Hygienic Design
Hygiene standards for high productivity and reliability

“Rittal – The System.” stands for cleverly thought-out system solutions for hygienic production in the food industry. Particularly in open processes, where the resistance of the seal to detergents and disinfectants is crucial, it is vital for production plant to be equipped with optimised enclosures, terminal boxes and command panels.
The Rittal Hygienic Design for food safety is based on:

**European standards and directives**
- EN 1672-2:2005 Food machinery/General design principles/Part 2: Hygiene requirements
- EN ISO 14 159 2004 Safety of machinery – Hygiene requirements for the design of machinery
- EN 16 001 Energy management to improve energy efficiency
- Machinery directive 2006/42/EC binding
- Document 13 EHEDG guideline on the hygienic design of apparatus for open processes, prepared in collaboration with 3-A and NSF International

**EU regulations**
- 852/2004 on the hygiene of foodstuffs
- 853/2004 specific hygiene rules for food of animal origin
- 854/2004 specific rules for the organisation of official controls on products of animal origin intended for human consumption
- 1935/2004 on materials and articles intended to come into contact with food

Decide for yourself what is important.

**Rittal Hygienic Design boosts operational hygiene**
- Reduces the use of C&D agents
- Optimises cleaning results
- Ensures higher productivity
- Minimises risks
- Increases energy efficiency (CO₂ footprint)

All terminal boxes and compact enclosures are cULus listed.
Extra cleanliness guaranteed!

Terminal boxes and compact enclosures in Hygienic Design (HD) are key elements in the design of open processes in the food industry and clean rooms due to their ease of cleaning. Compatible accessories such as wall spacer brackets and HD-compatible cable glands complete the range. If you have specific requirements, “Rittal – The System.” is sure to have the right solution.
Silicone seal
- All-round external, joint-free silicone seal
- Easy to replace
- Guides and fixes the lid to the screw fasteners
- All-round tilt
  - Enclosure: 3°
  - Lid: 10°

Interior configuration
- Hole pitch of 6.25 mm for greater flexibility
- KL support rails and mounting plates can be fitted directly

Hinges and seal
- Hinges that are inside the sealing zone create an exceptionally easy-clean design on the outside
- The durable all-round, external silicone seal effectively prevents all gaps
- Installed sealing frames are easily replaced
- No external cavity between enclosure and door
- Seal dyed blue to clearly distinguish it from foodstuffs

Screw fastener
- Captive
- With external seal
- Hexagon shape for perfect cleanliness

Lock and lock insert
- External parts made of stainless steel
- Material and shape allow easy and reliable cleaning

Roof angled forwards by 30°
- Prevents objects from being deposited on it
- Is easily inspected
- Allows fluids to drain off rapidly
Hygienic Design terminal boxes/compact enclosures

Material:
- Enclosure and cover/door: Stainless steel 1.4301 (AISI 304)
- Screw fasteners/lock inserts: Stainless steel
- Seal: Silicone, compliant with FDA Guideline 21 CFR 177.2600
- Mounting plate: Sheet steel (HD compact enclosures only)

Surface finish:
- Enclosure and cover/door: Brushed, grain 400, Rₐ < 0.8 μm
- Mounting plate: Zinc-plated
- Seal: Blue, dyed (RAL 5010)

Protection category IP to IEC 60 529:
- IP 66

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

Protection category NEMA:
- NEMA 13
- NEMA 4X
- NEMA 3R (HD terminal boxes only)

Supply includes:
- Enclosure of all-round solid construction
- Cover/door
- Mounting bracket (pre-assembled, HD terminal boxes only)
- Mounting plate (HD compact enclosures only)

Technical details:
Available on the Internet

HD terminal boxes

<table>
<thead>
<tr>
<th>Width</th>
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<th>150</th>
<th>150</th>
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<td></td>
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Accessories
- HD wall spacer bracket 1 pc(s). 4000.100 4000.100 4000.100 4000.100 4000.100 4000.100 4000.100
- Mounting plate 1 pc(s). 1560.700 1560.700 1562.700 1563.700 1564.700 1568.700
- Support rail TS 35/7.5 10 pc(s). 2314.000 2314.000 2315.000 2316.000 2317.000
- HD cable gland see page 15

HD compact enclosures, single-door

<table>
<thead>
<tr>
<th>Width mm</th>
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<th>220</th>
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<td>Front mm</td>
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<td>300</td>
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<td>Mounting plate height mm</td>
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<td>355</td>
<td>570</td>
<td>470</td>
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<td>570</td>
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Accessories
- HD wall spacer bracket 1 pc(s). 4000.100 4000.100 4000.100 4000.100 4000.100 4000.100 4000.100
- Rails for interior installation see Cat. 34, page 173
- HD cable gland see page 15
- T handles with/without lock cylinder on request
Accessories for terminal boxes/compact enclosures

