



High Performance Doors

Designed for those with high expectations.





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Brand Quality from Hörmann Flexon
Reliable and progressive



Hörmann Flexon LLC, Pittsburgh, Pennsylvania, is dedicated to innovation, quality and customer service. German engineered doors incorporate proven, state-of-the-art technology, at work every day with over 200,000 doors installed worldwide. Our customers can expect an impressive value for their investment.

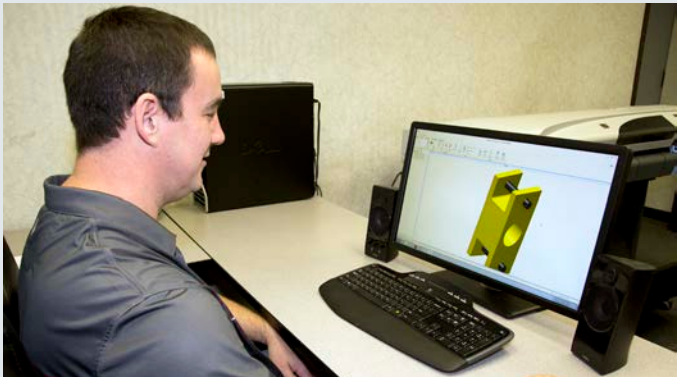
Carefully designed and manufactured products, quality workmanship and great attention to detail, are what separate us from the rest and make our door systems sound investments.



5 & 2 Warranty
Our exclusive 5 & 2 Warranty is our promise as a manufacturer that you can trust our products to be there for many years to come.



Replacement parts for doors, operators and controls are original Hörmann Flexon parts that come with a guaranteed availability of 10 years.



High-speed progress

Our cutting-edge research and development department focuses on progressive ways to continually improve the safety and efficiency of our products, ultimately delivering the high performance doors customers want.



Precise production

Innovative production areas that have been matched perfectly with each other are a guarantee for steadily increasing product quality. Our 5S visual management program supports company-wide integration of workplace organization and standardization which makes it possible to provide the quickest lead times in the industry.



Competent advice

Experienced representatives within our customer-oriented sales group assist you through every step of the project; from the planning stage, through answering technical questions up to the project completion and beyond. Complete product documentation is always accessible and up-to-date at www.hormann-flexon.com.



Reliable field support

Our technical and field support department is available 365 days a year, seven days a week, which means that we are never far away. This is a major advantage in terms of controlling downtime, maintenance and repairs.

The SC 1200 Dock-Master / Screen-Master®

Economical solution for loading dock door openings, dumpster doorways and platform docks

Innovative Technology and Design

In every detail



The SC 1200 Dock-Master / Screen-Master® has a durable panel construction and is intended for low-frequency use. Designed to be raised and lowered with a constant pressure push button at a speed of 14” per second, it is perfect for door openings where overhead and sectional doors are installed.

Simple design for no-frills applications

The basic non-timer control box. Doors up to 10’0” w x 10’0” h have a 110 v / 1 phase power requirement, and doors over 10’0” w x 10’0” h have a 230 v / 3 phase power requirement. Standard operation is hold to open / hold to close, and when automatic closing is required, an optional built-in light grid is included. A compact, direct-drive motor is maintenance free.



Non-timer control box.

Light grid available for added protection

An optional light grid is completely free of coil cords and provides a thorough wall of protection for personnel and equipment in the doorway, as compared to other doors that use only photocells. The light grid also eliminates the need for a panel reversing edge, which is typically vulnerable to damage, resulting in a reduction in maintenance and downtime. Full perimeter draft seals reinforce environmental control.



Optional light grid.

Optional screen panels for ventilation

The Dock-Master / Screen-Master® comes in a sectional panel design. The panels are connected using aluminum profiles which allows for fast panel replacement when required. A high strength, polyester screen material can be interchanged with the solid panels in order to provide ventilation during the warmer months. This panel can be easily interchanged without special tools and is the solution to help prevent airborne contaminants such as birds and insects from entering the building.



Optional screen panel.



Application	Exterior or interior.	
Size range	Dock-Master: Exterior up to 10’0“ w x 10’0“ h. Interior up to 14’0“ w x 14’0“ h. Screen-Master®: Up to 14’0“ w x 14’0“ h.	
Operating speed	Opening Up to 14“ / sec. (.36 m / sec.)	Closing 14“ / sec. (.36 m /sec.)
Breakaway	Yes.	
Panel	Exterior doors: High-tear, anti-static, puncture resistant, nylon-reinforced PVC material 1/16“ thick (1.6 mm). Colors: Blue or black. Interior doors: 58 oz./sq. yd. reinforced PVC. Colors (RAL): 1018 yellow, 2004 orange, 3002 red, 5010 blue, 7038 grey. Vision: Full-width x 36“ high, clear PVC, starting at approximately 52“ from the floor. Optional: 10 oz. / sq. yd. vinyl coated polyester weave screen material. Thread count: 17 x 11. Colors: Royal blue or black.	
Safety device	Optional: Light grid built into guide tracks up to 8’0“ high.	
Control	Up to 10’0“ w x 10’0“ h: Non-timer 110 v / 1 phase. Over 10’0“ w x 10’0“ h: Non-timer 230 v / 3 phase.	
Emergency	Crank handle.	
Roll tube	6-1/4“ (159 mm).	
Panel stabilization	Aluminum hinge profiles.	

Proven and tested features

With an operating speed of up to 14” per second up and down, the Dock-Master / Screen-Master® is well suited for interior door openings up to 14’0” wide x 14’0” high and is equipped with 58 oz. / sq. yard reinforced PVC panels materials. Colors: Orange, blue, yellow, red and gray. For exterior door openings up to 10’0” wide x 10’0” high, panels are made of a heavier weight material available in black or blue. When equipped with screen panels, maximum size is 14’0” wide x 14’0” high.



Flexible high performance, high-speed doors from Hörmann Flexon have been designed with protection features that promote efficiency and sustainability. A standard built-in light grid eliminates the need for additional protection mechanisms, such as a panel reversing edge, making the door easy to install and maintain.



SoftEdge bottom profile with integrated wireless breakaway switch.

Non-contact protection

The standard built-in light grid monitors the closing zone of the door up to a height of 8'0". A panel reversing edge is not required, and since the light grid is built into the guide tracks, the risk of damage from a collision is greatly minimized. These advantages are why Hörmann Flexon high-speed doors are especially easy to install and maintain.

Smooth starts and stops for a longer service life and increased efficiency

At Hörmann Flexon, all high-speed doors come with an HFCB frequency converter control box as standard (optional: HFC1 or Smart Start™ HFC1) – for fast, low wear and tear door operation. Fast opening and closing speeds help to optimize operations and reduce heating / air conditioning losses in the workplace. In addition, little maintenance is needed due to the smooth starting and braking action which considerably extends the service life of the door.

No downtime 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 bottom profiles, are unnecessary. SoftEdge ensures trouble-free operation and production processes. (Models SEL, Cool-Master and Food-Master.)

Wireless breakaway switch (patent pending)
// NEW

The wireless breakaway switch is concealed in the SoftEdge bottom profile. If the bottom profile is pushed out of the side guides by a crash, the radio crash switch transmits a signal to the control and the door is stopped immediately. Thanks to this technology, the door can be operated for at least up to 3 years without the need for maintenance, regardless of the number of door cycles. (Models SEL, Cool-Master and Food-Master.)

SC 1400 SEL and SC 1400 MP
Interior door with SoftEdge and self-repairing system



For manufacturing, commercial buildings and general industry
Storage shelves, wiring and cramped installation surfaces often require a door with a small footprint. The low-profile guide tracks and compact motor provide the optimum solution.

Fully equipped
The sectional panel design consists of panels connected with aluminum profiles which have specially designed edges that allow the panels to slide easily into the profiles for fast replacement.



Sectional panel design allows for fast panel replacement.

The HFCB control box is hardwired and standard with 230 v / 1 phase / 3 phase output power, for an opening speed up to 80" per second. When UL / CUL approval is required, the HFC1 3 phase, hard-wired or Smart Start™ HFC1 3 phase control boxes are options. Twin track rollers are available for a faster opening speed of up to 100" / second.



The SC 1400 MP machine protection door can be integrated with existing PLC systems.

Machine protection door
The SC 1400 MP door separates equipment from work areas for protection of personnel. Class 4 safety switches signal that the door is verified closed.

Table with 3 columns: Application, Size range, Operating speed, Breakaway Panel, Safety device, Control, Emergency, Roll tube, Panel stabilization. It details specifications for the SC 1400 SEL and SC 1400 MP doors, including dimensions, speeds, materials, and safety features.

