Conveyor system closures
for rail-bound conveyor systems
Future-proof fire protection

Reliable system solutions for conveyor system closures

The ADVANTAGE to you

+ With us, you gain a reliable, high-performance and financially-strong partner for conveyor system closure (CSC)

+ As a customer, you are our focus

+ Quality and adherence to deadlines are top priorities for us

+ Consultancy, planning, design, manufacturing, assembly maintenance and service from one source

+ Verifiable competence in the planning and manufacturing of reliable system solutions

+ 75 years of management experience

+ Latest Hold-open-Device – HPS EVOLUTION

+ 5,000,000 hours of project experience

+ Well known references in the fields of industry, logistics and airports

+ Stability and long service life of your systems thanks to intelligent maintenance

+ High flexibility and quick availability of a professional service technician

+ 100% fire protection
Plan – Build – Run

Planning and designing CSCs
+ Request
+ Offer (layout, data sheet, etc.)
+ Measurement
+ Project planning (mechanical)
+ Project planning (electrical)
  - Control system
  - Automatic hold-open/release mechanism
  - Clearance control
  - Emergency power supply

Manufacturing, assembly and commissioning
+ Manufacture of the gates
+ Assembly planning
+ Installation
+ Internal quality assurance
+ Customer acceptance
+ Surveyor approval
+ Individual case approval
+ Documentation

Service and maintenance
+ Certified technical personnel
+ System training for operating personnel
+ Annual maintenance
+ Certificates
+ Authorization
Conveyor system closures

System overview

- Sliding elements, single-leaf
- Lifting and lowering elements, single-leaf
- Swing doors, single-leaf
- Flaps, single-leaf
- Sliding elements, double-leaf
- Swing doors, double-leaf
- Ceiling and floor sliders
- Special area: Stainless steel
- Textile-flexible systems
- Control Unit HPS EVOLUTION
**Conveyor system closures**

**System setup**

- **Closing mechanism** for secure and regulated closing, using mechanically stored energy
- **Automatic hold-open/release device**
- **Opening aid**
  - Manual or motorized re-opening possible
- **Slide gate**
  - Automatic closing process possible in many closing directions
- **Fire detection**
  - Smoke and heat detectors
- **Manual or motorized opening possible**
- **Slide gate**
- **Fire detection**
  - Smoke and heat detectors

**Installation in various types of walls**
- e.g. concrete/reinforced concrete, masonry, aerated concrete and clad steel

**Conveyor system**

- **Material to be conveyed**
- **Controlled clearing from the closure area**

**Sealing block**

- **For sealing various types of conveyor systems**

**Sensors**

- **For monitoring the closing area**

*Future-proof fire protection*
Conveyor system closures

Sliding elements, single-leaf

General building authority approval: Z-6.6-1993
Fire resistance: Tested in accordance with DIN EN 1366-7
Classification: DIN 4102-5
Class: T 90
Wall opening (W x H): 200 x 200 mm to 3,600 x 3,400 mm
Closing directions: 

- Slide gate can be executed in a segmented design
- Slide gate either with or without sheet steel cladding (t = 1.0 mm)
- Ground level or elevated installation position possible

Future-proof fire protection
Conveyor system closures

Lifting and lowering elements, single-leaf

General building authority approval: Z-6.6-1993
Fire resistance: Tested in accordance with DIN EN 1366-7
Classification: DIN 4102-5
Class: T 90
Wall opening (W x H): 200 x 200 mm to 3,600 x 3,400 mm
Closing directions:

- Slide gate can be executed in a segmented design
- Slide gate either with or without sheet steel cladding (t = 1.0 mm)
- Ground level or elevated installation position possible

Leopold Verpackungen, Ludwigsburg
Kronospan GmbH, Saggau
Dehner GmbH & Co. KG, Rain
Conveyor system closures

Swing doors, single-leaf

General building authority approval: Z-6.6-1994
Fire resistance: Tested in accordance with DIN EN 1366-7
Classification: DIN 4102-5
Class: T 90
Wall opening (W x H): 600 x 700 mm to 1,200 x 2,500 mm

+ Swing gate either with or without sheet steel cladding (t = 1.0 mm)
+ Ground level or elevated installation position possible
+ Conveyor system can be realized as unseparated at the top or continuous at the bottom
Conveyor system closures

Flaps, single-leaf

- For use where space is limited
- Sealing of several continuous sections of conveyor is possible
- For complex conveyor system geometries, additional flap sealing segments can be installed.

