High-Speed Doors

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HS 5015 PU N 42 42 mm insulated with track application N (normal)
HS 5015 PU H 42 42 mm insulated with track application H (high-lift)
HS 6015 PU V 42 42 mm insulated with track application V (vertical)
HS 5015 PU H 67 67 mm insulated with track application H (high-lift)
HS 6015 PU V 67 67 mm insulated with track application V (vertical)
HS 5015 Acoustic H Acoustic-rated with track application H (high-lift)
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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.

High-speed progress
Highly-qualified technicians are constantly working on further developing and improving our products in order to meet the demands of the market. This results in economic high-speed door designs of the highest standard.
As Europe’s leading manufacturer of doors, hinged doors, frames and operators, we are committed to high product and service quality. This is how we set standards on an international scale.

Highly-specialised factories develop and manufacture construction components that are marked by excellent quality, functional safety and a long service life.

Our presence in the global economy’s key regions makes us a strong, future-oriented partner for industrial and public construction projects.

**Efficient service**

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

**Competent advice**

Experienced specialists within our customer-oriented sales organisation support 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
Hörmann has received confirmation of the sustainability of all its high-speed doors through an environmental product declaration (EPD) according to DIN ISO 14025 and EN 15804 from the Institut für Fenstertechnik (ift – Institute of window technology) in Rosenheim. The inspection was based on the Product Category Rules (PCR) “Doors and Gates”. Environmentally friendly production was confirmed by a life-cycle analysis in accordance with DIN EN 14040 / 14044 for all high-speed doors.

**Sustainably produced:**

Hörmann’s high-speed doors

**Ecological quality**

Environmentally friendly production through a comprehensive energy management system

**Economical quality**

A long service life and low maintenance costs thanks to the use of high-quality materials

**Process quality**

Sustainable production processes through optimised material use

**Sustainability verified and documented by ift Rosenheim**

Hörmann has been able to gain great expertise in sustainable construction through various projects. We also apply this know-how to support your projects. Another advantage: For every project order, the required data for LEED certification are automatically generated.

**Sustainable construction with Hörmann’s expertise**

Hörmann has been able to gain great expertise in sustainable construction through various projects. We also apply this know-how to support your projects. Another advantage: For every project order, the required data for LEED certification are automatically generated.
Simple and Sustainable Planning
With the Hörmann Architects’ Programme and energy saving compass

The Architects’ Programme
More than 9000 drawings for over 850 products
Planning with Hörmann products is now even easier thanks to a modern, user-friendly interface. Clearly structured navigation via drop-down menus and symbols, as well as a search function, provides faster access to tender specifications and drawings (in DWG and PDF format) of over 850 Hörmann products. In addition, BIM data can be provided for many products for the Building Information Modeling Process, enabling efficient planning, drafting, construction and management of buildings. Photos and photo-realistic presentations provide additional information on many products.

The energy saving compass
For sustainable planning
Hörmann’s energy saving compass shows how industrial door systems and loading technology are planned with energy-efficiency and sustainability in mind. An integrated calculation module estimates the amortisation period for door and loading systems. The energy saving compass is available as a web-based interface for PC / MAC and mobile end devices.

Plan with the energy saving compass at: www.hormann.co.uk/energysavingscompass

The Architects’ Programme is available to you as a web version at www.hormann.co.uk/forums/architects-forum/architects-program or can be downloaded free-of-charge from the Hörmann Architects’ Forum.
Spiral Doors and High-Speed Sectional Doors
With insulating sections for a high thermal insulation
Optimised processes

The high opening and closing speeds of spiral and high-speed sectional doors optimise work processes and significantly accelerate logistics processes. Depending on the version, the galvanized, double-skinned sections are guided into a spiral or into tracks.

Excellent thermal insulation

The sturdy steel sections of the doors have thermal breaks and are PU-foamed. As a result you benefit from excellent thermal values of up to 0.64 W/(m²·K) and minimise energy loss. For the special requirements in cold and refrigeration logistics, high-speed doors with 100 mm-thick sections are the first choice.

Reliable security

High speeds require special safety precautions. The solution: a standard light grille that is protected inside the side elements of the door. The door’s closing zone is monitored here without any contact – and up to a height of 2500 mm.
Good Reasons to Try Hörmann
Quality features of spiral doors and high-speed sectional doors

Non-contact safety
Safety light grilles integrated into the side assemblies monitor the closing zone of the door leaf up to a height of 2500 mm. The safety light grilles ensure compliance with safety requirements according to DIN EN 13241-1. This does away with the need for additional installations on the door (e.g. closing edge safety device or photocell). Profit from this high level of safety with a high-speed door that is exceptionally easy to fit and service. It pays to compare!

Long service life and high efficiency as standard
The frequency converter control takes stress off the entire door mechanism, guaranteeing nearly wear-free, quiet door travel. High opening and closing speeds optimise your operations and reduce heat loss. In addition, they relieve the entire door mechanism through the smooth starting and braking action which considerably extends the service life of the door. For heavy, insulated doors the door travel is supported by springs, and for high-speed sectional doors with H and V track applications by wear-free counter weights.
Glazing beads facilitate the exchange of individual panes

3 Efficient thermal insulation

Uniformly foamed steel sections
The galvanized, double-skinned sections with PU rigid foam infill offer an especially high level of thermal insulation. The 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.

Increased thermal insulation thanks to ThermoFrame
Well-insulated high-speed doors are essential in heated halls. The ThermoFrame separates the side element from the building structure. The thermal break along with additional seals improves thermal insulation by up to 15 % and is easy and quick to fit. The ThermoFrame can be optionally ordered for doors with 42 mm and 67 mm thick sections. It is already included in the scope of delivery for Iso Speed Cold 100 doors.

