single or double-door
INTEGRAL SYSTEMS

Meeting demands and cutting costs

With over 8,000 precision products available worldwide, Rittal is a superior systems supplier. The spectrum ranges from standardised mass production to customised individual solutions.

Our concept:

- Uniform system platforms
- Differentiated installation levels
- Cost-efficient versatility
- High standards of quality

All this from your one-stop suppliers. As competent system partners, we work with you to develop holistic solutions which are both perfect and cost-effective, tailored to your specific requirements.

IT solutions

- All components for data & communications networks.
- Also available for stainless steel cases and enclosures with 482.6 mm (19”) and metric installation.

Power distribution

- From connection systems to isolators.
- Busbar systems in 40, 60, 100, 150 and 185 mm bar centre distance
- Systems up to 3200 amps.

Electronic systems

- MPS microcomputer packaging systems
- Subracks
- Cases for industrial PCs.
Outstanding:
All enclosures from the TS 8 system platform offer infinite possibilities for interior installation.

Early warning…
Signal pillars – just one example of safety. We also offer a full range of lock and monitoring systems.

User-friendly
e.g. with system lights, socket strips, wiring plan lecterns etc.

System climate control
- Integral cooling technology
- Roof- and wall-mounted cooling units
- Recooling systems
- Air/water heat exchangers
- Air/air heat exchangers
- Fan-and-filter units
- Rack-mounted climate control
- Heaters

System accessories

Modular solution diversity
Outstanding:
All enclosures from the TS 8 system platform offer infinite possibilities for interior installation.
As global players, we boast many years of experience in international markets. With 19 production sites, 42 subsidiaries and over 70 branch offices in 5 continents, we are always close at hand.
Particularly for customers who require small batches in individual sizes or cutouts in enclosure and case surfaces, laser technology covers all the options for cost-effective implementation of specific requirements.

Cost-effective products in an exemplary quality are the result of innovative mass production. For example, we have developed special techniques for shaping and welding. One outstanding example is the 16-fold profiled stainless steel section in the TS 8 Top enclosure system, with its infinite installation possibilities.

Innovative production techniques at the Wissenbach stainless steel factory ensure a successful symbiosis between individual solutions and cost-effective, top-quality mass production. Stainless steel is a special material which demands the special expertise offered by our team.

Uncompromisingly high quality
At Rittal, quality is not defined by a one-off certificate, but is instead an on-going process. Every day, our products are put through their paces at our in-house laboratories. This includes EMC testing, climatic chambers, load tests, 3D measurement, dust testing and hosed water tests, as well as electrical safety testing.

Individual solutions – off the shelf
Particularly for customers who require small batches in individual sizes or cutouts in enclosure and case surfaces, laser technology covers all the options for cost-effective implementation of specific requirements.

Excellent benefits from standardised quality
PRODUCT COMBINATIONS

Ideas for new solutions

Leave the conventional path behind! Combine standard products in a new way to meet your requirements, and significantly broaden the range of options available. Here are just a few suggestions.

Consisting of:
- Command panel housing with door, see page 34/35
- Housing coupling, rotating, see page 37
- Support section, see page 36
- Wall/base mounting, see page 38
- Wall console, see page 40
- One-piece console, see page 42

Example 1
Console with rotating operating housing
Outside of the Rittal stainless steel enclosure range, this is an example of solution diversity with the most varied product combinations. Take a look at the IW brochure, and allow yourself to be inspired with new solutions from this modular system.
COMPACT ENCLOSURES

Like the entire stainless steel range, our small and medium-sized models are ideal for all segments of industry with superior demands in terms of hygiene and corrosion protection.

They offer the correct volume to suit every requirement, together with practical fittings and accessory components for every application.

Rittal always has the solution you need. Every design innovation helps to save your valuable time, whilst every standard mounting part helps to cut costs.

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**Terminal boxes KL**

- Screw fastened lid
- Integral profile strip with mounting holes for top-hat rails or mounting plate
- Enclosure sealed all-round

<table>
<thead>
<tr>
<th>Terminal boxes KL (Protection category IP 66)</th>
<th>Model No. KL</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>W mm</td>
<td>H mm</td>
<td>D mm</td>
</tr>
<tr>
<td>150</td>
<td>150</td>
<td>80</td>
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<tr>
<td>300</td>
<td>150</td>
<td>80</td>
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<td>200</td>
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<td>120</td>
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<td>300</td>
<td>300</td>
<td>120</td>
</tr>
</tbody>
</table>

**Bus enclosures BG**

- Hinged lid secured with screw fastenings
- Including support rail TS 35/7.5
- Enclosure sealed all-round

<table>
<thead>
<tr>
<th>Bus enclosure BG (Protection category IP 66)</th>
<th>Model No. BG</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>W mm</td>
<td>H mm</td>
<td>D mm</td>
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<tr>
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<td>300</td>
<td>123</td>
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<tr>
<td>600</td>
<td>300</td>
<td>123</td>
</tr>
</tbody>
</table>
Electronic Kombi systems EL

- Front door either solid or with safety glass window
- Centre part with 482.6 mm (19˝) mounting angle
- Base box including mounting plate

Electronic Kombi systems EL (Protection category IP 55)

<table>
<thead>
<tr>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No. EL solid</th>
<th>Model No. EL with glazed window</th>
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<tr>
<td>600</td>
<td>345</td>
<td>375</td>
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<tr>
<td>600</td>
<td>478</td>
<td>375</td>
<td>2270.600*</td>
<td>2269.600*</td>
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</tr>
<tr>
<td>600</td>
<td>212</td>
<td>475</td>
<td>–</td>
<td>2272.600*</td>
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<tr>
<td>600</td>
<td>345</td>
<td>475</td>
<td>–</td>
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<td>600</td>
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<td>2280.600</td>
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</table>

* Extended delivery times

Compact enclosures AE

- Door(s) with 3 mm double-bit lock insert
- Including mounting plate
- Enclosure sealed all-round

Compact enclosures AE (Protection category IP 66)

<table>
<thead>
<tr>
<th>W mm</th>
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<th>D mm</th>
<th>Model No. AE</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>300</td>
<td>155</td>
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<td>1000</td>
<td>1200</td>
<td>300</td>
<td>1019.600</td>
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</tbody>
</table>

The enclosure Model Numbers listed here apply to variants in 1.4301 (AISI 304). For variants in 1.4401 (AISI 316) or 1.4571, Model Numbers can be found on the respective product page.
Supply includes:
Enclosure, cover with all-round foamed-in PU seal and cover screws, including plastic bushes.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Width (B1) in mm</th>
<th>Height (H1) in mm</th>
<th>Depth (T1) in mm</th>
<th>Model No. KL</th>
<th>B2 = Clearance opening width</th>
<th>B3 = Cover width</th>
<th>B4 = Clearance width between profile strips</th>
<th>B5 = Hole-centre distance of profile strips</th>
<th>H2 = Clearance opening height width</th>
<th>H3 = Cover height</th>
<th>H4 = Clearance height between profile strips</th>
<th>Weight (kg)</th>
<th>Cover screws</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150</td>
<td>150</td>
<td>80</td>
<td>1521.010</td>
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<td>132</td>
<td>148</td>
<td>100</td>
<td>1.3</td>
<td>4</td>
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<tr>
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<td>300</td>
<td>200</td>
<td>80</td>
<td>1522.010</td>
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<td>259</td>
<td>275</td>
<td>262</td>
<td>248</td>
<td>250</td>
<td>1.8</td>
<td>4</td>
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<tr>
<td></td>
<td>200</td>
<td>200</td>
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<td>1523.010</td>
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<td>3.9</td>
<td>4</td>
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<td>400</td>
<td>120</td>
<td>1526.010</td>
<td>262</td>
<td>246</td>
<td>259</td>
<td>275</td>
<td>262</td>
<td>248</td>
<td>250</td>
<td></td>
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</tbody>
</table>

Material:
1.4401 (AISI 316)
1.4571

To order terminal boxes in 1.4401 (AISI 316), change the last three digits of the Model No. to .310, and for 1.4571, change to .410.

Delivery times available on request.

i.L. = Clearance width
**Material:**
Stainless steel 1.4301
Box: 1.25 mm
Cover: 1.25 mm

**Surface finish:**
Box and cover: Brushed, grain 180

**Protection category:**
IP 66 to EN 60 529/10.91
Complies with NEMA 4x

**Accessories:**
see page 24 – 27 and page 70/71 or refer to index.

- **Support rails** to accommodate terminal blocks and electrical equipment. See Cat. 30, page 983.
- **Housing coupling** For attaching the 120 mm deep KL to the support arm system. See page 37.
- **Mounting plate** For component mounting even outside of the box. See page 27.

**TERMINAL BOXES KL**
Supply includes:
Enclosure with 1 support rail TS 35/7.5, lid with foamed seal, 180° hinges, with quick-release fasteners.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Width in mm</th>
<th>Height in mm</th>
<th>Depth in mm</th>
<th>Model No. BG</th>
<th>Weight (kg)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>400</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>200</td>
<td>3.7</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>200</td>
<td>4.5</td>
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<td>55</td>
<td>135</td>
<td>20.5</td>
<td>12.5</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

Model No. BG:
- BG 1558.010
- BG 1559.010
- BG 1583.010
- BG 1584.010
- BG 1585.010

Accessories:
- Wall mounting bracket KL 1594.000
- Pole clamp SZ 2584.000
- Condensate discharge SZ 2459.000

To order bus enclosures in 1.4401 (AISI 316), change the last three digits of the Model No. to .300, and for 1.4571, change to .400.

Delivery times available on request.
Material:
Stainless steel 1.4301
Box: 1.25 mm
Cover: 1.25 mm
Hinges:
Die-cast zinc

Surface finish:
Box and cover:
Brushed, grain 180
Hinges: Plated

Protection category:
IP 66 to EN 60 529/10.91

Modification:
- Viewing window for I/O displays
- Holes for screw connections
- Other designs available on request.

Wall mounting bracket
For secure attachment of enclosures. See page 26.

Pole clamp
For fastening to round or square poles. See page 25.

EMC cable glands
With special ring for 360° contact.
See Cat. 30, page 894.

Support rail adjustable on profile strip (with BG 1558.010, BG 1559.010).

Support rail secured on studs (with BG 1583.010, BG 1584.010, BG 1585.010).

180° hinges made from die-cast zinc, plated.

Accessories:
see page 24 – 27 and page 70/71 or refer to index.
Rittal Stainless steel brochure

Detailed drawings page 20/21.