**HD levelling feet**

**Benefits:**
- Minimises cleaning time thanks to fully covered, permanently sealed threads
- Compensation of floor inclines up to an angle of 10° thanks to flexible base plate
- Baying can even be achieved on sloping floors, thanks to a large levelling range
- Designed to EHEDG regulations, including certification

**Material:**
- Stainless steel 1.4301 (AISI 304)

**Load capacity:**
- Max. 7000 N static per levelling foot

**Supply includes:**
- Assembly parts and seals

<table>
<thead>
<tr>
<th>Version</th>
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<tr>
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<td>4000.240</td>
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<tr>
<td>with base mount</td>
<td>M12</td>
<td>4 pcs.</td>
<td>4000.250</td>
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</table>

**HD wall spacer bracket**

**Benefits:**
- Creates space for cleaning behind the enclosure
- Shorter assembly times by eliminating the need for an all-round seal
- Greater hygiene safety by avoiding an inaccessible dead space or gap between the enclosure and wall

**Functional principle:**
- For mounting on the wall, either from the enclosure interior via a through-hole (max. M8) or from the rear via an integral M10 thread

**Material:**
- Stainless steel 1.4301 (AISI 304)

**Supply includes:**
- Assembly parts and seals

<table>
<thead>
<tr>
<th>Wall distance mm</th>
<th>Packs of</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>150</td>
<td>1 pair(s)</td>
<td>On request</td>
</tr>
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</table>

**Mounting alternatives:**
- Attachment from inside
- Attachment from outside

**HD enclosure key**

<table>
<thead>
<tr>
<th>Packs of</th>
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<tbody>
<tr>
<td>1 pc(s)</td>
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**HD bit**

**for universal key 2549.500**

see Cat. 34, page 573

<table>
<thead>
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<tbody>
<tr>
<td>1 pc(s)</td>
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</table>

**HD cam lock**

**Hygienic Design variant for easy, safe cleaning.**

**Applications:**
- Compact enclosures AE stainless steel (except 1017.XXX and 1019.XXX)
- May be integrated into customised applications, e.g. covers of machine panels

**Material:**
- Stainless steel 1.4404 (AISI 316L)

<table>
<thead>
<tr>
<th>Packs of</th>
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<td>1 pc(s)</td>
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**Accessories:**
- HD enclosure key, see page 7
System partner for the food industry

Create the optimum conditions for successful audits by IFS 6 and trading firms with the Rittal System for Hygienic Design. The baying system and production data enclosures can be integrated perfectly into your production clean rooms. Thanks to the infinite possibilities for baying, even complex control systems for open processes are no longer a problem.
Seal
- Silicone profile seal between door, side panels and enclosure
- Joint-free, all-round external seal – simple to replace
- Seal dyed blue to clearly distinguish it from foodstuffs
- Silicone seal for the angled roof and bay-ing frame comprising self-adhesive, jointed profile lengths and rectangular profiles

Door
- Hinges that are inside the sealing zone create an exceptionally easy-clean design on the outside
- Two locking rods, external parts in stainless steel, for secure and sealed closing
- Easy-to-clean lock insert – can be exchanged for a T-handle upon request

Designing
- Integrated, non-detachable rear panel guarantees reliable hygiene and sealing in an area which is difficult to monitor
- Side panels screw-fastened from the inside
- Door and enclosure with all-round internal system punching for installation of accessories
- Door hinged on the right, may be swapped to the left
- Solid base
- Mounting plate from TS 8 baying system
- Rounded edge folds on the door and side panels as a significant contribution to easy cleaning
- Open top for mounting of angled roof
- A special angled roof can be manufactured upon request for combinations of two 600 or 800 mm wide enclosures
Hygienic Design system enclosure

Material:
- Stainless steel 1.4301 (AISI 304)
- Enclosure: 1.5 mm
- Door: 2.0 mm
- Lock inserts: Stainless steel
- Seal: Silicone, compliant with FDA Guideline 21 CFR 177.2600
- Mounting plate: Sheet steel

Surface finish:
- Brushed, grain 400, \( R_s < 0.8 \mu m \)
- Mounting plate: Zinc-plated
- Seal: Blue, dyed (RAL 5010)

Protection category IP to IEC 60 529:
- IP 66

Protection category IP to DIN 40 050-9:
- IP 59 K

Supply includes:
- Enclosure, closed at rear and bottom, open at top and sides
- Door
- Mounting plate

