

# High-Speed Doors

For optimised material flow and improved efficiency







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# **High-speed progress**

Without on-going development and improvements by our highly-qualified technicians as well as comprehensive knowledge of all the market requirements, efficient high-speed door designs of a recognised high standard would not be possible.

The new spiral door HS 7030 PU is the best example of this.



## **Precise production**

Innovative production processes that have been matched perfectly with each other are a guarantee for steadily increasing product quality. An example: The modern hot air welding system that enables a precise and automated welding of the door curtains.

# Hörmann high-speed doors

# Much more than simply fast



Hörmann high-speed doors are used both inside and as exterior doors to optimise the flow of traffic, improve room conditions and save energy. The Hörmann programme includes vertically and horizontally opening transparent doors with flexible curtains, as well as insulated spiral doors. Thanks to standard equipment with an FU frequency converter control and safety light grille, all Hörmann high-speed doors are exceptionally long-lasting and easy to service.

Our high standards ensure you high security from the development stage through production and quality assurance up to professional fitting.



Certified safety Hörmann highspeed doors are manufactured in line with stringent European standards and are certified as



It goes without saying that spare parts for doors, operators and controls are original Hörmann parts that come with a guaranteed availability of 10 years.



### Competent advice

Experienced specialists within our customer-oriented sales organisation accompany you from the planning stage, through technical clarification up to the final building inspection. Complete working documentation is not only available in printed form but is always accessible and up-to-date at **www.hoermann.com**.



### **Efficient service**

Our extensive service network means that we are never far away. This is a major advantage in terms of inspections, maintenance and repairs.

# The fast spiral door HS 7030 PU



External door with PU insulating panels for high thermal insulation



The spiral door HS 7030 PU is characterised by an elegant Micrograin surface finish with hot-galvanized, double-skinned steel sections providing excellent thermal insulation, fast opening speeds thanks to non-contact roll-up technology and a standard safety light grille.

# Innovative technology and design

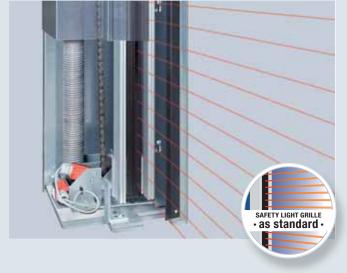
# in every detail











# Non-contact roll-up technology

The sections are guided in a spiral bracket for especially fast opening speeds and precise door travel. Thanks to non-contact roll-up technology, there is no wear on the door sections, which helps the door to keep its exclusive appearance for a long time. In addition, the standard frequency converter control takes stress off the entire door mechanism, thus extending the service life of the door.

# **Uniformly foamed steel sections**

Hot-galvanized, double-skinned sections with PU rigid foam infill provide for particularly high thermal insulation with a  $U_D$  value of 1.95 W/(m²K)\*. Doors are supplied as standard in White aluminium (RAL 9006). The exterior is characterised by the fine Micrograin lines, on the interior the sections are Stucco-textured.

# **Optional glazing**

26-mm-thick DURATEC double glazing guarantees maximum scratch resistance and excellent thermal insulation values. An aluminium rail construction in natural finish E6/EV1 divides the glazing using stabilising intermediate spacers. DURATEC triple glazing is also available on request for even better thermal insulation.

# Non-contact safety

The safety light grille integrated in the frame monitors the closing zone of the door up to a height of 2500 mm. This does away with the need for additional installations on the door (e.g. closing edge safety device, photocell). Profit from this high level of safety with a high-speed door that is exceptionally easy to fit and service.

<sup>\*</sup> For 25 m<sup>2</sup> door surface

# Spiral door HS 7030 PU

For inside and outside







# Speed with a top design

The powerful spiral door 7030 PU with foamed sections and Micrograin surface, making it the epitome of modern industrial design. The combination with the powerful 3-phase frequency converter control (FU) enables opening speeds of up to 2.5 m/sec. The sections are securely guided in the spiral bracket without contacting each other.



\*\* With the exception of pearl-effect, fluorescent and metallic colours. Dark colours should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function.

External door/internal door	HS 7030 PU	
Size range		
Max. width (LDB)	6500 mm	
Max. height (LDH)	6000 mm	

# Speed

With standard FU control AS 500 FU E

Max. opening speed 2.5 m/sec.

Max. closing speed 0.5 m/sec.

# Emergency opening/emergency closing

Hand chain with spring compensation support

# Door leaf

Material Steel sandwich construction, PU-foamed Optionally with DURATEC glazing

Depth 42 mm Section height 225 mm Hinge connections from approx. 3500 mm door width

# Resistance to wind load (EN 12424)

Class 4 ~ 130 km/h

## Acoustic insulation (EN 717-1)

R = 22 dB

### Thermal insulation (EN 13241)

For 25 m<sup>2</sup> door size  $U_D = 1.95 \text{ W/(m}^2\text{K)}$ 

## Door leaf colours\*\*

Available in over 200 colours based on RAL.

# Flexible high-speed doors

For inside and outside



Flexible high-speed doors from Hörmann have been designed for safe, efficient and lasting operation. A standard light grille does away with the need for additional installations, such as a closing edge safety device, making the door particularly easy to fit and service.



# Innovative door technology Particularly easy to fit and service as standard









SoftEdge bottom profile with integrated radio crash switch

# Non-contact safety // NEW

The standard safety light grille (IP 67) monitors the closing zone of the door up to a height of 2500 mm. A closing edge safety device is not required. Fitting in the frame also reduces the risk of collision damage. These advantages are what makes Hörmann high-speed doors especially easy to service and fit.

# Impulses for a longer service life and increased efficiency

At Hörmann, you receive all high-speed doors with a frequency converter control (FU) as standard - for fast, safe and low-wear door travel. High opening and closing speeds help you to optimise your operations and reduce heat losses and draughts at the workplace. In addition, it relieves the entire door mechanism through the smooth starting and braking action which considerably extends the service life of the door.

# No downtimes resulting from a crash thanks to the SoftEdge bottom profile

The innovative SoftEdge door technology prevents damages and resulting downtimes of the door system. Extensive repairs, such as those with rigid bottom profiles, do not become necessary. SoftEdge ensures trouble-free operation and production processes.

## Radio crash switch (patent pending) // NEW

The radio crash switch is concealed in the SoftEdge bottom profile. If the bottom profile is pushed out of the side guides by a crash, the radio crash switch transmits a signal to the control and the door is stopped immediately. Thanks to this technology, the door can be operated for up to 3 years without the need for maintenance, regardless of the number of door cycles.