Model No. AE

<table>
<thead>
<tr>
<th>Width (B) in mm</th>
<th>Packs of 200</th>
<th>380</th>
<th>300</th>
<th>380</th>
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<th>500</th>
<th>380</th>
<th>600</th>
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<tbody>
<tr>
<td>Height (H) in mm</td>
<td>300</td>
<td>300</td>
<td>380</td>
<td>380</td>
<td>500</td>
<td>500</td>
<td>300</td>
<td>380</td>
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<tr>
<td>Depth (T) in mm</td>
<td>155</td>
<td>155</td>
<td>210</td>
<td>210</td>
<td>210</td>
<td>210</td>
<td>210</td>
<td>210</td>
<td></td>
</tr>
</tbody>
</table>

| Model No. AE | 1002.600 | 1004.600 | 1005.600 | 1006.600 | 1007.600 | 1008.600 | 1009.600 | 1010.600 | 1012.600 | 1014.600 | 1016.600 | 1017.600 | 1019.600 | 1018.600 | 1018.600 | 1019.600 | 1019.600 |
| Doors         | 1          | 1      | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Weight (kg)   | 4.5        | 8.8    | 8.7   | 12.0  | 16.4  | 19.8  | 19.0  | 17.0  | 17.0  |       |

| Accessories   | Rain canopy SZ | 1   | 2470.000 | 2471.000 | 2261.000 | 2472.000 | 2362.000 | 2362.000 | 2472.000 | 2473.000 | 25     |
|               | Wall mounting bracket SZ | 4   | 2433.000 |          |          |          |          |          | 2433.000 |          | 26     |
|               | Wall angle SZ | 1   | 2583.000 |          |          |          |          |          |          |          | 26     |
|               | Pole clamp SZ | 1   | 2584.000 |          |          |          |          |          |          |          | 25     |
| Cam lock of 1.4301 SZ | 1   | 2304.000 |          |          |          |          |          |          |          | 24     |

| Width (B) in mm | Packs of 600 | 600 | 760 | 600 | 760 | 800 | 800 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Height (H) in mm | 600          | 760 | 760 | 800 | 800 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Depth (T) in mm  | 210          | 210 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |

| Model No. AE | 1010.600 | 1012.600 | 1014.600 | 1016.600 | 1017.600 | 1018.600 | 1019.600 | 1018.600 | 1019.600 | 1019.600 | 1018.600 |
| Doors         | 1          | 1      | 1      | 1      | 2     | 2     | 2     | 2     | 2     | 2     | 2     |
| Weight (kg)   | 25.0       | 31.7   | 42.5   | 52.9   | 70.0  | 71.0  | 85.0  |       |

| Accessories   | Rain canopy SZ | 1   | 2473.000 | 2473.000 | 2474.000 | 2475.000 | 2475.000 | 2363.000 | 2363.000 |          | 25     |
|               | Wall mounting bracket SZ | 4   | 2433.000 |          |          |          |          |          |          |          | 26     |
|               | Wall angle SZ | 1   | 2583.000 |          |          |          |          |          |          |          | 26     |
|               | Pole clamp SZ | 1   | 2584.000 |          |          |          |          |          |          |          | 25     |
| Cam lock of 1.4301 SZ | 1   | 2304.000 |          |          |          |          |          |          |          | 24     |

Lock systems
In enclosures fitted with a cam lock, the standard double-bit lock insert (except for AE 1018.600 / AE 1019.600) may be exchanged for a 41 mm lock insert, security cylinder insert, plastic handle, T-handles, design C, see Cat. 30, page 940 – 943.
With AE 1018.600, may only be exchanged for 41 mm lock inserts.
In enclosures with a locking rod, may be exchanged for 27 mm lock inserts, design A, see Cat. 30, page 942 and Ergoform-S lock system, see Cat. 30, page 939.

To order compact enclosures in 1.4401 (AISI 316), change the last three digits of the Model No. to .300, and for 1.4571, change to .400.

Delivery times available on request.
Supply includes:
Enclosure, door(s) with foamed-in seal, mounting plate.

Material:
Stainless steel 1.4301
Enclosure and door:
Stainless steel
Mounting plate: Sheet steel
Cam lock: Die-cast zinc, nickel-plated

Surface finish:
Enclosure and door:
Brushed, grain 180
Mounting plate: Zinc-plated

Protection category:
IP 66 to EN 60 529/10.91
for AE 1002.600 – AE 1017.600,
complies with NEMA 4x.
IP 55 to EN 60 529/10.91
for AE 1018.600 / AE 1019.600,
complies with NEMA 12.

Accessories:
see page 24 – 27
and page 70/71
or refer to index.

Enclosure protection channel prevents the ingress of dirt and water when the door is opened.

To dismantle the door, the hinge pin is simply pulled out.

Lock cover
Prepared for padlock or multiple lock.
See Cat. 30, page 945.

Lock inserts
See Cat. 30, page 942.

Rain canopies
For protection against direct water inflow.
See page 25.
### Compact enclosures AE

#### Dimensions of enclosures

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#### Dimensions of mounting plate

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#### Notes

- **AE 1002.600 – AE 1016.600**
- Installation position of the mounting plate is rotated through 90° for AE 1005.600 / AE 1009.600.
- Mounting plates
  - **AE 1002.600**
  - **AE 1004.600 – AE 1016.600**
- Material thicknesses in mm
- For AE 1002.600, AE 1004.600, AE 1005.600, AE 1006.600, AE 1009.600 only one cam lock in the centre and no central bolts.
- Only 50 for AE 1002.600.
- Does not apply to AE 1002.600.
COMPACT ENCLUSURES AE

Dimensions in detail

AE 1017.600

AE 1018.600 / AE 1019.600

Mounting plates

AE 1018.600

AE 1017.600 / AE 1019.600

Compact enclosures AE

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Dimensions in brackets are for AE 1018.600

( ) = Cam lock for AE 1018.600
(2 ) = Locking rod for AE 1019.600

Dimensions in brackets are for AE 1019.600

i. L. = Clearance width
Supply includes:
1 front door with safety glass or
1 front door, solid,
1 centre part,
1 wall component,
2 x 482.6 mm (19") mounting angles,
1 zinc-plated mounting plate,
assembly parts,
locks,
foamed-in seals,
fully assembled.

Packs of | Enclosure depth 375 mm | Enclosure depth 475 mm | Page
---|---|---|---
Model No. EL, solid | 6 U | 9 U | 12 U | 3 U | 6 U | 9 U | 12 U | 15 U
1 | 2267.600 | 2270.600* | – | – | – | 2280.600 | 2283.600* | 2286.600* |
Model No. EL, with viewing window | 6 U | 9 U | 12 U | 3 U | 6 U | 9 U | 12 U | 15 U
1 | 2266.600 | 2269.600* | 2272.600* | 2273.600 | 2276.600* | 2279.600 | 2282.600* | 2285.600* |
B (mm) | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600
H (mm) | 345 | 478 | 612 | 212 | 345 | 478 | 612 | 746
H1 (mm) | 340 | 473 | 607 | 207 | 340 | 473 | 607 | 741
H2 (mm) | 299 | 432 | 545 | 165 | 299 | 432 | 545 | 699
HE (mm) | 366 | 500 | 336 | 100 | 366 | 500 | 16 | 634
H4 (mm) | 268 | 401 | 535 | 135 | 268 | 401 | 535 | 669
T (mm) | 375 | 375 | 375 | 475 | 475 | 475 | 475 | 475
T1 (mm) | 216 | 216 | 216 | 316 | 316 | 316 | 316 | 316
T2 (mm) | 175 | 175 | 175 | 275 | 275 | 275 | 275 | 275
T3 (mm) | 152 | 152 | 152 | 252 | 252 | 252 | 252 | 252
T4 (mm) | 324 | 324 | 324 | 424 | 424 | 424 | 424 | 424

Accessories for external mounting
Wall mounting bracket SZ
10 mm spacing | 2433.000 | 26

Accessories for interior installation
Slide rails EL | 2240.000 | 2250.000 | Cat. 30 800
C rails EL | 2238.000 | Cat. 30 800
Blanking plates | see Cat. 30, page 1036

* Extended delivery times.

To order Electronic Kombi systems EL in 1.4401 (AISI 316), change the last three digits of the Model No. to .300, and for 1.4571, change to .400.

Delivery times available on request.
Material:
Front door, centre part, wall component: 1.5 mm stainless steel 1.4301
Viewing window: 4 mm safety glass
Mounting angles: 1.5 mm stainless steel 1.4016
Mounting plate: Sheet steel 3.0 mm
Lock: Stainless steel 1.4301
Surface finish: Stainless steel 1.4301:
Brushed, grain 240
Mounting plate: zinc-plated
Protection category: IP 65 to EN 60 529/10.91

Accessories:
see page 22
and page 70/71
or refer to index.

Wall mounting bracket
Permits cable routing behind the enclosure.
See page 26.

Blanking plates
In various heights, horizontally or vertically hinged.
See Cat. 30, page 1036.
ACCESSORIES

Compact enclosures

Cam lock
Complete cam lock with double-bit insert for AE stainless steel enclosures (with cam lock).

Material:
Stainless steel 1.4301

Supply includes:
Assembly parts included

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Semi-cylinder lock
For retrospective mounting on all single-door AE compact enclosures in stainless steel with cam lock. The cover plate is latched by semi-cylinders with a total length of 40 or 45 mm (to DIN 18 254). An extra cover protects the cylinder from dirt. The protection category of the enclosure is not reduced. Supplied without semi-cylinder.

Material:
Die-cast zinc, plated (matt).

German patent no. 195 12 280
US patent no. 5,916,282
Jap. patent no. 3,088,465
European patent no. 0778 913 with validity for GB, FR, IT

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Lock cover
For padlocks and multiple locks.
For retrospective mounting on all single-door compact enclosures AE with cam lock.

Lug with 11 mm diameter hole for padlocks or multiple locks.
The protection category of the enclosure is not reduced.

Material:
Die-cast zinc, plated (matt).

Supply includes:
Lock cover assembly parts included.

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Accessories:
Multiple lock, see Cat. 30, page 945.
Rain canopies for AE
Reliable protection for outdoor siting – with water run-off to the rear. Easily retrofitted.

Material:
Stainless steel 1.4301

Surface finish:
Brushed

Supply includes:
Including assembly parts

Note:
For outdoor siting, as a general principle, we recommend a rain canopy above the enclosure or above the gap between the door or screw-fastened rear panel and the enclosure, in order to protect against water and UV rays. The tests of IP protection levels for water protection (2nd code digit to EN 60 529) should not be applied to enclosures sited outdoors or in similar conditions. Rain canopies for other enclosures available on request.

Pole clamp
For reliable, convenient fastening to round or square poles.

For pole diameter/size:
Ø from 40 up to 190 mm
□ from 50 up to 150 mm

Material:
Cross rails, clamping section:
Sheet steel, zinc-plated
Clamping strap:
Stainless steel 1.4301

Supply includes:
2 cross rails, 600 mm long,
4 clamping sections,
2 clamping straps,
4 clamping brackets,
4 screws and M8 nuts
for mounting on the enclosure.

German patent no. 36 10 152
### ACCESSORIES

#### Compact enclosures

**Wall mounting bracket**
For fastening KL, EB and BG enclosures.

**Material:**
Stainless steel 1.4301

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See drawing A for dimensions

**Wall mounting bracket**
For fastening KL, EB, BG, AE and EL enclosures.

**Material:**
Stainless steel 1.4301

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See drawing B for dimensions

With stainless steel enclosures, additional holes are required in the rear wall for reasons of hygiene and because of the protection category.

**Wall angle**
For compact enclosures (additional holes required in the enclosure).

**Material:**
Stainless steel 1.4301

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<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2583.000</td>
</tr>
</tbody>
</table>

See drawing C for dimensions

**Wall mounting brackets/angles**

**Drawing A**

**Drawing B**

**Drawing C**
Mounting plates for KL

For component mounting, even before fitting in the enclosure. Assembly screws included in the accessory of the enclosure.

Material: 2 mm sheet steel
Surface finish: Zinc-plated

For dimensions mm  For Model No. Dimensions in mm  Model No. KL
150 x 150  KL 1500.210, KL 1514.210, KL 1521.010  135  125  –  1560.700
200 x 150  KL 1528.210, KL 1529.210  185  125  –  1575.700
300 x 150  KL 1501.210, KL 1515.210, KL 1522.010, KL 1530.210  285  125  –  1561.700
400 x 150  KL 1589.210  385  125  –  1576.700
200 x 200  KL 1502.210, KL 1516.210, KL 1523.010  185  175  50  1562.700
300 x 200  KL 1503.210, KL 1517.210, KL 1524.010, KL 1531.210  285  175  50  1563.700
400 x 200  KL 1504.210, KL 1518.210, KL 1525.010, KL 1532.210  385  175  50  1564.700
500 x 200  KL 1505.210, KL 1533.210  485  175  50  1565.700
600 x 200  KL 1506.210, KL 1519.210, KL 1534.210  585  175  50  1566.700
800 x 200  KL 1527.210, KL 1542.210  785  175  50  1574.700
300 x 300  KL 1507.210, KL 1526.010, KL 1535.210  285  275  50  1567.700
400 x 300  KL 1508.210, KL 1536.210  385  275  50  1568.700
500 x 300  KL 1509.210, KL 1537.210  485  275  50  1569.700
600 x 300  KL 1510.210, KL 1538.210  585  275  50  1570.700
400 x 400  KL 1511.210, KL 1539.210  385  375  62.5  1571.700
600 x 400  KL 1512.210, KL 1540.210  585  375  62.5  1572.700
800 x 400  KL 1513.210, KL 1541.210  785  375  62.5  1573.700
When it comes to ergonomics and user-friendliness, operating housings (particularly in conjunction with the support arm system), consoles and PC cases are capable of meeting the most discerning demands. Machines with modern, flexible production technology need solutions at the operating interface which meet their requirements precisely. These include rational enclosure population, versatile positioning of monitoring and control components, and high-quality controllers with an outstanding design. Under the motto “Standardised, not customised”, Rittal offers complete solutions to boost productivity at the interface between human and machine.