System enclosure HD

<table>
<thead>
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<th>Width mm</th>
<th>Packs of</th>
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Accessories

| HD side panels | 1 pair(s) | 4000.185 | 4000.185 | 4000.185 | 4000.185 | 4000.185 | 4000.185 | 11 |
| HD baying frame | 1 pc(s) | 4000.785 | 4000.785 | 4000.785 | 4000.785 | 4000.785 | 4000.785 | 11 |
| Mounting plate (fill) | 1 pc(s) | 4000.508 | 4000.508 | 4000.508 | 4000.508 | 4000.508 | 4000.508 | 11 |
| HD angled roof 30°, open at the sides | 1 pc(s) | 4000.545 | 4000.545 | 4000.545 | 4000.545 | 4000.545 | 4000.545 | 11 |
| HD side panels for angled roof | 1 pair(s) | 4000.505 | 4000.505 | 4000.505 | 4000.505 | 4000.505 | 4000.505 | 11 |

Interior installation
- see mounting and operating instructions

HD cable gland
- see page 15

T handles with/without lock cylinder
- on request

HD supporting structure with leveling
- on request

1) Extended delivery times.
Hygienic Design

Accessories for system enclosure

**HD supporting structure with levelling**

*Material:*  
- Stainless steel tube 1.4301 (AISI 304)

*Size:*  
- Height: 300 mm

*Supply includes:*  
- Assembly parts

**HD side panels**

*Width 25 mm*

*Material:*  
- Stainless steel 1.4301 (AISI 304), 2.0 mm

*Supply includes:*  
- With assembly parts for screw-fastening from the inside

For enclosures  

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<th>H x D mm</th>
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**HD baying frame**

*Width 44 mm*

*Material:*  
- Stainless steel 1.4301 (AISI 304)

*Supply includes:*  
- Assembly parts

For enclosures

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<th>Model No.</th>
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<tbody>
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<td>1 pc(s)</td>
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**Mounting plate infill**

*Width 106 mm*

*Material:*  
- Sheet steel, 2 mm

*Surface finish:*  
- Zinc-plated

*Supply includes:*  
- Assembly parts

For enclosures

<table>
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<th>Model No.</th>
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<td>1 pc(s)</td>
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**HD angled roof 30° open at the sides**

*Material:*  
- Stainless steel 1.4301 (AISI 304)

*Supply includes:*  
- Assembly parts

<table>
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*Extended delivery times.*

**HD side panels for angled roof**

*Material:*  
- Stainless steel 1.4301 (AISI 304)

*Supply includes:*  
- Assembly parts

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<tr>
<th>D mm</th>
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<td>500</td>
<td>1 pair(s)</td>
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</table>
Hygienic Design production data cabinet

Material:
- Stainless steel 1.4301 (AISI 304)
- Enclosure: 1.5 mm
- Door: 2.0 mm
- Lock inserts: Stainless steel
- Seal: Silicone, compliant with FDA Guideline 21 CFR 177.2600

Surface finish:
- Brushed, grain 400, Ra <0.8 μm
- Seal: Blue, dyed (RAL 5010)

Protection category IP to IEC 60 529
- IP 66

Protection category IP to DIN 40 050-9
- IP 59 K

Supply includes:
- Solid enclosure, roof angled forwards by 30°
- Top door with integrated polycarbonate pane for monitor; compartment with screw-fastened mounting plate with holes for VESA connection 75 and 100
- Bottom door; compartment with pull-out component shelf
- Surface between top and bottom doors angled to the front by 5° as shelf or for a keyboard

HD production data cabinet

<table>
<thead>
<tr>
<th>Width mm</th>
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<tbody>
<tr>
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<td>Depth mm</td>
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Accessories
- HD cable gland
- see page 15
- HD leveling feet
- see page 7
- HD supporting structure with leveling
- on request
- T handles with/without lock cylinder
- on request
Hygienic Design production data cabinet

Material:
- Stainless steel 1.4301 (AISI 304)
- Enclosure: 1.5 mm
- Door: 2.0 mm
- Lock inserts: Stainless steel
- Seal: Silicone, compliant with FDA Guideline 21 CFR 177.2600

Surface finish:
- Brushed, grain 400, $R_A < 0.8 \mu m$
- Seal: Blue, dyed (RAL 5010)

Protection category IP to DIN 40 050-9:
- Enclosure top: IP 59K
- Enclosure bottom: IP 69K

Material:
- Stainless steel 1.4301 (AISI 304)
- Enclosure: 1.5 mm
- Door: 2.0 mm
- Lock inserts: Stainless steel
- Seal: Silicone, compliant with FDA Guideline 21 CFR 177.2600

Surface finish:
- Brushed, grain 400, $R_A < 0.8 \mu m$
- Seal: Blue, dyed (RAL 5010)