SC 1400 SEL Clean-Master 20 Pa
Interior door for clean rooms



Tight sealing and fast operation
The Clean-Master 20 Pa tightly seals door openings to prevent air movement, and the fast opening speed of up to 80" per second greatly increases protection from contamination between two areas. The standard panel has horizontal aluminum profiles. A one-piece welded panel / vision area is optional.

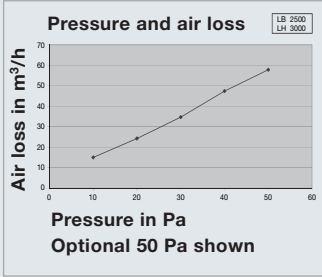
Low-profile steel guide tracks are free from moving parts, promoting a pure environment. Stainless steel guide tracks are available.

The HFCB control box is hardwired and standard with 230 v / 1 phase / 3 phase output power, for an opening speed up to 80" per second. When UL / CUL approval is required, the HFC1 3 phase, hard-wired or Smart Start™ HFC1 3 phase control boxes are options. For a faster opening speed of up to 100" / second, twin track rollers are available.

An 8'0" high light grid is standard and built into the guide tracks. Free of coil cords, the light grid provides a wall of protection for personnel and equipment in the doorway, as compared to other doors that use only photocells. It also eliminates the need for a panel reversing edge, which is vulnerable to damage, resulting in a reduction in maintenance.



Optional emergency battery pack. When the battery is low, an alarm sounds indicating the need for replacement.



The standard Clean-Master is rated 20 Pa. An optional 50 Pa rated door is available.

Table with 3 columns: Application, Size range, Operating speed, Breakaway Panel, Safety device, Control, Emergency, Roll tube, Panel stabilization. It details specifications for the SC 1400 SEL Clean-Master 20 Pa door, including dimensions, speeds, materials, and safety features.

SC 1400 SEL Cool-Master

Interior door for coolers in fresh food, beverage and medical



Energy control and efficiency
This door is ideal for energy conscious, 24/7/365 applications in agricultural, medical and cold storage facilities. An advanced 3 mm thick gray foam panel material maintains flexibility in areas over +33° F and helps keep condensation to a minimum in cooler to ambient areas. A unique sectional panel design allows for easy panel replacement for minimal downtime.



3 mm foam panel supports energy savings.

Only basic power requirements are required with the HFCB control box which is hardwired and standard with a 230 v 1 phase / 3 phase output. An optional emergency battery pack is available with doors that have our 230 v 1 phase HFCB control box. Optional are both the HFC1 3 phase, hardwired control box and the Smart Start™ HFC1 3 phase control box when UL / CUL approval and ultimate speed is needed.



Single phase connection accommodates standard power sources.

An 8'0" high light grid is standard and built into the guide tracks. Free of coil cords, it provides a wall of protection for personnel and equipment in the doorway, as compared to other doors that use only photocells. The panel reversing edge is eliminated, reducing maintenance and downtime.

Application	Interior.	
Size range	Up to 14'0" w x 16'0" h	
Operating speed	Opening Up to 80" / sec. (2 m / sec.)	Closing 30" / sec. (0.8 m /sec.)
Breakaway	Yes	
Panel	Anti-static, reinforced material 1/8" thick (3 mm). Color RAL: 7038 grey. Vision: Full-width x 36" PVC, starting at +/- 52" from the floor.	
Safety device	Light grid built into guide tracks up to 8'0" high.	
Control	Standard: HFCB control box 230 v / 1 phase. Optional: HFC1 3 phase, hardwired or Smart Start™ HFC1.	
Emergency	Crank handle. Optional: Emergency battery pack automatically opens the door once. When the battery is low, an alarm sounds. Only available with doors equipped with our 230 v / 1 phase HFCB control box.	
Roll tube	6-1/4" (159 mm).	
Panel stabilization	Lightweight aluminum wind bars.	

SC 1400 SEL Food-Master

Interior door for food processing



Stainless steel construction is ideal for the food industry
The Food-Master design allows the selection of the stainless steel options the application requires. Able to conform with all industry requirements, the following are available in stainless steel, making it possible to build a Food-Master door without paying for unnecessary options: Roll tube / hollow shaft, motor cover, guide tracks, control box and all hardware.



Stainless options meet all requirements.

Two effective panel materials are available. The standard is a 40 oz./sq. yard white nylon-reinforced, PVC, perfect for basic applications. An optional 90 oz./sq. yard 100 percent FDA approved white polyurethane panel material is available for optimum FDA compliance. A vision area is unavailable with the 90 oz. material to maintain FDA acceptance. With either material, the panel maintains stability via spring steel stiffeners located in completely sealed panel pockets.

An 8'0" high light grid is standard and built into the guide tracks. Free of coil cords, the light grid provides a thorough wall of protection for personnel and equipment in the doorway, as compared to other doors that use only photocells. The panel reversing edge is eliminated, reducing maintenance and downtime.



Built-in light grid remains effective after wash-down.

Application	Interior or exterior.	
Size range	Up to 14'0" w x 16'0" h Up to 12'0" w x 14'0" h (90 oz. panel)	
Operating speed	Opening Up to 80" / sec. (2 m / sec.)	Closing 30" / sec. (0.8 m /sec.)
Breakaway	Yes.	
Panel	Standard: 40 oz. / sq. yd. reinforced, puncture resistant material. Optional: 90 oz. / sq. yd 100 percent FDA approved polyurethane. Color: White. Optional vision: Full-width x 36" PVC, starting at +/- 52" from the floor, available only with the 40 oz. material.	
Safety device	Light grid built into guide tracks up to 8'0" high.	
Control	Standard: HFCB control box 230 v / 1 phase. Optional: HFC1 3 phase, hardwired or Smart Start™ HFC1.	
Emergency	Crank handle. Optional: Emergency battery pack automatically opens the door once. When the battery is low, an alarm sounds. Only available with doors equipped with our 230 v / 1 phase HFCB control box.	
Roll tube	6-1/4" (159 mm).	
Panel stabilization	Spring steel stiffeners located in sealed panel pockets.	



The legendary Speed-Master® Series by Hörmann Flexon has been installed in demanding manufacturing and industrial applications for over 30 years. The rugged sectional panel, compact footprint and direct-drive motor contribute to the operational simplicity and reliable performance the Speed-Master® is known for.



Non-contact protection

The standard built-in light grid monitors the closing zone of the door up to a height of 8'0". A panel reversing edge is not required, and since the light grid is built into the guide tracks, the risk of damage from a collision is greatly minimized. These advantages are why Hörmann Flexon high-speed doors are especially easy to install and maintain.



Sectional panel with puncture resistant fabric

Patented, interlocking aluminum hinges act as integral windbars creating a sectional panel design. Sliding apart the panels without removing the entire roll assembly allows for inexpensive replacement, and a full-width vision area provides unobstructed viewing. The ultra tough, reinforced 1/8" thick (90 oz. / sq. yd.) Bulldog XT panel material is puncture resistant and warranted against defects in workmanship for five years.



Cable and spring free design minimizes maintenance

All Speed-Master® models are cable and spring free. The absence of moving parts within the guide tracks means that there is no complicated re-set procedure if the door is hit, and maintenance costs are drastically reduced.

**Summer / winter panel
// EXCLUSIVE**

The summer / winter panel is an option when insect control is desired without compromising ventilation and traffic flow. Our Screen-Master® mesh material can be interchanged with the solid Bulldog XT panels during warmer months and vice versa during cooler times of the year.



Summer / winter panel allows our Screen-Master® mesh material to be interchanged with the standard solid panels during warmer months.

Speed-Master® 1600 L Eco

Interior and exterior up to 12’0” w x 12’0” h



Economical design
Speed-Master® 1600 L Eco is perfect for high use interior or exterior door openings up to 12’0” x 12’0” and is equipped with heavy duty 12 gauge hot-dipped galvanized steel guide tracks and a standard built-in light grid. The front covers open for ease in re-setting the door when required. The low-profile track dimensions of 7-1/4” wide x 4-1/2” projection enable the Eco to fit into areas with limited space.

The Eco’s panel is constructed of 58 oz./sq. yd., anti-static, puncture resistant, reinforced PVC material, a full-width PVC vision area, and two panel stiffeners located above and below the vision area to provide stability. A variety of panel colors are available to accommodate any color scheme.

The standard HFCB 1 phase control box accommodates an optional emergency battery pack. If power is lost to the door, the emergency battery pack automatically opens the door once to allow personnel to quickly exit the area. This low maintenance design is free of springs, counterbalance systems and other high maintenance parts that are typically required for emergency opening. When the battery is low, an alarm sounds to signal time for a replacement.



Optional emergency battery pack automatically opens the door during a power failure.



The 58 oz. panel material is available in a variety of colors.