### HUMAN/MACHINE INTERFACE

#### Premium Panel
- Screw fastened rear panel to meet discerning requirements in the food and hygiene sectors
- Support arm connection with reinforcement plate optionally at the top or bottom
- With keyboard housing on request
- Two duct connectors, also suitable for cable routing between the operating housing and keyboard housing
- All-round sealed enclosure, with designer front

### Premium Panel with keyboard housing (Protection category IP 69K)

<table>
<thead>
<tr>
<th>Command panel</th>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Support arm connection</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>530</td>
<td>460</td>
<td>120</td>
<td>top</td>
<td>6680.000</td>
<td>30/31</td>
</tr>
<tr>
<td></td>
<td>530</td>
<td>460</td>
<td>120</td>
<td>bottom</td>
<td>6680.010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>530</td>
<td>460</td>
<td>220</td>
<td>top</td>
<td>6680.100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>530</td>
<td>460</td>
<td>220</td>
<td>bottom</td>
<td>6680.110</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keyboard housing</th>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>530</td>
<td>200</td>
<td>80/63</td>
<td>6681.100</td>
<td></td>
</tr>
</tbody>
</table>

### Premium Panel without keyboard housing (Protection category IP 69K)

<table>
<thead>
<tr>
<th>Command panel</th>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>530</td>
<td>360</td>
<td>120</td>
<td>6681.000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>530</td>
<td>360</td>
<td>220</td>
<td>6681.100</td>
<td></td>
</tr>
</tbody>
</table>

#### Command panel
- Front panel or rear panel screw-fastened all round
- Support arm connection with reinforcement plate at the top/bottom by rotating the enclosure
- All-round sealed enclosure, projection over the front panel to protect installed equipment

### Command panel (Protection category IP 65)

<table>
<thead>
<tr>
<th>Command panel (Protection category IP 65)</th>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No. CP</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>320</td>
<td>240</td>
<td>160</td>
<td>6670.000</td>
<td>32/33</td>
</tr>
<tr>
<td></td>
<td>400</td>
<td>320</td>
<td>160</td>
<td>6672.000</td>
<td></td>
</tr>
</tbody>
</table>

### Command panel housing with door (Protection category IP 65)

<table>
<thead>
<tr>
<th>Command panel housing with door (Protection category IP 65)</th>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No. CP</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>300</td>
<td>300</td>
<td>150</td>
<td>6535.010</td>
<td>34/35</td>
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<td></td>
<td>400</td>
<td>300</td>
<td>150</td>
<td>6536.010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>400</td>
<td>400</td>
<td>150</td>
<td>6538.010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>400</td>
<td>150</td>
<td>6539.010</td>
<td></td>
</tr>
</tbody>
</table>
AP universal consoles
- Front doors with 3 mm double-bit lock insert at the bottom, optionally in tall or short version for desk section or keyboard drawer
- Rear door with tubular door frame and 3 mm double-bit lock insert
- Depth-adjustable with mounting plate
- Three-piece gland plates
- Enclosure sealed at the sides and top, with 25 mm system punchings

Universal consoles AP (Protection category IP 56)

<table>
<thead>
<tr>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No. AP with short front door</th>
<th>Model No. AP with tall front door</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1300</td>
<td>500</td>
<td>2688.600</td>
<td>2689.600</td>
<td>44/45</td>
</tr>
</tbody>
</table>

AP one-piece consoles
- Door(s) and console lid with 3 mm double-bit lock insert
- With height-adjustable mounting plate
- Two-piece gland plates
- Enclosure sealed at the sides and rear

AP one-piece consoles (Protection category IP 55)

<table>
<thead>
<tr>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No. AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>960</td>
<td>400/480</td>
<td>2663.600</td>
</tr>
<tr>
<td>800</td>
<td>960</td>
<td>400/480</td>
<td>2664.600</td>
</tr>
<tr>
<td>1000</td>
<td>960</td>
<td>400/480</td>
<td>2665.600</td>
</tr>
<tr>
<td>1200</td>
<td>960</td>
<td>400/480</td>
<td>2666.600</td>
</tr>
</tbody>
</table>

PC enclosure systems
- Front doors with 3 mm double-bit lock insert at the bottom, viewing window at the top
- With keyboard drawer or desk section
- Rear door with tubular door frame and 3 mm double-bit lock insert
- Three-piece gland plates
- Enclosure sealed at the sides and top, with 25 mm system punchings

PC enclosure systems (Protection category IP 55)

<table>
<thead>
<tr>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No. PC with keyboard drawer</th>
<th>Model No. PC with desk section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>610</td>
<td>1600</td>
<td>620</td>
<td>4650.000</td>
<td>4650.704</td>
<td>46/47</td>
</tr>
</tbody>
</table>

The enclosure Model Numbers listed here apply to the variant in 1.4301 (AISI 304). For variants in 1.4401 (AISI 316) or 1.4571, Model Numbers can be found on the respective product page.

<table>
<thead>
<tr>
<th>Approvals</th>
<th>Command panel housing with door</th>
<th>AP one-piece consoles</th>
<th>AP universal consoles</th>
<th>PC enclosure systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>CSA</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>TÜV</td>
<td>–</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Germanischer Lloyd</td>
<td>–</td>
<td>–</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Norske Veritas</td>
<td>–</td>
<td>–</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Russian Maritime Register of Shipping</td>
<td>–</td>
<td>–</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Lloyd’s Register of Shipping</td>
<td>–</td>
<td>–</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Bureau Veritas</td>
<td>–</td>
<td>–</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>VDE</td>
<td>–</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
### Packs of Premium Panel

<table>
<thead>
<tr>
<th>Model No. CP</th>
<th>with keyboard housing</th>
<th>without keyboard housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>530</td>
<td></td>
</tr>
<tr>
<td>Height mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For installation plate W × H</td>
<td>Operating housing</td>
<td>120</td>
</tr>
<tr>
<td>Installation depth</td>
<td>Operating housing</td>
<td>115</td>
</tr>
<tr>
<td>Support arm connection</td>
<td>top</td>
<td>bottom</td>
</tr>
</tbody>
</table>

#### Accessories

- Rear panel holder CP 2 6682.000

To order Premium Panel in 1.4401 (AISI 316) use Model No. CP 663X.XXX, in 1.4571 use Model No. CP 664X.XXX. Delivery times available on request.
Material:
Stainless steel 1.4301

Surface finish:
Brushed, grain 240

Protection category:
IP 69K to DIN 40 050-9/5.93

A new layout, a new concept for seal and fastener

- Safe for high-pressure cleaning (protection category IP 69K to DIN 40 050-9/5.93). Seal is between two surfaces and is compressed optimally through screw fastening (see detailed drawing).
- Screw fastening for high standards in the areas of food and hygiene. Internally with plastic bungs, external hex screw head.
- Best EMC conditions. Through the seal labyrinth, special EMC shielding is achieved in the housing.
- Internal rear panel holder. With regard to hygiene, this solution is clearly superior to external hinges.
- Two duct connectors between the enclosures.

Rittal service:
Other dimensions or other housings with this sealing design available on request. Cutouts and holes to your specifications.

Accessories:
see page 70/71 or refer to index.

Support arm system
See page 36.
Supply includes:
Enclosure with cutout and reinforcement for support arm system, front panel or rear panel with seal and assembly parts.

Two configuration options:
- Front panel screw-fastened at the front
- Front panel as rear panel, additional handle strips made from food-safe plastic similar to RAL 5002 (ultramarine blue) available on request

<table>
<thead>
<tr>
<th>Width (B1) in mm</th>
<th>Packs of 320</th>
<th>400</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (H1) in mm</td>
<td>240</td>
<td>320</td>
<td></td>
</tr>
<tr>
<td>Depth in mm</td>
<td>160</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Model No. CP

<table>
<thead>
<tr>
<th>B2 = clearance in width</th>
<th>275</th>
<th>355</th>
</tr>
</thead>
<tbody>
<tr>
<td>B3 = width of front panel</td>
<td>313</td>
<td>393</td>
</tr>
<tr>
<td>B4 = hole pitch</td>
<td>288</td>
<td>368</td>
</tr>
<tr>
<td>B5 = hole pitch</td>
<td>180</td>
<td>220</td>
</tr>
<tr>
<td>H2 = clearance in height</td>
<td>195</td>
<td>275</td>
</tr>
<tr>
<td>H3 = height of front panel</td>
<td>233</td>
<td>313</td>
</tr>
<tr>
<td>H4 = hole pitch</td>
<td>208</td>
<td>286</td>
</tr>
<tr>
<td>H5 = hole pitch</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>5</td>
<td>8</td>
</tr>
</tbody>
</table>

Accessories

| 1 | Mounting plate KL |
| 1563.700 | 1567.700 | 27 |
| Support rails TS 35/75 SZ | 10 | 2316.000 | 2316.000 | Cat. 30 983 |
| Mounting plate | 4 | 4532.000 | 4532.000 | Cat. 30 978 |
| Mounting bracket | 4 | 4597.000 | 4597.000 | Cat. 30 978 |

To order command panels in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400. Delivery times available on request.

* Other sizes and front panel finishes available on request.
Material:
Stainless steel 1.4301
Enclosure: 1.25 mm
Front panel: 2.0 mm
Surface finish:
Brushed, grain 240
Protection category:
IP 65 to EN 60529/10.91

Multi-folded enclosure opening with captive nuts to secure the front panel.

Recessed front panel installation provides a high level of mechanical protection for mounted equipment.

Handle strips
Made of plastic, available on request.

Enclosure attachment
with pre-fitted screw for location purposes.
See page 37.

Connector gland
for 2 cables up to 8 mm diameter.
Model No. SZ 2400.300.
Supply includes:
All-round sealed enclosure, with cutout and reinforcement for support arm system, fastener with guide plate.
Door with sealing frame and side handle strips.

<table>
<thead>
<tr>
<th>Support arm connection</th>
<th>Door hinge</th>
</tr>
</thead>
<tbody>
<tr>
<td>top</td>
<td>left</td>
</tr>
<tr>
<td>bottom</td>
<td>right</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width (B1) in mm</th>
<th>Packs of</th>
<th>300</th>
<th>400</th>
<th>400</th>
<th>600</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (H1) in mm</td>
<td></td>
<td>300</td>
<td>300</td>
<td>400</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Depth (T1) in mm</td>
<td></td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No. CP</th>
<th>6535.010</th>
<th>6536.010</th>
<th>6538.010</th>
<th>6539.010</th>
</tr>
</thead>
</table>

| B2 = Enclosure width with handle strips | 340 | 440 | 440 | 640 |
| B3 = Clearance opening, front          | 260 | 360 | 360 | 560 |
| B4 = Spacing of mounting plate attachment | 215 | 295 | 295 | 510 |
| B5 = Max. front cutout, width          | 225 | 325 | 325 | 525 |
| B6 = Hinged width for depth 100 mm     | 220 | 320 | 320 | 520 |
| B7 = Hinged width for depth 138 mm     | 212 | 317 | 317 | 519 |
| H2 = Enclosure height with handle strips | 310 | 310 | 410 | 410 |
| H3 = Spacing of mounting plate attachment | 250 | 250 | 330 | 330 |
| H4 = Max. front cutout, height         | 255 | 255 | 355 | 355 |
| H6 = Distance from base – mounting plate attachment | 25 | 25 | 35 | 5 |
| Weight (kg)                            | 6.3 | 7.5 | 8.8 | 12.1 |

Accessories

<table>
<thead>
<tr>
<th>Matching mounting plate from AE</th>
<th>ID No.</th>
<th>1033.600</th>
<th>1030.600</th>
<th>1380.600</th>
<th>1039.600</th>
<th>Cat. 30 68</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>271926</td>
<td>27743131</td>
<td>271548</td>
<td>271351</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Support rails* SZ</th>
<th>Model No. SZ</th>
<th>2316.000</th>
<th>2317.000</th>
<th>2317.000</th>
<th>2319.000</th>
<th>Cat. 30 983</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lock systems

Standard double-bit lock insert may be exchanged for 41 mm lock inserts, plastic handle and T handle, version C see Cat. 30, page 940 – 942.