# **V 2715 SEL R**

# Internal door with SoftEdge and tubular drive



# For logistics areas and supermarkets

Storage shelves often do not permit a gearbox that protrudes on the side. Here, the high-speed door V 2715 SEL R with the tubular drive integrated in the door shaft is an optimum solution.

### Fully equipped

The fast and quiet running of the door due to the standard frequency converter (FU) control, the safety light grille and the increased personal safety that results from the vertically flexible SoftEdge bottom profile with manual insertion make the door a safe internal door for areas with little space.

The shaft cover that is limited to the door width is available in a galvanized version and, on request, in a powder-coated version based on RAL.

# Fitted quickly and simply

To enable a quick fitting, the door shaft is already assembled with the tubular drive at the factory.



Flush shaft cover and side guide, gearbox does not protrude on sides.

Internal door	V 2715 SEL R	
Size range		
Max. width (LDB)	2750 mm	
Max. height (LDH)	3000 mm	

### Speed

With standard FU control BK 150 FUE H

Max. opening speed 1.5 m/sec.

Max. closing speed 0.8 m/sec.

### **Emergency opening**

Optional: automatic door opening via UPS in case of power failure (BS 150 FUE H UPS, 230 V)

### Curtain

Spring steel in curtain pockets

or aluminium profile
Fabric thickness
Vision panel thickness

1.5 mm 2.0 mm

### **Curtain colours**

RAL 1018 Zinc yellow

RAL 2004 Pure orange RAL 3002 Carmine red

RAL 5010 Gentian blue

RAL 7038 Agate grey

# **V 5015 SEL**

# Internal door with SoftEdge and anti-crash



# **Especially economical**

The inexpensive high-speed door for inside, with SoftEdge bottom profile and standard FU control for safe and gentle continual operation.

The curtain stability of the door type V 5015 SEL is achieved through proven aluminium profiles and a horizontally stable SoftEdge bottom profile at the lower edge.

### **Aluminium profiles**

In case of repair, the inexpensive curtain stabilization allows the curtain segments to be replaced quickly and easily.



Curtain stability with aluminium profiles

Internal door	V 5015 SEL
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	5000 mm

# With standard FU control BK 150 FUE H

Max. opening speed 1.5 m/sec.
Max. closing speed 0.8 m/sec.

### **Emergency opening**

Crank handle

Optional: automatic door opening via UPS in case of power failure (BS 150 FUE H UPS, 230 V) Emergency hand chain

### Curtain

With aluminium profile
Fabric thickness 1.5 mm
Vision panel thickness 2.0 mm

### **Curtain colours**

# **V 5030 SEL**

# Internal door with SoftEdge and anti-crash



# Quiet and fast

In areas with a low noise level, a door should cause little noise, too, and work quickly and reliably even with strong draughts.

This is why the V 5030 SEL door type is equipped with spring steel wind locks that provide the necessary curtain stability.

The speed of up to 3 m/sec. is achieved through the optional Hörmann AS 500 FU E control.

### Spring steel wind lock

Integrated in a curtain pocket, with lateral twin rollers, ensures quiet door travel and allows for higher wind loads.

You can also optionally obtain the V 5030 SEL with aluminium bottom profile for wind class 1 (DIN EN 12424).



Spring steel wind lock

Internal door	V 5030 SEL
Size range	
Max. width (LDB) Max. height (LDH)	5000 mm 5000 mm
Speed	
With standard FU control BK 150 FUE H	
Max. opening speed Max. closing speed	2.0 m/sec. 0.8 m/sec.
Optional control AS 500 FU E	
Max. opening speed Max. closing speed	3.0 m/sec. 0.8 m/sec.

### **Emergency opening**

Crank handle Optional: automatic door opening via UPS in case of power failure (BS 150 FUE H UPS, 230 V) Emergency hand chain

Spring steel wind lock with side rollers Fabric thickness 1.5 mm Vision panel thickness 2.0 mm

# Resistance to wind load (EN 12424)

With aluminium bottom profile Class 1 ~ 88 km/h

### **Curtain colours**

# Internal and external door with SoftEdge and anti-crash



# For highly-frequented transport routes, with crash-protection

External doors are driven into, e.g. by forklifts, more frequently than internal doors. This is where crash-protection pays off because it significantly reduces downtimes and repair costs.

And the high speeds at which the door opens and closes also save on energy costs.

### Spring steel wind lock in curtain pocket

The lateral twin rollers ensure quiet door travel and allow reliable stops. Even wind loads of up to 80 km/h do not pose problems thanks to the spring steel wind protectors.

You can also optionally obtain the V 6030 SEL with aluminium bottom profile.



Spring steel wind lock



SoftEdge bottom profile with integrated radio crash spring switch

External door	V 6030 SEL
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	6000 mm

### Speed

With standard FU control BK 150 FUE H

Max. opening speed	2.0 m/sec.
Max. closing speed	0.8 m/sec.
Optional control AS 500 FU E	
Max. opening speed	3.0 m/sec.
Max. closing speed	0.8 m/sec.

### **Emergency opening**

Crank handle

Optional: automatic door opening via UPS in case of power failure (BS 150 FUE H UPS, 230 V) Counter weights with back-up battery, Emergency hand chain

### Curtain

Spring steel wind lock with lateral twin rollers and tensioning system

Fabric thickness 1.5 mm Vision panel thickness 2.0 mm

# Resistance to wind load (EN 12424)

Class 2 ~ 100 km/h

### **Curtain colours**

# Internal and external door, transparent curtain



# Fully transparent for more light

The fully transparent high-speed door V 6020 TRL is suitable for high ingress of light as an external door but also for an improved view in internal areas.

The 4-mm-thick transparent curtain lets light into the room resulting in a pleasantly bright workplace.

If used as an external door, we recommend the heavy, partially transparent version.

### See what's coming at you

The routes of transport are made safer as a result of the free field of vision, also from far away. Fully transparent curtains are available for door sizes of up to 25 m<sup>2</sup>; from 25 m<sup>2</sup> only fabric curtains, with or without a vision field.

## Wind lock

In addition to the tensioning system fitted as standard, spring steel wind locks ensure the necessary curtain stability.



Transparent for more incidence of light and a free field of vision



Aluminium bottom profile for outside use

External door	V 6020 TRL
Size range	
Max. width (LDB)	6000 mm
Max. height (LDH)	7000 mm

### Speed

With standard FU control BK 150 FUE H (door size up to max. 3500 × 3500 mm)

Max. opening speed 1.5 m/sec.

