



NEW: High-speed folding doors

For high wind loads, large door openings and low temperatures

HÖRMANN

High-speed folding doors

Interior, exterior and deep-freeze doors





Safe door operation

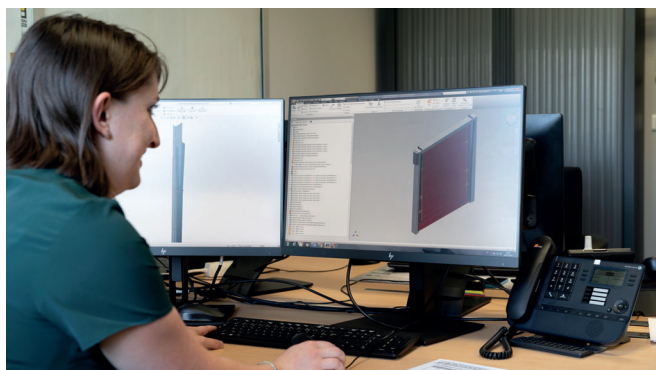
Flexible high-speed folding doors speed up workflows and reduce energy costs. They feature safe door operation and a long service life thanks to standard equipment with a safety light grille or photocell and a robust frame with flexible guide belts. In fact, they offer even more benefits: flexible high-speed folding doors are low-maintenance, easy to fit, cost-efficient and therefore economical for daily use.

Robust solution

The curtain is opened using a patented belt system with safety belts and folds in the lintel area. The galvanised steel wind reinforcement laths are arranged across the entire door height and withstand wind loads up to class 4 (optional).

Hörmann brand quality

Future-oriented and reliable



In-house product development

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 designs of the highest standard.



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 precise and automated welding of the door curtains.



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 characterised 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.



Certified safety

Hörmann high-speed folding doors are manufactured in line with stringent European standards and are, of course, certified.



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 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



Efficient service

Our extensive service network means that we are never far away. This is a great advantage for testing, maintenance and repairs.

Good reasons to try Hörmann

Quality features of high-speed folding doors



1

Standard safety light grille or photocell

The safety light grille integrated into the side elements in the F 6010 / F 6010 Iso monitors the closing zone of the curtain up to a height of 2500 mm. The door types F 14005 and F 4010 Cold are equipped with a photocell (not shown) for monitoring the closing zone. This **safety equipment meets the requirements of DIN EN 13241-1.**



2

Standard anti-fall safeguard

The high-speed folding doors are opened and closed via 2 pull belts. **In addition, 2 further safety belts** secure the door curtain in the event of damage, e.g. tearing of the pull belts. **This patented belt system effectively prevents the door from crashing.**



3

Flexible guide belts

The robust frame with innovative flexible guide belts prevents damage and resulting downtimes of the door system. In the event of a crash, the floor rail of the curtain is forced out of the guide belts. The curtain can then be reinserted and the door can be operated again. Another advantage of the flexible guide belts is **minimal noise during movement of the curtain and the wind reinforcement laths caused by the wind.**



4

Individual colour schemes

To achieve a **harmonious door appearance**, all Hörmann high-speed folding doors are available with **coated side elements and covers as standard.** Choose from 5 standard colours at no extra charge or optionally from 6 special colours.

Different colours can be combined for curtains, side elements and covers to create **individual colour schemes.** Alternatively, you can have your company logo or lettering (max. 800 x 800 mm) printed on the curtain.

High-speed folding door

Interior, exterior and deep-freeze doors



Door type F 6010 / F 6010 Iso

The fast external door with opening speeds up to 1.0 m/s and openings up to 6 x 6 m

Door type F 14005

The high-speed folding door with opening speeds up to 0.50 m/s for openings up to 14 m wide and 10 m high





Door type F 4010 Cold

The insulated deep-freeze door for temperatures up to -30°C with opening speeds up to 1.0 m/s and openings up to $4 \times 4.5\text{ m}$



High-speed folding doors

Interior, exterior and deep-freeze doors

Door type F 6010 / F 6010 Iso For fast door opening up to wind class 4

The opening speed of up to 1.0 m/s accelerates work processes for external door openings and reduces the thermal losses and draughts at the door. The stable steel wind reinforcement laths are arranged at 600 mm intervals across the entire height of the door and enable reliable operation up to wind class 3 (optionally up to wind class 4).

In addition, the flexible UPVC guide belts minimise the noise of the curtain caused by wind. **For improved thermal insulation, we recommend the F 6010 Iso** with an insulated curtain.