To order operating housings in 1.4401 (AISI 316), please change the last three digits of the Model No. to .310, and for 1.4571, change to .410.

Delivery times available on request.
* = Only with vertical attachment of punched rail 23 x 23 mm see Cat. 30, page 976.
Material:
Enclosure and door:
Stainless steel 1.4301
Handle strips: Plastic approved for use with foodstuffs, RAL 5002 (ultramarine blue)
Surface finish:
Brushed, grain 240
Protection category:
IP 66 to EN 60529/10.91
Modifications:
- Separate keyboard housing
- Other sizes
- Modified support arm cutout or door hinge
- Holes and cutouts for switches and operator panels on request.

Semi-cylinder lock
For retro-fitting to stainless steel enclosures with cam lock. See page 24.

Cable fastening
Screw-fastened. See Cat. 30, page 1010.

The alternative. AE stainless steel, rear door, support arm connection and handle strips available on request. See page 18.

Accessories:
see page 70/71 or refer to index.
Support arm system

In conjunction with special command panels, terminal boxes 120 mm deep and compact enclosures AE made from stainless steel, the support arm system is particularly well-suited to situations where corrosion protection and hygiene are paramount. A tilting adaptor and housing coupling may optionally be mounted at the top or bottom of the enclosure. They are not suitable for use as the base point of a system. For such purposes, we recommend wall and base mountings or, for larger heights, an additional pillar made from steel tubing or stainless steel, available on request.

Support section

Seven standard items are available off the shelf, which can either be tailored to your individual requirements by sawing to length.

Material: Stainless steel 1.4301
Surface finish: Brushed, grain 240
Dimensions: External diameter: 48 mm
Wall thickness: 3.6 mm
Weight: 4.3 kg/m

Load specifications

<table>
<thead>
<tr>
<th>Jib length in mm (dimension B)</th>
<th>Permissible static load* (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>800</td>
</tr>
<tr>
<td>1000</td>
<td>400</td>
</tr>
<tr>
<td>1500</td>
<td>250</td>
</tr>
</tbody>
</table>

* For a maximum dimension A and C of 800 mm

Material: Stainless steel 1.4305

By special request, other sizes feasible per specification.

Order example:
U-bend = CP 6660.200
Dimension A = 800 mm
Dimension B = 800 mm
Dimension C = 240 mm

The minimum dimensions must be adhered to, because of the bending radius and immersion depth of the housing coupling or wall/base mounting.

Straight

$A_{\text{min.}} = 100 \text{ mm}$,
$A_{\text{max.}} = 2000 \text{ mm}$

L-bend

$A_{\text{min.}} = B_{\text{min.}} = 240 \text{ mm}$,
$B_{\text{max.}} = 1500 \text{ mm}$

U-bend

$A_{\text{min.}} = C_{\text{min.}} = 240 \text{ mm}$,
$B_{\text{min.}} = 410 \text{ mm}$,
$B_{\text{max.}} = 1500 \text{ mm}$

* Extended delivery times
**Tilting adaptor, 10°**
For mounting between operating housing and
- Enclosure attachment CP 6664.500
- Housing coupling CP 6664.000

**Material:**
Stainless steel 1.4305

<table>
<thead>
<tr>
<th>Weight</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.7 kg</td>
<td>6664.100</td>
</tr>
</tbody>
</table>

**Supply includes:**
1 set =
1 tilting adaptor,
4 assembly screws,
1 seal.

**Mounting cutout**

---

**Enclosure attachment**
For rigid fastening of the enclosure to the support section.

**Material:**
Stainless steel 1.4305

**Note:**
For assembly of a modular, stainless steel pedestal 2 packs are required.

<table>
<thead>
<tr>
<th>Weight</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 kg</td>
<td>6664.500</td>
</tr>
</tbody>
</table>

**Accessories:**
Enclosure reinforcement, see page 41.

**Mounting cutout**

---

**Housing coupling**
For mounting on the vertical part of the support arm system, rotation range approximately 350°, lockable with knurled screw.

**Material:**
Stainless steel 1.4305

**Supply includes:**
1 set =
1 housing coupling,
2 assembly screws for support sections,
4 assembly screws for enclosure,
1 seal for support sections,
1 seal for enclosure.

<table>
<thead>
<tr>
<th>Weight</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 kg</td>
<td>6664.000</td>
</tr>
</tbody>
</table>

**Accessories:**
Enclosure reinforcement, see page 41.

**Mounting cutout**
**Support Arm System**

**Wall/base mounting, rigid**
For attachment of the support arm system to vertical or horizontal surfaces.

**Material:**
Stainless steel 1.4305

**Supply includes:**
1 set =
1 wall/base mounting,
2 assembly screws for support section,
3 adjusting screws,
1 seal for support sections,
1 seal for wall/base.

<table>
<thead>
<tr>
<th>Weight</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6 kg</td>
<td>6663.000</td>
</tr>
</tbody>
</table>

**Accessories:**
Wall consoles, see page 40.

---

*Rittal Stainless Steel brochure*
**SUPPORT ARM SYSTEM**

**Swivel base mount**
For external mounting on
- Horizontal surfaces
- Wall consoles (only with CP 6663.500)

Rotation range approximately 350°, may be limited in 60° increments using the supplied plate and clamped with a knurled screw.

**Material:**
Stainless steel 1.4305

**Supply includes:**
1 set =
- 1 base mount,
- 2 assembly screws for support section,
- 1 seal for support section,
- 1 seal for surface or wall bracket.

**Accessories:**
Wall brackets for base mounting CP 6663.500, see page 40.

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Weight</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8 thread at rear</td>
<td>1.9 kg</td>
<td>6663.500</td>
</tr>
<tr>
<td>Front hole Ø 9 mm</td>
<td>2.1 kg</td>
<td>6663.400</td>
</tr>
</tbody>
</table>

**Attachment Weight**
- Model No. CP 6663.500
  - M8 thread at rear: 1.9 kg
  - Front hole Ø 9 mm: 2.1 kg

**Mounting cutout**

---

Pittal Stainless steel brochure
**SUPPORT ARM SYSTEM**

**Wall bracket**
With holes for mounting:
- Swivel base mount CP 6663.500 with 4 screws.
- Wall/base mounting, rigid, CP 6663.000 with 4 screws and nuts, including seal to the vertical surface and an additional seal for replacement when mounting CP 6663.000.

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Weight</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8 thread at rear</td>
<td>1.5 kg</td>
<td>6665.000</td>
</tr>
<tr>
<td>Front hole Ø 9 mm</td>
<td>1.8 kg</td>
<td>6665.500</td>
</tr>
</tbody>
</table>

**Material:**
Stainless steel 1.4301

**Surface finish:**
Brushed, grain 240

---

Example: CP 6665.000 + CP 6663.000

---

Front fastening

Example: CP 6665.500 + CP 6663.500

---

Rear fastening

Example: CP 6665.000 + CP 6663.000

---

Wall/base mounting, rigid, CP 6663.000 with 4 screws and nuts, including seal to the vertical surface and an additional seal for replacement when mounting CP 6663.000.

**Attachment Weight Model No. CP**

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Weight</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8 thread at rear</td>
<td>1.5 kg</td>
<td>6665.000</td>
</tr>
<tr>
<td>Front hole Ø 9 mm</td>
<td>1.8 kg</td>
<td>6665.500</td>
</tr>
</tbody>
</table>

**Material:**
Stainless steel 1.4301

**Surface finish:**
Brushed, grain 240

---

Example: CP 6665.000 + CP 6663.000

---

Wall bracket

Example: CP 6665.000 + CP 6663.000

---

Wall base mounting, rigid, CP 6663.000 with 4 screws and nuts, including seal to the vertical surface and an additional seal for replacement when mounting CP 6663.000.
**Pedestal, modular, small**

For configuring compact operator stations.

Can be assembled from the following modules:

<table>
<thead>
<tr>
<th>Enclosure reinforcement</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 6143.310</td>
<td>CP 6143.300</td>
<td>41</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enclosure attachment top</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 6664.500</td>
<td>CP 6664.500</td>
<td>37</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Support section, straight (can be shortened by cutting off individual lengths)</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 mm</td>
<td>CP 6660.050</td>
<td>36</td>
</tr>
<tr>
<td>1000 mm</td>
<td>CP 6660.010</td>
<td>36</td>
</tr>
<tr>
<td>2000 mm</td>
<td>CP 6660.020</td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enclosure attachment bottom</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 6664.500</td>
<td>CP 6664.500</td>
<td>37</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pedestal base plate, small</th>
<th>Model No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 6143.300</td>
<td>CP 6143.300</td>
<td>41</td>
</tr>
</tbody>
</table>

**Enclosure reinforcement**

For exterior or interior reinforcement of enclosures of the appropriate size. Smaller enclosures may also be installed directly without a flange.

For use with

<table>
<thead>
<tr>
<th>enclosure attachment CP 6664.500</th>
</tr>
</thead>
<tbody>
<tr>
<td>housing coupling CP 6664.000</td>
</tr>
</tbody>
</table>

Material:

Stainless steel 1.4301

Surface finish:

Brushed

Supply includes:

 Including assembly parts for the enclosure and support section plus 2 seals.

---

**Pedestal base plate, small**

With reinforcement bracket for assembling a stainless steel support section via an enclosure attachment.

- With one hole at the rear for commercially available cable conduit gland M20.
- With two holes at the top (incl. sealing bung(s)) for lower base attachment cross member.
- Prepared on the inside for a cable clamp DK 7077.000 or DK 7078.000 for strain relief.

Material:

Stainless steel 1.4301

Surface finish:

Brushed

Supply includes:

Assembly parts for enclosure attachment plus seal.

Note:

Commercially available screws up to M8 may be used for floor mounting.
Supply includes:
Enclosure, closed back and sides, door or double door at the front, with rod type lock console lid with lid stay and stainless steel cam lock internally latched, two-part gland plate, zinc-plated mounting plate.