Max. closing speed 0.5 m/sec.

Optional control AS 500 FU E

Max. opening speed 2.0 m/sec. Max. closing speed 0.5 m/sec.

### **Emergency opening**

Crank handle Optional: automatic door opening via UPS in case of power failure (BS 150 FUE H UPS, 230 V) (door size up to max.  $3500 \times 3500$  mm) Emergency hand chain

### Curtain

Fully transparent curtain thickness 4.0 mm
Fabric thickness 2.4 mm
(from 25 m² door size)

Resistance to wind load (EN 12424)

Class 2 ~ 100 km/h

# Wind lock strip colours

RAL 1018 Zinc yellow

RAL 2004 Pure orange (optional curtain colour)

RAL 3002 Carmine red

RAL 5010 Gentian blue (optional curtain colour) RAL 7038 Agate grey (optional curtain colour)

# Large door for outside use



# For oversized openings

Double lashing straps and especially wide side guides ensure safe door travel even with a high door curtain weight. The standard FU control and double closing edges on the bottom profile ensure that the closing force is maintained and provide the door with its required safety.

## Spring steel wind lock in curtain pocket

The lateral twin rollers ensure quiet door travel and allow higher wind loads. The number of wind protectors is determined by the door size, load requirements and the installation situation.



Spring steel wind lock

п		
0		
		No.

Especially wide side guide

External door	V 10008
Size range	
Max. width (LDB) Max. height (LDH)	10000 mm 6250 mm

### Speed

With standard FU control AS 500 FU E (door width up to 6000 mm)

Max. opening speed	1.5 m/sec.
Max. closing speed	0.5 m/sec.

(door width from 6000 mm)	
Max. opening speed	0.8 m/s
May closing speed	0.4 m/s

## Emergency opening Emergency hand chain

# Curtain

Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm

# Resistance to wind load (EN 12424)

(door width up to 6000 mm)	Class 3 ~ 115 km/h
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# Wind lock

Spring steel with lateral twin rollers

### **Curtain colours**

RAL 1018 Zinc yellow RAL 2004 Pure orange RAL 3002 Carmine red

RAL 5010 Gentian blue RAL 7038 Agate grey

# **High-speed doors for special applications**



# **V** 3015 RW

# Internal door with SoftEdge for rescue routes





# The internal door for rescue routes with decisive advantages

Thanks to a SoftEdge profile with anticrash system, these high-speed doors are especially safe and economical. People are better protected and damage and downtimes are avoided.

### Approved for use in rescue routes

With certified qualification, these highspeed doors can be integrated into rescue route planning.

A type-tested door must undergo an initial inspection by a specialist.

## Standard equipment

Radar detector for advanced protection in the escape direction, emergency open button.



Radar detector in escape direction as standard



Internal door	V 3015 RW
Size range	
Max. width (LDB) Max. height (LDH)	3000 mm 3000 mm

# With standard FU control BK 150 FUE H

Max. opening speed 1.5 m/sec.
Max. closing speed 0.8 m/sec.

## Anti-crash system

With re-feed on both sides

# **Emergency opening**

Counter weight with operating current brake

### Curtain

Aluminium profile
Fabric thickness 1.5 mm
Vision panel thickness 2.0 mm

## **Curtain colours**

# **ISO SPEED COLD**

# Fast, energy-saving door as a cold store and deep freeze door



# Fast, airtight and extremely efficient

Thanks to its heated panels and special seals for the building structure and floor, the ISO SPEED COLD is the optimum solution for all areas with high temperature differences. Used as a high-speed door in cold-storage areas or to save energy in production and distribution areas, the ISO SPEED COLD remains impervious.

### With thermal breaks

The steel sections in the ISO SPEED COLD have thermal breaks separating the interior from the exterior. An excellent thermal insulation value of  $U_T = 0.3 \text{ W/(m}^2\text{K})$  is attained with additional lintel and bottom seals.

## **Exceptionally airtight**

The double-skinned door leaf is foamfilled with CFC-free polyurethane (PU) rigid foam. Thus it is especially stable and attains exceptional insulation values in conjunction with the all-round sealing frame.



Heated panels

Internal door	ISO SPEED COLD	
Size range		
	Outside (cold store) Inside (freezer)	
Max. width (LDB)	5000 mm 4000 mm 5000 mm 4000 mm	

## Speed

With standard FU control AS 500 FU E Max. opening speed 2.0 m/sec. Max. closing speed 0.5 m/sec.

### **Panel**

PU foam filling 80 mm Thickness

Emergency opening Counter weight with pull cord

- 1 Panel heating in diverted doors
- 2 Thermal breaks at the section transitions

# Internal door for fresh and cold logistics



For cold and fresh foods with insulated curtain for good thermal values

The energy-saving door in internal areas for cold and fresh logistics.

A thermal insulation value of  $U_T = 1.2 \text{ W/(m}^2\text{K})$  is achieved.



Wind lock

	20 mm

20 mm thick insulated curtain

Internal door	V 4015 ISO L
Size range	
Max. width (LDB)	4000 mm
Max. height (LDH)	4500 mm

### Speed

With standard FU control BK 150 FUE H  $\,$ 

Max. opening speed 1.5 m/sec.
Max. closing speed 0.5 m/sec.

# Emergency opening

Crank handle

Optional:

Automatic door opening via UPS in case of power failure (BS 150 FUE H UPS, 230 V)

### Curtain

PE foam Thickness

ess 20 mm

Internal door for wet areas in the food industry





# Easy to clean

The side guides in this special version are easy to clean. High-pressure cleaning systems and water are not a problem for the door construction, which is made entirely of stainless steel. No counter weights or springs prevent the frame from being cleaned.

## Spray-water protected

The operator is completely enclosed in a splash-water protected operator cover made of V2A stainless steel (protection category IP 65).

The safety light grille complies with protection category IP 67.



The door is supplied with a UPVC seal and safety light grille in the frame as standard.



Easy to clean

Internal door	2515 FOOD L
Size range	
Max. width (LDB)	2500 mm
Max. height (LDH)	3000 mm

With standard FU control BS 150 FUE H V2A

Max. opening speed 2.0 m/sec. Max. closing speed 0.8 m/sec.