Application	Interior.	
Size range	Up to 12’0“ w x 12’0“ h	
Operating speed	Opening	Closing
	Up to 60“ / sec. (1.5 m / sec.)	30“ / sec. (0.8 m /sec.)
Breakaway	Yes.	
Panel	Anti-static, puncture resistant, reinforced material 1/16“ thick (1.6 mm). Weight: 58 oz./sq. yd. Colors RAL: 1018 yellow, 2004 orange, 3002 red, 5010 blue, 7038 grey. Vision: Two (2) Full-width x +/-35“ high total, PVC, starting at +/- 40“ from the floor.	
Safety device	Light grid built into guide tracks up to 8’0“ high.	
Control	HFCB control box with a 230 v / 1 phase.	
Emergency	Chain hoist.	
	Optional: Emergency battery pack automatically opens the door once. When the battery is low, an alarm sounds. This option is only available with doors that are equipped with our 230 v / 1 phase HFCB control box.	
Roll tube	6“ (159 mm).	
Panel stabilization	Aluminum hinge profiles.	

Speed-Master® 1600 L and 1600 MP

Interior and exterior door openings up to 14’0” w x 16’0” h



Technologically advanced
The Speed-Master® 1600 L is commonly installed in applications such as automotive retail, breweries, airports, beverage and general industry. The standard 8’0” high grid is built into the guide tracks and provides a wall of protection for personnel and equipment at the doorway, as compared to other doors that use only photocells. The heavy duty 12 gauge hot-dipped galvanized steel guide tracks open for ease in re-setting the door when required. Low-profile track dimensions of 7-1/4” wide x 4-1/2” projection enable the 1600 L to fit into most areas.

For doors up to 10’0” wide x 10’0” high, the hardwired HFCB control box is standard with a 230 v / 1 phase / 3 phase output power requirement. For doors over 10’0” wide x 10’0” high, the 230 v or 460v / 3 phase / UL / CUL control box is standard. Optional for all sizes are the HFC1 3 phase, hardwired control box and the proven Smart Start™ HFC1 3 phase UL / CUL control box.

Machine protection door
The 1600 MP door separates equipment from work areas for personnel protection. Class 4 safety switches signal that the door is verified closed.



Standard HFCB 1 phase control box accommodates standard power sources.



A safety switch on model 1600 MP signals that the door is verified closed.

Application	Interior and exterior.	
Size range	1600 L up to 14’0“ w x 16’0“ h 1600 MP up to 10’0“ w x 10’0“h	
Operating speed	Opening	Closing
	Up to 60“ / sec. (1.5 m / sec.)	30“ / sec. (0.8 m /sec.)
Breakaway	Yes.	
Panel	1/8“ thick (3.18 mm) Bulldog XT. Weight: 90 oz./sq. yd. Colors: Black, blue, orange, grey. Vision: Two (2) Full-width x +/-35“ high total, PVC, starting at +/- 40“ from the floor.	
Safety device	Light grid built into guide tracks up to 8’0“ high.	
Control 1600 L	For doors up to 10’0” wide x 10’0” high: HFCB control box with 230 v / 1 phase. For doors over 10’0“ wide x 10’0“ high: 230 v or 460 v / 3 phase UL / CUL listed. For all sizes, the optional Smart Start™ HFC1 or HFC1 hardwired box is available.	
1600 MP	Includes class 4 safety switches.	
Emergency	Chain hoist. Optional: Emergency battery pack automatically opens the door once. When the battery is low, an alarm sounds. Only available with doors equipped with our 230 v / 1 phase HFCB control box.	
Roll tube	6“ (159 mm).	
Panel stabilization	Aluminum hinge profiles.	

Speed-Master® 2600 L
Interior and exterior up to 24'0" w x 24'0" h



Ideal for demanding applications
Industries such as manufacturing, paper mills, steel plants, airports, distribution and transit, that have high cycle door requirements, will benefit from the reliable design of the 2600 L. Zero moving parts within the guide tracks and direct-drive motor, support minimal maintenance.

A hardwired UL / CUL control box with a 230 v or 460 v / 3-phase power requirement is standard. The optional Smart Start™ HFC1 3-phase control box is UL / CUL approved.

Low-profile guide tracks fit into tight spaces. Heavy duty, galvanized steel guide tracks are removable and open for ease in re-setting the door when required. The low-profile dimensions of 9-1/4" wide x 7" projection enable the 2600 L to fit into tight spaces.

Built-in light grid for added protection
The standard light grid is built into the guide tracks up to 8'0" high. Completely free of coil cords, the light grid provides a thorough wall of protection for personnel and equipment in the doorway, as compared to other doors that use only photocells.



Optional Smart Start™ HFC1 is CUL / UL approved.



Built-in light grid protects personnel and equipment in the doorway.

Application	Interior and exterior.	
Size range	Up to 24'0" w x 24'0" h or 400 sq. ft.	
Operating speed	Opening Up to 36" / sec. (0.9 m / sec.)	Closing 30" / sec. (0.8 m /sec.)
Breakaway Panel	Yes. 1/8" thick (3.18 mm) Bulldog XT. Weight: 90 oz. /sq. yd. Colors: Black, blue, orange, gray. Vision: Two (2) Full-width x +/-35" high total, PVC, starting at +/- 40" from the floor.	
Safety device	Light grid built into guide tracks up to 8'0" high.	
Control	Standard: Hardwired control box with a 230 v or 460 v / 3 phase power requirement. (230 v step up transformer included.) Optional: Smart Start™ HFC1.	
Emergency Roll tube	Chain hoist. 6-1/4" (159 mm).	
Panel stabilization	Aluminum hinge profiles.	

Custom panel prints
Customize your door with custom panel prints. Logos, pictures and text may be digitally printed onto our door panels. The images are durable, UV treated and waterproof. Maximum image size is 7'0" wide x 3'0" high.

Speed-Master® 4600 and Rubber Doors
Extra large interior and exterior openings
4600 up to 33'0" w x 30'0" h / Rubber doors up to 40'0" w x 30'0" h



Extreme industrial locations
The rugged and dependable design of the Speed-Master® 4600 and the Rubber door models make them ideal for demanding applications like waste management, mining and many others.

Speed-Master® 4600
The Speed-Master® 4600 is constructed of a sectional panel design with Bulldog XT PVC panels connected with anodized aluminum interlocking hinges. A direct-drive motor and HFC1 3 phase, hardwired control box are standard. Low-profile guide tracks contain a sophisticated energy chain which allows for automatic reversal of the panel and eliminates the use of a coil cord.

Rubber models
The SBR (styrene-butadiene rubber) reinforced material is composed of two layers for a total thickness of 1/4". This maintenance free material provides superior panel strength and durability, maintaining performance from -40° to 180° F. The robust panel along with 1/2" thick windlocks keep the panel in place with wind pressure up to 88 mph. Heavy-duty structural steel guide tracks are low-profile, occupying only 4" on each side of the door opening. The tracks contain a smooth windlock edge which eliminates the need for panel breakaway tabs, simplifying panel re-insertion if necessary. See page 37 for models and specifications.



Large door openings at industrial locations.



Speed-Master® 4600 only: The lightweight energy chain has a quiet operation and eliminates the need for a coil cord.

Application	Interior and exterior.
Size range	Speed-Master® 4600: Up to 33'0" w x 30'0" h or 690 sq. ft. Rubber models: Up to 40'0" w x 30'0" h.
Operating speed	See pages 36 and 37 for details.
Breakaway	Yes.
Panel Speed-Master® 4600	1/8" thick (3.18 mm) Bulldog XT Weight: 90 oz./sq. yd. Colors: Black, blue, orange, gray. Vision: Two (2) Full-width x +/-35" high total, PVC, starting at +/- 40" from the floor.
Rubber	1/4" thick (6.35 mm) SBR (styrene butyl rubber). Color: Black. Vision: Optional - Two 10" w x 18" h windows.
Safety device Speed-Master® 4600	Energy chain.
Rubber	Photocells
Control Speed-Master® 4600	Standard: Hardwired control box 230 or 460 v / 3 phase. (230 v step up transformer included.) Optional: Smart Start™ HFC1.
Rubber	Model RE: GHC Series Models RS and RD: GFA direct-drive.
Emergency	Chain hoist.

The Speed-Guardian™ 4000

A cutting edge door system that provides maximum insulation and ultimate operating speed



The Speed-Guardian™ 4000 high speed security door is characterized by an elegant Micrograin surface finish with hot-galvanized, double-skinned steel sections providing excellent thermal insulation and fast opening speeds thanks to non-contact roll-up technology and a standard built-in light grid.