<table>
<thead>
<tr>
<th>Width (B1) in mm</th>
<th>Packs of 600</th>
<th>800</th>
<th>1000</th>
<th>1200</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height in mm</td>
<td>960</td>
<td>960</td>
<td>960</td>
<td>960</td>
<td></td>
</tr>
<tr>
<td>Depth in mm</td>
<td>400/480</td>
<td>400/480</td>
<td>400/480</td>
<td>400/480</td>
<td></td>
</tr>
<tr>
<td>Model No. AP</td>
<td>1 2683.600</td>
<td>2684.600</td>
<td>2685.600</td>
<td>2686.600</td>
<td></td>
</tr>
<tr>
<td>B2 = Width</td>
<td>597</td>
<td>797</td>
<td>997</td>
<td>1197</td>
<td></td>
</tr>
<tr>
<td>B3 = Clearance width, top</td>
<td>544</td>
<td>744</td>
<td>944</td>
<td>1144</td>
<td></td>
</tr>
<tr>
<td>B4 = Clearance width, front</td>
<td>524</td>
<td>724</td>
<td>924</td>
<td>1124</td>
<td></td>
</tr>
<tr>
<td>B5 = Clearance width, bottom</td>
<td>500</td>
<td>700</td>
<td>900</td>
<td>1100</td>
<td></td>
</tr>
<tr>
<td>B6 = Width of door, left</td>
<td>–</td>
<td>–</td>
<td>495</td>
<td>595</td>
<td></td>
</tr>
<tr>
<td>B7 = Width of door, right</td>
<td>–</td>
<td>–</td>
<td>497</td>
<td>597</td>
<td></td>
</tr>
<tr>
<td>B8 = Section length of holes</td>
<td>500</td>
<td>700</td>
<td>900</td>
<td>1100</td>
<td></td>
</tr>
<tr>
<td>F1 = Mounting plate width</td>
<td>530</td>
<td>730</td>
<td>930</td>
<td>1130</td>
<td></td>
</tr>
<tr>
<td>F2 = Distance between mounting holes</td>
<td>475</td>
<td>675</td>
<td>875</td>
<td>1075</td>
<td></td>
</tr>
<tr>
<td>Doors</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>52.0</td>
<td>65.2</td>
<td>79.5</td>
<td>90.3</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>Height 100 mm</th>
<th>1 2685.000</th>
<th>2686.000</th>
<th>2867.000</th>
<th>2870.000</th>
<th>63</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height 200 mm</td>
<td>1 2875.000</td>
<td>2878.000</td>
<td>2885.000</td>
<td>2886.000</td>
<td>63</td>
</tr>
</tbody>
</table>

**Lock systems**

Standard double-bit lock insert of lacking rod may be exchanged for 27 mm lock inserts, type A, see Cat. 30, page 942 and lock systems Ergoform-S, see Cat. 30, page 939.

To order one-piece consoles in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400.

Delivery times available on request.
Material:
Stainless steel 1.4301
Enclosure: 1.5 mm
Door or double door and console lid: 2.0 mm
Mounting plate: Sheet steel 3.0 mm

Surface finish:
Enclosure, door and console lid: Brushed, grain 120
Mounting plate: Zinc-plated

Protection category:
IP 55 to EN 60529/10.91
Complies with NEMA 12

Accessories:
see page 63/64 and page 70/71 or refer to index.

Levelling feet
for base/planth to compensate for floor irregularities. See page 64.

IP 67 mouse and mouse pad
See Cat. 30, page 1004.

Wall bracket, stainless steel
mounted on the rear panel for additional command panel. See page 40.

The lid support is secured to prevent accidental closure.

The mounting plate is height-adjustable by 2 x 40 mm, e.g. for deep equipment installed in the lid or cable entry from the rear.
Supply includes:
Enclosure closed top and sides, rear door, three-part gland plates, mounting plate.

AP 2688.600
Three-part front:
Top door inclined at 11°, r/h hinge.
Space for
– desk section AP 2690.000
– keyboard drawer AP 2691.000.
Bottom door, r/h hinge.

AP 2689.600
Two-part front:
Top door inclined at 11°, r/h hinge.
Bottom door, r/h hinge.

Order examples

<table>
<thead>
<tr>
<th>Packs of (x)</th>
<th>Universal console</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AP 2688.600</td>
<td>49</td>
</tr>
<tr>
<td>1</td>
<td>AP 2689.600</td>
<td>49</td>
</tr>
</tbody>
</table>

Essential accessories

| Desk section AP 2690.000 | 1 | 2690.000 | 49 |
| or Keyboard drawer AP 2691.000 | 1 | 2691.000 | 49 |

Accessories for external mounting

| Base/plinth SO | Height 100 mm | 1 | 2868.000 | 2868.000 | 63 |
| Base/plinth SO | Height 200 mm | 1 | 2876.000 | 2876.000 | 63 |
| Base/plinth SO | Height 200 mm | 4 | 2908.000 | 2908.000 | 64 |

Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A – see Cat. 30, page 942, and Ergoform-S lock system – see Cat. 30, page 939.

To order universal consoles in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400.

Delivery times available on request.
Materials:
Stainless steel 1.4301
Enclosure: 1.5 mm
Door: 2.0 mm
Mounting plate:
Sheet steel 3.0 mm, zinc-plated
Surface finish:
Brushed, grain 120
Protection category:
IP 56 to EN 60529/10.91
Complies with NEMA 12

Connector gland
for 3 cables up to a diameter of 6 mm.
Model No. SZ 2400.500.

Rail for EMC screening plate
and strain relief

Mouse pad support
For desk section, mouse and mouse pad IP 67.
See Cat. 30, page 1004/1005.

Accessories:
see page 48/49 and page 70/71 or refer to index.
PC 4650.000
with keyboard drawer

PC 4650.000
with desk section

PC enclosure system with mounting compartment, large and keyboard drawer

PC enclosure system with desk section

Supply includes:
- Enclosure with closed sides, top and bottom
- Rear door with locking rod and double-bit insert
- Three-part gland plates
- Component shelf for monitor, see description opposite
- Bottom: Door, r/h hinge, with Ergoform-S lock system and double-bit insert.

On request:
- PC enclosure system with desk section
- PC enclosures for external mounting
- PC enclosures for interior installation

Accessories for external mounting

Accessories for interior installation

Lock systems

Storage:
- Standard double-bit lock insert may be exchanged for 27 mm lock inserts, Design A, see Cat. 30, page 942.
- Rear door prepared for installation of Ergoform-S lock system, see Cat. 30, page 939.

Order enclosures in 1.4401 (AISI 316) with extension no. .300, in 1.4571 with extension no. .400. Delivery times available on request.

Order enclosures in 1.4401 (AISI 316) with extension no. .304, in 1.4571 with extension no. .404. Delivery times available on request.

Page dimensions: 667.0x914.0
Material:
Stainless steel 1.4301
Enclosure:
10-fold profiled, 1.8 mm
Rear door: 2.0 mm
Gland plates: 1.5 mm
Monitor field with single-pane safety glass for 19” screen diagonal.
Surface finish:
Brushed, grain 240
Protection category:
IP 55 to EN 60529/10.91
Complies with NEMA 12

Component shelves
installable in the height on a 25 mm pitch pattern.
See page 49.

PC mobile workstation
Plenty of space for tower PCs, printers, and paper.
See page 48.

Connector grommet
dividable for keyboard, mouse, or scanner cables.

+ Accessories:
see page 48/49 and page 70/71 or refer to index.

Release mechanism in the keyboard drawer area for monitor door.

Mouse pad support pulled out from left or right side.

Cable support, hinged on the keyboard extension.
**ACCESSORIES**

**Human/machine interface**

**Mobile PC workstation**

For Tower PC, printer, USB, Server, etc.

Option of installing in 600 mm wide enclosures, 600 mm deep.

**Load capacity:**
75 kg

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Mobile workstation consisting of:
1 support frame,
2 shelves, top/bottom,
1 set of telescopic slides,
1 handle,
1 cable support, hinged, mounting accessories.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4641.000</td>
</tr>
</tbody>
</table>

**Also required:**
Punched sections with mounting flanges, punched sections without mounting flanges, see table.

**Accessories:**
- Fastening bolts DK 7115.000, see Cat. 30, page 993

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>For installation in</th>
<th>TS 2 punched sections with mounting flanges, see Cat. 30, page 974</th>
<th>ES, PC 2 punched sections without mounting flanges*, see Cat. 30, page 977</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>TS 8612.060</td>
<td>PS 4376.000</td>
<td></td>
</tr>
</tbody>
</table>

* plus

- 4 support brackets PS 4183.000, see Cat. 30, page 979
- 8 threaded blocks M6 PS 4162.000, see Cat. 30, page 982
- 8 screws M6 SZ 2504.500, see Cat. 30, page 981

**Shelf**

For PC workstation

To accommodate additional equipment such as modems, power packs etc. or simply as a paper tray.

The shelf may be mounted to the workstation with height adjustment on a 25 mm pitch pattern.

**Material:**
Sheet steel

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4642.000</td>
</tr>
</tbody>
</table>

**Supply includes:**
Shelf including assembly parts.

**Accessories:**
- Fastening bolts DK 7115.000, see Cat. 30, page 993.
Human/machine interface

**Keyboard drawer**
For a maximum keyboard width of 500 mm. Drawer with mouse pad at the front. Includes assembly material for attaching to universal console AP 2688.600.

- **Material:** Stainless steel 1.4301
- **Surface finish:** Brushed

**Desk section**
Solid sides and front, cover plates for top and bottom. May be attached with either the inclined or straight edge on top, by rotating through 180°. Includes assembly material for attaching to universal console AP 2688.600.

- **Material:** Stainless steel 1.4301
- **Surface finish:** Brushed

i.L. = Clearance width

---

**Component shelf, static installation**
To match the enclosure depth, for direct mounting in the vertical system punchings. Simply locate into 4 pre-fitted screws and secure.

- **Load capacity:** 50 kg
- **Material:** Sheet steel 1.5 mm

**Component shelf, pull-out**
For direct attachment on the enclosure frame. Additional punched sections are not required.

- **Material:** Sheet steel
- **Colour:** RAL 7015 (slate grey)
- **Load capacity:** 40 kg

---

## Specifications

**Model No. AP**

<table>
<thead>
<tr>
<th>Component</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyboard drawer</td>
<td>2691.000</td>
</tr>
<tr>
<td>Desk section</td>
<td>2690.000</td>
</tr>
<tr>
<td>Component shelf, static installation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Component shelf, pull-out</td>
<td></td>
</tr>
</tbody>
</table>

---

**For ES, PC, colour RAL 7035**

<table>
<thead>
<tr>
<th>For enclosure depth</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>620 mm</td>
<td>4619.660</td>
</tr>
</tbody>
</table>

**For TS, colour RAL 7015**

<table>
<thead>
<tr>
<th>For enclosure depth</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 mm</td>
<td>8800.900</td>
</tr>
</tbody>
</table>

* Enclosures without mounting plate.

---

**For depth mm**

<table>
<thead>
<tr>
<th>For depth mm</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>6902.960</td>
</tr>
</tbody>
</table>

1) May also be mounted in 800 mm deep enclosures based on TS (without mounting plate) (rear attachment extendible).

**Supply includes:**
Component shelf with 2 telescopic slides (supplied loose).
Rittal has shaped and revolutionised the range of benefits afforded by large enclosures with constant innovations. Whether used as a free-standing or a bayed enclosure, these systems offer the maximum in usable space. All this, plus excellent solution diversity with system accessories. The integration e.g. of climate control components and system preparations for electronics make TS and ES enclosures ideally suited to demanding IE and IT applications. Here too, system integration is based on the modular approach.

Standard modules, rather than customisation, offer infinite solution diversity, coupled with astonishing time and cost savings.