### **Emergency opening**

Optional:

Automatic door opening via a UPS

in case of power failure (BS 150 FUE H V2A UPS, 230 V)

# Curtain

Spring steel in curtain pockets Fabric thickness

1.5 mm Vision panel thickness 2.0 mm

### **Curtain colours**

RAL 1018 Zinc yellow

RAL 2004 Pure orange

RAL 3002 Carmine red RAL 5010 Gentian blue RAL 7038 Agate grey

# Internal door for use in supermarket





# The completely equipped door

Full equipment with operator and shaft cover, a standard light grille and automatic emergency opening via a counter weight (in case of power failure) all make this flexible plastic curtain door a reliable internal door for areas with high customer frequency.

# Anti-crash system with automatic start-up

With a durable, light curtain and an extremely flexible bottom part, the door is back in operation within seconds of a crash. This high level of flexibility does away with the need for a closing edge safety device.

# FU control

With the standard FU control BK 150 FU, the door achieves opening speeds of up to 1.2 m/sec.

### **Curtain variants**

Anti-static fabric curtain, as standard without vision field. On request with an approx. 750 mm high vision panel from 1300 mm above FFL at no surcharge.



350-mm-high light grille concealed in the door guide

Internal door	V 2012
Size range	
Max. width (LDB)	2500 mm
Max. height (LDH)	2500 mm

# With standard FU control BK 150 FU Max. opening speed 1.2 m/sec. Max. closing speed 0.5 m/sec.

### Emergency opening

Counter weight with operating current brake

Curtain	
Spring steel in curtain pockets	

1.5 mm
2.0 mm

### **Curtain colours**

# **V 1401 ATEX**

# Internal door for explosive areas



# V 1401 ATEX

The high-speed door for explosive areas. Developed, designed and certified in line with the directives: EC Explosion Protection 94/9EC and DIN EN 13453-1.

The control cabinet must always be fitted outside the Ex area.



Internal door	V 1401 ATEX
Size range	
Max. width (LDB) Max. height (LDH)	4000 mm 4000 mm
Speed	
With standard FU control BS 150 FU E	
Max. opening speed	1.4 m/sec.
Max. closing speed	0.5 m/sec.
Emergency opening	
Crank handle	
Curtain	
Aluminium profile	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Curtain colours	

# **V 3015 CLEAN**

# Internal door for clean rooms, transparent curtain



# Special curtain for pressure differences

Air purification in clean rooms can result in a pressure difference of up to 50 Pa. The fully-transparent curtain of this clean-room door is tightly integrated in the special side guides. This minimizes air loss (leakage). This enables an optimum design for ventilation systems. A stainless steel cover on the shaft and operator, and welded-on spring steel stabilisation are further characteristics of this door.



Extremely leaktight and fully transparent



Curtain tightly integrated in the side guides

Internal door	V 3015 CLEAN
Size range	
Max. width (LDB)	2500 mm
Max. height (LDH)	3000 mm

# Speed With standard FU control BS 150 FU E

Max. opening speed 1.5 m/sec.
Max. closing speed 0.5 m/sec.

### **Emergency opening**

Crank handle

Optional: automatic door opening via UPS in case of power failure (BS 150 FUE H V2A UPS, 230 V)

### Curtain

Spring steel stabilisation welded into pockets
Fully transparent curtain thickness 4.0 mm

# Wind lock strip colours

# Internal door for conveyor systems



# **Designed for continual operation**

The V 3009 is fitted between the operating sections and the storage areas within the conveyor system and is used to save energy and reduce draughts and noise. The door is designed for a high number of automated opening and closing cycles.

The door control can be integrated in existing PLC systems. A volt-free contact reports the door position (open/closed) to the control.



The door is also available with a vision panel.

Internal door	V 3009
Size range	
Max. width (LDB) Max. height (LDH)	3000 mm 3000 mm
Speed	
With standard control AK E (contactor)	
Max. opening speed Max. closing speed	0.8 m/sec. 0.8 m/sec.
With optional FU control BK 150 FUE H	
Max. opening speed Max. closing speed	1.2 m/sec. 0.5 m/sec.
Emergency opening	
Crank handle	

1.5 mm

2.0 mm

# Curtain colours

**Curtain**Aluminium profile
Fabric thickness

RAL 1018 Zinc yellow RAL 2004 Pure orange RAL 3002 Carmine red RAL 5010 Gentian blue RAL 7038 Agate grey

Vision panel thickness

# H 3530

# Fast horizontal door





# Opens quickly, crashes virtually excluded

Our quickest door for internal applications. The door leaves quickly open to the sides and immediately make the full passage height available. This guarantees fast flow of traffic and increases safety, above all for personnel traffic. Even with the high opening speed of 3 m/sec., the door is subject to minimum wear thanks to the frequency converter control which provides the door with a soft start and stop.

Further benefits: Two opening widths can be programmed for personnel and vehicles. Closing edge safety devices and photocells provide additional safety. In the event of a malfunction, the door can quickly be opened with a hand pulley or automatically during a power failure by using an operating current brake (special equipment).

# The complete operator technology is always located on the right

in a space-saving manner in 3-sided cladding and only requires minimum headroom.



The stainless-steel version fulfils the hygienic requirements of the food, chemical and pharmaceutical industries.

Internal door	H 3530
Size range	
Max. width (LDB)	3500 mm
Max. height (LDH)	3500 mm

With standard FU control BK 150 FUE H

Max. opening speed 3.0 m/sec. Max. closing speed 1.0 m/sec.

### **Emergency opening**

Springs with pull cord Optional:

Springs with operating current brake

### Curtain

Fabric thickness 1.5 mm Vision panel thickness 2.0 mm

## **Curtain colours**

RAL 1018 Zinc yellow

RAL 2004 Pure orange RAL 3002 Carmine red

RAL 5010 Gentian blue RAL 7038 Agate grey

# Intelligent operator and control technology Standard at Hörmann



# Reliable thanks to innovative equipment

Hörmann high-speed doors are up to 20 times faster than conventional industrial doors. Which is why the intelligent operator and control technology is designed for reliable continuous operation. All operators and controls are equipped with plug-in terminals to allow the control circuit boards to be easily changed (control voltage 24 V DC).

# Standard at Hörmann:

# Frequency converter control

High performance frequency converter controls (FU). FU controls feature higher speeds and relieve the complete door mechanism which, in turn, extends the service life of the door considerably.