4 A permanently clear view

Optional glazing
Duratec glazing guarantees maximum scratch resistance despite heavy use in rough industrial environments. The special surface coating protects the pane from scratches and damage caused by cleaning.
For 67 mm insulated doors, you receive the aluminium glazing frame with thermal break with triple glazings. We deliver 42 mm insulated doors with double glazing.

The glazing beads on the inside allow defective panes to be exchanged easily and quickly.
Spiral Doors and High-Speed Sectional Doors
With insulating sections for a high thermal insulation

Quick and well-insulated
The high opening and closing speeds reduce heat losses.

The space-saving track application N (normal)
For tight spaces in the lintel area, we recommend track application N.
The adjustable H (high-lift) and V (vertical) track applications
These allow the door to be fitted behind or above supply lines, for example. Door travel is supported by low-wear counter weights.

For cold store and deep freeze areas
The 100 mm thick sections of the Iso Speed Cold 100 reliably separate areas with high temperature differences.
Spiral Doors and High-Speed Sectional Doors
Section with thermal break and high thermal insulation

42 mm steel sandwich section with thermal break
The 42 mm thick PU foamed steel sections are particularly robust and offer excellent thermal insulation which can be further improved with an optional ThermoFrame.

67 mm steel sandwich section with thermal break
For higher thermal insulation requirements we recommend the 67 mm thick sections with a thermal insulation value of up to 0.64 W/(m²·K). The optional ThermoFrame also improves the thermal insulation for this version by up to 15 % (for 25 m² door surface).

100 mm steel sandwich section with thermal break
This door version is the optimal door for the cold store and deep freeze areas and is delivered with ThermoFrame as standard. For use in deep freeze areas, the side elements, operator, control, sealing frame and base plates are delivered heated.

Acoustic sections
For the special requirements of acoustic insulation, the HS 5015 Acoustic H high-speed doors are equipped with aluminium hollow profiles. The hollow profiles are filled with 5 mm UPVC and 30 mm PU foam.

Surface finishes and colours
The 42 and 67 mm thick sections are delivered with elegant Micrograin surface on the exterior and Stucco surface on the interior – exterior and interior are White aluminium based on RAL 9006 as standard. The 100 mm thick sections come Stucco-textured on the interior and exterior in standard Grey white based on RAL 9002.

Optionally, we supply all door leaves in over 200 colours based on RAL.
### Features

#### Door leaf

<table>
<thead>
<tr>
<th>Construction</th>
<th>Steel sandwich construction, PU-foamed</th>
<th>Steel sandwich construction, PU-foamed</th>
<th>Steel sandwich construction, PU-foamed</th>
<th>Aluminium hollow profile, 5 mm UPVC / 30 mm PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth (mm)</td>
<td>42</td>
<td>67</td>
<td>100</td>
<td>42</td>
</tr>
<tr>
<td>Section height (mm)</td>
<td>250</td>
<td>375</td>
<td>500</td>
<td>225</td>
</tr>
<tr>
<td>Exterior / interior surface</td>
<td>Micrograin / Stucco</td>
<td>Micrograin / Stucco</td>
<td>Stucco</td>
<td>smooth</td>
</tr>
<tr>
<td>Standard colour</td>
<td>RAL 9006</td>
<td>RAL 9006</td>
<td>RAL 9002</td>
<td>C0 anodised</td>
</tr>
<tr>
<td>ThermoFrame</td>
<td>×</td>
<td>×</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>Duratec glazing, double</td>
<td>○</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Duratec glazing, triple</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Speed with standard FU control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. opening (m/s)</td>
<td>1.5 – 2.5</td>
<td>1.5 – 2.5</td>
<td>1.5 – 2.0</td>
<td>1.5 – 2.5</td>
</tr>
<tr>
<td>Closing approx. (m/s)</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

#### Resistance to wind load (EN 12424)

| Door width ≤ 5000 mm       | Class 5                               | Class 5                               | Class 5                               | Class 4                                       |
| Door width > 5000 mm ≤ 6000 mm | Class 4                               | Class 4                               | Class 2                               |                                                |
| Door width > 6000 mm       | Class 2                               | Class 2                               | Class 2                               |                                                |

#### Resistance to water penetration (EN 12425)

<table>
<thead>
<tr>
<th></th>
<th>Class 1</th>
<th>Class 3</th>
</tr>
</thead>
</table>

#### Air permeability (EN 12426)

<table>
<thead>
<tr>
<th></th>
<th>Class 2</th>
<th>Class 3</th>
</tr>
</thead>
</table>

#### Acoustic insulation (EN 717-1, EN ISO 10140-1, EN ISO 10140-2) without glazing

| R = dB                                                                    | 26                                           | 26                                           | 26                                           | 31                                           |

#### Thermal insulation (EN 13241-1, ISO 12567-1) door size 4000 x 4000 mm, without glazing with ThermoFrame

| U-value in W/(m²·K) | 1.04 | 0.64 | 0.57 |

#### Emergency opening / emergency closing

| Emergency hand chain | ●     | ●     | ●     | ●     |
| Automatic door opening via UPS in case of power failure (up to approx. 9 m² door surface) | ○     | –     | –     | –     |

● = Standard  ○ = Optional  All colours are based on RAL.
Spiral Doors and High-Speed Sectional Doors
Individual track application versions for every fitting situation

The compact spiral track application
The sections are securely guided into a spiral bracket without any contact. With the high-performance frequency converter control (FU) and the chain mechanism with spring compensation, the door reaches an opening speed of up to 2.5 m/s. The spiral door HS 7030 PU 42 can also be fitted externally.

