



German Quality

New high-speed rolling shutter SR 9000



Industrial Rolling Shutters and Rolling Grilles

Sturdy and reliable in tough daily use

HÖRMANN



better|worx



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All the dimensions in this brochure are width × height (mm) as default.

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The doors shown are example applications – no guarantee.

Hörmann brand quality

Reliable and oriented towards the future



In-house product development

At Hörmann, innovation is produced in-house – highly qualified employees of the development department are in charge of product optimisation and new developments. This results in market-ready, high-quality products that are very popular around the globe.



Modern manufacturing

Most of the essential door components, such as profiles, side guides, support brackets, fittings and control technology are developed and produced by Hörmann - not bought in from here, there and everywhere. This ensures greatest compatibility between the door, operator and control. The certified Quality Management System guarantees the highest level of quality from development, through production to shipping.

This is Hörmann quality – German Quality.



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.



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, such as technical manuals, is not only available in printed form, but is always accessible and up-to-date at www.hoermann.com



Fast service

Our extensive service network means that we are always nearby and at your service around the clock. This is a major advantage in terms of inspections, maintenance and repairs.

Good reasons to try Hörmann

Innovations from the market leader



Only from Hörmann



1

Innovative tension spring assembly

Safe and proven

Manual door opening and closing is facilitated significantly by the tension spring assembly. Even the CS rolling shutters up to the maximum size can be moved with little force. For rolling shutters / rolling grilles with an optional operator, the tension spring assembly reduces wear on the mechanical door elements and operator technology.

2

Operational safety through power limit

As standard with CS rolling shutter / rolling grille

In combination with operator WA 300 R S4, the CS rolling shutter / rolling grille features high safety during opening and closing processes. Thanks to the standard power limit in the "Open" and "Close" directions, certain curtain variants and size ranges do not require the installation of a closing edge safety device to meet the requirements of DIN EN 12453.



Only from Hörmann



3

**New!
High-speed rolling shutter
above traditional class**

**Revolutionary design on the high-speed
rolling shutter SR 9000**

SR 9000 is a new door type which beyond traditional rolling shutter. max. open speed up to 1.0 m/s, self-monitoring safety light grille in the closing zone as standard, this revolutionary high performance rolling shutter is the model to choose as an alternative to traditional rolling shutters in high cycle applications.



4

**Well thought-out door and
operator concept**

Optimally matched to one another

Precise matching of the door, operator and control ensure the smooth operation of the rolling shutter / rolling grille. With a complete door solution from a single source, these components form the perfect team.

While Hörmann rolling shutters and rolling grilles stand for durability and functional safety, they are also trouble-free to maintain.

Application areas

A matching door type for every purpose

Compact, space-saving construction for shopping centres

CS rolling shutter / rolling grille

You can find additional door solutions for store entrances in the brochure "RolliMatic Rolling Grille".



Optimised door systems for logistics

CS rolling shutter / rolling grille
SR 9000 high-speed rolling shutter



Easy operation for commercial buildings, warehouses and agriculture

CS rolling shutter / rolling grille



Safe night door for underground garages and multi- storey car parks

CS rolling shutter / rolling grille
Classic rolling shutter /
rolling grille



Large doors for industrial halls and disposal companies

Classic rolling shutter



Ideal solutions for special requirements

Classic rolling shutter /
rolling grille



CS rolling shutter / rolling grille

Maximum comfort for door openings up to 6000 × 4500 mm



Warehouses

Easy operation as a manual rolling shutter with tension spring assembly. Simple retrofitting of the WA 300 R S4 operator.

Also manually operated
As rolling shutter up to 5000 mm x 4500 mm,
as rolling grille up to 6000 mm x 4500 mm



Logistics

The optimal solution for low to medium-traffic, as a manually operated door or with operator WA 300 R S4.



Agriculture

This robust, inexpensive solution with steel profiles is available for door widths up to 5000 mm.



Shopping centres

This door features a space-saving design and easy operation, e.g. with emergency opening from the outside for smaller store entrances. It is also available with a rolling grille curtain in up to 6000 mm door width.

CS rolling shutter / rolling grille

Manually operated or optionally with operator WA 300 R S4



The front image shows a CS rolling shutter for manual operation; the variant with an optional operator WA 300 R S4, including cover, is shown in the rear.

Tension spring assembly

For easy manual opening and closing,
as well as door travel that is gentle on the operator



Tension spring assembly

The innovative tension spring assembly assists during manual opening and closing. Therefore rolling shutters and rolling grilles can be operated with little force.

Chain hoist

The CS rolling shutter and rolling grille can also be easily opened and closed via the interior and exterior handle. Operation is particularly easy with an optional chain hoist, which we recommend for doors higher than 3500 mm.



Faster fitting

The entire door construction, including support brackets and side guides, is fitted as a frame unit to the building structure. This makes fitting easier and shortens the fitting time. In addition, a smaller space requirement of only 165 mm facilitates fitting in the tightest of spaces.

Plastic runners and brush seals in the aluminium side guides ensure quiet door travel.

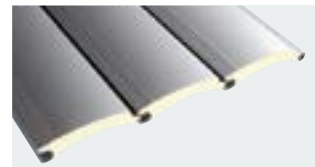


Optional cover

To prevent accidental reaching into the door barrel, doors under 2.5 m height require a shaft cover, in accordance with the requirements of EN 13241-1. The stable door and operator technology cover provides continuous protection against dust and dirt.