Door cycle counter

**Operation time monitoring** 

Automatic timer (hold-open phase adjustable)

Error display/diagnosis via a fourfold 7-segment display

Service operation setting



# **FU** controls





### BK 150 FUE H FU control in plastic housing IP 54, one-phase, 230 V

### Operation

Open-Stop-Close membrane push button, fourfold 7-segment display for information on door functions

### **Function**

Automatic timer, hold-open phase adjustable up to 200 sec., safety light grille, closing edge safety device, stop reopen

# Impulse generator

Push button, pull switch, mushroom button, radar presence detector, slots for induction loop detector and Radio remote control

### Extension options

Main switch, traffic lights, flashing warning light, locking, intermediate stop, extension PCB E FU H, stainless steel cabinet IP 65

### Wiring

Connecting lead 1~230 V, N, PE, fuse 16 A, slow-acting, Plug-in connection between door operator and control cabinet CEE plug, 3-pin with 1 m cable for on-site CEE socket, 16 A

# Housing dimensions

200 × 400 × 200



### AS 500 FU E FU control in steel cabinet IP 54 3-phase, 400 V

### Operation

Open-Stop-Close membrane push button, emergency-Off button, fourfold 7-segment display for information on door functions, lockable main switch

### Function

Automatic timer, hold-open phase adjustable up to 200 sec., safety light grille, closing edge safety device, stop reopen

# Impulse generator

Push button, pull switch, mushroom button, radar presence detector, slots for induction loop detector and Radio remote control

# **Extension options**

traffic lights, flashing warning light, locking, intermediate stop, extension PCB R FU X, stainless steel cabinet IP 65

### Wiring

Connecting lead 3~400 V, N, PE, fuse 16 A, slow-acting, Plug-in connection between door operator and control cabinet

# Housing dimensions

400 × 600 × 200



### E FU H / R FU X Extension PCB for controls: BK 150 FUE H (E FU H) AS 500 FU E (R FU X)

Lock controller 4 additional switch outputs (2 × 2 volt-free) 8 additional digital inputs

# Compatible door types

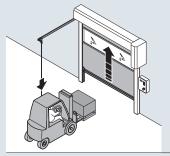
V 5015 SEL V 5030 SEL (up to 2 m/s) V 6030 SEL (up to 2 m/s) V 6020 TRL (up to 12.25 m²) V 2715 SEL R V 2012 V 4015 ISO L H 3530

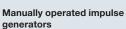
# Compatible door types

V 10008 V 5030 SEL (up to 3 m/s) V 6030 SEL (up to 3 m/s) V 6020 TRL HS 7030 PU ISO SPEED COLD

# **Accessories**

# Operating and controlling options

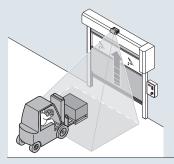






Pull switch with plastic pull cord Horizontal or vertical fitting possible, die-cast aluminium housing IP 65, cord length 4 m.

To operate an efficient door system, it is important to choose the right impulse generator. You should therefore consult your Hörmann specialist adviser.



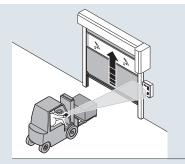
Remote controls



Comfort radar/presence detector
Radar movement and presence detection
with infrared detection.
Quick and targeted automatic door opening.
Reliable protection of the area in front of the door.
Up to max. 6 m height.
In areas with high levels of humidity and in
outside areas, only the radar function is available.
Housing: protection category IP 65

# **Accessories**

# **Operating and controlling options**



Radio remote controls



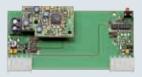
4-button hand transmitter HS 4



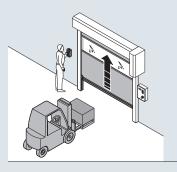
1-button hand transmitter HS 1



Hand transmitter HSI For up to 999 doors, with user-friendly operation via a large display



Receiver HER 1 (1-channel)
With volt-free relay output in
a separate housing without a
connecting lead or as a plugin circuit board in the control
cabinet.



Manually operated impulse generators



Push button 2 × "Open/Close" Plastic housing IP 65



Push button 3 × "Open/ Emergency-off/Close" Plastic housing IP 65



**Mushroom button**With large operating surface
Plastic housing IP 65



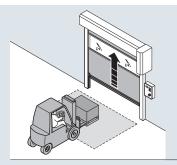
Finger-scan FL 12, FL 100 Your fingerprint is enough. The finger-scan is available in two versions, as an FL 12 or FL 100 to store 12 or 100 fingerprints, respectively.



Radio code switch FCT 10b Using a radio code switch FCT 10b, you are able to transmit up to 10 radio codes (868.3 MHz). No laying of cables required. The keypad illuminates when initially pressed.

# **Accessories**

# Operating and controlling options

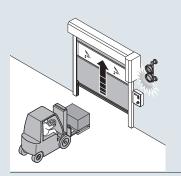


Induction loops



Induction loop detector
1 or 2-channel plug-in print.
Suitable for two separate induction loops.
Supplied without loop cable.

To operate an efficient door system, it is important to choose the right impulse generator. You should therefore consult your Hörmann specialist adviser.



Safety equipment



Warning light Ø 150 mm Red, in a plastic housing, with mounting strap, IP 65



Warning light Ø 150 mm Red, green, in a plastic housing, with fitting support, IP 65



Rotating warning light Red or yellow, in a plastic housing, IP 54



Flashing warning light Orange, in a plastic housing, IP 65



Light grille
Safety equipment 1590 mm high,
beam distance 60 mm,
transmitter and receiver, IP 65
crossed with cable box M 12,
plug-in.