The space-saving track application N
We recommend this track application for tight spaces in the lintel area. A chain mechanism with spring compensation runs the sections into horizontal tracks. This requires a low headroom of 480 mm.

The adjustable track application H
The sections are guided into horizontal tracks and can be diverted depending on the fitting situation. Thus, the door can be fitted behind or above supply lines and crane tracks. Thanks to the belt mechanism with counter weights, the door is especially low-wear and long-lasting thanks to the belt mechanism.

The wear-free track application V
The sections run vertically along the hall wall. That is why the door movements are very quiet and wear-free. That is why the door movements are very quiet and wear-free. The belt mechanism with counter weights guarantees a long service life with constant use.
### Features

<table>
<thead>
<tr>
<th>Track application</th>
<th>Spiral track application</th>
<th>Track application N (normal)</th>
<th>Track application H (high-lift)</th>
<th>Track application V (vertical)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Counterbalance</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chain mechanism and springs</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Belt mechanism and counter weights</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 42 mm steel sandwich section, PU-foamed, with thermal break

<table>
<thead>
<tr>
<th>Door type</th>
<th>HS 7030 PU 42</th>
<th>HS 5015 PU N 42</th>
<th>HS 5015 PU H 42</th>
<th>HS 6015 PU V 42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. width (mm)</td>
<td>6500</td>
<td>5000</td>
<td>5000</td>
<td>6500</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>6500</td>
<td>6500</td>
<td>6500</td>
<td>6500</td>
</tr>
<tr>
<td>Min. required headroom (mm)</td>
<td>920</td>
<td>480</td>
<td>750</td>
<td>LDH + 585</td>
</tr>
</tbody>
</table>

#### 67 mm steel sandwich section, PU-foamed, with thermal break

<table>
<thead>
<tr>
<th>Door type</th>
<th>HS 5015 PU H 67</th>
<th>HS 6015 PU V 67</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. width (mm)</td>
<td>5000</td>
<td>6500</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>6500</td>
<td>6500</td>
</tr>
<tr>
<td>Min. required headroom (mm)</td>
<td>950</td>
<td>LDH + 735</td>
</tr>
</tbody>
</table>

#### 100 mm steel sandwich section, PU-foamed, with thermal break

<table>
<thead>
<tr>
<th>Door type</th>
<th>Iso Speed Cold H 100</th>
<th>Iso Speed Cold V 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range (deviating temperatures on request)</td>
<td>Fitting side to 0°C</td>
<td>Fitting side ~28°C</td>
</tr>
<tr>
<td>Opposite side ~28°C</td>
<td>Opposite side ~28°C</td>
<td></td>
</tr>
<tr>
<td>Max. width (mm)</td>
<td>5000</td>
<td>5000</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>5000</td>
<td>5000</td>
</tr>
<tr>
<td>Min. required headroom (mm)</td>
<td>750</td>
<td>LDH + 585</td>
</tr>
</tbody>
</table>

#### 42 mm aluminium hollow profile, filled with 5 mm UPVC and 30 mm PU foam

<table>
<thead>
<tr>
<th>Door type</th>
<th>HS 5015 Acoustic H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. width (mm)</td>
<td>5000</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>5000</td>
</tr>
<tr>
<td>Min. required headroom (mm)</td>
<td>1000</td>
</tr>
</tbody>
</table>

● = Standard  ○ = Optional  LDH = clear passage height
Flexible High-Speed Doors
Internal and External Doors
Benefits

Flexible high-speed doors speed up workflows and reduce energy costs. They feature safe door operation and a long service life thanks to standard equipment with an FU control, safety light grille and SoftEdge bottom profile. In fact, they offer even more benefits: flexible high-speed doors are low-maintenance, easy to fit, cost-efficient and therefore economical for daily use.

Solution for interior use

Thanks to the high opening and closing speeds, heat losses on the door as well as draughts at the workplace are noticeably reduced resulting in less work absences due to illness.

Solution for external use

Flexible high-speed doors help you effectively reduce your energy losses even for external door openings, as well as draughts on the doors. External doors can withstand even high wind loads without any problems.

Individual solutions

Various demands require individual door solutions. Based on our expert know-how, we develop customer-specific solutions for special application areas such as conveyor systems, the food industry, clean rooms, cooling zones or for machine safety.
Good Reasons to Try Hörmann
Quality features of the flexible high-speed doors

Safety as standard

Non-contact safety
Safety light grilles integrated into the side assemblies monitor the closing zone of the door leaf up to a height of 2500 mm. The safety light grilles ensure compliance with safety requirements according to DIN EN 13241-1. This does away with the need for additional installations on the door (e.g. closing edge safety device or photocell). Profit from this high level of safety with a high-speed door that is exceptionally easy to fit and service. It pays to compare!

Optimised operations

Long service life and high efficiency as standard
The frequency converter control takes stress off the entire door mechanism, guaranteeing nearly wear-free, quiet door travel. High opening and closing speeds optimise your operations and reduce heat losses. In addition, it relieves the entire door mechanism through the smooth starting and braking action. As a result, the service life of your door is considerably increased.
Innovative gate technology
Particularly easy to fit and service as standard

No downtimes resulting from a crash thanks to the SoftEdge bottom profile
The innovative SoftEdge door technology prevents damage and resulting downtimes of the door system. Extensive repairs, such as those with rigid door profiles, usually do not become necessary. SoftEdge ensures trouble-free operation and production processes.