General building authority approval: Z-6.6-1992
Fire resistance: Tested in accordance with DIN EN 1366-7
Classification: DIN 4102-5
Class: T 90
Wall opening (W x H): 200 x 200 mm to 600 x 700 mm
Closing directions:

Document conveyor system flap
Channel slide flap
Conveyor system closures

Sliding elements, double-leaf

General building authority approval: Z-6.6-1993
Fire resistance: Tested in accordance with DIN EN 1366-7
Classification: DIN 4102-5
Class: T 90
Wall opening (W x H): 200 x 200 mm to 3,600 x 3,400 mm
Closing directions: 

+ Asymmetrical gate partitioning possible
+ Slide gate either with or without sheet steel cladding (t = 1.0 mm)
+ Conveyor profile unseparated top or bottom, can also be realized at ground level or at an elevated installation position
+ Tested with thermally unseparated, continuous conveyor profile (telpher line), electric rail system
Conveyor system closures

Swing doors, double-leaf

General building authority approval: Z-6.6-1994
Fire resistance: Tested in accordance with DIN EN 1366-7
Classification: DIN 4102-5
Class: T 90
Wall opening (W x H): 1,200 x 700 mm to 2,500 x 2,500 mm
Closing directions:

- Asymmetrical leaf partition possible
- Swing gate either with or without sheet steel cladding (t = 1.0 mm)
- Conveyor profile unseparated top or bottom, can also be realized at ground level or at an elevated installation position
- Tested with thermally unseparated, continuous conveyor profile (telpher line), electric rail system
Conveyor system closures

Ceiling and floor sliders

- For use with conveyor systems that cross different floors of a building
- For use where space is limited
- Installation location on and under the ceiling possible
- Different variations of unseparated conveyor systems possible
- Slide gate either with or without sheet steel cladding (t = 1.0 mm)

General building authority approval: Z-6.6-1993
Fire resistance: Tested in accordance with DIN EN 1366-7
Classification: DIN 4102-5
Class: T 90
Wall opening (W x H): 200 x 200 mm to 1,000 x 1,500 mm
Conveyor system closures

Special area: Stainless steel

+ All our conveyor system closures can be clad completely with stainless steel.
+ Additional corrosion protection
+ Use in the food, pharmaceutical and semiconductor industries
+ Manufactured in the stainless steels: 1.4301 (V2A) and 1.4571 (V4A)
+ Following surface finishes are possible: rolled blank, 240 grain, marbled
Conveyor system closures

Textile-flexible smoke protection systems

| General building authority approval: | Z-6.62-2269 |
| Classification: | Tested in accordance with DIN 18095-3 / EN 1634-3 |
| Class: | RS |

- Large system widths possible
- For use where space is limited
- Low system weight
- No expansion forces in the event of a fire
- Can be combined with fire protection
Conveyor system closures

Textile-flexible fire protection closures

+ Large system widths possible
+ For use where space is limited
+ Low system weight
+ No expansion forces in the event of a fire
+ Can be combined with smoke protection
+ Equivalent protection target EI30/EI90 possible with various compensation measures

General building authority approval: Z-6.60-2174
Classification: Tested to EN 1634-1
Class: E30 - E180, EW20 - EW60, EW90
Closing directions: Vertical, horizontal
Conveyor system closures

HPS EVOLUTION control unit

Intelligent control system

The system solution is based on the components:

- **HPS EVOLUTION** gates — Automatic hold-open/release mechanism for several fire protection gates
- **HPS CONTROL** — PC application for system control
- **HPS DRIVE** — Clearance control for the conveyor technology drives
- **HPS POWER** — Emergency power supply for the conveyor technology drives

Through standardization, all components offer an optimal basis for the effective and cost-optimized realization of projects.
Conveyor system closures
HPS EVOLUTION control unit