# **Spiral door**

# **Technical Data**

			HS 7030 PU
Use	Internal door		•
	External door		•
Speed	Opening speed approx. m/s	sec.	1.5 - 2.5
	Closing speed approx. m/se	ec.	0.5 - 0.8
Safety equipment	DIN EN 13241.1		•
Resistance to wind load	DIN EN 12424		Class 4
Resistance to water			
penetration	DIN EN 12425		Class 3
Air permeability	DIN EN 12426		_
Transmission of heat	DIN EN 12428		1.0
Acoustic insulation	DIN EN 52210 dB		22
Shutter sizes	Max. width LDB		6500
	Max. height LDH		6000
Fitting dimensions (space	Operator side (with cladding	a)	510 (610)
requirement) (See also the	Bearing side (with cladding)		365 (415)
Technical Manual)	3 : : : ( : : : : : : 3,		,
,	Lintel (with cladding)		_
	Lintel LDH up to 5000 mm (	with cladding)	885 (970)
	Lintel LDH from 5001 to 600		920 (1005)
	Control in steel cabinet (W ×		400x600x200
Door construction	Self-supporting	2)	-
Door leaf counterbalance	Con Supporting		•
Door leaf	Double-skinned section thic	kness	42
Boor lear	Foamed door leaf	THE CO.	•
Material/surface of door leaf			
Material/Surface of Goor lear	Wet coating in RAL to choose		<del>_</del>
		•	
Glazing	Aluminium rail window, anodised aluminium E6/EV1  Double synthetic panes		•
Giazing			0
Ventiletien mille	Triple synthetic panes	panding an aiza/yaraian (min. 200/)	0
Ventilation grille		pending on size/version (min. 30%)	
Operator and control	Frequency converter	2 400 V N DE	
	Connecting voltage		3-400 V, N, PE
	Open-Stop-Close button	•	
	Main switch all-pole switch	οπ	10.4
	Fuse protection		16 A, slow-acting
	Protection category for ope	rator and control	IP 54
	Emergency-Off button		0
	Route monitoring	Safety light grille IP 67	•
		Photocell	_
		Light grille 500 mm high	<del>-</del>
	Door area monitoring	Radar presence detector	0
		Induction loop	0
	Hold-open phase in sec.		1-200
	Closing edge safety device		
	Electronic limit switch DES		•
Emergency opening	Emergency crank handle		
	Emergency hand chain		•
	Counter weight/spring		-/●
	FU control with UPS 230 V		_
Volt-free contacts			0
Impulse generator			0
Safety devices			0

StandardOptional

# Flexible high-speed doors Technical Data

			V 2715 SEL R	V 5015 SEL	V 5030 SEL
Use	Internal door		•	•	•
	External door				Wind protected optionally with aluminium
					bottom profile
Speed	FU control	Opening speed approx. m/sec.	1.5	1.5	2.0 - 3.0
		Closing speed approx. m/sec.	0.8	8.0	0.8
Safety equipment	DIN EN 13241		•	•	•
Wind load	DIN EN 12424		Class 0	Class 0	Class 0/1 with
					aluminium
NAC 11 1					bottom profile
Wind lock	May wielth LDD		0750	5000	5000
Shutter sizes	Max. width LDB		2750 3000	5000 5000	5000 5000
Eitting dimensions (anges	Max. height LDH	LDB : mm (with aladding)			
Fitting dimensions (space requirement) (See also the	Operator side Bearing side	LDB + mm (with cladding)  LDB + mm (with cladding)	- (205) - (205)	345 (375) 175 (175)	385 (425)
Technical Manual)	Lintel	LDH + mm	- (203) -	440	255 (290) 440/520¹)
•	Lilitei	LDH + mm, straight cladding	460	490	490/570 <sup>1)</sup>
		LDH + mm cladding 30° (5°)	-	630	630/710¹)
	FU control in plastic cabinet		200 × 400 × 200	200 × 400 × 200	
	FU control in steel cabinet	,	200 × 400 × 200	200 × 400 × 200	200 × 400 × 200
	TO COMMON MI CLOCK CADMICE	(stainless steel 1.4301) UPS	400 × 600 × 200	400×600×200	400 × 600 × 200
Anti-crash/crash-protection	With automatic/manual sta	,	Crash- protection	Anti-crash	Anti-crash
Door construction	Self-supporting		•	•	•
	Fabric/transparent	1.5/2.0 mm	•	•	•
	Transparent	4.0 mm	-	-	-
Curtain/door leaf tension			-	-	-
Material/surface guide	Galvanized steel		•	•	•
	Galvanized steel, coated, in	n colours based on RAL	0	0	0
	Polished stainless steel V2	A	0	0	0
Shaft/operator cover	Straight		•	0	0
	30° chamfered (5°)		-	0	0
Operator and control	FU control		•	•	•
	Connecting voltage (1-phas	se)	1-230 V, N, PE	1-230 V, N, PE	1-230 V, N, PE
	Connecting voltage (3-phase	se)	-	-	3-400 V, N, PE
	Open-Stop-Close button		•	•	•
	FU control, main switch all-	-pole switch off, 1-phase/3-phase	0/-	0/-	○/●
	Fuse protection		16 A, slow-	16 A, slow-	16 A, slow-
			acting	acting	acting
	Protection category	Operator, control	IP 54	IP 54	IP 54
			0	0	0
	Emergency-Off button	0.6.1.11.11.11.15.05			
	Route monitoring	Safety light grille IP 67	•	•	•
		Photocell	•	-	-
	Route monitoring		•	• - 0	- 0
		Photocell	•	-	- O
	Route monitoring  Door area monitoring	Photocell Light grille 500 mm high	-	-	
	Route monitoring  Door area monitoring  Hold-open phase in sec.	Photocell Light grille 500 mm high Radar presence detector Induction loop	- - -	- 0	0
	Route monitoring  Door area monitoring  Hold-open phase in sec.  Closing edge safety device	Photocell Light grille 500 mm high Radar presence detector Induction loop With energy chain	- 0	0	0
	Route monitoring  Door area monitoring  Hold-open phase in sec. Closing edge safety device Electronic limit switch DES	Photocell Light grille 500 mm high Radar presence detector Induction loop With energy chain	- - - - - - 1-200	- - - - - -	0 1-200 -
Emergency opening	Door area monitoring  Hold-open phase in sec. Closing edge safety device Electronic limit switch DES Crank handle	Photocell Light grille 500 mm high Radar presence detector Induction loop With energy chain	- - - - - 1-200	- - - - 1-200	1-200 -
Emergency opening	Route monitoring  Door area monitoring  Hold-open phase in sec.  Closing edge safety device Electronic limit switch DES  Crank handle Emergency hand chain	Photocell Light grille 500 mm high Radar presence detector Induction loop With energy chain	- - - - - 1-200 - -	- - - - - - -	0 1-200 - •
Emergency opening	Route monitoring  Door area monitoring  Hold-open phase in sec. Closing edge safety device Electronic limit switch DES Crank handle Emergency hand chain Counter weight/springs	Photocell Light grille 500 mm high Radar presence detector Induction loop With energy chain	- - - 0 1-200 - - - - -	- - - - - - - - - -	0 1-200 - • • 0
Emergency opening	Route monitoring  Door area monitoring  Hold-open phase in sec.  Closing edge safety device Electronic limit switch DES  Crank handle Emergency hand chain	Photocell Light grille 500 mm high Radar presence detector Induction loop With energy chain		- - - - - - - - - -	0 1-200 - • • 0
Emergency opening  Volt-free contacts Impulse generator	Route monitoring  Door area monitoring  Hold-open phase in sec. Closing edge safety device Electronic limit switch DES Crank handle Emergency hand chain Counter weight/springs	Photocell Light grille 500 mm high Radar presence detector Induction loop With energy chain	- - - 0 1-200 - - - - -	- - - - - - - - - -	0 1-200 - • •