Radio crash switch
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, fulfilling the requirements of DIN EN 13241-1. It pays to compare!

Take a look at the video at: www.hormann.co.uk/videos
Flexible High-Speed Doors
Internal door V 4015 SEL Alu-R with innovative tubular drive and aluminium side elements

Door type V 4015 SEL Alu-R
Thanks to its powerful, innovative tubular drive, the compact high speed door is ideal for fitting situations in tight spaces. In addition, the standard light grille and the SoftEdge profile make it safe and economical.
Easy to fit and service
The standard shaft cover is divided and can be easily opened in the lintel area even with limited space. The connection cables for the control are guided out of the frame via a variable output (top or side).

Compact design
The elegant, narrow aluminium side elements only require a low sideroom of 145 mm. The door curtain is particularly well sealed thanks to the very small gap dimension and lip seals.
Flexible High-Speed Doors
Internal door V 4015 SEL Alu-R with innovative tubular drive and aluminium side elements

Door type V 4015 SEL Alu-R
Thanks to the anodised aluminium surface finish of the side elements and top plates, the standard shaft cover in White aluminium RAL 9006, the integrated wiring and few visible screw fittings, the door is very elegant and can also be used in areas with customer traffic. The door is equipped with a light grille and SoftEdge profile for a high level of security and cost-effectiveness. The light grille stops the door immediately if a person or vehicle is in the door opening.

Downtime due to damage to the door system is prevented thanks to the flexible SoftEdge profile. You can also optionally obtain the V 4015 SEL Alu-R with aluminium bottom profile for wind class 1 (DIN EN 12424).

The small gap dimension of the side elements and the lip seals also ensure very good door sealing. The high-speed door is particularly suitable for narrow fitting situations in high frequency areas thanks to the narrow side elements and the powerful tubular drive.

If the control has to be fitted in the top section due to space limitations, an optional control element can be elegantly integrated into the side frame. The control element allows for the operation of all control functions such as opening and closing as well as service settings.

Stable curtain
Thanks to stabilising spring steel wind lock

High tightness
Due to a small frame gap dimension and lip seals

Convenient operation
The optional control element (80 × 120 mm) can be integrated in the side frame at a height of 1300 mm.

Powerful
With tubular drive for up to 700000 door cycles in high use areas.
### Features

<table>
<thead>
<tr>
<th>Door type</th>
<th>V 4015 SEL Alu-R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable application</td>
<td>Interior</td>
</tr>
</tbody>
</table>

**Size range**

- Max. width (mm): 4000
- Max. height (mm): 4000

**Speed with control**

- BK 150 FU E-1
  - Max. opening (m/s): 1.5
  - Closing approx. (m/s): 0.8

**Curtain**

- UPVC, with spring steel wind locks and lateral twin rollers
- Temperature range: +5°C to +40°C
- Fabric thickness (mm): 1.5
- Vision panel thickness (mm): 2.0

**Curtain colours**

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

**Emergency opening**

- Automatic door opening via UPS in case of power failure

● = Standard  ○ = Optional

All colours are based on RAL

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### Curtain colours

- **RAL 1018 Zinc yellow**
- **RAL 2004 Pure orange**
- **RAL 3002 Carmine red**
- **RAL 5010 Gentian blue**
- **RAL 7038 Agate grey**
Flexible High-Speed Doors
Internal doors with SoftEdge and anti-crash

Door type V 5030 SEL
The spring steel wind locks increase the curtain stability and withstand stronger draughts. (Figure shows a door with an optional aluminium bottom profile for wind class 1)
**Door type V 5015 SEL**

From a height of 3000 mm, you can optionally receive the door with two vision panels for better visual contact during forklift traffic and thus greater safety.

**Door type V 5015 SEL**

The proven door for draught-free areas: the aluminium profiles allow the curtain segments to be quickly and inexpensively replaced in case of repair. Insect screen instead of the vision panel also available on request.
Flexible High-Speed Doors
Internal doors with SoftEdge and anti-crash

Door type V 5015 SEL
The inexpensive internal door for areas without draught comes with safety functions such as SoftEdge and light grilles as standard. The aluminium wind lock also makes the door particularly service-friendly, since curtain segments can be quickly replaced if repairs are necessary. For an improved view the curtain is also available with two transparent curtain sections.

Door type V 5030 SEL
Draughts always pose a particular challenge for doors. With the robust wind locks made of spring steel, the V 5030 SEL remains stable under small pull and wind loads. You can also optionally obtain the V 5030 SEL with aluminium bottom profile for wind class 1 (DIN EN 12424).
### Features

<table>
<thead>
<tr>
<th>Door type</th>
<th>V 5015 SEL</th>
<th>V 5030 SEL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suitable application</strong></td>
<td>Interior</td>
<td>Interior</td>
</tr>
<tr>
<td><strong>Size range</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. width (mm)</td>
<td>5000</td>
<td>5000</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>5000</td>
<td>5000</td>
</tr>
<tr>
<td><strong>Speed with control</strong></td>
<td>BK 150 FU E-1</td>
<td>BK 150 FU E-1</td>
</tr>
<tr>
<td>Max. opening (m/s)</td>
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<td>2,0</td>
</tr>
<tr>
<td>Closing approx. (m/s)</td>
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</tbody>
</table>