Curtain variants

Size range
(B × H, max.)



Decotherm S, steel

Max. width 5000 mm
Max. height 4500 mm



HR 120 A, aluminium

5000 mm × 4500 mm



HR 120 aero, aluminium

5000 mm × 4500 mm



HG-L, aluminium

6000 mm × 4500 mm



HG 75, aluminium

6000 mm × 3500 mm

Overview of curtains

From page 26

Operators and controls

From page 36

Classic rolling shutter

Individual solutions for door openings



Ideal solution for opening width up to 8000 mm



Disposal firms

Robust construction for hard environment



Industrial project

Good choice for workshop with big opening size



Commercial warehouse

Good thermal insulation and easy to fit.

Classic rolling shutter

Sturdy and reliable





Elegant concave surfaces

The concave interior and exterior surfaces of the profiles ensure extremely good roll-up action. Optimally designed hinges reduce heat loss and enable a connection between the curtain and barrel without the usual pressure and wear marks.



Window elements

Decotherm S can be equipped with window elements. Double-skinned window elements consist of transparent, impact-resistant polycarbonate with high-quality cover frames (similar to RAL 9006). The benefit of these frames: The PU foam is no longer visible, noise and abrasion are reduced.



Standard with closing edge safety device

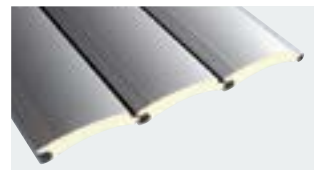
The standard safety device provides you with more security. The sensors in the bottom rubber sealing monitor the bottom edge of the door and, as a result, obstructions and persons are quickly detected and the door starts to reverse as soon as it makes contact.



Side guides and wind locks

The articulated design of the wind locks enables the rolling shutter to withstand extreme wind pressure. Plastic runners with integrated brush seals ensure quiet door travel.

Curtain size range



Decotherm S, steel

Max. width 8000 mm
Max. height 7750 mm
Max. area 40 m²

Windows



Standard arrangement



Logistics arrangement

Overview of curtains

From page 26

Operators and controls

From page 36

Classic Rolling Shutter / Rolling Grille

Individual solutions for opening widths up to 30 m



Large doors as coupled constructions (SSG)

Up to three rolling shutters or rolling grilles can be coupled in the opening up to 30 m wide and 6 m high using the SSG system. Once the doors have been opened, the mullions are unlocked manually and slid over to the side park positions.



Large doors for wide door openings and high wind loads

The Wind Protection System (WPS) increases the rigidity of the door against wind load. An aluminium telescopic support reliably braces the closed door. As a result, wind load classes 2 and higher can also be achieved for door widths above 10 m.



Door opening with sloping ground

A chamfered bottom profile compensates for differences in height with sloping ground; steps can also be bridged this way.



External rolling shutters

External rolling shutters are the perfect solution for hall openings that lack interior sideroom. If there is no overhead covering, we offer a special curtain cover in either galvanized sheet steel or stainless sheet steel.

Classic rolling shutter / rolling grille

Ideal solution for bigger opening size



Classic rolling shutter with direct drive operator



Less required headroom



Advanced anchor technology for variable support

Variable 30-mm increments, installation and service-friendly screw connections produce a close fit. A neat solution, both visually and thermally.



Weld-on spacer brackets for steel structures

The spacer brackets can be directly welded onto the steel structure. For steel construction halls, the weld-on spacer brackets optimally complement the anchor technology.

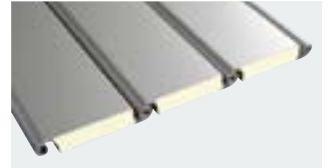


Bend-resistant bottom profiles

A stable aluminium profile strengthens the curtain. A weather-resistant, flexible EPDM tubular seal prevents penetration of dirt and rain, compensates for unevenness in the floor and, in the end-of-travel position, does not produce any noise when it comes into contact with the floor.

Curtain variants

Size range
(B × H, max.)



HR 116 A, aluminium
11750 mm × 9000 mm



HR 120 A, aluminium
HR 120 S, steel
11750 mm × 8000 mm



HR 120 aero, aluminium
11750 mm × 8000 mm



HG-V, aluminium (reinforced)
11750 mm × 8000 mm
HG-S, steel
11750 mm × 8000 mm

Overview of curtains

From page 26

Operators and controls

From page 36

SR 9000 high-speed rolling shutter

New innovative rolling shutter generation



Opening speed up to 1.0 m/s (based on door height 4500 mm)



Factories

High opening and closing speeds up to 1.0 m/s, optimize your operations and reduce heat losses.