### TS 8 baying systems

- Frame structure made from solid sections with 25 mm system punchings
- Lockable door with four-point lock and four hinges (130°), adjacent door with separate latching top and bottom, four hinges (130°)
- Potential equalisation via the assembly components with:
  - Roof plate
  - Rear panel with 8/10-fold screw fastening
  - Three-piece gland plates
  - Depth-adjustable mounting plate

<table>
<thead>
<tr>
<th>TS baying system (Protection category IP 55)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>W mm</td>
<td>H mm</td>
</tr>
<tr>
<td>800</td>
<td>1800</td>
</tr>
<tr>
<td>1200</td>
<td>1800</td>
</tr>
<tr>
<td>600</td>
<td>1800</td>
</tr>
<tr>
<td>800</td>
<td>1800</td>
</tr>
<tr>
<td>1200</td>
<td>1800</td>
</tr>
<tr>
<td>600</td>
<td>2000</td>
</tr>
<tr>
<td>800</td>
<td>2000</td>
</tr>
<tr>
<td>1200</td>
<td>2000</td>
</tr>
</tbody>
</table>
Free-standing enclosures ES 5000

- Enclosure sealed at the sides and top, with 25 mm system punchings
- Lockable door with three-point lock and three hinges (130°), adjacent door latched via lockable door, three hinges (130°)
- Rear panel with 6/8-fold screw fastening
- Three-piece gland plates
- Depth-adjustable mounting plate

<table>
<thead>
<tr>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No. ES</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1600</td>
<td>400</td>
<td>5450.600</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>1800</td>
<td>500</td>
<td>5451.600</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>1800</td>
<td>500</td>
<td>5452.600</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>2000</td>
<td>600</td>
<td>5453.600</td>
<td>58/59</td>
</tr>
<tr>
<td>1000</td>
<td>1800</td>
<td>400</td>
<td>5454.600</td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td>2000</td>
<td>500</td>
<td>5455.600</td>
<td></td>
</tr>
</tbody>
</table>

(Protection category IP 55)

The enclosure Model Numbers listed here apply to the variant in 1.4301 (AISI 304). For variants in 1.4401 (AISI 316) or 1.4571, Model Numbers can be found on the respective product page.

<table>
<thead>
<tr>
<th>Approvals</th>
<th>TS baying systems</th>
<th>ES free-standing enclosures</th>
</tr>
</thead>
<tbody>
<tr>
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<td>VDE</td>
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</table>
TS 8 – the Rittal Top enclosure system now available with more variation options with standardised components. This variability is the key to perfect, individual solutions and is outstanding value for money. This is why the TS 8 in stainless steel is technically and economically the answer for all industries that demand corrosion protection and hygiene.

**The sum of these useful ideas is ri-volutionary.**
- The core of the TS 8 is the vertical section. It is the focal point of a new dimension of usability.
- Considerably more interior space, more effectively used with its two-level concept.
- More options with fewer parts with symmetry on all sides.
- Open on all sides; each of the four TS vertical sections can house the hinges for a door.
- Enclosures can be bayed to the left, right, front, back, around corners, and when needed top and bottom.

More space and infinite possibilities with the two-level concept!
Outer level: up to 15% more space.
Inner level: more options with the classic enclosure mounting surface.
Ingenious: Installation is feasible on both levels simultaneously. The space gained offers a lot of room for creative ideas, e.g. separate cable entry or new options for climate control.

**The TS 8 savings concept**
- Save time through simplification in installation.
- When installing, save through more options with fewer parts.
- Automatically save through standard, integral features.
- Save through versatile components.
- Save through symmetry.
- Symmetry makes many things easier, from planning to installing equipment.
- Save through security, because risk minimisation is an important factor in cost-effectiveness.
Each detail, a clever solution!
The integral channel above the seal on the horizontal frame section prevents liquid from collecting on the seals and penetrating the door or side panel when opened. Between bayed enclosures, the cover provides additional protection.

Perfect locking!
Optimum closure of the door is achieved via four locking points. The self-locking mechanics of the comfort handles are protected against accidental opening, such as, from vibration.

Cable entry: fast and sealed!
For cables up to 47 mm diameter, the cable entry plates in conjunction with the cable entry grommets offer an ingeniously simple and especially well sealed cable entry.

Perfect locking!
The adjacent door of double-door enclosures is secured through additional bolts on top and at bottom with interconnecting rods and handle from the middle outward. Accidental opening of a heavily equipped adjacent door, such as with a cooling unit, is prevented. The lock system of the primary door is identical with single-door enclosures.

Unlimited possibilities
Rittal offers a unique “Modular System” for accessories. Mechanical installation as well as equipment with many useful components is especially cost-effective and can be implemented rapidly.
Supply includes

<table>
<thead>
<tr>
<th>Material</th>
<th>Surface finish</th>
</tr>
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<tbody>
<tr>
<td>Enclosure frame</td>
<td>Stainless steel 1.4301</td>
</tr>
<tr>
<td>Door(s)</td>
<td>2.0 mm</td>
</tr>
<tr>
<td>Roof</td>
<td>1.5 mm</td>
</tr>
<tr>
<td>Rear panel</td>
<td>1.5 mm</td>
</tr>
<tr>
<td>Mounting plate</td>
<td>3.0 mm (sheet steel)</td>
</tr>
<tr>
<td>Gland plate, three-part</td>
<td>Zinc-plated</td>
</tr>
<tr>
<td></td>
<td>1.5 mm</td>
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</tbody>
</table>

2 depth stiffening supports (PS 4696.000, see Cat. 30, page 975) mounted in enclosure depth (only for 600 mm).

Protection category IP 55 to EN 60 529/10.91, complies with NEMA 12

<table>
<thead>
<tr>
<th>Width in mm</th>
<th>Height in mm</th>
<th>Depth in mm</th>
<th>Model No. TS</th>
<th>Doors</th>
<th>Weight (kg)</th>
<th>Side panels</th>
<th>Base/plinth</th>
<th>Accessories</th>
<th>Lock systems</th>
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<td>1</td>
<td>2</td>
<td>174.9</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To order enclosure in 1.4401 (AISI 316) use extension no. 300, in 1.4571 use extension no. 400. Delivery times available on request.
Mounting plate, zinc-plated, C fold at sides, depth-adjustable on the 25 mm pitch pattern.

Solid frame sections, punched on a 25 mm pitch pattern for universal interior installation. Vertical stays for two mounting levels.

For a reliable IP protection rating – adjacent door with top and bottom bolts as well as interconnecting rods with four bolts. Operated with the handle.

Accessories:
see page 62 – 69 and page 70/71 or refer to index.

Note:
Because of the material hardness, for component installation we recommend using the Torx screw SZ 2486.300, see page 67.

Cable duct
For direct assembly on the vertical enclosure profile. See Cat. 30, page 964.

Baying cover
Keeps the seal free from liquids and dirt. See page 67.

TS punched section with mounting flange 23 x 73 mm with punchings on all sides for captive nuts/threaded blocks. See Cat. 30, page 974.
Note:
With fitted side panels, the overall width (B1) is increased by 9 mm. Between bayed enclosures, allow 3 mm for the seal.

i.L. = Clearance width
**BAYING SYSTEMS TS 8**

**Dimensions in detail**

**Profile cross sections**

---

**Enclosures**

<table>
<thead>
<tr>
<th>Enclosures</th>
<th>Widths</th>
<th>Heights</th>
<th>Depths</th>
<th>Mount. pl.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-door</td>
<td>Two-door</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>B2</td>
<td>B3</td>
<td>B4</td>
<td>B5</td>
</tr>
<tr>
<td>8454.600</td>
<td>797</td>
<td>792</td>
<td>712</td>
<td>675</td>
</tr>
<tr>
<td>8456.600</td>
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<td>1112</td>
<td>1075</td>
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<td>712</td>
<td>675</td>
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<td>1192</td>
<td>1112</td>
<td>1075</td>
</tr>
</tbody>
</table>

Enclosure

- B1 = overall width
- B2 = width of door
- B3 = clearance between enclosure frames
- B4 = section length of system holes/hole distance between base and plinth attachment
- B5 = clearance between the tubular door frame
- B6 = distance between axes of the rows of tubular door frame holes
- B7 = spacing between eyebolts
- B8 = clearance in base aperture

H1 = overall height
H2 = height of rear panel
H3 = clearance between the enclosure frame
H4 = height of door
H5 = section length of system holes
H6 = distance between axes of the rows of tubular door frame holes
H7 = clearance between the tubular door frame
H8 = spacing of tubular door frame fastening bolts
H9 = distance from base to centre of lock

T1 = overall depth
T2 = section length of system holes/hole distance between base and plinth attachment
T3 = clearance between the enclosure frames
T4 = depth of base frame
T5 = clearance in base aperture
T6 = possible installation depth (mounting plate assembly), depth-adjustable on a 25 mm pitch pattern
T7 = centre-to-centre distance between eyebolts

Mounting plate

- F = overall width
- G = overall height

---

**Rittal Stainless steel brochure**
Supply includes:
Enclosure, closed top and sides, removable rear wall; r/h door hinge, can be changed to opposite side, except for ES 5455.600; 130° hinges, mounting plate, three-part gland plates.

Detailed drawings
see page 60/61.

Width in mm | Packs of | 600 | 600 | 800 | 800 | 1000 | 1200 | Page
---|---|---|---|---|---|---|---|---
Height in mm | | 1600 | 1800 | 1800 | 2000 | 1800 | 2000 |
Depth in mm | | 400 | 500 | 500 | 600 | 400 | 500 |
Model No. ES | | 450.600 | 451.600 | 452.600 | 453.600 | 454.600 | 455.600 |
Doors | | | | | 2 | | |
Eyebolts | | | | | | 2 | |
Weight (kg) | | 92.5 | 169.6 | 131.8 | 154.0 | 146.9 | 205.4 |

Accessories external mounting

| Base/plinth SO | Height 100 mm | 1 | 2805.000 | 2868.000 | 2866.000 | 2866.000 | 2867.000 | 2860.000 | 63 |
| Height 200 mm | 1 | 2875.000 | 2876.000 | 2879.000 | 2880.000 | 2885.000 | 2887.000 | 2887.000 | 63 |
| Base/plinth plate, modular SO | 1 | 2907.000 | 2908.000 | 2908.000 | 2913.000 | 2907.000 | 2908.000 | 2908.000 | 64 |

Accessories internal mounting

| System support rails PS | 2 | 4361.000 | 4361.000 | 4362.000 | 4362.000 | 4347.000 | 4363.000 | Cat. 30 899 |
| Cable clamp rails PS | 2 | 4191.000 | 4191.000 | 4192.000 | 4192.000 | 4336.000 | 4196.000 | Cat. 30 898 |
| Support strips PS | 20 | 4596.000 | 4596.000 | 4598.000 | 4598.000 | 4599.000 | 4596.000 | Cat. 30 975 |
| Utility lectern PS | 1 | 4638.600 | 4638.600 | 4638.800 | 4638.800 | – | 4638.600 | Cat. 30 951 |
| Wiring plan pockets PS | 1 | 4116.000 | 4116.000 | 4118.000 | 4118.000 | 4124.000 | 4116.000 | Cat. 30 952 |

Lock systems
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A – see Cat. 30, page 942 and Ergoform-S lock system – see Cat. 30, page 939

To order enclosures in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400.
Delivery times available on request.
FREE-STANDING ENCLOSURES ES 5000

Material:
Stainless steel 1.4301
Enclosure: 1.8 mm
Door: 2.0 mm
Rear panel: 1.5 mm
Mounting plate: Sheet steel 3.0 mm

Surface finish:
Enclosure, rear panel and doors: Brushed, grain 240
Mounting plate: Zinc-plated

Protection category:
IP 56 to EN 60 529/10.91 (for all single-door ES),
IP 55 to EN 60 529/10.91 (for all double-door ES),
Complies with NEMA 12

Mounting plate
Also suitable for components outside of the 25 mm pitch pattern of holes.
See Cat. 30, page 978.

Signal pillars
Simple contact using bayonet connectors.
See Cat. 30, page 1000.

Stainless steel viewing window
Reliable protection for installed components in stainless steel enclosures.
See page 69.

Accessories:
see page 62 – 69
and page 70/71
or refer to index.

Door with rectangular frame, slotted.

Enclosure with twin rows of holes in all 3 dimensions.