**Curtain**

<table>
<thead>
<tr>
<th></th>
<th>UPVC, aluminium profiles</th>
<th>UPVC, spring steel wind locks with lateral twin rollers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature range</strong></td>
<td>+5°C to +40°C</td>
<td>+5°C to +40°C</td>
</tr>
<tr>
<td><strong>Fabric thickness (mm)</strong></td>
<td>1,5</td>
<td>1,5</td>
</tr>
<tr>
<td><strong>Vision panel thickness (mm)</strong></td>
<td>2,0</td>
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<tr>
<td><strong>Fly protection curtain</strong></td>
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</table>

**Curtain colours**

<table>
<thead>
<tr>
<th>RAL code</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1018</td>
<td>Zinc yellow</td>
</tr>
<tr>
<td>2004</td>
<td>Pure orange</td>
</tr>
<tr>
<td>3002</td>
<td>Carmine red</td>
</tr>
<tr>
<td>5010</td>
<td>Gentian blue</td>
</tr>
<tr>
<td>7038</td>
<td>Agate grey</td>
</tr>
</tbody>
</table>

**Emergency opening**

<table>
<thead>
<tr>
<th></th>
<th>●</th>
<th>○</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency crank handle</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Emergency hand chain</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Automatic door opening via UPS in case of power failure</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

● = Standard  ○ = Optional  All colours are based on RAL.
Flexible High-Speed Doors
Internal and External Doors

Door type V 6030 SEL
The particularly robust SoftEdge profile is specifically designed for outside use.
Door type V 6020 TRL
The 4 mm thick, transparent door curtain allows light to pass through and protects against surprises during transport.

Door type V 10008
The V 10008 was specifically developed for large openings and high wind loads of up to 100 km/h.
Door type V 6030 SEL
When the SoftEdge door is used outside, collision damage in everyday work generally does not have any serious effects. Pull and wind loads do not pose problems thanks to the spring steel wind lock. You can also optionally obtain the V 6030 SEL with aluminium bottom profile.

Door type V 6020 TRL
The 4 mm thick, transparent door curtain allows light to pass through and protects against surprises during transport. Optionally, a version with coloured fabric material with or without vision field is available. The coloured fabric curtain is available for door sizes from 25 m².

Door type V 10008
The external door was specifically developed for large openings and high wind loads. Double lashing straps, lateral twin rollers and especially wide side guides ensure safe door travel even with a high door curtain weight. The spring steel wind locks also allow for wind loads of up to 100 km/h.
## Features

### Door type

<table>
<thead>
<tr>
<th>V 6030 SEL</th>
<th>V 6020 TRL</th>
<th>V 10008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable application</td>
<td>Interior / exterior</td>
<td>Interior / exterior</td>
</tr>
<tr>
<td>Size range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. width (mm)</td>
<td>5000</td>
<td>6000</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>6000</td>
<td>7000</td>
</tr>
<tr>
<td>Speed with control</td>
<td>BK 150 FU E-1</td>
<td>BK 150 FU E-1</td>
</tr>
<tr>
<td>Max. opening (m/s)</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Closing approx. (m/s)</td>
<td>0.8</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### Resistance to wind load (EN 12424)

| Door width ≤ 4000 mm | Class 2 | Class 2 | Class 4 |
| Door width > 4000 mm ≤ 5000 mm | Class 2 | Class 2 | Class 3 |
| Door width > 5000 mm | Class 2 | Class 2 |

### Curtain

| Temperature range (deviating temperatures on request) | +5°C to +40°C | +5°C to +40°C | +5°C to +40°C |
| Fabric thickness (mm) | 1.5 | 2.4 | 1.5 |
| Vision panel thickness (mm) | 2.0 | 4.0 | 2.0 |
| Fully transparent curtain (mm) | – | 4.0 |
| Fly protection curtain | – | – |

### Curtain colours

| RAL 1018 Zinc yellow | ● | W |
| RAL 2004 Pure orange | ● | W/G |
| RAL 3002 Carmine red | ● | W |
| RAL 5010 Gentian blue | ● | W/G |
| RAL 7038 Agate grey | ● | W/G |

### Emergency opening

| Emergency crank handle | ● | ● | – |
| Emergency hand chain | ○ | ○ | ● |
| Automatic door opening via UPS in case of power failure | ○ | ○ | – |

● = Standard  ○ = Optional  
W = Wind lock strips  G = Optional fabric colour  
All colours are based on RAL.

1) Up to 95 kg  2) From 95 kg  3) From 6000 mm door width

---

### Curtain colours

<table>
<thead>
<tr>
<th>RAL 1018 Zinc yellow</th>
<th>RAL 2004 Pure orange</th>
<th>RAL 3002 Carmine red</th>
<th>RAL 5010 Gentian blue</th>
<th>RAL 7038 Agate grey</th>
</tr>
</thead>
</table>
Flexible High-Speed Doors
Internal Doors for Special Applications

Door type V 4015 Iso L for cold and fresh logistics
The energy-efficient internal door is the ideal choice for refrigerated warehouses up to 1°C. (Door shown with on-site protection frame)

Door type V 2012 for supermarkets
The fully equipped door was especially developed as a safe internal door in commercial enterprises with high customer frequency. The door curtain is also available with custom printing.
Door type V 2515 Food L for the food industry
Thanks to a construction made entirely of stainless steel, the door can be very easily cleaned with high-pressure cleaners and water.

Door type V 3015 Clean for clean rooms
The door for clean rooms with pressure differences combines a high degree of tightness with complete transparency.
Flexible High-Speed Doors  
Internal Doors for Special Applications

**Door type V 4015 Iso L**

The door with energy-efficient insulated curtain in internal areas for cold and fresh logistics (up to +5°C). The optional ThermoFrame separates the frame from the building structure, thus improving thermal insulation by up to 15%.