Logistics

High safety ensure smooth passage

SR 9000 high-speed rolling shutter

More flexibility, more efficiency

Standard FU operator with
soft start and soft stop





Aluminium side guide

- Only 92 mm side space requirement for all door sizes
- Fitted quickly and easily directly to the building structure without anchor technology

Guide channel that is gentle on the door

- Less wear on the door curtain due to newly developed flexible holders on the top of the frame
- Service-friendly, easy dismantling



Limited sideroom

- Bearing side max. 210 mm
- Operator side max. 430 mm

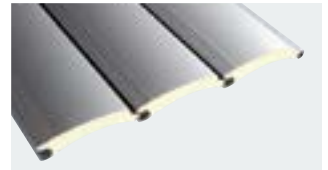


High operation and safety performance

- Opening speed up to 1.0 m/s
- FU operator with soft start and soft stop
- Safety light grille monitor the door way
- L pads on the curtain interior for quiet door travel
- **Window elements are optionally available**

Curtain variants

Size range
(W × H, max.)



Decotherm S, steel
5000 * 4500 mm

Windows



Standard arrangement

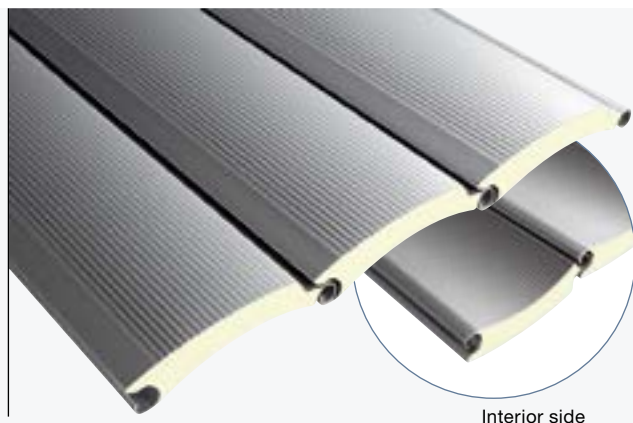


Logistics arrangement

Rolling shutter laths

Decotherm S, HR 116 A

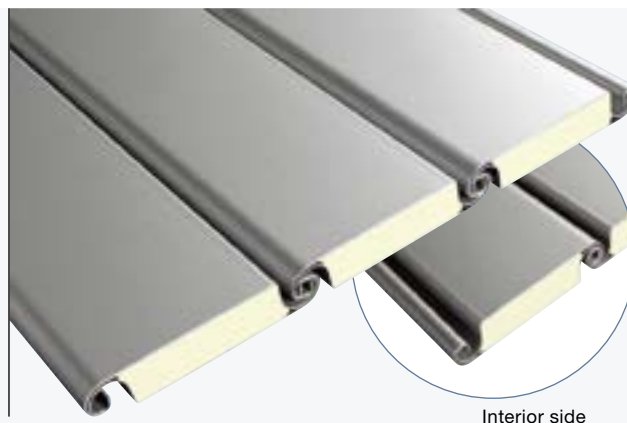
Double-skinned and thermally insulated



Interior side

Decotherm S, steel

Hörmann has decisively improved its rolling shutters with this high-tech profile. A combination of a thoroughly optimised profile geometry with special steel alloys shows what is possible today in rolling shutter construction. Special “full hard” steel makes these profiles especially resistant to damage caused by transport, fitting and operation.



Interior side

HR 116 A, aluminium

The robust profile HR 116 A is ideal for industrial halls with large structural openings. The Stucco-textured surface features a special texture that makes your door less sensitive to visual damage.

Profile type	Decotherm S	HR 116 A
Material	Steel	Aluminium
Surfaces without colour coating	–	Stucco-textured without protective paint
Surfaces with colour coating	Exterior and interior with identical colour coating to choose	Exterior and interior with identical colour coating to choose
Standard colours	RAL 9002 RAL 9006 RAL 7016	RAL 9002 RAL 9006
Preferred colours	–	•
Special colours	–	•
Profile height	109 mm	119 mm
Curtain weight	Approx. 10.3 kg/m ²	Approx. 10.0 kg/m ²
Wind load class 2 up to a door width of	8000 mm	11750 mm
Heat transmission EN 12428 (single profiles)	3.9 W/(m ² ·K)	5.3 W/(m ² ·K)
Door type	CS rolling shutter Classic rolling shutter SR9000 rolling shutter	Classic rolling shutter
Windows	–	•

- Optionally available
- Not available

Rolling shutter laths

HR 120 A / S, HR 120 aero

Single-skinned



Interior side

HR 120 A, aluminium

The HR 120 A profile is the ideal solution for unheated buildings. The aluminium bright-rolled version is the standard surface finish for this profile. The profile exterior of the aluminium coil-coated surface finish features high-quality colour coating.

HR 120 S, steel

With the HR 120 S profile made of heavy-duty steel with a galvanized finish, your door can withstand extremely high loads.



Interior side

HR 120 aero, aluminium

This finely perforated profile permits the entry of adequate light and air. Dust, paper and other contaminants remain outside. The bright-rolled surface finish is well-suited for simple applications, e.g. in underground garages. The exterior of the coil-coated surface finish features a high-quality colour coating.