F 6010 / F 14005
1 × UPVC curtain with standard steel wind reinforcement laths



F 6010 Iso
Improved thermal insulation due to the insulated curtain

Door type F 14005 For large exterior door openings up to 14 m wide and 10 m high

The high-speed folding door F 14005 reduces energy loss and draughts at large external door openings of up to 14 m wide and 10 m high. The robust steel wind reinforcement laths guarantee that the doors reliably withstand wind loads of up to class 3 as standard. The door type F 14005 is optionally available with special wind reinforcement laths up to wind class 4.



F 6010 / F 14005
Flexible guide belts prevent downtime after a crash



F 6010 / F 14005
Optional window elements for improved visibility

Door type F 4010 Cold For cold store areas with temperatures up to -30 °C

The flexible high-speed folding door F 4010 Cold is the optimal solution for all interior areas in cold store logistics. The triple-insulated curtain reliably reduces cooling losses in cold store areas and the opening speed of 1 m/s ensures the rapid flow of traffic for maintaining the cold chain. The standard heated frames mean that the F 4010 Cold can also be used in cold store areas with temperatures up to -30 °C.

Notice:

Useful optional extras provided on site, such as underfloor heating, air curtain systems or dehumidifiers, ensure the reliable function of the high-speed folding doors.



F 4010 Cold
3 × insulated curtain for reducing cooling losses



F 4010 Cold
Heated frames for use in cold store areas

Equipment features

Door type	F 6010 / F 6010 Iso	F 14005	F 4010 Cold
Suitable application	Interior / exterior	Interior / exterior	Cold store area
Size range			
Width (mm)	Up to 6000	6000 to 14000	Up to 4000
Height (mm)	Up to 6000	4000 to 10000	Up to 4500
	AK E Optional: AK 500 FUE-1	AK E 700 M **	AK E
Speed with control	*		
Max. opening (m/s)	1,0	0,5	1,0
Closing approx. (m/s)	1,0	0,5	1,0
Security			
Light grille	●	–	–
Photocell	–	●	●
Closing edge safety device	○	–	–
Resistance to wind load (EN 12424)			
Up to wind class 2	–	●**	–
Up to wind class 3	●	●**	–
Up to wind class 4	○	○**	–
Curtain	UPVC, steel wind reinforcement laths	UPVC, steel wind reinforcement laths	3 × UPVC, fibreglass composite material
Temperature range ***	+5 °C to +40 °C	+5 °C to +40 °C	-30 °C to +5 °C
Fabric thickness (mm)	1,0	1,0	1,0
Vision field	○	○	–
Curtain colours			
Standard colours	●	●	●
Special colours	○	○	○
Side element colours			
Galvanized	●	–	●
Standard colours, coated	●	●	●
Special colours, coated	○	○	○
Stainless steel	○	–	○

● = Standard ○ = Optional

* Max. 60 cycles per hour

** Dependent on door size

*** Deviating temperatures on request

All colours based on RAL

Standard colours



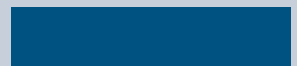
RAL 1018 Zinc yellow



RAL 2004 Pure orange



RAL 3002 Carmine red



RAL 5010 Gentian blue

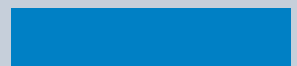


RAL 7038 Agate grey

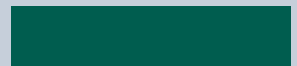
Special colours



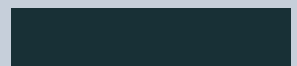
RAL 1015 Light ivory



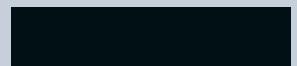
RAL 5015 Sky blue



RAL 6026 Opal green



RAL 7016 Anthracite grey



RAL 9005 Jet black



RAL 9010 Pure white

Controls

For high-speed folding doors F 6010 / F 6010 Iso and F 4010 Cold



AK E

Reversing contactor control in plastic housing, three-phase, 400 V

Operation

Open / Stop / Close membrane push button

Function

Automatic timer, adjustable hold-open phase, safety line curtain, photocell, closing edge safety device, stop / re-open

Extension options

Main switch, emergency-off button, traffic light, flashing warning light, locking, intermediate stop, extension circuit board, stainless steel cabinet IP 65

Wiring

Connecting lead 3 ~ 400 V, N, PE, fuse 10 A, slow-acting, plug-in connection between door operator and control cabinet as cable set, 6.5 m, CEE plug, 5-pin with 1 m cable for on-site CEE socket, 16 A