**Door type V 2515 Food L**

This door has been specifically designed for the food industry and features side guides that are particularly 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 complicate the cleaning of the frame.

**Door type V 2012**

Full equipment with operator and shaft cover, standard light grille (monitoring height 350 mm) and automatic emergency opening via a counter weight (in case of power failure) make this flexible plastic curtain door a safe choice for indoor areas with a high customer frequency.

**Door type V 3015 Clean**

Air purification in clean rooms can result in a pressure difference of up to 50 Pa. The fully transparent curtain of the V 3015 Clean is tightly integrated in the special side guides. This minimizes air loss (leakage) and enables an optimum design for ventilation systems. A stainless steel cover on the shaft and operator, and welded-on spring steel stabilisation ensure easy cleaning of the frames.
## Features

<table>
<thead>
<tr>
<th>Door type</th>
<th>V 4015 Iso L</th>
<th>V 2515 Food L</th>
<th>V 2012</th>
<th>V 3015 Clean</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suitable application</strong></td>
<td>Interior</td>
<td>Interior</td>
<td>Interior</td>
<td>Interior</td>
</tr>
<tr>
<td><strong>Size range</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. width (mm)</td>
<td>4000</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>4500</td>
<td>4000</td>
<td>2500</td>
<td>3000</td>
</tr>
<tr>
<td><strong>Speed with control</strong></td>
<td>BK 150 FU E-1</td>
<td>BS 150 FU E-1</td>
<td>BK 150 FU E-1</td>
<td>BS 150 FU E-1</td>
</tr>
<tr>
<td>Max. opening (m/s)</td>
<td>1,5</td>
<td>1,2</td>
<td>1,2</td>
<td>1,5</td>
</tr>
<tr>
<td>Closing approx. (m/s)</td>
<td>0,5</td>
<td>0,5</td>
<td>0,5</td>
<td>0,5</td>
</tr>
<tr>
<td><strong>Thermal insulation</strong> (EN 13241-1, ISO 12567-1)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>U-value in W/(m²·K)</td>
<td>1,6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Curtain</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulating curtain, with a 20 mm thick PE foam infill</td>
<td>UPVC, spring steel wind locks</td>
<td>UPVC, spring steel wind locks</td>
<td>UPVC, spring steel wind locks with lateral twin rollers</td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>+1°C to +40°C</td>
<td>+5°C to +40°C</td>
<td>+5°C to +40°C</td>
<td>+5°C to +40°C</td>
</tr>
<tr>
<td>Fabric thickness (mm)</td>
<td>1,5</td>
<td>1,5</td>
<td>2,0</td>
<td>2,0</td>
</tr>
<tr>
<td>Vision panel thickness (mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fully transparent curtain (mm)</td>
<td>4,0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Curtain colours / wind lock strip colours</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 1018 Zinc yellow</td>
<td>–</td>
<td>●</td>
<td>●</td>
<td>W</td>
</tr>
<tr>
<td>RAL 2004 Pure orange</td>
<td>–</td>
<td>●</td>
<td>●</td>
<td>W</td>
</tr>
<tr>
<td>RAL 3002 Carmine red</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>W</td>
</tr>
<tr>
<td>RAL 5010 Gentian blue</td>
<td>–</td>
<td>●</td>
<td>●</td>
<td>W</td>
</tr>
<tr>
<td>RAL 7038 Agate grey</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>W</td>
</tr>
<tr>
<td>ThermoFrame</td>
<td>○</td>
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<td>–</td>
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<tr>
<td><strong>Emergency opening</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency crank handle</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>●</td>
</tr>
<tr>
<td>Counter weight with operating current brake</td>
<td>–</td>
<td>–</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>Automatic door opening via UPS in case of power failure</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>○</td>
</tr>
</tbody>
</table>

● = Standard  ○ = Optional  W = Wind lock strips

All colours are based on RAL.

### Curtain colours

- **RAL 1018 Zinc yellow**
- **RAL 2004 Pure orange**
- **RAL 3002 Carmine red**
- **RAL 5010 Gentian blue**
- **RAL 7038 Agate grey**
Door type V 3009 Conveyor
The V 3009 Conveyor 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.
Door type V 5030 MSL
The flexible high-speed door with machine protection function protects operating personnel thanks to a monitored complete partitioning of the machine and provides fast access when needed.

Door type V 6030 Atex NEW
The high-speed door is equipped with ATEX labelling in accordance with Directive 2014/34/EC for gas and dust zones.
Door type V 5030 MSL
The requirements for work safety and production processes are constantly increasing. Short downtimes, easy and quick access for operation and maintenance of the production machines and of course the safety of the employees are all important for smooth production. The V 5030 MSL was developed specifically for this application.

Door type V 3009 Conveyor
Due to the low lateral space requirements, this door is specifically designed for integration in conveyor systems and their frequent 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.

Door type V 6030 Atex // NEW
This special door version with explosion-proof operator incl. closing edge safety device and a unique door curtain can be used in gas and dust zones, in accordance with Directive 2014/34/EU. The door is equipped with the following ATEX labelling in accordance with the 2014/34/EU directive:

- Ex II 2G Ex h IIB T4 Gb for the gas zone
- EX II 2D Ex h IIIB T125°C Db for the dust zone

Thanks to the safety sensors the door can open only when the machine is idle and the machine can be operated only when the door is closed.