Mounting plate with slide block to guide runner.
i.L. = Clearance width

Cross-section

Pitch pattern of holes
FREE-STANDING ENCLOSURES ES 5000

Dimensions in detail

Enclosures

<table>
<thead>
<tr>
<th>Widths</th>
<th>Heights</th>
<th>Depths</th>
<th>Mount. pl.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-door</td>
<td>Two-door</td>
<td></td>
<td></td>
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<tr>
<td>ES 5450.600</td>
<td>599 592 512 475 455 475 535 401</td>
<td>1610 1575 1512 1475 1450 1430</td>
<td>1400 798 402 275 349 325 325 499 1496</td>
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<td>1810 1775 1712 1675 1650 1630</td>
<td>1600 898 402 275 349 325 349 425 499 1696</td>
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<td>ES 5454.600</td>
<td>899 952 912 875 855 875 935 801</td>
<td>1810 1775 1712 1675 1650 1630</td>
<td>1600 898 402 275 349 325 349 425 899 1696</td>
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<td>ES 5453.600</td>
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<td>2010 1975 1912 1875 1850 1830</td>
<td>1800 998 402 375 549 469 549 525 699 1896</td>
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<td>2010 1975 1912 1875 1850 1830</td>
<td>1800 998 502 375 449 369 449 425 1099 1896</td>
</tr>
</tbody>
</table>

Enclosure

| B1 = overall width |
| B2 = width of door |
| B3 = clearance between enclosure frames |
| B5 = section length of system punchings/hole distance of base and plinth attachment |
| B6 = clearance between the tubular door frame sections |
| B7 = distance between the rows of tubular door frame holes |
| B8 = spacing between eyebolts |
| B9 = clearance in base aperture |

Mounting plate

| T1 = overall depth |
| T2 = section length of system punchings/hole distance of base and plinth attachment |
| T4 = depth of base frame |
| T5 = clearance in base apature |
| T6 = possible installation depth (mounting plate assembly) up to 149 mm, depth-adjustable on a 25 mm pitch pattern |
| T7 = centre-to-centre distance between eyebolts |

Mounting plate

i.L. = Clearance width
ACCESSORIES

Large enclosures

Base/plinth components front and rear for TS
Material:
Stainless steel 1.4301
Surface finish:
Brushed

Supply includes
1 set = Height
Corner pieces 100 mm 200 mm
Trim pieces
front/rear 2 2
Mounting accessories including 4 screws and M12 nuts for fitting to the enclosure

* Corner piece with removable trim, for mounting optionally on the front or rear.

Base/plinth components front/rear for TS
For enclosure width mm Packs of Model No. TS
100 mm high 200 mm high
600 1 8701.600 8702.600
800 1 8701.800 8702.800
1200 1 8701.200 8702.200

Base/plinth trim, side
Installation between the base/plinth components front and rear. For 200 mm height two 100 mm base/plinth trim pieces can be used. Base/plinth trim pieces (100 mm high) can be installed rotated 90° to stabilise bayed base/plinth components.
Material:
Stainless steel 1.4301
Surface finish:
Brushed
Supply includes:
1 set = 2 base/plinth trim panels including material for attaching the base/plinth components.

Base/plinth trim, side for TS
For enclosure depth mm Packs of Model No. TS
100 mm high 200 mm high
400 1 8701.040 8702.040
500 1 8701.050 8702.050
600 1 8701.060 8702.060

Base/plinth components front/rear
Width mm B1 B2 B3 B4 B5
600 600 535 475 400
800 800 735 675 600
1200 1200 1135 1075 1000

Base/plinth trim, side
Depth mm T1 T2 T3 T4 T5
400 400 369 335 300 275 250
800 500 469 435 400 375 350
1200 1200 569 535 500 475 450

Description of the hole pattern
B1/T1 = External dimensions
B2/T2 = For screw fastening in the thread of the enclosure corner piece from below
B3/T3 = For screw fastening via captive nut on the enclosure floor from below or above
All holes (B2 – B4/T2 – T4) can be used for screw fastening on the floor.

Accessories:
Trim panels, modular (perforated plate), see page 64.

Also required:
Base/plinth baying brackets TS 8601.100, see Cat. 30, page 881, for installation of base/plinth trim components rotated by 90°.
**Complete base/plinth**

Consisting of:
- Trim panels front and rear (for height 200 mm with corner pieces and removable trim panel on one side), and removable trim panels.

**Material:**
Stainless steel 1.4301

**Surface finish:**
Brushed

<table>
<thead>
<tr>
<th>Supply includes</th>
<th>Height</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>100 mm</td>
</tr>
<tr>
<td>Corner pieces</td>
<td>–</td>
</tr>
<tr>
<td>Trim panels front/rear</td>
<td>2</td>
</tr>
<tr>
<td>Trim panels, side</td>
<td>2</td>
</tr>
</tbody>
</table>

Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.

* Corner pieces with removable trim panel, to be mounted optionally at the front or rear.

**Accessories:**
- Levelling feet, see page 64.
- Trim panels, modular, see page 64.

### Base/plinth for ES/PC/AP

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Model No. SO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Depth mm</td>
</tr>
<tr>
<td>600</td>
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<td>400</td>
</tr>
<tr>
<td>1200</td>
<td>400</td>
</tr>
<tr>
<td>1200</td>
<td>500</td>
</tr>
</tbody>
</table>

Base/plinth 100 mm high

Base/plinth 200 mm high

| T = Enclosure depth – 50 mm |
| B = Enclosure width |

---

[Image of Rittal Stainless steel brochure]
ACCESSORIES

Large enclosures

Levelling feet
For mounting underneath the base/plinth.
For unhindered access e.g. when cleaning the floor and to compensate for floor irregularities.
Max. permissible static load: 400 kg/foot
Adjustment range:
M12: 55 mm – 125 mm
M16: 45 mm – 120 mm
Material:
Hexagon section steel, 19 mm across flats
Surface finish:
Zinc-plated, passivated
Supply includes:
10 fastening bolts

<table>
<thead>
<tr>
<th>Thread</th>
<th>Packs of</th>
<th>Model No. SO</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12</td>
<td>1 set</td>
<td>2889.000</td>
</tr>
<tr>
<td>M16</td>
<td>1 set</td>
<td>2890.000</td>
</tr>
</tbody>
</table>

Levelling feet, 100 mm high
For mounting on TS and ES enclosures, for easier floor cleaning and to compensate for floor irregularities of ± 15 mm.
Height: 100 mm
Max. permissible static load: 350 kg/foot
Material:
Feet: Brass, nickel-plated
Threaded bolts and mounting plates:
Stainless steel 1.4301
Supply includes:
1 set =
4 levelling feet, 4 mounting plates, incl. assembly parts.

Supply includes:
1 set =
4 levelling feet, 4 mounting plates, incl. assembly parts for the enclosure.
German utility model no. G 94 06 468

Levelling feet, 100 mm high

Trim panels, modular
For cable routing in the base/plinth, made from stainless steel, e.g. when using levelling feet (see above).
One perforated plate segment is 175 mm wide. The system punchings are suitable for accommodating cable ties SZ 2597.000 for tidy cable routing.
Material:
Stainless steel 1.4301
Supply includes:
4 perforated plates

<table>
<thead>
<tr>
<th>Number of trim panels required for a given plinth width*</th>
<th>Model No. SO</th>
</tr>
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<tbody>
<tr>
<td>600 mm</td>
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</tr>
<tr>
<td>600</td>
<td>3</td>
</tr>
</tbody>
</table>

* If the surface is to be completely closed

Trim panels, modular

Fastening bolt for base/plinth
Through the clampable fastening bolts, cable clamp rails and standard horizontal C rails can be fitted.
Material:
Hexagon section steel, 19 mm across flats
Surface finish:
Zinc-plated, passivated
Supply includes:
10 fastening bolts

<table>
<thead>
<tr>
<th>For trim panel height mm</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
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</tr>
<tr>
<td>200</td>
<td>2819.200</td>
</tr>
</tbody>
</table>

* only for a height of 200 mm

Accessories:
Cable clamp rail, see Cat. 30, page 898.
Cable entry plates
for TS
For simple and quick cable entry and
sealing in combination with:

- Cable entry grommets
- Connector grommets

These are used instead of segments of the
standard divided gland plates.

Material:
Stainless steel 1.4301

Supply includes:
2 or 4 cable entry plates
including assembly parts.

Cable entry grommets
In conjunction with the cable entry plate,
for simple, fast sealing of cables inserted
into the base area of enclosures.

Material:
Outer cover: Polypropylene
Seal: Cellular rubber

Protection category:
IP 55 to EN 60 529/10.91

Connector grommets
In conjunction with cable entry plates,
for the entry of cables pre-assembled with
connectors.

Suitable for cable diameters from
8 to 36 mm.

Material:
Outer cover: Polypropylene covered with
thermoplastic elastomer
Seal: Cellular rubber

Three examples from a wide range of possibilities
The illustrations show three examples for the positioning of cable
entry plates instead of segments of the standard three-part gland
plates. In that way a positioning suitable for the mounting plate
is possible. Thanks to the enclosure symmetry, where dimensions permit, cable
entry plates may also be inserted in the enclosure depth, right and
left, analogous to the gland plates.

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Cutouts per plate</th>
<th>Packs of</th>
<th>Model No.</th>
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<td>2</td>
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<tr>
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<td>8</td>
<td>2</td>
<td>8700.800</td>
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<tr>
<td>1200</td>
<td>6</td>
<td>4</td>
<td>8700.120</td>
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German patent no. 42 07 281
European patent no. 0560119
with validity for FR, GB, IT, NL
Japanese patent no. 2533052
US patent no. 5,422,436

<table>
<thead>
<tr>
<th>Cables per grommet</th>
<th>max. Ø mm</th>
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<tr>
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</table>

German patent no. 42 07 281
European patent no. 0560 119
with validity for FR, GB, IT, NL
Japanese patent no. 2 533 0

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<tr>
<td>10</td>
<td>4311.000</td>
</tr>
</tbody>
</table>

German patent no. 40 28 570
**ACCESSORIES**

**Large enclosures**

**Side panels, screw-fastened**

For TS

To finish a complete enclosure. Easy attachment on the inside vertical enclosure frame member.

Earthing inserts ensure automatic potential equalisation and a higher degree of EMC protection. Earth studs with contact surfaces already included.

**Material:**

Stainless steel 1.4301, 1.5 mm

**Surface finish:**

Brushed

**Protection category:**

IP 55 to EN 60 529/10.91

**Supply includes:**

2 side panels, 16 panel holders including assembly parts.

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Depth mm</th>
<th>Packs of</th>
<th>Model No.</th>
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<tr>
<td>1800</td>
<td>500</td>
<td>2</td>
<td>8700.850</td>
</tr>
<tr>
<td>2000</td>
<td>600</td>
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</table>

**Hose-proof hoods**

For fan-and-filter units

When the hose-proof hood is mounted above the fan-and-filter unit and outlet filter in conjunction with a fine filter mat, a protection category of IP 55 to EN 60 529/10.91 is achieved. Particularly suitable for use in the food industry

**Material:**

Stainless steel

**Dimensions in mm**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Dimensions in mm</th>
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<tr>
<td>SK 3321</td>
<td>150 x 260 x 40</td>
</tr>
<tr>
<td>SK 3322</td>
<td>176 x 270 x 55</td>
</tr>
<tr>
<td>SK 3323</td>
<td>233 x 410 x 55</td>
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<tr>
<td>SK 3324</td>
<td>282 x 500 x 85</td>
</tr>
<tr>
<td>SK 3326</td>
<td>350 x 560 x 110</td>
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</tbody>
</table>

* Delivery time on request.

Conforms to NEMA 3R + 12 in conjunction with fan-and-filter units/outlet filters.
**Accessories**

**Large enclosures**

---

**Cover for baying (top)**

_for TS_

A cover may additionally be clipped over the seal between two enclosures, simply with two end caps. This prevents dirt and liquid from collecting on the baying seal.

**Material:**
Stainless steel 1.4301
End caps: ABS plastic, black

**Surface finish:**
Brushed

**Supply includes:**
Cover incl. 2 end caps.

**Note:**
May also be fitted in the width with enclosures bayed back to back.

German patent no. 19737667

---

**Baying connector, external**

_for TS_

For connecting bayed TS sections from the outside.