Innovative Technology and Design

In every detail



Non-contact roll-up technology

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

Highly insulated panel sections

The 1-5/8” thick door panel made of hot-dipped galvanized steel, provides a durable and lasting surface. A urethane core with an R-value of 13.6 and U-value ≤ 0.5 (U-value of core) provides optimal insulation, reduces loss of conditioned air and contributes to energy savings. Synthetic panel connectors, though independent of the panel strength, have been quality tested and subjected to hundreds of thousands of cycles and provide an extremely smooth and quiet door operation.



External view with Micrograin surface



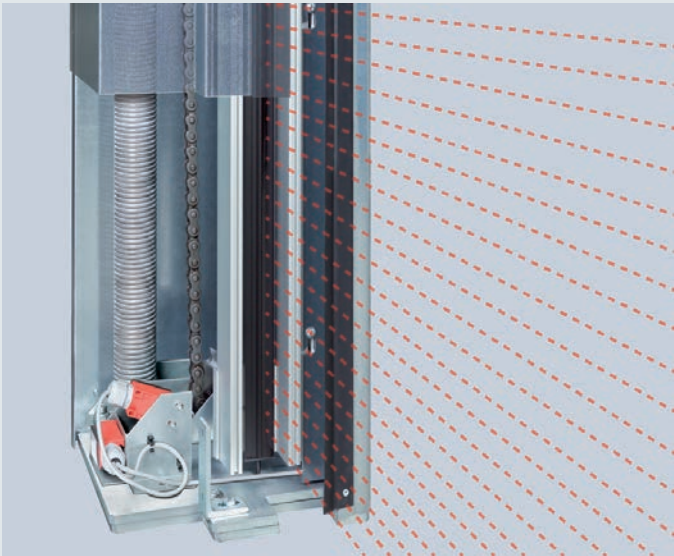
External view of Duratec® coating

Duratec® insulated windows

The Duratec® insulated windows are coated with a special finish which prevents marks and scratches caused by cleaning, and retain clear view after many cleanings. The synthetic double panes provide excellent thermal insulation while being fully transparent. A complete vision (CV) panel is available and designed for the pleasing aesthetic appeal some applications require.

Non-contact built-in light grid

The standard light grid is integral with the guide tracks making it less susceptible to damage by passing loads and eliminates the need for additional protection devices such as a reversing edge and photocell. This system enhances protection of personnel and goods and drastically reduces the likelihood of damage and repair to other parts of the door, saving on maintenance costs when used in conjunction with motion or presence detectors.



Speed-Guardian™ 4000

For industry, condominiums, parking garages and more



Superior R-Value and U-Value
The 1-5/8” thick panel sections made of hot-dipped galvanized steel with a urethane foam core, have an R-value of 13.6. R-value refers just to the panel’s resistance to energy loss. U-value is an internationally recognized measurement tool that provides data about the energy flow lost through the total panel construction including the panel, seals, windows, etc. The 4000’s solid sections provide the most efficient U-value available today (≤ 0.5 core only) as compared to competitive models.




Panel connectors allow for quick repairs.

Easy to repair
In case of damage, unique panel connectors make it possible for individual sections to be quickly and easily replaced. This design minimizes maintenance, downtime and repair costs.



Double-wall ventilation slats allow ventilation without compromising security.

Optional ventilation slats
Exclusive double-wall aluminum ventilation slats are a desirable choice when ventilation is required, without sacrificing security. Parking garages and condominiums are ideal locations for a 4000 with ventilation slats.

Application	Interior or exterior.	
Size range	Up to 22’0” w x 20’0” h	
Roll-up technology	Circular guide brackets.	
Operating speed	Opening Up to 80” / sec. (2.0 m / sec.)	Closing Up to 18” / sec. (0.5 m /sec.)
Breakaway	No.	
Panel	<div>1-5/8” (42 mm) thick panel sections made of hot-dipped galvanized steel with a urethane foam core and R-value of 13.6 (U-value ≤ 0.5).</div> <div>All colors on RAL chart available</div> <div>Standard color: RAL 9006 White Aluminum on both the exterior / interior. Exterior surface is Micrograin™, the interior finish is stucco-textured.</div> <div>Colors: Optional wet paint process available. Dark colors not recommended for doors that will be exposed to direct sun. Powder coating is unavailable.</div> <div>Vision: Optional vision sections, 7” high x full-width, double pane. A Duratec® synthetic glazing enables the windows to retain clear view even after many cleanings and with heavy use. Perforated vision slats are also available.</div>	
Safety device	8’0” high light grid built into guide tracks.	
Control	HFC1 hardwired. Optional: Smart Start™ HFC1.	
Emergency	Chain hoist.	

Speed-Guardian™ 4000 CV and LH Models

For automotive retail and limited clearance applications



Perfect for applications that demand aesthetic appeal
Its sleek appearance is one reason why the Speed-Guardian™ 4000 is a number one choice for service doors at automotive retail locations. Employees working in the area of the door opening will appreciate its thermal qualities and fast operating speed.




Low headroom (LH) model fits into applications with limited headroom.

Low headroom (LH) model fits into areas with limited headroom
Requiring only 20” of clearance, the LH model fits into applications where there is limited headroom.

Complete vision (CV) model
The CV model is a complete panel of vision slats that allows more light into the building and more visibility from inside to outside. The attractive design is a popular choice of automotive retail facilities for its aesthetic appeal and security.



Complete vision (CV) model popular choice of automotive retail facilities.

Application	Interior or exterior.	
Size range	Up to 22’0” w x 20’0” h LH: 20’0” w x 16’0” h CV: Consult factory.	
Roll-up technology	LH: Low headroom horizontal track assembly. CV: Circular guide brackets or LH track.	
Operating speed	Opening Up to 80” / sec. (2.0 m / sec.)	Closing Up to 18” / sec. (0.5 m /sec.)
Breakaway	No.	
Panel	<div>Model LH: 1-5/8” (42 mm) thick panel sections made of hot-dipped galvanized steel with a urethane foam core and R-value of 13.6 (U-value ≤ 0.5).</div> <div>All colors on RAL chart available</div> <div>Standard color: RAL 9006 White Aluminum on both the exterior / interior. The exterior surface is Micrograin™, the interior finish is stucco-textured.</div> <div>Colors: Optional wet paint process available. Dark colors not recommended for doors that will be exposed to direct sun. Powder coating is unavailable.</div> <div>Vision options: 7” high x full-width, double pane. A Duratec® synthetic glazing enables the windows to retain clear view after many cleanings. Perforated vision slats.</div> <div>Model CV: All clear slats, 7” high x full-width. Top and bottom slats are 1-5/8” thick hot-dipped galvanized steel with urethane core.</div>	
Safety device	8’0” high light grid built into guide tracks.	
Control	HFC1 hardwired. Optional: Smart Start™ HFC1.	
Emergency	Chain hoist.	

Screen-Master® Insect Control Barriers

A practical, clean and easy method of keeping out insects and birds without chemicals



The original insect control barrier

In 1993, we began manufacturing the Screen-Master® insect control barrier line, and in 1994, the Screen-Master® won the Plant Engineering Product of the Year award.

Many customers have installed the Screen-Master® in order to improve quality standards, and help with achieving compliance with Good Manufacturing Practices (GMP) and American Institute of Baking (AIB) certification.

SC 100 Automatic Roll-Up Insect Control Barrier

For door openings up to 10'0" w x 14'10" h



Automatic roll-up operation
The Screen-Master® SC 100 offers the convenience of automatic roll-up operation. A 110 volt UL-rated tubular motor opens and closes the door with the touch of a constant contact UL-rated two-position rocker switch.

Sturdy construction
The SC 100 is made for use in low to moderate wind conditions. Full-width 3/4" fiberglass rod wind stabilizer profiles located inside safety orange vinyl pockets, provide panel stability and prevent the door from blowing out. During high winds, we recommend keeping the Screen-Master® in the fully open position.

Fits into any application
Mounting under the lintel and between the door jambs, the low-profile, galvanized steel guide tracks occupy only a minimal amount of space within the door opening which allows the SC 100 to fit into any application. Safety orange PVC inserts are included for added visibility.



Wind stabilizer profiles prevent the door from blowing out.



Low-profile guide tracks simplify installation. (Face-of-wall mount shown.)