Protection category IP to DIN 40 050-9:
- Enclosure top: IP 59K
- Enclosure bottom: IP 69K

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<td>Height (rear) (H2) mm</td>
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<td>Depth (T) mm</td>
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<tr>
<td>Model No.</td>
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Accessories
- T handles with/without lock cylinder
- HD levelling feet
- HD connection components
- Other accessories

Other optional modifications:
- Enclosure top: without viewing window, with mounting panel instead of mounting plate
- Enclosure top: with cut-out for touch panel instead of viewing window
- Enclosure bottom: without side rails, without component shelf, with mounting panel
- Both enclosures with drilled holes for connection components

Console supply includes:
- Roof angled forwards by 30°
- Door with integrated polycarbonate pane for monitor; compartment with screw-fastened mounting plate with holes for VESA connection 75 and 100
- Viewing window 535 x 325 mm
- Mounting plate height-adjustable for monitors up to 24"

Pedestal supply includes:
- Roof angled forwards by 3°, suitable as a support rest or for keyboard installation
- Component shelf spray-finished, pull-out and height-adjustable with side punched rails
Hygienic Design

Accessories production data cabinet

HD connection components

for console and pedestal

Material:
– Stainless steel 1.4301 (AISI 304)

Supply includes:
1 set
– 2 reinforcement plates for enclosure, top
– 4 reinforcement plates for enclosure, bottom
(2 for the roof, 2 for the attachment of levelling feet or supporting structure)
– 2 spacer supports with drilled hole diameter 40 mm for cable entry, height 50/45.8 mm.
– Assembly parts and seals

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No.</th>
</tr>
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<tbody>
<tr>
<td>1 set(s)</td>
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HD wall spacer bracket

Functional principle:
– For mounting on the wall, either from the enclosure interior via a through-hole (max. M8) or from the rear via an integral M10 thread.

Material:
– Stainless steel 1.4301 (AISI 304)

Supply includes:
– 1 pair of brackets for the bottom, with space for welding on cable grids
– 1 spacer for the top
– Assembly parts

<table>
<thead>
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<th>Wall distance mm</th>
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<tbody>
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<td>50</td>
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<td>4000.100</td>
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</table>

HD wall spacer bracket

Material:
– Support: Stainless steel 1.4301 (AISI 304)
– Spacers: Plastic approved for use with foodstuffs, dyed blue

Supply includes:
– 1 pair of brackets for the bottom, with space for welding on cable grids
– 1 spacer for the top
– Assembly parts

<table>
<thead>
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<tbody>
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</table>

HD supporting structure

with levelling

Material:
– Stainless steel tube 1.4301 (AISI 304)

Size:
– Height: 300 mm

Supply includes:
– Assembly parts

On request.

HD flap, side

for label tray

Material:
– Stainless steel 1.4301 (AISI 304)

Supply includes:
– Hinges and cam lock

On request.

Connector gland, small

Material:
– Plastic

Colour:
– RAL 9005

Protection category IP to IEC 60 529:
– IP 65 if installed correctly

Supply includes:
– Assembly parts

<table>
<thead>
<tr>
<th>To fit</th>
<th>Packs of</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 cables Ø 6 – 8 mm</td>
<td>1 pc(s).</td>
<td>2400.300</td>
</tr>
<tr>
<td>3 cables Ø 4 – 6 mm</td>
<td>5 pc(s).</td>
<td>2400.500</td>
</tr>
</tbody>
</table>
HD cable gland

Applications:
- Manufacturing and packaging of foodstuffs etc.
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

Benefits:
- Smooth, solid exterior surfaces effectively prevent the depositing of harmful micro-organisms
- Much easier, therefore cheaper, cleaning compared with conventional cable glands

Material:
- Cap nut: Stainless steel 1.4305 (AISI 303)
- Seal: Compliant with FDA 21 CFR 177.2600

Protection category:
- IP 68 (5 bar, 30 min.) to IEC 60 529
- IP 69K to DIN 40 050-9

Why hygiene-compatible cable glands?

Critical points with conventional solutions
1. Cable entry in front of seal
2. No minimum radii on the hexagon
3. External threads
4. Gap caused by O-ring on the enclosure surface

Hygiene-compatible design features
1. Seal directly at the cable entry
2. Compliance with minimum radii on the hexagon
3. No external threads
4. Flush termination between the cap nut and the enclosure

Stainless steel lock nut

To match HD cable glands

Material:
- Stainless steel 1.4305 (AISI 303)

Assembly tool

for HD cable gland

For attaching HD cable glands in an internal thread or using lock nuts. This can be achieved either from the inside or from the outside using an Allen key.

Supply includes:
- 1 set = Adaptor for sizes from M12 – M25
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