Housing dimensions

180 × 320 × 100 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 line curtain, closing edge safety device, stop / re-open

Extension options

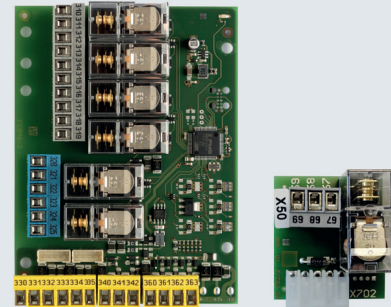
Traffic light, flashing warning light, locking, intermediate stop, extension PCB
Stainless steel cabinet IP 65

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



Extension PCB for AK 500 FUE-1

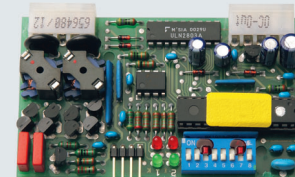
Expansion card with 6 relays

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



Induction loop detector

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

Accessories

For high-speed folding doors F 6010 / F 6010 Iso and F 4010 Cold



**4-button hand transmitter
HS 4 BS**
Black textured surface
with chrome caps



**Industrial hand transmitter
HSI 6 BS**
To control up to 6 doors,
with extra-large buttons for
easier operation with work gloves,
impact-resistant housing, IP 65



Radar movement detector MWD
Fast and targeted automatic
door opening, directional
recognition, max. fitting height
7 m, fitting in cold store possible
to max. - 22 °C, IP 65



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



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



Radar button HTR 1-24
Sensor for non-contact opening,
plastic housing, IP 41



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



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



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



Flashing warning light
Orange, plastic housing, IP 65

Controls and accessories

For high-speed folding doors F 14005



AK E 700 M

Reversing contactor control in plastic housing, three-phase, 400 V or 230 V

Operation

Open / Stop / Close membrane push button, main switch, emergency-off button

Function

Automatic timer, adjustable hold-open phase, safety line curtain, stop / re-open

Extension options

Traffic light, flashing warning light, locking,

Wiring

Connecting lead 3 ~ 400 V, PE, fuse 10 A, slow-acting, or connecting lead 3 ~ 230 V, PE, fuse 25 A, slow-acting

Housing dimensions

400 × 500 × 200 mm



4-button hand transmitter

Black



Pull switch with cord

Horizontal or vertical fitting possible, aluminium die-cast housing, IP 65, cord length 4 m



Radio receiver

For control via hand transmitter



Push button

3 × "Open / Emergency-off / Close", plastic housing, IP 65



Push button

2 × "Open / Close", plastic housing, IP 65



Mushroom button

With large operating surface, plastic housing, IP 65



Induction loop

Detector with normally open contact and changeover contact, can be set to pulse or permanent contact, direction recognition, 50 m loop cable