<sup>•</sup> ○ 1)

Standard Optional With aluminium bottom part

# Flexible high-speed doors

# **Technical Data**

			V 6030 SEL	V 6020 TRL	V 10008
Use	Internal door		•	•	•
	External door		•	•	•
Speed	FU control	Opening speed approx. m/sec.	2.0 - 3.0	1.5 - 2.0	0.8 - 1.5
		Closing speed approx. m/sec.	0.8	0.5	0.4
Safety equipment	DIN EN 13241		•	•	•
Wind load	DIN EN 12424		Class 2	Class 2	Class 3
Wind lock			•	•	•
Shutter sizes	Max. width LDB		5000	6000	10000
	Max. height LDH		6000	7000	6500
Fitting dimensions (space	Operator side	LDB + mm (with cladding)	460 (505)	420 (470)	545 (580)
requirement) (See also the	Bearing side	LDB + mm (with cladding)	335 (355)	300 (300)	390 (390)
Technical Manual)	Lintel	LDH + mm (with curtain fixing)	540 (615)	680 (760)	- (745)
		LDH + mm, straight cladding	590	720	-
		LDH + mm cladding 30° (5°)	730	870	(840)
	FU control in plastic cabinet	(W×H×D)	200 × 400 × 200	200 × 400 × 200	-
	FU control in steel cabinet	(W×H×D)			
		(Stainless steel 1.4301)	$400\times600\times200$	$400\times600\times200$	$400\times600\times200$
Anti-crash/crash-protection	With automatic/manual sta	rt-up	Crash-	-	-
			protection		
Door construction	Self-supporting		•	•	-
	Fabric/transparent	1.5/2.0 mm	•	-	•
	Transparent	4.0 mm	_	•	-
Curtain/door leaf tension			•	•	•
Material/surface guide	Galvanized steel		•	•	•
	Galvanized steel, coated, in	n colours based on RAL	0	0	0
	Polished stainless steel V2	A	0	0	-
Shaft/operator cover	Straight		0	0	-
	30° chamfered (5°)		0	0	(0)
Operator and control	FU control		•	•	•
	Connecting voltage (1-pha	se)		1-230 V, N, PE	_
	Connecting voltage (3-phase	se)	3-400 V, N, PE	3-400 V, N, PE	3-400 V, N, PE
	Open-Stop-Close button		•	•	•
	FU control, main switch all	-pole switch off, 1-phase/3-phase	○/●	○/●	-/●
	Fuse protection		16 A, slow-	16 A, slow-	16 A, slow-
			acting	acting	acting
	Protection category	Operator, control	IP 54	IP 54	IP 54
	Emergency-Off button		0	0	0
	Route monitoring	Safety light grille IP 67	•	•	_
		Photocell	_	-	•
		Light grille	0	0	0
	Door area monitoring	Radar presence detector	0	0	0
		Induction loop	0	0	0
	Hold-open phase in sec.		1-200	1-200	1-200
	Closing edge safety device	With energy chain	-	-	•
	Electronic limit switch DES		•	•	•
Emergency opening	Crank handle		•	•	-
	Emergency hand chain		0	0	•
	Counter weight/springs		0/-	-/-	-/-
	FU control with UPS 230 V		0	0	-
Volt-free contacts			0	0	0
Impulse generator			0	0	0

StandardOptional

# **Special doors**

# Technical Data

			V 3015 RW
Jse	Internal door		•
	External door		-
peed	FU control	Opening speed approx. m/sec.	1.5
		Opening speed approx. m/sec.	0.8
afety equipment	DIN EN 13241		•
/ind load	DIN EN 12424		Class 0
/ind lock			-
hutter sizes	Max. width LDB		3000
	Max. height LDH		3000
itting dimensions (space requirement)	Operator side	LDB + mm (with cladding)	325 (355)
See also the Technical Manual)	Bearing side	LDB + mm (with cladding)	300 (300)
	Lintel	LDH + mm	440
		LDH + mm, straight cladding	490
		LDH + mm cladding 30° (5°)	670
	FU control in	3 (- /	
	plastic cabinet	$(W \times H \times D)$	_
	FU control in	$(W \times H \times D)$	300 × 400 × 150
	steel cabinet	(Stainless steel 1.4301)	
Inti-crash/crash-protection	With automatic/manual start-up	)	Anti-crash
oor construction	Self-supporting		•
Curtain/door leaf	Fabric/transparent	1.5/2.0 mm	•
	Transparent	4.0 mm	_
Curtain/door leaf tension			
Material/surface guide	Galvanized steel		•
natorial, carrace galac	Galvanized steel, coated, in co	lours based on RAI	0
	Polished stainless steel V2A	Data based on the	0
haft/operator cover	Straight		
man/operator cover	30° chamfered (5°)		0
Davatay and cantual	WU control		
perator and control	FU control		-
	Connecting voltage (1-phase)		1-230 V, N, PE
	Connecting voltage (3-phase)		
	Open-Stop-Close button		-
	FU control, main switch all-pole	●/-	
	Fuse protection		16 A, slow-acting
	Protection category	Operator, control	IP 54
	Emergency-Off button		•
	Route monitoring	Safety light grille IP 67	_
	3	Photocell	•
		Light grille 350 mm high	
	Dana anna manitanina		
	Door area monitoring	Radar presence detector	0
	Hold open phase in acc	Induction loop	1 200
	Hold-open phase in sec.	With aparay chair	1-200
	Closing edge safety device	With energy chain	With spiral cable
	Electronic limit switch DES		-
mergency opening	Crank handle		-
	Emergency hand chain		-
	Counter weight/springs		●/-
	FU control with UPS 230 V		-
olt-free contacts			-
mpulse generator			0
Safety devices			0