The control cabinet must always be fitted outside the potentially explosive area.
### Features

<table>
<thead>
<tr>
<th>Door type</th>
<th>V 5030 MSL</th>
<th>V 3009 Conveyor</th>
<th>V 6030 Atex NEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable application</td>
<td>Interior</td>
<td>Interior</td>
<td>Exterior / interior</td>
</tr>
<tr>
<td>Size range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. width (mm)</td>
<td>4000</td>
<td>3500</td>
<td>4000</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>4000</td>
<td>3500</td>
<td>4000</td>
</tr>
<tr>
<td>Speed with control</td>
<td>BK 150 FU E-1 1)</td>
<td>AKE (BK 150 FU E-1) 2)</td>
<td>BS 150 FU E-1</td>
</tr>
<tr>
<td>Max. opening (m/s)</td>
<td>1,5</td>
<td>0.8 (1.2)</td>
<td>1.5</td>
</tr>
<tr>
<td>Closing approx. (m/s)</td>
<td>0.8</td>
<td>0.8 (0.5)</td>
<td>0.5</td>
</tr>
<tr>
<td>Resistance to wind load (EN 12424)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door width ≤ 4000 mm</td>
<td>Class 1</td>
<td></td>
<td>Class 2</td>
</tr>
<tr>
<td>Curtain</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPVC, spring steel wind locks</td>
<td>+5°C to +40°C</td>
<td>+5°C to +40°C</td>
<td>+5°C to +40°C</td>
</tr>
<tr>
<td>Temperature range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPVC, aluminium wind reinforcement laths</td>
<td>+5°C to +40°C</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Fabric thickness (mm)</td>
<td>2.4</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Vision panel thickness (mm)</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Fully transparent curtain (mm)</td>
<td>4.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curtains colours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 1018 Zinc yellow</td>
<td>W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 2004 Pure orange</td>
<td>W / G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 3002 Carmine red</td>
<td>W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 5010 Gentian blue</td>
<td>W / G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 7038 Agate grey</td>
<td>W / G</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Curtain colours

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

1 Up to 95 kg  
2) From 95 kg  
3) Optional

---

**Features**

Door type

<table>
<thead>
<tr>
<th>Door type</th>
<th>V 5030 MSL</th>
<th>V 3009 Conveyor</th>
<th>V 6030 Atex NEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable application</td>
<td>Interior</td>
<td>Interior</td>
<td>Exterior / interior</td>
</tr>
<tr>
<td>Size range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. width (mm)</td>
<td>4000</td>
<td>3500</td>
<td>4000</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>4000</td>
<td>3500</td>
<td>4000</td>
</tr>
<tr>
<td>Speed with control</td>
<td>BK 150 FU E-1 1)</td>
<td>AKE (BK 150 FU E-1) 2)</td>
<td>BS 150 FU E-1</td>
</tr>
<tr>
<td>Max. opening (m/s)</td>
<td>1,5</td>
<td>0.8 (1.2)</td>
<td>1.5</td>
</tr>
<tr>
<td>Closing approx. (m/s)</td>
<td>0.8</td>
<td>0.8 (0.5)</td>
<td>0.5</td>
</tr>
<tr>
<td>Resistance to wind load (EN 12424)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door width ≤ 4000 mm</td>
<td>Class 1</td>
<td></td>
<td>Class 2</td>
</tr>
<tr>
<td>Curtain</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPVC, spring steel wind locks</td>
<td>+5°C to +40°C</td>
<td>+5°C to +40°C</td>
<td>+5°C to +40°C</td>
</tr>
<tr>
<td>Temperature range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPVC, aluminium wind reinforcement laths</td>
<td>+5°C to +40°C</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Fabric thickness (mm)</td>
<td>2.4</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Vision panel thickness (mm)</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Fully transparent curtain (mm)</td>
<td>4.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curtains colours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 1018 Zinc yellow</td>
<td>W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 2004 Pure orange</td>
<td>W / G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 3002 Carmine red</td>
<td>W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 5010 Gentian blue</td>
<td>W / G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAL 7038 Agate grey</td>
<td>W / G</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Curtain colours**

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

1 Up to 95 kg  
2) From 95 kg  
3) Optional
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.

Standard at Hörmann:

✓ Frequency converter control
High performance frequency converter controls (FU) 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 (adjustable hold-open phase)
✓ Error display / diagnosis via a 4 × 7-segment display
✓ Service operation setting
✓ Colour-coded plug-in control wiring

Connection of accessory components and safety devices is made easy with colour-coded plug-in connections and connection cables. This makes fitting for initial electrical start-up quick and easy.
**FU controls**

*Standard at Hörmann*

---

**BK 150 FU E-1**
- FU control in plastic housing, IP 54, 1-phase, 230 V

**Operation**
- Open-Stop-Close membrane push button, 4 × 7-segment display to provide information on door functions

**Function**
- Automatic timer, adjustable hold-open phase, safety light grille, closing edge safety device (H 3530, V 3015 Clean), stop/reopen

**Impulse generator**
- Push button, pull switch, mushroom button, radar presence detector, slots for induction loop detector and remote control

**Extension options**
- Main switch, emergency off button, traffic light, flashing warning light, locking, intermediate stop, extension PCB
- Steel cabinet IP 54
- 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, colour-coded plug-in control wiring

**Housing dimensions**
- 230 × 460 × 200 mm

---

**AK 500 FUE-1**
- FU control in plastic housing, IP 54, three-phase, 400 V

**Operation**
- Open-Stop-Close membrane push button, emergency-off button, 4 × 7-segment display for information on door functions, lockable main switch