**Installation:**
Simply position on the outside and screw-fasten from either inside or outside.

**Material:**
Stainless steel 1.4301

**Supply includes:**
Baying connector, including assembly parts.

German patent no. 19737668

---

**Torx screw**

Special screw for the holes in the enclosure frame. Suited to high stainless steel strength. For use with all enclosure systems with round holes (TS, ES, PC, AP universal consoles).

**Supply includes:**
1 pack of 300

---

**For enclosure depth (mm) | Packs of | Model No.**
---|---|---
400 | 1 | 8700.140
500 | 1 | 8700.150
600 | 1 | 8700.160

---

Possible alternative:
Robust baying connection when transporting bayed enclosures, see Cat. 30, page 912/913.

The installation on site or for provisional siting in the workshop, see Cat. 30, page 914/915.

---

**Packs of | Model No.**
---|---
6 | 8700.000

---

**Packs of | Model No.**
---|---
300 | 2486.300

---
Large enclosures

**Comfort handle for locking applications for TS**
Prepared for the installation of lock inserts, safety and push-button inserts.

Length: 295 mm

Material: Die-cast zinc

Surface finish: Matt nickel-plated

<table>
<thead>
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<td>1</td>
<td>8611.330</td>
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</tbody>
</table>

**Accessories:**
Lock inserts, safety and push-button inserts, see below.

**Lock inserts**
For comfort handles and the standard TS lock (in exchange for the standard double-bit lock insert).

Material: Die-cast zinc

<table>
<thead>
<tr>
<th>Design</th>
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<tbody>
<tr>
<td>7 mm square</td>
<td>8611.100</td>
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<tr>
<td>8 mm square</td>
<td>8611.110</td>
</tr>
<tr>
<td>6.5 mm triangular</td>
<td>8611.220</td>
</tr>
<tr>
<td>7 mm triangular</td>
<td>8611.120</td>
</tr>
<tr>
<td>Screwdriver</td>
<td>8611.140</td>
</tr>
<tr>
<td>Daimler</td>
<td>8611.150</td>
</tr>
<tr>
<td>Double-bit, 3 mm</td>
<td>8611.160</td>
</tr>
<tr>
<td>Flat</td>
<td>8611.170</td>
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</table>

**Lock and push-button insert**
For installation in the comfort handles for lock inserts.

<table>
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<tr>
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<tbody>
<tr>
<td>Lock insert</td>
<td>8611.180*</td>
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<tr>
<td>Push-button insert</td>
<td>8611.190</td>
</tr>
<tr>
<td>Push-button and lock insert, lock no. 12.321, no other lock is possible</td>
<td>8611.200*</td>
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<tr>
<td>* with 2 keys</td>
<td></td>
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</table>

**Comfort handle for semi-cylinder for TS**
Prepared for the installation of standard semi-cylinders 40 or 45 mm in length to DIN 18.254 and security and push-button inserts.

Length: 302 mm

Material: Die-cast zinc

Surface finish: Matt nickel-plated

<table>
<thead>
<tr>
<th>Packs of</th>
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<tr>
<td>1</td>
<td>8611.340</td>
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</table>

**Accessories:**
Lock and push-button insert, see above.

**Lock and push-button inserts**
For installation in:

- the comfort handle for semi-cylinder, see above,
- Ergoform-S standard, see Cat. 30, page 939.

<table>
<thead>
<tr>
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<th>Model No. SZ</th>
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<tbody>
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<tr>
<td>Lock no. 3524 E</td>
<td>2467.000</td>
</tr>
<tr>
<td>Push-button insert</td>
<td>2468.000</td>
</tr>
<tr>
<td>Lock and push-button insert, lock no. 2123; no other lock is possible</td>
<td>2469.000*</td>
</tr>
<tr>
<td>* with 2 keys</td>
<td></td>
</tr>
</tbody>
</table>
ACCESSORIES

Large enclosures

Hinge 180°
for TS
For retrospective conversion of standard doors with 130° hinges.

Single handed installation:
- Exchange frame-side hinged parts for 180° hinges
  (4 screws).
- Drill door at the pre-marked points.
- Screw on door-side hinge parts.
- Hang door.
- Push in captive hinge pins.

Material:
Die-cast zinc
Hinge pins: Stainless steel

Surface finish:
Matt nickel-plated

<table>
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<th>Packs of</th>
<th>Model No. TS</th>
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<tr>
<td>4</td>
<td>8701.180</td>
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</tbody>
</table>

Supply includes:
4 x 180° hinges, including assembly screws. For twin doors, 2 packs units are required.

Note:
Door configurations such as the comfort handle can restrict the door opening angle. The hinge pins may only be actuated and the door removed with the door open. The hinge cannot be dismantled from the outside with the door closed (access protection).

Hinge 180°
for ES/AP universal consoles
For retro-converting standard stainless steel doors with 130° hinges, including assembly material.

Material:
Stainless steel 1.4301

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4156.000</td>
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</table>

Viewing window
The perfect solution for display and control elements in all areas with high hygiene standards. Fitted as standard with internal 130° hinges and all-round seal.
The double-bit lock insert may be exchanged for 27 mm lock inserts, design A and Ergoform-S handle SZ 2452.000.

Material:
Stainless steel 1.4301
Single-pane safety glass

Protection category:
IP 54 to EN 60 529/10.91

Supply includes:
Viewing window with cam lock, including assembly parts.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm</th>
<th>B1 mm</th>
<th>Model No. FT</th>
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<td>600</td>
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<td>408</td>
<td>2793.560</td>
</tr>
<tr>
<td>722</td>
<td>600</td>
<td>38</td>
<td>608</td>
<td>2793.760</td>
</tr>
</tbody>
</table>

Other widths and heights available on request.

Accessories:
Lock inserts 27 mm, design A, see Cat. 30, page 942.
Ergoform-S handle SZ 2452.000, see Cat. 30, page 939.
More system accessories for perfect, cost-effective configuration of the various stainless steel cases and enclosures can be found in Rittal Catalogue 30.
RITTAL SYSTEM ACCESSORIES

in the Rittal Catalogue 30

ROOF/WALL MOUNTING  954 – 963
- Roof  954 – 961
- Wall mounting  962 – 963

INTERIOR INSTALLATION  964 – 996
- Cable ducts  964
- Mounting plates  965 – 969
- Rail systems  970 – 985
- Component shelves  986 – 993
- Mobile workstations  993
- General accessories  996

SYSTEM LIGHTS  997 – 999
- Connection accessories  999

SIGNAL PILLAR  1000 – 1002
- Optical/acoustic components  1001
- Mounting components  1002

MOUSE, MOUSE PAD IP 67  1004 – 1005
- Mouse, mouse pad IP 67  1004 – 1005

CABLE ATTACHMENT / EARTHING  1010 – 1013
- Cable attachment  1010
- Earthing/potential equalisation  1011 – 1013

482.6 MM (19") INSTALLATION SYSTEM  1014 – 1037
- Swing frame  1014 – 1025
- Mounting angles  1026 – 1031
- Slide rails  1027 – 1033
- Drawers  1034 – 1035
- Blanking plates  1036
With the right climate control components, you can significantly reduce the risk of expensive system failures or machine downtime caused by overheating. Heat is still the number one enemy of sensitive microelectronics. Overheating and temperature fluctuations are the most common cause of malfunctions and failures.

With one of the world’s leading project ranges and a comprehensive range of services, including thermal analysis, Rittal offers individual solution concepts to minimize risks and boost productivity.

High cooling output, central and cost-effective
Recooling systems
Enclosure cooling, machine and process cooling as well as the cooling of liquids and emulsions can be achieved centrally from one recooling system. Several items of equipment are easily connected in parallel.

Useful cooling output from 0.96 kW – 176 kW

Air/water heat exchanger
For enclosure cooling in extreme ambient conditions, a combination of recooling systems and air/water heat exchangers offers an effective way of dissipating very high heat loads. If necessary, the enclosures and piping can be designed in stainless steel.

Useful cooling output from 600 W – 5000 W

Integral cooling technology
It sets standards for the modern unity between enclosure and cooling components, both now and in the future. The cooling unit built into the enclosure door or side panel keeps the enclosure internal temperature at the desired level, irrespective of the ambient temperature. Thanks to two mechanically separate, well-insulated air circuits, the ingress of dust from the environment into the enclosure via the cooling system is prevented.

The integral cooling system
- is sure to impress, with its particularly effective cooling
- helps to cut the time spent on assembly
- reduces investment costs for the complete unit

Useful cooling output from 1100 W – 2500 W
Risk minimisation through central monitoring
This is achieved particularly effectively, thanks to a combination of Rittal climate control components with central monitoring and control via the CMC.
Temperature limits are perfectly maintained, any potential defects are identified to enable preventive action, and service requirements are notified promptly and organised from a central location.

Enclosure surfaces are kept free
Roof-mounted cooling units
Roof mounting means that all enclosure surfaces are kept free for control and display devices. Transportation and escape routes are not obstructed. Depending on the siting conditions and interior installation of the enclosure, we offer flexible air routing for the outer and inner circuits. Control is achieved using a built-in Basic or Comfort controller.
Useful cooling output from 500 W – 4000 W

Effective in every performance category
Wall-mounted cooling units
Whether 225 W useful cooling output for effective heat dissipation of command panels, for example, or 4,000 W for the dissipation of extremely high heat loads, the refrigeration factor of Rittal cooling unit technology demonstrates exceptionally effective use of the power input.
The increased demands on network technology design are met to perfection by the styling, with the option of full installation, partial installation or external mounting.
Like the roof-mounted cooling units, the wall-mounted cooling units are also equipped with either Basic or Comfort controllers.
Useful cooling output from 225 W – 4000 W

Safety is our top priority
SK customer service
Thermographic measurements on the populated enclosures.

Useful cooling output
from 225 W – 4000 W

Useful cooling output
from 500 W – 4000 W
At Rittal, even “tailor-made” individual solutions are based on our comprehensive knowledge of system platforms for enclosures and cases. In other words, the perfection and cost benefits of mass-produced products are combined with customer-specific designs and features. The outstanding benefits include perfect quality, significantly lower costs, and precise implementation of customer requirements.

1. Assembly of system accessories

Make use of the versatile opportunities offered by Rittal system accessories! With full internal mounting available ex works.

A service to save you time and money.

2. Modification of standard components

Ideas based on serial products are implemented to perfection ex works:
- Holes and cutouts
- Insertion of acrylic or safety glass windows
- Your logo, sand/bead blasted
- Other surface finishes

Example: Duct alarm box
- AE compact enclosure with rain canopy in spray-finished stainless steel
- Cutouts with opal plexiglass panels
- Interior case for fire extinguisher and telephone
Material specifications

<table>
<thead>
<tr>
<th>Country</th>
<th>DIN designation</th>
<th>DIN designation</th>
</tr>
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<tbody>
<tr>
<td>Germany</td>
<td>1.4301 (V2A)</td>
<td>X 5 CrNi 18 10</td>
</tr>
<tr>
<td></td>
<td>1.4401</td>
<td>X 5 CrNiMo 17 12</td>
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<tr>
<td></td>
<td>1.4571 (V4A)</td>
<td>X 6 CrNiMoTi 17-12-2</td>
</tr>
</tbody>
</table>

Rittal material diversity

Apart from stainless steel, we also offer enclosures in the following materials to suit all applications:

- **Cast aluminium**
- **Sheet steel, electrophoretic dipcoat primed and powder coated**
- **Sheet aluminium**
- **Polycarbonate**
- **Sheet steel with an aluminium zinc surface finish**
- **Polyester, fibreglass-reinforced**

3. Modified dimensions

Size variants are possible for all stainless steel enclosures on request:
- Enclosure systems TS/ES on a 25 mm pitch pattern
- Enclosure systems without pitch pattern

4. Individual solutions

Project-specific solutions, fully fitted and delivered on time – all part of the Rittal service!
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