Application	Exterior or interior.	
Size range	Up to 10'0" w x 14'10" h	
Operating speed	Opening	Closing
	Up to 12" / sec. (0.3 m / sec.)	12" / sec. (0.3 m /sec.)
Panel	Standard: 10 oz. / sq. yd. vinyl coated polyester weave screen material. Thread count: 17 x 11. Optional: Fine weave material with thread count of 28 x 11. Colors: Royal blue or black. Foam filled bottom draft seal. 12" high, 22 oz. blue vinyl head curtain with aluminum clamp strip.	
Tracks	Under lintel mount (UL). Galvanized steel with 2" low profile projection. Tracks are highlighted with safety orange PVC inserts. Optional: Overhead door stand-off mount with a choice of either sheet metal or screen sides. Face-of-wall mount also optional.	
Control	110 volt UL-rated tubular motor designed for low-cycle use. Activation includes one constant contact UL-rated two-position rocker switch. Push button also available in NEMA 4 for exterior mount.	
Panel stabilization	Full-width reinforcement profiles located in 3" high, safety orange colored vinyl pockets (Orange on interior of curtain only.)	

SC 200 Manual Roll-Up Insect Control Barrier

For loading docks, ground level and dumpster door openings up to 10’0” w x 10’10” h



Spring-loaded manual roll-up design
The SC 200 manual roll-up Screen-Master® operates like a room darkening shade. With a pull on the hand straps, a spring-loaded roll tube easily operates the door. A locking pin slides through the track and screen to hold the barrier closed. When screen protection is not required, the barrier may be rolled up under the lintel in a completely open position.



Extra protection from contaminants.

Improve quality standards
A foam-filled bottom draft seal provides extra protection from unwanted access at the bottom of the door. This kind of design detail contributes to improving quality standards, and helps to achieve compliance with Good Manufacturing Practices (GMP) and American Institute of Baking (AIB) certification.



Versatile mounting options. Standard under lintel mount shown.

Versatile mounting options
Screen-Master® doors are very versatile and accommodate most applications: Under lintel (standard), face-of-wall and overhead door stand-off mount. For narrow openings we recommend face-of-wall or overhead door stand-off mount to minimize potential damage to the screen.

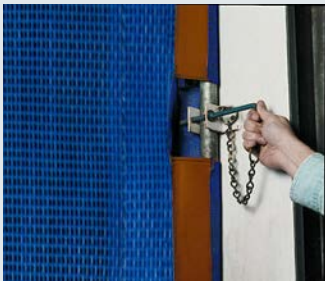
Application	Exterior or interior.
Size range	Up to 10’0“ w x 10’10“ h
Operation	Manual roll-up.
Panel	Standard: 10 oz. / sq. yd. vinyl coated polyester weave screen material. Thread count: 17 x 11. Optional: Fine weave material with thread count of 28 x 11. Colors: Royal blue or black. Foam filled bottom draft seal. 12“ high, 22 oz. blue vinyl head curtain with aluminum clamp strip.
Tracks	Galvanized steel with 2“ low profile projection. Tracks are highlighted with safety orange PVC inserts. Optional: Overhead door stand-off mount with a choice of either sheet metal or screen sides. Face-of-wall mount also optional.
Control	Manual operation via 3“ diameter galvanized steel, spring-loaded roll tube. Panel includes hand straps to allow for easy operation.
Panel stabilization	Full-width reinforcement profiles located in 3“ high, safety orange colored vinyl pockets (on inside face of curtain only).

SC 300 Manual Single Sliding Insect Control Barrier

For dock and pedestrian door openings of unlimited w x 15’0” h



Manual single sliding design provides economical solution
The manual single sliding Screen-Master® was our original barrier design and is an effective solution for door openings too large for our roll-up barriers. The barrier is fixed on one side of the door opening and trolleys attached to the top of the screen slide across the opening in a galvanized steel track that is fixed under the lintel. For convenience of installation, pressure treated 2 x 4 lumber is included: single-sliding barrier, for one jamb and the header. For bi-parting barrier, both jambs and the header.



Jamb locking pin secures the barrier in the closed position.

Floor cane bolts and jamb locking pin secures the barrier
Floor cane bolts and jamb locking pin secure the barrier to the floor and jamb.



Summer / winter panel on high performance door models
The Screen-Master® mesh material may also be used on the Speed-Commander™ 1400 SEL and Speed-Master® models for a summer/winter panel design.

The Screen-Master® mesh material may also be interchanged with the standard solid panels used on Speed-Commander™ and Speed-Master® models.

Application	Exterior or interior.
Size range	Unlimited width x 15’0“ h. Unlimited width achieved by pairing of multiply units. For width and heights over 15’0“ consult factory for more information.
Operation	Manual single sliding.
Panel	Standard: 10 oz. / sq. yd. vinyl coated polyester weave screen material. Thread count: 17 x 11. Optional: Fine weave material with thread count of 28 x 11. Colors: Royal blue or black. Nylon cord tieback straps. Tear-resistant vinyl floor sweep gasket. 12“ high, 22 oz. blue vinyl head curtain with aluminum clamp strip.
Tracks / Mounting	One side of the screen is permanently attached to one of the jambs. Galvanized steel sliding track hardware mounts under the door opening lintel. Optional: Face-of-wall mount. Track and hardware installed on the face of the building.
Panel stabilization	Full-height, 1-1/4“ diameter galvanized steel pipe staffs with integral 5/8“ cane bolt floor locking pins. Pipe staffs are enclosed in high-visibility, safety orange vinyl pockets (on inside face of curtain only).

SC 500 Manual Bi-Parting Sliding Insect Control Barrier

For platform docks and dumpster door openings of unlimited w x 15’0” h

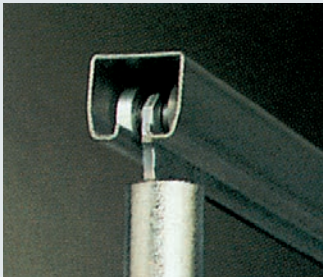


Bi-parting sliding design covers unlimited width

The manual bi-parting sliding Screen-Master® is an effective solution for door openings too large for our roll-up barriers. The barrier is fixed on both sides of the opening and trolleys attached to the top of the screen slide across the opening in a galvanized steel track that is fixed under the lintel. The bi-parting sliding Screen-Master® is commonly used on platform docks to cover a large area of width and makes it possible to conveniently open just a small area if required.

Floor cane bolts prevent unwanted access

Floor cane bolts secure the barrier to the floor and deter unwanted access. When viewed from the outside looking in, the Screen-Master® has an opaque appearance which provides a secure perspective.



Galvanized steel track and trolleys easily open and close the barrier.



Cane bolts secure the barrier to the floor preventing unwanted access.

Application	Exterior or interior.
Size range	Unlimited w x 15’0“ h. Unlimited width achieved by pairing of multiply units. For width and heights over 15’0“ consult factory for more information.
Operation	Manual bi-parting sliding.
Panel	Standard: 10 oz. / sq. yd. vinyl coated polyester weave screen material. Thread count: 17 x 11. Optional: Fine weave material with thread count of 28 x 11. Colors: Royal blue or black. Nylon cord tieback straps. Tear-resistant vinyl floor sweep gasket. 12“ high, 22 oz. blue vinyl head curtain with aluminum clamp strip.
Tracks / Mounting	Both sides of the screen are permanently attached to the jambs. Galvanized steel sliding track hardware mounts under the door opening lintel. Optional: Face-of-wall mount. Track and hardware installed on the face of the building.
Panel stabilization	Full-height, 1-1/4“ diameter galvanized steel pipe staffs with integral 5/8“ cane bolt floor locking pins. Pipe staffs are enclosed in high-visibility, safety orange vinyl pockets (on inside face of curtain only).

SC 800 Automatic Roll-Up Insect Control Barrier

For large ground level door openings up to 14’8” w x 16’0” h



Suited for large door openings where automation is desired.

When automation is a requirement for a large door opening, the SC 800 fits in. A 110 volt, UL-rated tubular motor operates the door at a speed of 12” per second up and down. One constant contact, UL-rated two-position rocker switch is included for activation.

Heavy duty design with bottom breakaway

Modeled after the legendary Speed-Master® door, the SC 800 is constructed of a sectional panel consisting of screen panel sections connected with sturdy aluminum hinges for windload stability. A bottom bar with breakaway tabs offer forgiveness in the case of contact.



Convenience with automatic operation via a UL-rated motor.



Heavy duty aluminum profiles provide stability.

Application	Exterior or interior.	
Size range	Up to 14’8“ w x 16’0“ h	
Operating speed	Opening Up to 12“ / sec. (0.3 m / sec.)	Closing 12“ / sec. (0.3 m /sec.)
Panel	Standard: 10 oz. / sq. yd. vinyl coated polyester weave screen material. Thread count: 17 x 11. Optional: Fine weave material with thread count of 28 x 11. Colors: Royal blue or black. Sectional panel design has three sections with Speed-Master® style aluminum hinges and bottom bar with breakaway tabs. Cushioned bottom edge with adjustable safety yellow vinyl floor loop seal.	
Tracks	Heavy duty galvanized steel with 4“ low-profile projection. Includes anti-friction liner Optional: Overhead door stand-off mount has sheet metal sides. Face-of-wall mount also optional.	
Control	110 volt UL-rated tubular motor designed for low-cycle use. Activation includes one constant contact UL-rated two-position rocker switch. Push button also available in NEMA 4 for exterior mount.	
Panel stabilization	Full-width aluminum hinge profiles.	

