

Hygienic-Line:

Certified housings for tomorrow's standards.

BGN-certification according to **DIN EN 1672-2:2009** for all components, DGUV-test NG11160

Stainless steel housing to size.

The Hygienic-Line: TOMORROW'S HYGIENE-STANDARD.

In the **food industry** (e. g. in the areas of semiluxury goods, drinks, dairy processing, sausage and meat processing), in certain areas of the **pharmaceutics industry** and in **biotechnology** , the cleaning-technical requirements have significantly increased. Different standards describe these hygiene requirements precisely.

We offer the solution: Our Hygienic-Line, a housing system complying with all directives and already meeting tomorrow's standards. So that you can focus on your core competence today and in future.

We have the patent for safety and cleanliness.

Construction and production of our hygienic line is aligned with the relevant standards to the smallest detail. Many patents and certifications warrant safety and cleanliness. The Hygienic-Line meets all EHEDG, BGN and other certification body requirements:

- **EN 1672:1997 / DIN EN 1672**

Food machines – general design principles

- **EN ISO 14159:2002 / DIN EN ISO 14159**

Safety of machinery – hygiene requirements to the design of machinery (hygiene-related risk analysis is an important part)

- **EN ISO 14159:2009**

Machinery directive **RL2006/42/EC**
(since 29 December 2009)

- **European directive**

- **EHEDG Guidelines 8 & 13**

Building on hygiene standards:

THE HYGIENIC-LINE FOR FOOD AND PHARMACEUTICS INDUSTRY SYSTEMS

Our housing system for Hygienic-Design applications secures compliance with the highest technical standards in system engineering for the

- food industry
- Pharmaceuticals industry
- Biotech companies

Clean thing(s)!
Your benefits

- Best construction with sandwich sealing technology
- Housing construction with defined canting
- No dirt corners
- Cleaning effort minimised
- Available in different designs
- Safety from long experience in IP-protection
- Unique product range with innovative housing lines
- A system from a single source
- Many references for customer satisfaction

Steeldesign

STEELDESIGN has been a pioneer in the housing area since the company was founded in 1991. This is reflected in the many patents. Among others, STEELDESIGN developed IP69K-protection in housing construction.

Our customers thus may rely on unique know-how, top quality and warranted performance. We will not be happy unless our housings meet the specific requirements at 100 percent. Because of this, we continually develop our housing technology and set standards with it.

Let us consult you on all usage options for our **Hygienic-Line components!**

As of 10.2012
Technical changes reserved

TECHNICAL DATA

NEW

HOUSING TECHNOLOGY

SANDWICH-SEALING TECHNOLOGY

The newly developed sandwich technology offers multiple protection. The blue special seal **securely prevents ingress of micro components** into all dead rooms. This makes it clearly different from food components.

PATENTED SLIP RING SASH

for wall housings

- The innovative solution
- Material completely of stainless steel 1.4301 and 1.4404
- No seal visible
- Simplest cleaning
- No dead zones
- Simple assembly
- Outstanding seal

CONSTRUCTION BODY AND ROOF

The outstanding housing construction of the Hygienic-Line **secures the highest hygiene standards.**

- Defined roof radius: Roof inclination angle > 30°
- No deposit options!
- Protrusion of the drip edge
- Dripping of liquids without front contamination

NEW

CABLE SCREW CONNECTION

The cable screw connections of the HL-KV-series is characterised by the following features:

- Smooth stainless steel outer surface
- Easy and simple assembly from the inside
- All important sizes from M12 to M63 available
- Material 1.4301 and 1.4404 to IP68

NEW

QuickFix-Attachment System

The new, modular QuickFix-attachment system can be used simply and flexibly by a plug-in and grid system for any required assembly. This hygiene-compatible wall and machine attachment system is BGN-certified and thus meets the highest hygiene standards, just like housings and housing components.

Thus, wall housings and terminal boxes can be installed securely and quickly. Depending on use, the following versions are available for assembly:

T-TUBE CONNECTION SYSTEM

For quick assembly and disassembly

The tee is simply installed to the wall with the disc plate. Then the housing can be attached with the rear latching system.

BOLT ANCHOR SYSTEM

Dowel bolt anchors to the wall. Gapless screw connection to the rear housing wall.