Features/Highlights

+ Seamless mutually coordinated system components
+ Very high flexibility thanks to a parameterizable control system
+ Significant reduction in planning times through use of standard components
+ Design diagrams enable project planning without prolonged coordination and waiting times
+ Short delivery time through use of pre-manufactured system components
+ Compact control consoles enable operation even under unfavorable conditions
+ Simplified assembly and cabling through optimal system structure
+ Reduced commissioning costs through customer-specific standards
+ Flexible extension without great time expenditure or high planning costs
+ Quick-change device for all system components
+ Use as an individual system and as a bus system for large systems
+ Comprehensive documentation in available languages included
+ Multilingual PC application for analysing system conditions and events
+ System information is saved to the removable storage device integrated in the control unit
+ Data export function for remote control included
+ Compact, decentral switching device for conveyor drives
+ High-performance system emergency power supply of 2 kW, 4 kW and 9 kW
**Conveyor system closures**

**HPS EVOLUTION control unit**

**HPS EVOLUTION**
- Automatic hold-open/release mechanisms for conveyor system closures
- Actuation of several independent CSC protection gates is possible
- Use as an individual control unit and as a CAN bus system for large systems
- Standby power supply to DIN EN 54-4/ A2 for 1 to 4.5 hours
- Multilingual control panel with visualization of more than 30 conditions
- Fire detector evaluation for up to 20 detectors
- Closure area monitoring of several conveyor sections
- Removable storage device for system data and event memory integrated in the control unit
- Parameter acceptance during hardware change without system intervention in accordance with DIBt/ VdS requirement
- PC connection via USB to evaluate the system statuses and events
- Option to connect to the conveyor technology bus system
- Completely isolated configurable interface for conveyor technology
- Compact extension module for additional control points
- Selector switch modes can be integrated
- Protection class IP65

**HPS CONTROL**
- PC application for system control
- Connection via USB interface
- Multilingual software in available languages
- Integration of the system documentation in the installed languages
- Representation of all current system conditions of the connected control units
- Data export function for external processing
Conveyor system closures

Clearance control + emergency power

HPS DRIVE

+ Clearance control for clear spaces in the closing area
+ Compact, decentral switching device for conveyor technology drives
+ Standardized components with quick-change function
+ Realization of the components in various versions depending on the drive system
+ Integration of emergency off coupling to EN954-1 KAT4 where personnel protection is required
+ Replaceable system unit for quick adaptation to new conveyor drives
+ Protection class IP65

HPS POWER

+ Emergency power supply for grid or power supply failure
+ Power classes 2 kW, 4 kW and 9 kW effective power
+ Parallel provision of 24 V DC/ 3~ 230 V AC/ 3~ 400 V AC possible
+ Provision of 24 V supply for emergency-off system of the conveyor technology
+ Independent actuation for various supply voltages of the drives
+ Network charging device to DIN EN 54-4/ A2 with active, VdS*-certified battery monitoring
+ Compact system cabinet that can be positioned anywhere in the system
+ Protection class IP54 – Use with sprinkler systems also possible

*German loss prevention company
Our partners

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*Future-proof fire protection*

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**HODAPP**

**Founded:** 1946

**Services:**
Swing doors, sliding gates, conveyor system closures, lifting gates

**Experience:**
70 years in the market, CAD designs in 2D and 3D, modern production technology, "state of the art" controller technology

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**GÄRTNER CONSULTING**

**Founded:** 2006

**Services:**
Management consulting, IT and HR consulting, project management

**Experience:**
Founder has 30 years of management experience as CFO ad entrepreneur (Cap Gemini, Moeller, Interschalt, gte)

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**ARTURO SERVICE GMBH**

**Founded:** 2016

**Services:**
Installation and commissioning of fire protection gates in the area of conveyor system closures, technical service for maritime and inland waterway transport

**Experience:**
28,000 project hours in 150 FAA projects

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**TECHNOLOGY GMBH**

**Founded:** 2005

**Services:**
Textile-flexible smoke and fire protection systems, rolling and stacking doors, expert in preventive fire protection

**Experience:**
One of the leading suppliers of textile-flexible smoke and fire protection closures in Europe.