Profile type	HR 120 A	HR 120 S	HR 120 aero
Material	Aluminium	Steel	Aluminium
Surfaces without colour coating	Bright-rolled and without protective paint	Galvanized without protective paint	Bright-rolled and without protective paint
Surfaces with colour coating	Exterior: colour coating to choose Interior: Basalt grey protective paint, RAL 7012	–	Exterior: colour coating to choose Interior: Basalt grey protective paint, RAL 7012
Standard colours	RAL 9002 RAL 9006	–	RAL 9002 RAL 9006
Preferred colours	•	–	–
Special colours	•	–	–
Profile height	119 mm	119 mm	119 mm
Curtain weight	Approx. 6.0 kg/m ²	Approx. 15.0 kg/m ²	Approx. 5.5 kg/m ²
Wind load class 2 up to a door width of	7500 mm	10000 mm	5500 mm
Heat transmission EN 12428 (single profiles)	–	–	–
Door type	CS rolling shutter Classic rolling shutter	Classic rolling shutter	CS rolling shutter Classic rolling shutter
Windows	•	•	–
Ventilation slots	*	–	–

* Ventilation laths HR 120 aero

• Optionally available

– Not available

Rolling grille curtains

HG-A, HG-V, HG-S, HG-L, HG 75

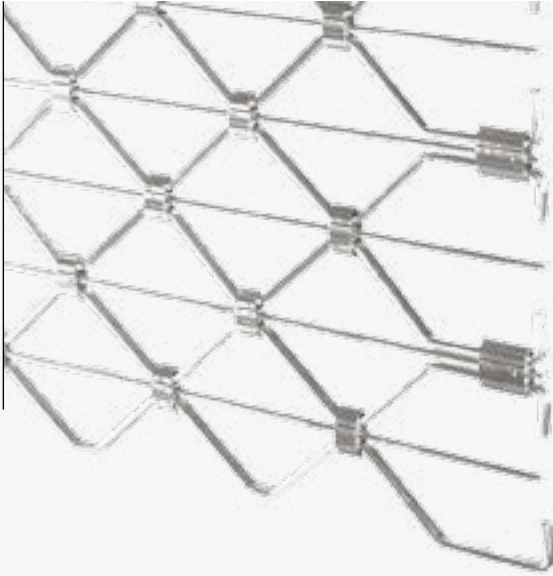


HG-V, aluminium (reinforced)
The aluminium curtain, reinforced with V2 A stainless steel honeycomb connections, is ideal for wide openings such as underground garages or multi-storey car parks where high numbers of opening/closing cycles are the norm.



HG-S, steel
The robust and low-cost galvanized steel version is especially suitable for large widths and a high number of cycles.

Curtain type	HG-V	HG-S	HG-L	HG 75
Material	Aluminium	Steel	Aluminium	Aluminium
Surfaces without colour coating	Bright-rolled	Galvanized	Bright-rolled	-
Surfaces with colour coating	-	Colour coating to choose	Colour coating to choose or anodised in a natural finish (E6 / EV 1)	RAL 9016, RAL 7035, RAL 9006, RAL 5011, RAL 8028, RAL 7016, RAL 9005
Weight of curtain	Approx. 7 kg/m²	Approx.14 kg/m²	Approx. 6.5 kg/m²	Approx. 6.7 kg / m²
Door type	Classic rolling grille	Classic rolling grille	CS rolling grille	CS rolling grille



HG-L, lightweight and compact aluminium

The elegant and space-saving aluminium version is particularly suitable for use in shopping arcades. Grille and honeycomb connections with aluminium crossbars provide additional reach-through protection.



HG 75, aluminium

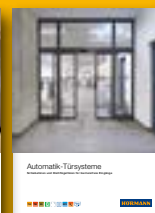
The extruded aluminium profiles are available in a milled or powder-coated surface finish. The 100 mm x 40 mm square holes can be provided in a straight or offset arrangement.



Compact fitting dimensions – optimal for store entrances

Thanks to its compact design, the new RollMatic rolling grille is the ideal solution for small store entrances in the tightest of spaces. The RollMatic rolling grille is available in the curtain variants HG-L and HG 75.

The combination with the AD 100 sliding door combines the requirements of a convenient automated daytime entrance and escape route as well as secure night time locking.



More information can be found in the "RollMatic Rolling Grilles" brochure.

Coloured doors

Create attractive accents




*High-grade colour coating
Protection against abrasive wear*





Matching door colours for facade

Coloured doors are increasingly used as design elements in modern industrial and commercial architecture. On account of their size alone, industrial rolling shutters already play a key role in determining the visual appearance of the facade. Hörmann therefore offers rolling shutters and rolling grilles in well approx. 200 RAL colours.

Decotherm S standard colours

	
Grey white	RAL 9002
	
White aluminium	RAL 9006
	
Anthracite grey	RAL 7016

HR 116, HR 120 standard colours

	
Grey white	RAL 9002
	
White aluminium	RAL 9006

HR 116, HR 120 preferred colours

	
Grey aluminium	RAL 9007
	
Terra brown	RAL 8028
	
Leaf green	RAL 6002
	
Gentian blue	RAL 5010
	
Flame red	RAL 3000
	
Anthracite grey	RAL 7016

High-grade colour coating

Coil-coated rolling shutter laths provide long-term protection against adverse weather effects for surface finishes. Additional protective paint with polyamide particles reduces abrasion and noise. All curtain and door types feature a bright-rolled bottom profile.

Special colours according to RAL (for HR 116 and HR 120)



The colours shown are subject to the limitations of the printing process and cannot be regarded as binding. All colours based on RAL. Slight colour variations are permissible.

Impossible to force open!