V 2515 FOOD L	V 2012	V 1401 ATEX	V 3015 CLEAN	V 3009	H 3530
• •	•	• ITOTALEX	• OUTS CLEAR	•	•
1.2	1.2	1.4	1.5	(AKE 0.8)	3.0
0.8	0.5	0.5	0.5	(AKE 0.8)	1.0
•	•	0.5	0.0	(AILE 0.0)	•
Class 0	Class 0				
- Class 0	- Class 0	Olass U		- Class 0	- Class 0
2500	2500	4000	2500	3000	3500
3000	2500	4000	3000	3000	3500
- (355)	- (345)	435 (475)	- (380)	310 (310)	- (355)
- (200)	- (180)	150 (150/–)	- (225)	150 (180)	- (355)
	-	660		300	-
-	400	700	-	335	370
(440)		850	(550)	480	520
_	200 × 400 × 200	_	_	200 × 400 × 200	200 × 400 × 200
300 × 400 × 150	-	600 × 600 × 200	300 × 400 × 150	-	-
V2A					
Anti-crash	•				_
•	•	•	•	•	
•	•	•		•	•
			•		-
					•
	•	•	•	•	•
	0	0	0	0	0
•	-	0	0	0	0
-	•	0	-	0	•
(●)	_	0	(●)	0	0
-	-	-	-	•	-
•	•	•	•	0	•
1-230 V, N, PE	1-230 V, N, PE				
-	-	-	-	-	-
•	•	•	•	•	•
●/-	-	●/-	0/-	0/-	0/-
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	10 A (16 A, slow- acting/FU)	16 A, slow-acting
IP 65	IP 54	IP 54	IP 54	IP 54	IP 54
0	0	0	0	0	0
•					_
_	_	•	•	•	•
	•				
0	0	0	0	0	0
0	0		0	0	
1-200	1-200	1-200	1-200	1-200	1-200
-	1-200 —	1-200	1-200	1-200	1-200
-	-		•	•	
	•	<u>-</u>	•	•	
	-		•		-
-	-		-	-	_
-	●/-	-	-	-	-
0	-		0	0	0
		_	0	0	-
0					
0 0		0	0	0	0

StandardOptional

# **Cold store and deep freeze doors**

# **Technical Data**

				V 4015 ISO L
Use	Internal door		•	•
	External door		•	-
Speed	FU control	Opening speed approx. m/sec.	2.0	1.5
		Opening speed approx. m/sec.	0.5	0.5
Safety equipment	DIN EN 13241		•	•
Wind load	DIN EN 12424		Class 3	Class 0
Wind lock			-	•
Shutter sizes	Max. width LB		5000	4000
	Max. height LDH		5000	4500
Fitting dimensions (space	Operator side	LDB + mm (with cladding)	510 (–)	325 (360)
requirement) (See also the	Bearing side	LDB + mm (with cladding/		
Technical Manual)		counter weight)	375 (-/375)	295 (325/–)
	Lintel	LDH + mm	1)	630
		LDH + mm, straight cladding	-	-
		LDH + mm cladding 30° (5°)	- (-)	- (720)
	FU control in plastic cabinet	$(W \times H \times D)$	_	200 × 400 × 200
	FU control in steel cabinet	$(W \times H \times D)$		
		(Stainless steel 1.4301)	$400\times600\times200$	400 × 600 × 200
Anti-crash/crash-protection	With automatic/manual start-up	)	-	-
Door construction	Self-supporting		•	-
Curtain/door leaf	Door leaf	80 mm, PU-foamed	•	-
	Curtain	20 mm, PE foam	_	•
Curtain/door leaf tension			_	_
Material/surface guide	Galvanized steel		•	•
	Galvanized steel, coated, in col	ours based on RAL	0	0
	Polished stainless steel V2A		0	0
Shaft/operator cover	Straight		_	_
·	30° chamfered (5°)		_	(0)
Operator and control	FU control		•	•
	Connecting voltage (1-phase)			1-230 V, N, PE
	Connecting voltage (3-phase)		3-400 V, N, PE	_
	Open-Stop-Close button		•	•
	FU control, main switch all-pole	switch off 1-phase/3-phase	_/ <b>●</b>	
	Fuse protection	switch on, 1 phase/o phase	20 A, slow-acting	16 A, slow-acting
	Protection category	Operator, control	IP 54	IP 54
	Emergency-Off button	Operator, control	0	0
	Route monitoring	Safety light grille IP 67		•
	notic monitoring	Photocell	•	
		Light grille	0	0
	Door area monitoring	Radar presence detector	0	0
		Induction loop	0	0
	Hold-open phase in sec.		1-200	1-200
	Closing edge safety device	With energy chain	•	-
	Electronic limit switch DES		•	•
Emergency opening	Crank handle		-	•
	Emergency hand chain		•	-
	Counter weight/springs		●/-	-/-
	FU control with UPS 230 V		-	0
Volt-free contacts			0	0
Impulse generator			0	0
Safety devices			0	0

<sup>•</sup> ○ 1)

Standard
Optional
Track application N: LDH + 950 mm, track application V: LDH x 2 + 800 mm

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**Sectional doors** 



Rolling shutters and rolling grilles



Steel and aluminium folding doors



**High-speed doors** 



Loading technology



Fire sliding doors



Multi-function doors and reinforced internal doors



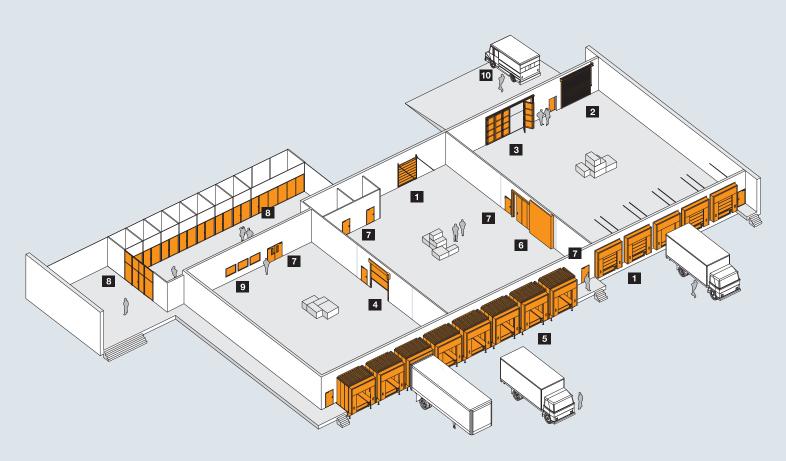
Fire and smokeprotection box frame parts



Visibility window



Service



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GARAGE DOORS

OPERATORS

INDUSTRIAL DOORS

LOADING EQUIPMENT

HINGED DOORS

DOOR FRAMES