MACHINE ASSEMBLY WITH AREA SEAL OR T-TUBE

Area seal: Large-area gap-0-seal between operating housing and machine.
Cable routing inside the housing possible.

Machine
Area seal
Housing

MATERIAL AND SURFACE

- Smooth stainless steel outer surface
- Available in different stainless steel materials
- In 1.4301, 1.4404 or 1.4571
- All surfaces are fine-bridged in drop direction
- RA-value < 8 mm

The entire housing line Hygienic-Line can be equipped with the patented Clean-Line surface. This surface prevents finger prints and thus offers complete protection against contamination.

WE ARE INNOVATIVE!

We continually develop the Hygienic-Line. In future, it will also be available in other housing types, e.g. as standing cabinet and operating terminal. We will gladly provide information on our innovations. Do you have any questions on our Hygienic-Line or any of our other housing lines?

We will gladly be there for you personally:

0800 2646000

PRODUCT OVERVIEW

HYGIENIC-LINE WALL HOUSING

with rear wall print, prepared for the QuickFix-attachment system, protection class IP 66, assembly plate zinc-plated, HP-sash

TYPE	H x W x D	Order no.
HL-WG 442215	440 (350) x 220 x 155	10020470
HL-WG 553921	550 (430) x 390 x 210	10020472
HL-WG 773921	770 (650) x 390 x 210	10020473
HL-WG 675121	670 (550) x 510 x 210	10020474
HL-WG 606130	605 (430) x 610 x 300	10020475
HL-WG 776121	770 (650) x 610 x 210	10020476
HL-WG 1208130	1225 (1050) x 810 x 300	10020477
HL-WG 1408130	1425 (1250) x 810 x 300	10020478

HYGIENIC-LINE MACHINE HOUSING

without rear wall print, prepared for machine assembly
Protection type IP 66, assembly plate zinc-plated, HD-sash

TYPE	H x W x D	Order no.
HL-MG 442215	440 (350) x 220 x 155	10020450
HL-MG 553921	550 (430) x 390 x 210	10020451
HL-MG 773921	770 (650) x 390 x 210	10020452
HL-MG 675121	670 (550) x 510 x 210	10020453
HL-MG 606130	605 (430) x 610 x 300	10020454
HL-MG 776121	770 (650) x 610 x 210	10020455
HL-MG 1208130	1225 (1050) x 810 x 300	10020456
HL-MG 1408130	1425 (1250) x 810 x 300	10020457

HYGIENIC-LINE CABLE SCREW CONNECTIONS

in stainless steel HL-KV-types. Request our data sheet for this.

TYPE	H x W x D	Order no.
HL-KV12	M12 x 0.75	10020524
HL-KV16	M16 x 0.75	10020525
HL-KV20	M20 x 0.75	10020526
HL-KV25	M25 x 0.75	10020527
HL-KV32	M32 x 0.75	10020528
HL-KV40	M40 x 1.5	10020529
HL-KV50	M50 x 1.5	10020530
HL-KV63	M63 x 1.5	10020531

HYGIENIC-LINE ATTACHMENT SYSTEMS

QUICKFIX T-TUBE CONNECTION
HL-WG Quick T comprises of: 4 x T-tube connector 100mm HL-WG QuickFix T-tube connector
Order number 10020482

QUICKFIX BOLT ANCHOR SYSTEM

HL-WG Quick B comprising of:
4 x bolt anchor 100mm
8 x O wall seals
HL-WG QuickFix bolt anchor system

Order number 10020483

QUICKFIX STANDING SYSTEM

HL-WG Quick standing system comprising of:
4 x stainless steel bases (can be leveled)
HL standing system

Order number 10020538

QUICKFIX MACHINE ATTACHMENT

HL-MG Quick D comprising of:
1 x insertion seal
4 x attachment set
*HL machine attachment

Order number 10020484

Standard or individual design

Wall housing IP66 to IP69K
Terminal boxes IP66 to IP69K
Control cabinets IP55 to IP69K

ExLine available as:

Terminal boxes
Terminal boxes with hinges
Overpressure-encapsulated housing

Special housing:

Hygienic-Line	REX electronic housing
BDE/Panel-PC	L.O.X.
Panels	G.L.E.D.

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