Increase the security of your property



External view



Internal view



Lockable bottom profile with profile cylinder

Actuation either from the interior and exterior or only from the interior. available for CS rolling shutters and rolling grilles

Shootbolt

The shootbolts are fitted on the interior left and right ends of the bottom profile. available for CS rolling shutters and rolling grilles

The safety of Hörmann rolling shutters and rolling grilles is certified



Safety features according to European standard 13241-1 Hörmann products are tested and certified for:

- **Anti-fall safeguard**
- **Trap protection**
- **Trap guard**

Hörmann rolling shutters and rolling grilles work safely during all opening and closing phases – whether manually-operated or power-driven. In doors with an impulse control, the specified dynamic closing forces are reliably maintained through monitoring systems with an integrated self-test function. At Hörmann, the door and operator are perfectly matched to each other, tested by TÜV for your safety and in compliance with the relevant standards.

It pays to compare!

Rolling grilles in public, easily accessible areas

Special safety equipment is required in areas frequented by children, who may hang on the rolling grille.

With rolling grille CS with operator WA 300 R S4, the safety requirements according to DIN 13241-1 are met thanks to the standard power limit in the “Open” direction.

Lintel trap guards always need to be fitted on classic rolling grilles with impulse controls.

Anti-fall safeguard



Integral catch safety device in direct drive operators

The device offers especially good absorption, a large amount of power reserve and reliably prevents the door curtain from falling.

Separate catch safety device for chain drive and tubular operators

Just like the integral version, this is a high-performance device that responds as soon as the speed limit is fractionally exceeded.

With the CS rolling shutter, the doubly secured tension spring assembly prevents the door from falling.

Trap protection and trap guard



Trap protection

Black plastic strips on the edges of the side guide protect against cuts.



Curtain cover

The optional curtain cover for door types CS and classic prevents operators from reaching into the hazard area of the door curtain in accordance with the EN 13241-1 requirements.



Safety equipment

Closing edge safety device, lintel trap guard and through-traffic photocell are self-testing before and during every shutter cycle. If a malfunction is detected in just one of the units, the shutter's control system automatically switches to press-and-hold operation.

Safety requirements

Please note the mandatory annual inspection for all power-driven doors.

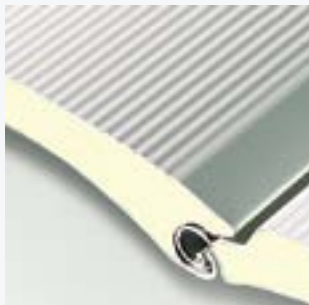
Well thought-out designs with convincing performance properties

Performance characteristics according to European standard 13241-1
Hörmann products are tested and certified for:

- **Thermal insulation**
- **Acoustic insulation**
- **Sealing**
- **Wind load**

Thanks to innovations and continuous further developments, rolling shutter construction at Hörmann has been ahead of its time for years. Performance criteria in accordance with European standards have been integrated into these developments with convincing results.

Thermal insulation and acoustic insulation



Decotherm S



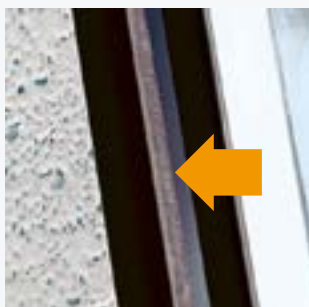
Thermal insulation

Minimal thermal bridges and use of fine-pored PU rigid foam infill ensure good thermal insulation in all double-skinned door profiles compared with other rolling shutters.

Acoustic insulation

Curtain and sealing technology used around the entire shutter reduce noise from both outside and inside.

Sealing



Bristle seal



Double-skinned classic rolling shutters provide an all-around tight fit. A frost-proof flexible lip seal is situated along the bottom edge. A flock-coated special lintel seal and bristle seals down the side guides provide added sealing.

Stability



Classic rolling shutter Decotherm S with steel wind lock



Robust wind locks and deflection-resistant bottom profiles enable your door to withstand high wind loads.

Compatible System Solutions

For high functional door safety





Better with a system

This means the components have been optimally adjusted to work together, ensuring the door's functional safety.

The uniform operating concept and the 7-segment displays facilitate daily use. Fitting is also simplified thanks to uniform housing and cable sets. This way, all Hörmann products work together optimally and efficiently:

- Industrial doors
- Loading technology
- Operators
- Controls
- Accessories

Operator WA 300 R S4

For CS rolling shutters / rolling grilles



Soft start and soft stop

The WA 300 R S4 operator's standard soft start and soft stop functions ensure quiet door travel, reducing wear on the door and operator.

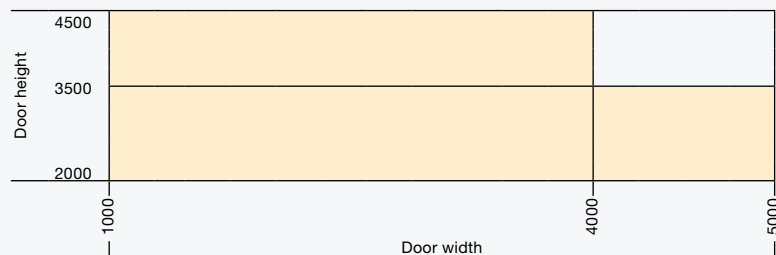
Power limit as standard

Thanks to the standard power limit in the "Open" and "Close" directions, the CS rolling shutter/rolling grille features high safety during opening and closing processes. In addition, the specified curtain variants and size ranges (see fig. "Impulse operation without closing edge safety device") do not require the installation of a closing edge safety device to meet the requirements of DIN EN 12453. Operator fitting is very easy, since no components need to be fitted on the curtain. The low amount of effort required for fitting, repair and other services provides additional savings.