Radar sensor

Fast and targeted automatic door opening, directional recognition, IP 65



Rotating warning light

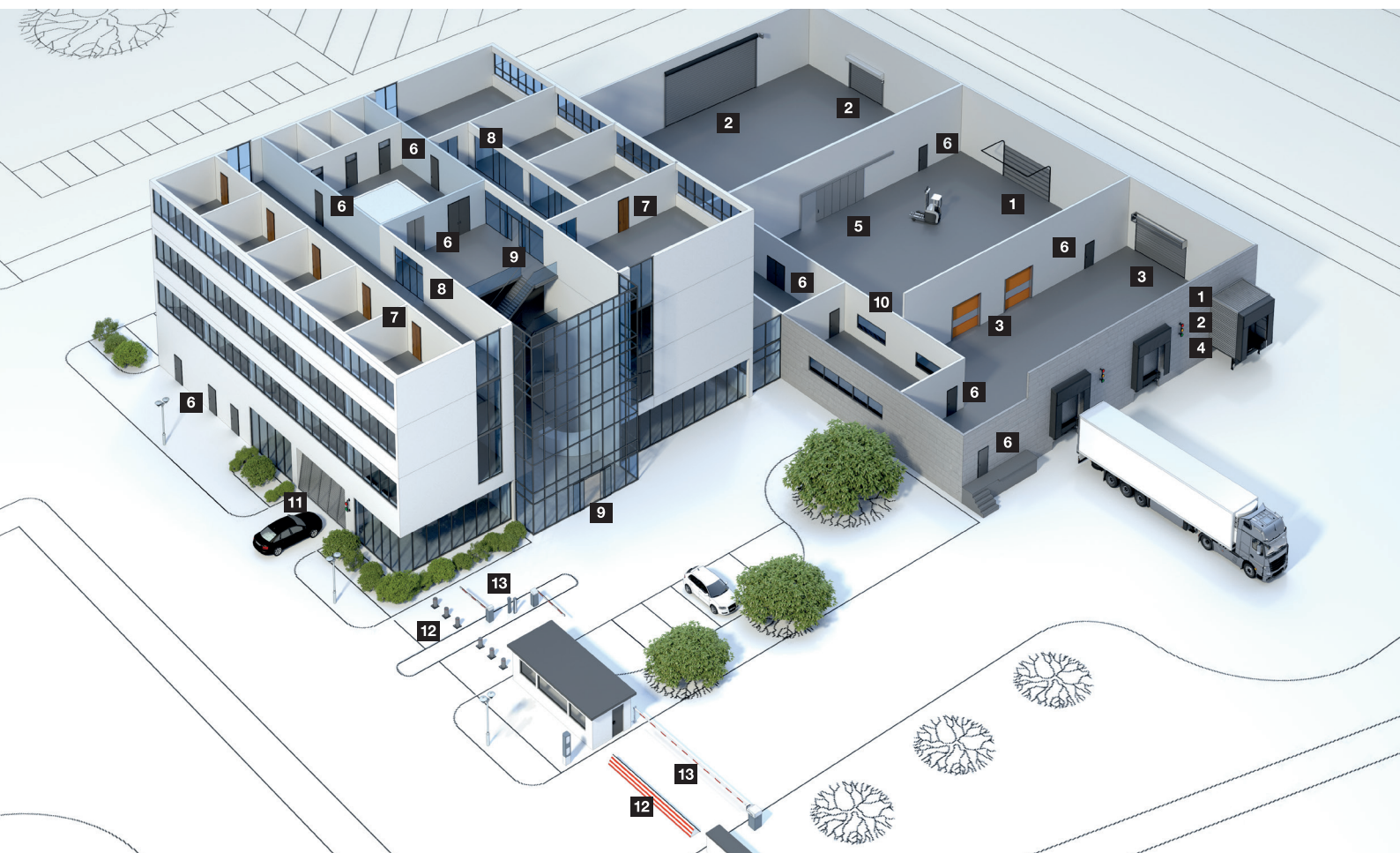
Red or yellow, plastic housing, IP 54

Hörmann Product Range

Everything from a single source
for your construction project



Quick service with testing,
maintenance and repairs
Our extensive service network
means that we are always nearby
and at your service around the clock.



Sectional doors



**Rolling shutters
and rolling grilles**



High-speed doors



Loading technology



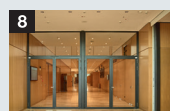
**Steel and stainless steel
sliding doors**



**Steel and stainless steel
construction project doors**



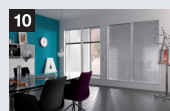
**Steel frames with high-quality
timber function doors
from Schörghuber**



**Tubular frame construction
project doors**



Automatic sliding doors



Visibility window



Collective garage doors



Bollards and road blockers



Barrier and pay station systems

Hörmann: Quality without Compromise



Hörmann KG Amshausen, Germany



Hörmann KG Antriebstechnik, Germany



Hörmann KG Brandis, Germany



Hörmann KG Brockhagen, Germany



Hörmann KG Dissen, Germany



Hörmann KG Eckelhausen, Germany



Hörmann KG Freisen, Germany



Hörmann KG Ichtershausen, Germany



Hörmann KG Werne, Germany



Hörmann Alkmaar B.V., Netherlands



Hörmann Legnica Sp. z o.o., Poland



Hörmann Beijing, China



Hörmann Tianjin, China



Hörmann LLC, Montgomery IL, USA



Hörmann Flexon LLC, Burgettstown PA, USA



Shakti Hörmann Pvt. Ltd., India

Hörmann is the only manufacturer worldwide that offers you a complete range of all major building products from one source. We manufacture in highly-specialised factories using the latest production technologies. The close-meshed network of sales and service companies throughout Europe, and activities in the USA and Asia, make Hörmann your strong partner for first-class building products, offering “Quality without Compromise”.

GARAGE DOORS

OPERATORS

INDUSTRIAL DOORS

LOADING EQUIPMENT

HINGED DOORS

DOOR FRAMES

HÖRMANN