**Function**
- Automatic timer, adjustable hold-open phase, safety light grille, closing edge safety device (V 10008, Iso Speed Cold), stop/reopen

**Impulse generator**
- Push button, pull switch, mushroom button, radar presence detector, slots for induction loop detector and remote control

**Extension options**
- Traffic light, flashing warning light, locking, intermediate stop, extension circuit board
- Steel cabinet IP 54
- 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, connecting lead cross section 5 × 2.5 mm² (depending on national standards), colour-coded plug-in control wiring

**Housing dimensions**
- 230 × 460 × 200 mm

---

**Compatible door types**
- V 4015 SEL Alu-R
- V 5015 SEL
- V 5030 SEL
- V 6030 SEL
- V 6020 TRL (up to 95 kg)
- V 5030 MSL (up to 95 kg)
- V 2012
- V 4015 Iso L
- V 3009 Conveyor
- V 3015 Clean

---

**Extension PCB for controls:**
- BK 150 FU E-1 (E FU H)
- AK 500 FUE-1 (E FU H)

**Expansion card with 6 relays**
- Lock controller
- 6 additional switch outputs (1 × 4, 2 × 1 volt-free)
- 6 additional digital inputs

**Expansion card with 1 relay**
- Lock controller 1 additional switch output

---

**Compatible door types**
- HS 7030 PU 42
- HS 5015 PU N 42
- HS 5015 PU H 42
- HS 6015 PU V 42
- HS 5015 PU H 67
- HS 6015 PU V 67
- HS 5015 Acoustic H
- Iso Speed Cold H 100
- Iso Speed Cold V 100
- V 10008
- V 5030 SEL
- V 6030 SEL
- V 6020 TRL (from 95 kg)
- V 5030 MSL (from 95 kg)

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**Induction loop detector**
- 1- or 2-channel plug-in print suitable for two separate induction loops, supplied without loop cable

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**Receiver HER 1 (1-channel)**
- With volt-free relay output in a separate housing, without connecting lead or as a plug-in circuit board in the control cabinet
## Accessories
### Stationary and mobile accessories, safety equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1-button hand transmitter</strong> 1 BS</td>
<td>Black structured surface with chrome caps</td>
</tr>
<tr>
<td><strong>Industrial hand transmitter HSI BS</strong></td>
<td>To control a maximum of 1000 doors, with a display and extra-large quick selection buttons for easier operation with work gloves, transferring of hand transmitter coding to other devices possible</td>
</tr>
<tr>
<td><strong>Push button</strong> 2x “Open / Close”</td>
<td>Plastic housing, IP 65</td>
</tr>
<tr>
<td><strong>Push button</strong> 3x “Open / Emergency-off / Close”</td>
<td>Plastic housing, IP 65</td>
</tr>
<tr>
<td><strong>Mushroom button</strong></td>
<td>With large operating surface Plastic housing, IP 65</td>
</tr>
<tr>
<td><strong>Magic switch</strong></td>
<td>Sensor for non-contact opening Plastic housing, IP 52</td>
</tr>
<tr>
<td><strong>External control element for FUE-1</strong></td>
<td>For easy operation and programming, can be placed independent from the control, same control buttons as on the control, 4 x 7-segment display</td>
</tr>
<tr>
<td><strong>Radar movement detector MWD-C</strong></td>
<td>Fast and targeted automatic door opening, directional recognition, max. fitting height 7 m, fitting in cold store possible to max. –22°C, IP 65</td>
</tr>
<tr>
<td><strong>Pull switch with plastic pull cord</strong></td>
<td>Horizontal or vertical fitting possible, aluminium die-cast housing, IP 65, cord length 4 m</td>
</tr>
<tr>
<td><strong>Warning light Ø 150 mm</strong></td>
<td>Red, in plastic housing with mounting strap, IP 65</td>
</tr>
<tr>
<td><strong>Warning light Ø 150 mm</strong></td>
<td>Red, green, in plastic housing with fitting support, IP 65</td>
</tr>
<tr>
<td><strong>Rotating warning light</strong></td>
<td>Red or yellow, in plastic housing, IP 54</td>
</tr>
<tr>
<td><strong>Flashing warning light</strong></td>
<td>Orange, in plastic housing, IP 65</td>
</tr>
</tbody>
</table>
### 3D laser scanner
#### Scanprotect

Thanks to laser technology, the high-end motion detector and monitoring system guarantees operational safety, even with different floor coverings. Scanprotect is particularly suited for outdoor use, as it is not susceptible to adverse weather conditions. This ensures reliable advance protection, as well as fast and targeted automatic door opening. The door control offers a convenient way to configure the diverse range of settings, for example, hiding objects in the detection area, or cross- and personnel traffic. Visible LED spots on the floor assist during set-up. The plug-in type wiring ensures easy connection to the door control.

The laser field acts as a reliable door monitor. It detects how fast and in which direction the object is travelling, ensuring optimum opening and closing reaction times. This minimises a door’s hold time and saves energy.

Cross-traffic can be ignored and there is an option to set a pedestrian filter, depending on the application. This ensures that the door is only opened when it needs to be.

The detection area can be adjusted according to the on-site requirements, for example, cross-traffic or shunted objects can be hidden.

The reliable and safe laser scanner can be used for reflective surfaces and during adverse weather conditions, even with leaves or snow.
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Rolling shutters and rolling grilles
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Automatic sliding doors
Visibility window
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Perimeter Protection Systems
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GARAGE DOORS
OPERATORS
INDUSTRIAL DOORS
LOADING EQUIPMENT
HINGED DOORS
DOOR FRAMES