Impulse operation without closing edge safety device

Size range for CS rolling shutters/rolling grilles with Decotherm S curtain or rolling grilles HG-L.



Release directly on the operator as standard

With the integrated maintenance release, the door can be switched to manual operation at any time. This allows the door to remain fully functional, even in the event of a power failure. The release **1** can be converted to a secured release **2** at any time so that the operator can be disengaged conveniently from the floor.



Easy fitting

The optional fitting gearbox facilitates fitting **3** even further, since a forklift is no longer required.



Well thought-out door and operator concept

For basic rolling grilles and classic rolling shutters / rolling grilles



Direct drive operator

The ideal operator for small to medium-sized rolling shutters and grilles. Equipped with integral catch safety device. Our recommendation: With the classic rolling shutter, combine a direct drive operator with the safe Hörmann ZAK system.



Chain drive operator

The powerful operator for large rolling shutters. Equipped with plug-in connections for mains and control cables. With a separate catch safety device as standard.



Tubular operator

The solution for small doors with especially limited fitting space at the sides and few door cycles per day. With a separate catch safety device as standard.

Innovative technology

In an elegant design

NEW



The new BiSecur hand transmitters have been awarded a design prize by an international jury.



Hörmann BiSecur (BS)

The modern radio system for industrial door operators

The bi-directional BiSecur radio system is based on future-oriented technology for the convenient and secure operation of industrial doors. The extremely secure BiSecur encryption protocol makes sure that no one can copy your radio signal. It has been tested and certified by security experts at Bochum University.

Advantages to you:

- 128-bit encryption with the same high security level as in online banking
- Interference-resistant radio signal with a stable range
- Backwards compatible, i.e. radio receivers with the radio frequency 868 MHz (2005 to June 2012) can also be operated with BiSecur control elements.



**4-button
hand transmitter
HS 4 BS**



**1-button
hand transmitter
HS 1 BS**



**4-button
hand transmitter
HSE 4 BS
Black**



**2-button
hand transmitter
HSE 2 BS
White**



**3-channel receiver
HEI 3 BS**
For controlling
3 functions



**1-channel relay receiver
HER 1 BS**
with potential-free relay output
in a separate housing without
connection cable



**4-channel relay receiver
HER 4 BS**
With 4 volt-free
relay outputs



Not available for BK 150 FUE-1
and AK 500 FUE-1

Accessories

Optional extras



Push button DTH R

For separate control of both operational directions, with separate stop button.

Protection category: IP 65

Dimensions:

90 mm × 160 mm × 55 mm (W × H × D)

Not available for BK 150 FUE-1 and AK 500 FUE-1



Push button DTH RM

For separate control of both operational directions, with separate stop button.

With miniature lock: Operator is deactivated.

It is not possible to actuate the operator (2 keys included in the scope of delivery).

Protection category: IP 65

Dimensions:

90 mm × 160 mm × 55 mm (W × H × D)

Not available for BK 150 FUE-1 and AK 500 FUE-1



Key switch with 3 keys

Recessed version **STUP 30**

Impulse or OPEN / CLOSE function selectable

Dimensions of switch box:

60 mm (d), 58 mm (D)

Dimensions of cover:

80 mm × 110 mm (W × H)

Wall recess:

65 mm (d), 60 mm (D)

Protection category: IP 54

Surface-mounted version **STAP 30**

Dimensions:

80 mm × 110 mm × 68 mm (W × H × D)

Not available for BK 150 FUE-1 and AK 500 FUE-1



Emergency-off button DTNG 10

To quickly immobilise the door.

Push-to-lock mushroom button

Surface-mounted

Dimensions:

93 mm × 93 mm × 95 mm (W × H × D)

Protection category: IP 65

Not available for BK 150 FUE-1 and AK 500 FUE-1



Pull switch with plastic pull cord

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

Accessories

Optional extras



Induction loop DI 2

in a separate additional housing

Suitable for two separate induction loops. The detector has two volt-free normally open contacts. Can be set for impulse or permanent contact. Directional recognition possible. Dimensions of additional housing: 202 mm × 164 mm × 130 mm (W × H × D) Switching capacity: DI 2: 250 V AC, 4 A, 1000 VA, (resistivity AC) Supplied with loop cable



Loop cable for induction loop

50 m roll
Cable designation: SIAF
Cross-section: 1.5 mm²
Colour: brown



One-way photocell EL 51

Photocell with separate transmitter and receiver. The photocell is tested by the control prior to each closing cycle. Connected via a system cable. Max. range 8.0 m Dimensions with fitting bracket: 60 mm × 165 mm × 43 mm (W × H × D) Protection category: IP 65

Not available for BK 150 FUE-1 and AK 500 FUE-1



Comfort radar / presence detector

Radar movement and presence detection with infrared detection. Fast and targeted automatic door opening. Reliable advance protection. 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.