Standard at Hörmann Flexon

Intelligent operator and control technology

Reliable thanks to innovative equipment

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

Standard at Hörmann Flexon:

Frequency converter control

A high performance frequency converter control box (HFCB) features 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

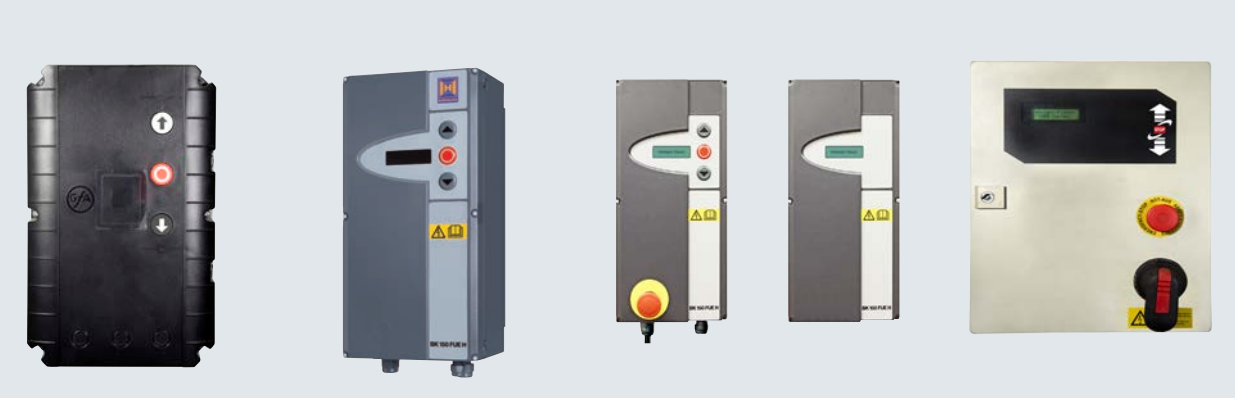
Automatic timer (adjustable hold-open phase)

Error display / diagnosis via a fourfold 7-segment display

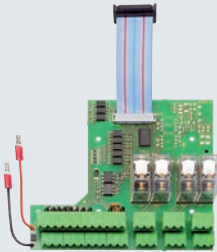
Service operation setting



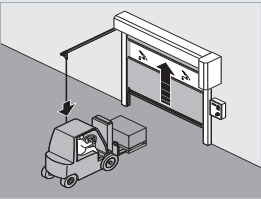
Control boxes



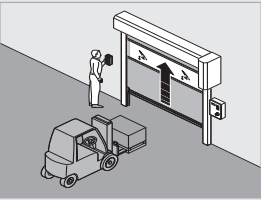
<p>Non-Timer Control box in plastic housing single-phase, 110 V</p> <p>Operation Hold to open / hold to close push button, 1 x 7-segment display for information on door functions</p> <p>Function Optional automatic timer, hold-open phase adjustable by up to 120 sec., Optional built-in light grid</p> <p>Activation Push button</p> <p>Wiring Connecting lead 1~110 V, N, PE, fuse 16 A, slow-acting, plug-in connection between door operator and control cabinet, CEE plug, 3-pin with 36" cable for on-site CEE socket, 16 A</p> <p>Housing dimensions 12" wide x 16" high x 5" deep</p> <p>Compatible door types SC 1200 Dock-Master / Screen-Master®</p>	<p>HFCB Control box in plastic housing single-phase, 230 V</p> <p>Operation Open / Stop / Close membrane push button, 4 x 7-segment display for information on door functions</p> <p>Function Automatic timer, hold-open phase adjustable by up to 120 sec., built-in light grid, stop / reopen</p> <p>Activation Push button, pull cord, radar presence detector, induction loop detector and remote control</p> <p>Extension options Main switch, amber warning light, beacon light, horn, interlocking, stainless steel enclosure</p> <p>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 36" cable for on-site CEE socket, 16 A</p> <p>Housing dimensions 8" wide x 16" high x 7" deep</p>	<p>UPS Emergency Battery Pack Control box in plastic housing single-phase, 230 V</p> <p>Operation Automatic upon loss of power</p> <p>Function Upon loss of power, automatically opens the door once. When battery is low, an alarm sounds signaling time for replacement</p> <p>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 36" cable for on-site CEE socket, 16 A</p> <p>Housing dimensions 8" wide x 16" high x 7" deep</p>	<p>Smart Start™ HFC1 3 phase and HFC1 hardwired Control boxes (Smart Start™ shown above) in steel housing three-phase, 208 to 480 V</p> <p>Operation Open-Stop-Close membrane push button, emergency-off button, 4 x 7-segment display for information on door functions, lockable main switch</p> <p>Function Automatic timer, hold-open phase adjustable by up to 120 sec., built-in light grid, stop / reopen</p> <p>Activation Push button, pull cord, radar presence detector, induction loop detector and remote control</p> <p>Extension options amber warning light, beacon light, horn, interlocking, stainless steel enclosure</p> <p>Wiring Connecting lead 3~460 V, N, PE, fuse 16 A, slow-acting, plug-in connection between door operator and control cabinet, or hardwired</p> <p>Housing dimensions 12" wide x 16" high x 5" deep</p>
<p>Extension PCB for controls:</p> <p>Lock controller, 4 additional switch outputs (2 x 2 volt-free), 8 additional digital inputs</p>	<p>Compatible door types SC 1400 SEL SC 1400 MP SC 1400 Clean-Master 20 Pa SC 1400 Cool-Master SC 1400 Food-Master Speed-Master® 1600 L Eco Speed-Master® 1600L (up to 10 x 10) Speed-Master® 1600 MP</p>	<p>Compatible door types SC 1400 SEL SC 1400 MP SC 1400 Clean-Master 20 Pa SC 1400 Cool-Master SC 1400 Food-Master Speed-Master® 1600 L Eco Speed-Master® 1600L (up to 10 x 10) Speed-Master® 1600 MP</p>	<p>Compatible door types Speed-Guardian™ 4000 (All models)</p> <p>Optional: SC 1400 SEL SC 1400 Clean-Master 20 Pa SC 1400 Cool-Master SC 1400 Food-Master Speed-Master® 1600L (over 10 x 10) Speed-Master® 2600 L Speed-Master® 4600</p>



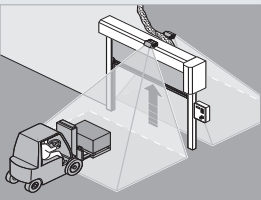
Activation choices



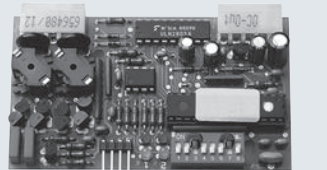
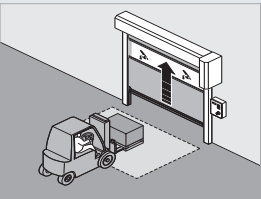
- Pull Cord**
- Nylon cord lanyard & raintight housing.
 - NEMA 4 rated and suitable for heavy duty use.



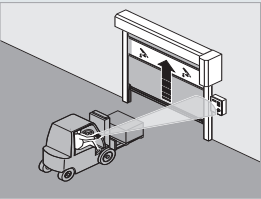
- Push Button**
- Single, double or triple button.
 - NEMA 4 rated.



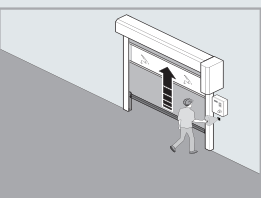
- Finger-Scan**
- Your fingerprint is enough.
 - Available in two versions: The FL 12 for 12 fingerprints or the FL 100 for 100 fingerprints.



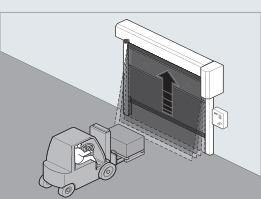
- Radar / Motion Detector**
- Activates when equipment or personnel enter the detection area.
 - Weather-resistant enclosure.
 - Housing protection category IP65 (NEMA 4X).



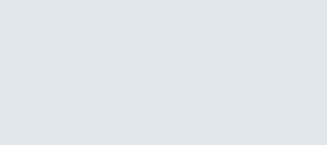
- Induction Loop Detector**
- A loop wire field is installed below the floor's surface and generates a magnetic field sensitive to metal objects.