Red/green warning light

In steel housing
With fitting bracket
IP 65



Rotating warning light

Yellow, in plastic housing, IP 54



2-key push button

For separate control of both operational directions. Protection category: IP 44 Dimensions: 70 × 118 × 65 mm (W × H × D)

Available for BK 150 FUE-1 and AK 500 FUE-1







Palm / mushroom button

With large operating surface Plastic housing, IP 65

Available for BK 150 FUE-1 and AK 500 FUE-1

Controls for CS and classic rolling shutter

Compatible system solutions

				
	Internal control WA 300 R S4	External control 360	Impulse control 445 R	Comfort control 460 R
OPERATORS				
WA 300 R S4 for rolling shutter / rolling grille	●	○		
Direct drive, chain drive operator for classic rolling shutter / rolling grille			●	○
Functions / features				
Control and operator can be mounted separately	–	●	●	●
Adjustments made conveniently directly on the control		●	●	●
Soft start and soft stop for quiet door travel	●	●		
Power limit in "Open"/"Close" directions ²⁾	●	●		
Second opening height with additional button on the housing cover	○	●		●
Status and error display via LED	●			
Menu reading from outside with a double 7-segment display (maintenance, cycle and operating hours counters as well as error analysis)	–	●	●	●
Collective malfunction signalling with on-site individual display (acoustic, visual, or e.g. via mobile phone)	–	○	○	○
Extension possible with external radio receiver	●	●	●	●
Automatic timer ¹⁾	●	●		●
Traffic control ¹⁾	–	○		○
Integrated connecting terminals for additional command units	●	●	●	●
Function lock via miniature lock	○	● ³⁾	● ³⁾	● ³⁾
With SKS closing edge safety device:	○	○	●	●
Without SKS closing edge safety device:	●	●		
Standard accessory DTH-R push button	●			
Power supply	230 V	230 V	400 / 230 V	400 / 230 V
Main switch integrated into control housing	–	○	○	○
Protection category IP 65 (jet-water protected) for controls and door leaf components	●	●	●	●

● as standard

○ with corresponding equipment possibly with additional control

– Not available

1) Only in combination with an activating kit for warning light and photocell
or light grille.

2) In the "Close" direction, the power limit is only possible in the indicated
curtain variants and size ranges.

3) Convertible to profile half cylinder.



Optional
Profile half cylinder



Optional
Main switch

Controls for high-speed rolling shutter SR 9000

FU control



BK 150 FUE - 1
FU control in plastic housing IP 54
Single-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, 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

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 cabinet 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, 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

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

Overview of rolling shutters

Construction and quality features

- = Standard
- = Optional

		CS rolling shutter			CS rolling grille		SR 9000	
		Decotherm	HR 120		HG-L	HG 75	Decotherm	
		S	A	aero			S	
Wind load EN 12424	Class 2 up to door width in mm	5000	5000	4000	–	–	5000	
	Higher wind loads on request	–	–	–	–	–	–	
		●	●	●	–	–	●	
Thermal insulation	Appendix B EN 12428 Individual shutter section (U = W/ (m²·K))	3,9	–	–	–	–	3.9	
	Shutter 4 m × 4 m, fitted (U = W/ (m²·K))	4,1	–	–	–	–	4.1	
Door sizes	Max. width (LZ) mm	5000	5000	4000	6000	6000	5000	
	Max. height (RM) mm	4500	4500	4000	4500	3500	4500	
Space requirements	See the technical manual							
Curtain material	Single-skinned aluminium	–	●	●	●	●	–	
	Double-skinned aluminium	–	–	–	–	–	–	
	Single-skinned steel	–	–	–	–	–	–	
	Double-skinned steel	●	–	–	–	–	●	
Curtain surface	Bright-rolled aluminium	–	●	●	–	–	–	
	Mill-finished aluminium	–	–	–	●	●	–	
	Stucco-textured aluminium	–	–	–	–	–	–	
	Aluminium coated in RAL 9002	–	○	○	○	–	–	
	Aluminium coated in RAL 9006	–	○	○	○	○	–	
	Aluminium coated in RAL to choose	–	○	–	○	○*	–	
	Anodised aluminium E6 / EV 1	–	–	–	○	–	–	
	Galvanized steel	–	–	–	–	–	–	
	Galvanized steel coated in RAL 9002 RAL 9006 RAL 7016	●	–	–	–	–	●	
	Galvanized steel coated in RAL to choose	–	–	–	–	–	–	
Own weight of curtain	Approx. kg/m²	10.3	6.0	5.5	6.5	6.7	10.3	
Side door	Matching the door	–	○	○	–	–	–	
Glazing	Rectangular window	○	○	–	–	–	○	
	Logistics arrangement	○	○	–	–	–	○	
Seals	All-round on 4 sides	○	○	–	–	–	○	
Locking systems	Internal locking	○	○	○	○	○	–	
	External / internal locking	○	○	○	○	○	–	
Anti-lift kit		–	–	–	●	●	–	
Safety equipment	Finger trap protection	●	●	●	–	–	●	
	Side trap guards	–	○	○	○	○	–	
	Safety catch	●	●	●	●	●	●	
Fastening options	Concrete	●	●	●	●	●	●	
	Steel	●	●	●	●	●	●	
	Brickwork	●	●	●	●	●	●	
	Timber	●	●	●	●	●	●	

* RAL 9016, RAL 7035, RAL 9006, RAL 5011, RAL 8028, RAL 7016, RAL 9005

	Classic rolling shutter					Classic rolling grille	
	Decotherm	HR 116	HR 120			HG-V	HG-S
	S	A	A	S	aero		
	8000	10000	7500	10000	4500	–	–
	–	○	○	○	○	–	–
	○	○	○	○	○	–	–
	3.9	5.3	–	–	–	–	–
	4.2	5.8	–	–	–	–	–
	8000	11750	11750	11750	11750	11750	11750
	7750	9000	8000	8000	8000	8000	8000
	–	–	●	–	●	●	–
	–	●	–	–	–	–	–
	–	–	–	●	–	–	●
	●	–	–	–	–	–	–
	–	–	●	–	●	●	–
	–	–	–	–	–	–	–
	–	●	–	–	–	–	–
	–	○	○	–	○	–	–
	–	○	○	–	○	–	–
	–	○	○	–	–	–	–
	–	–	–	–	–	–	–
	–	–	–	●	–	–	●
	●	–	–	–	–	–	○
	–	–	–	–	–	–	○
	10.3	10.0	6.0	15.0	5.5	7.5	15
	–	○	○	○	○	○	○
	○	○	○	○	–	–	–
	○	○	○	○	–	–	–
	●	●	●	●	–	–	–
	–	○	○	○	○	○	○
	–	○	○	○	○	○	○
	–	–	–	–	–	●	●
	●	●	●	●	●	–	–
	–	○	○	○	○	○	○
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●

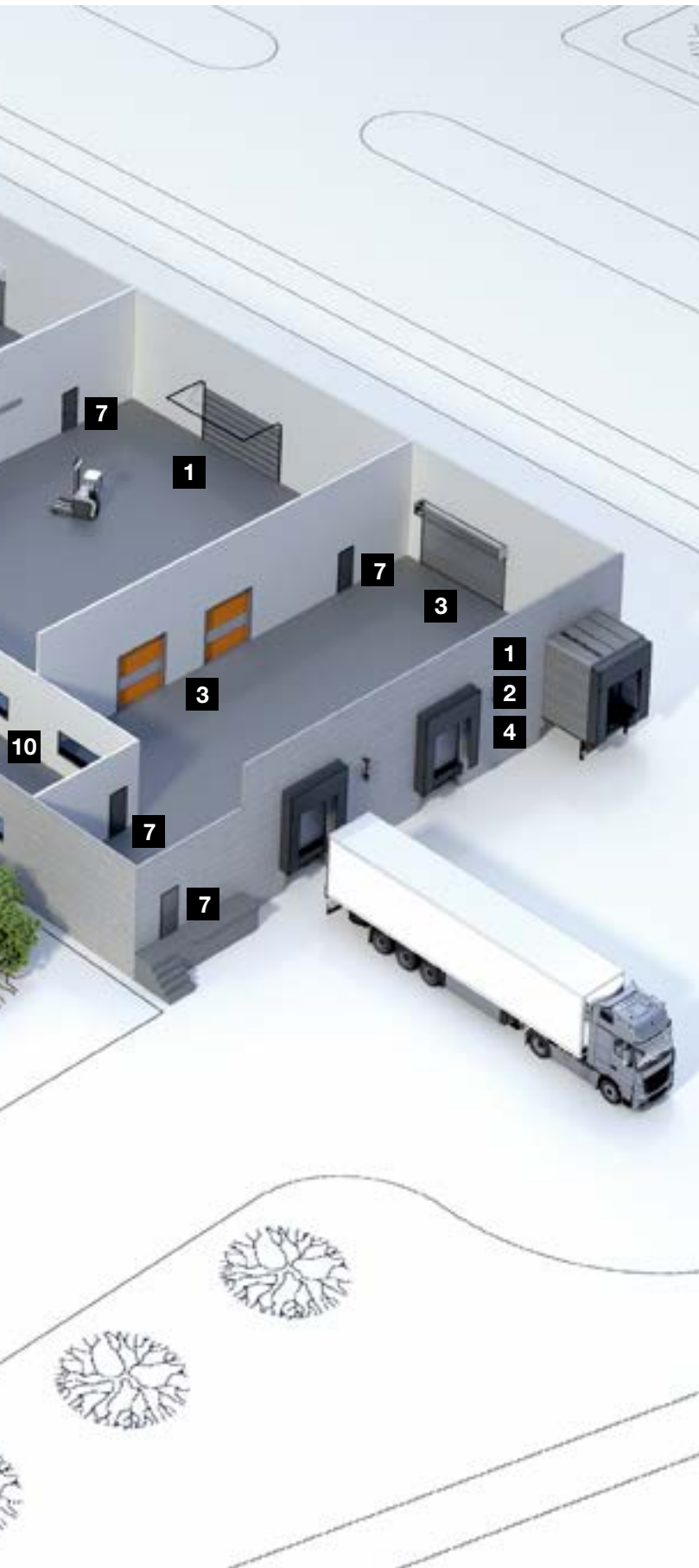
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