- Remote Control**
- Effective at a range of up to 60 feet.
 - Transmitters are available to activate up to 27 doors with one transmitter.

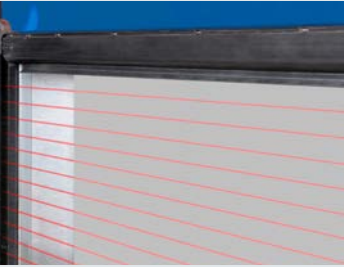


- Touchless Activation Switch**
- Touchless solution for sterile environments such as clean rooms, healthcare facilities and food processing.
 - Sterile alternative to manual activation devices.
 - Surface or flush mountable.
 - Detection zone adjustable from 4 - 24 inches.
 - Water resistant.



- Laser Sensor**
- Pedestrian presence detection for added protection.
 - Time-of-flight measurement.
 - Four laser curtains provide protection across the entire face of the door opening.
 - Maximum detection zone 30'0" x 30'0" with no maximum mounting height.
 - NEMA 4 enclosure.
 - Self-monitoring ready.

Protection devices



- Light Grid**
- Continuous light beams shine across the door opening, from the floor up to 8'0" high, providing added protection of personnel and goods. Built-in light grids are standard on the Speed-Commander™ 1400 SEL (shown on left), Speed-Master® 1600 L and Speed-Guardian™ 4000. Consult the factory when considering the use of a light grid on the other high performance door models.



- Radar Motion Detector and Infrared Presence Detector (Activation and Protection Device)**
- The model HF-MP detects both motion and presence. The HF-MP covers a wide range of applications where pedestrian and motorized traffic patterns co-exist. Recommended for locations with a lot of pedestrian traffic, this device substantially increases safety around the door opening because the door will not close as long as a person or object is present in the door range.



- Amber Warning Light**
- This highly visible warning light has a lightweight plastic housing and turns on three seconds prior to closing until the door is closed. (pre-warning time is up to 60 seconds). The amber warning light is specified when a heightened awareness of traffic patterns is desired.



- Beacon Light**
- The plastic housing contains a highly visible yellow beacon light which lights up and rotates indicating that the door is opening or closing. The beacon light is specified when only a visual reminder of door movement is required.



- Amber Warning Light With Horn**
- The amber warning light with horn may be used when an audible indicator along with a warning light is required.

Ask about special application of activations such as dual height capability and many others. Photos are representative of current designs and are subject to change.

Overview of Door Models

Technical data - Speed-Commander™ 1200 Dock-Master / Screen-Master®

● = Standard ○ = Optional – = Unavailable

	Economy dock door	SC 1200 Dock-Master	
Use	Interior door	●	
	Exterior door	●	
Speed	Opening speed approx. in./sec.	Up to 14	
	Closing speed approx. in./sec.	14	
Protection equipment	Built-in light grid	●	
Resistance to wind load	In closed postion / Up to	35 mph	
Door sizes	Max. width	14'0"	
Interior openings or w/screen	Max. height	14'0"	
Door sizes	Max. width	10'0"	
Exterior openings	Max. height	10'0"	
Clearance requirements (See also the Technical Manual)	Operator side	13-1/2'"	
	Bearing side	8"	
	Lintel	16-1/2"	
	Control box cabinet (W x H xD)	12" x 16" x 5"	
Door construction	Sectional design / low-profile guide tracks / direct-drive motor		●
	Fabric on interior doors	58 oz. / sq. yard reinforced PVC Yellow, orange, red, blue or grey	●
	Fabric on exterior doors	High tear, nylon-reinforced 1/16" thick PVC Blue or black	●
	Vision	Full-width starting at +/- 52" off floor	○
	Aluminum hinge profiles		●
	10 oz. / sq. yd. vinyl coated polyester weave screen material		○
Guide material / surface	Galvanized steel		●
	Brushed stainless steel		○
Operator and control	Connecting voltage		120 v / 1 phase
	110 v / 1 phase		●
	HFCB / 1 phase		–
	Smart Start™ HFC1 / 3 phase		–
	Open-Stop-Close button		●
	E-stop button		●
	Personnel monitoring	Light grid (If selected, timer function included 0-120 seconds Photocell	○
			–
	Door area monitoring	Radar presence detector	–
		Induction loop	–
	Panel reversing edge		–
Electronic limit switch		●	
Emergency opening	Crank handle		●
	Hand chain		–
	Emergency battery pack w/HFCB control 230 v (1-phase)		–

Overview of Door Types

Technical data - Speed-Commander™ SC 1400 SEL

● = Standard ○ = Optional – = Unavailable

	High performance doors for specific industries		SC 1400 SEL	Clean-Master 20 Pa	Cool-Master	Food-Master	SC 1400 MP
Use	Interior door		●	●	●	●	●
	Exterior door		–	–	–	–	–
Speed	Opening speed approx. in./sec.		Up to 80	Up to 80	Up to 80	Up to 80	Up to 80
	Closing speed approx. in./sec.		30	30	30	30	30
Protection equipment	Built-in light grid		●	●	●	●	●
	UPS emergency battery pack		○	○	○	○	○
Resistance to wind load	In closed position / In plant only		Up to 15 mph	Up to 15 mph	Up to 15 mph	Up to 15 mph	Up to 15 mph
Door sizes	Max. width		14'0"	10'0"	14'0"	14'0"	10'0"
	Max. height		16'0"	10'0"	16'0"	16'0"	10'0"
Clearance requirements (Also see the Technical Manual)	Motor side	Standard	14-1/4"	14-1/4"	14-1/4"	14-1/4"	14-1/4"
		Straight hood	16"	16"	16"	16"	16"
		Chamfered hood	16"	16"	16"	16"	16"
	Bearing side	Standard	10-1/2"	10-1/2"	10-1/2"	10-1/2"	10-1/2"
		Straight hood	10"	10"	10"	10"	10"
		Chamfered hood	10"	10"	10"	10"	10"
	Lintel	Standard	18"	18"	18"	18"	18"
		Straight hood	17-1/2"	17-1/2"	17-1/2"	17-1/2"	17-1/2"
		Chamfered hood	25"	25"	25"	25"	25"
	HFCB control / UPS emergency battery pack (W x H x D) in plastic cabinet		8" x 16" x 7"	8" x 16" x 7"	8" x 16" x 7"	8" x 16" x 7"	8" x 16" x 7"
	HFCB control in stainless steel cabinet (W x H x D)		16" x 24" x 8"	16" x 24" x 8"	16" x 24" x 8"	16" x 24" x 8"	16" x 24" x 8"
	HFC1 3 ph hardwired (W x H x D)		12" x 16" x 5"	12" x 16" x 5"	12" x 16" x 5"	12" x 16" x 5"	12" x 16" x 5"
Smart Start™ HFC1 UL / CUL 3 ph (W x H x D)		12" x 16" x 5"	12" x 16" x 5"	12" x 16" x 5"	12" x 16" x 5"	12" x 16" x 5"	
Anti-crash protection	With automatic / manual start-up		Anti-crash	Anti-crash	Anti-crash	Anti-crash	Class 4 safety switch
Door construction	Sectional design / low-profile guide tracks / direct-drive motor		●	●	●	●	●
	Fabric / Vision	1/16" grey, blue, red, orange, yellow / 1/16"	●	●	–	–	●
	Fabric / Vision	3 mm grey foam / 1/16"	–	–	●	–	–
	Fabric / Vision	1 mm white PVC / 1/16"	–	–	–	●	–
	Fabric / Vision	2.03 mm polyurethane / 1/16"	–	–	–	○ Max. door size 12'0" x 12'0"	–
Guide material / surface	Galvanized steel		●	●	●	●	●
	Brushed stainless steel		○	○	○	○	○
Tube / operator cover	Straight		○	○	○	○	○
	30° chamfered (5")		○	○	○	○	○
Operator and control	HFCB control box		●	●	●	●	●
	Connecting voltage (1-phase)		230 v	230 v	230 v	230 v	230 v
	Connecting voltage (3-phase)		230 v or 460 v	230 v or 460 v	230 v or 460 v	230 v or 460 v	230 v or 460 v
	Open-Stop-Close button		●	●	●	●	●
	Protection category	Operator, control	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4
	E-stop button		●	●	●	●	●
	Personnel monitoring	Built-in light grid	●	●	●	●	–
		Photocell	–	–	–	–	–
	Door area monitoring	Radar presence detector	○	○	○	○	○
		Induction loop	○	○	○	○	○
	Timer to close in sec.		0-120	0-120	0-120	0-120	0-120
	Panel reversing edge		–	–	–	–	–
	Electronic limit switch DES		●	●	●	●	●
Emergency opening	Crank handle		●	●	●	●	●
	Chain hoist		○	○	○	○	○
	Counter weight / springs		–/–	–/–	–/–	–/–	–/–
	Emergency battery pack w/HFCB control 230 v (1-phase)		○	○	○	○	○

Overview of Door Types

Technical data - Speed-Master®

● = Standard ○ = Optional – = Unavailable

	Flexible high-speed doors		1600 L Eco	1600 L	1600 MP	2600 L		4600	
Use	Interior door		●	●	●	●		●	●
	Exterior door		●	–	–	●		●	●
Speed	Opening speed approx. in./sec.		Up to 60"	Up to 60"	Up to 60"	Up to 36"		Up to 24"	
	Closing speed approx. in./sec.		30"	30"	30"	30"		24"	
Protection equipment	Built-in light grid		●	●	○	●		–	–
	Panel reversing edge with energy chain		–	–	–	–		●	●
	UPS emergency battery pack		○	○	○	–		–	–
Resistance to wind load	In closed position / Up to		8 psf (60 mph)	8 psf (60 mph)	8 psf (60 mph)	20 psf (88 mph)		20 psf (88 mph)	
Wind lock			–	–	–	–		○	
Door sizes	Max. width		12'0"	14'0"	10'0"	24'0"	Max. 400 sf	33'0"	Max.
	Max. height		12'0"	16'0"	10'0"	24'0"		30'0"	690 sf
Clearance requirements (Also see the Technical Manual)	Operator side	Standard With hood	13-1/4" 16"	13-1/4" 16"	13-1/4" 16"	19-1/2" 21-1/2"		Consult factory	
	Bearing side	Standard With hood	8-1/2" 8-1/2"	8-1/2" 8-1/2"	8-1/2" 8-1/2"	15-1/2" 17-1/2"		Consult factory	
	Lintel	Standard With hood	17-1/4" 18-1/4"	17-1/4" 18-1/4"	17-1/4" 18-1/4"	30-1/2" 38"		Consult factory	
	HFCB control box in plastic cabinet	(W x H x D)	8" x 16" x 7"	8" x 16" x 7" (up to 10 x 10)	8" x 16" x 7"	–		–	
	HFC1 3 ph hardwired	(W x H x D)	–	12" x 16" x 5" ○	–	12" x 16" x 5" ●		12" x 16" x 5" ●	
	Smart Start™ HFC1 UL / CUL 3 ph		–	12" x 16" x 5" ○	–	12" x 16" x 5" ○		12" x 16" x 5" ○	
	Breakaway	With automatic / manual start-up		– / ●	– / ●	– / ●	– / ●		– / ●
Door construction	Sectional design / Low-profile guide tracks / direct-drive motor		●	●	●	●		●	●
	Fabric / Vision	1/16" grey, blue, red, orange, yellow / 1/16"	●	–	–	–		–	–
	Fabric / Vision	1/8" Bulldog XT black, blue,orange, white / 1/8"	–	●	●	●		●	●
	Fabric / Vision	1/4" Black SBR / None	–	–	–	–		–	–
Guide material / surface	Galvanized steel		●	●	●	●		●	●
	Brushed stainless steel		○	○	○	–		–	–
Tube / motor hood	Straight		○	○	○	○		○	○
Operator and control	HFCB control box		●	● Up to 10 x 10	●	–		–	–
	3 ph UL / CUL control box		–	● Over 10 x 10	–	●		–	–
	HFC1 3 ph hardwired		–	○	–	–		●	●
	Smart Start™ HFC1 UL / CUL 3 ph		–	○	–	○		○	○
	Connecting voltage (1-phase)		1-230 v	1-230 v up to 10 x 10	1-230 v	–		–	–
	Connecting voltage (3-phase) 230 v step up transformer included 575 v step down transformer included		–	3-230 v or 460 v over 10 x 10	3-230 v or 460 v	3-230 v or 460 v 575 v optional		3-460 v 575 v optional,	
	Open-Stop-Close button		●	●	●	●		●	●
	HFCB control, main switch, all-pole switch-off, 1-phase		●	● Up to 10 x 10	●	–		–	–
	Protection category	Operator, control	NEMA 4	NEMA 4	NEMA 4	NEMA 4		NEMA 4	NEMA 4
	E-stop button		●	●	●	●		●	●
	Personnel monitoring	Built-in light grid	●	●	–	●		–	–
		Photocell	–	–	–	–		–	–
		Energy chain	–	–	–	–		–	●
	Door area monitoring	Radar presence detector	–	○	○	○		○	○
		Induction loop	–	○	○	○		○	○
	Timer to close in sec.		0-120	0-120	0-120	0-120		0-120	0-120
	Panel reversing edge		–	–	–	–		●	●
	Electronic limit switch DES		●	●	●	●		●	●
Emergency opening	Crank handle		–	–	–	–		–	–
	Chain hoist		●	●	●	●		●	●
	Counter weight / springs		– / –	– / –	– / –	– / –		– / –	– / –
	Emergency battery pack w/HFCB control 230 v (1-phase)		○	○	○	–		–	–

Overview of Door Types

Technical data - Rubber door models

● = Standard ○ = Optional – = Unavailable

	Hörmann Rubber Door Models	4600 RE (Economy)	4600 RS (Standard)	4600 RD (Deluxe)
Door sizes	Min. width / Max. width	6'0" / 40'0"		
	Min. height / Max. height	8'0" / 30'0"		
Speed	Opening speed approx. in./sec.	Up to 12	Up to 36	Up to 36
	Closing speed approx. in./sec.	12	14	14
Protection equipment	Wireless panel reversing edge with bottom bar	●		
Resistance to wind load	20 psi (88 mph)	●		
	< 18'0" w, w/o windbar			
	> 18'0" w, 1 std. windbar, 4" schedule 40			
	> 30'0" w, 1 std. windbar, 6'0" aluminum			
Operation	Spring assisted	50 - 100,000 cycle	–	
	Springless, direct-drive	–	●	
Clearance requirements	See detail drawings	29" to 35" (includes hood overhang). Requirements vary with door height.		
Breakaway	V-cut bottom bar w/guide re-insertion for re-set	●		
Door construction	Standard panel	1/4" thick SBR (styrene-butadiene rubber), 1 ply, w/ double layer polyester reinf.		
	Optional vision	Two each 10" w x 18" h, clear PVC. For additional windows / sizes, consult factory.		
Guide material / surface	Structural steel w/ preformed retainer, color: blue	●		
	Stainless steel	○		
Operator and control	Industrial GHC Series	●	–	
	GFA direct-drive	–	●	
	3-button push button	●	●	●
	Control box location	At motor	Wall mounted w/3-button control and rotary disconnect	
Emergency opening	Photocells, NEMA 4	●		
	Chain hoist	●		

Overview of Door Types

Technical data - Speed-Guardian™ 4000

● = Standard ○ = Optional – = Unavailable

	High speed security door	4000	4000 CV	4000 LH
Use	Interior door	●	●	●
	Exterior door	●	●	●
Speed	Opening speed approx. in./sec.	Up to 80	Up to 80	Up to 80
	Closing speed approx. in./sec.	18	18	18
Protection equipment	Built-in light grid	●	●	●
	UPS emergency battery pack	–	–	–
Resistance to wind load	In closed position / Up to	120 mph	120 mph	120 mph
Transmission of heat	R-value / U-value	13.6 / ≤ 0.5	Consult factory	13.6 / ≤ 0.5
Door sizes	Max. width	22'0"	16'0"	16'0"
	Max. height	20'0"	16'0"	16'0"
Clearance requirements (See also the Technical Manual)	Operator side	20"	20"	20"
	Bearing side	13-1/2"	13-1/2"	13-1/2"
	Lintel	34"	34"	20"
	Lintel LDH	34-3/4"	34-3/4"	–
	Smart Start™ HFC1 UL / CUL control box (W x H xD)	12" x 16" x 5"	12" x 16" x 5"	12" x 16" x 5"
Door construction	Circular guide	●	●	–
	Low headroom style track	–	○	●
Door panel counterbalance		●	●	●
Door panel	Double-skinned insulated section thickness	1-5/8"	1-5/8" Bottom 3 slats only	1-5/8"
	Vision sections	○	●	○
Door panel material / surface	Steel, RAL 9006	●	●	●
	Wet paint process in choice of RAL colors	○	○	○
	Duratec® coating on clear sections	●	●	●
Ventilation slat	Ventilation slat	○	○	○
Operator and control	HFC1 hardwired	●	●	●
	Smart Start™ HFC1 frequency converter	○	○	○
	Connecting voltage	3 ph / 230 v or 460 v / 60 Hz	3 ph / 230 v or 460 v / 60 Hz	3 ph / 230 v or 460 v / 60 Hz
	Open-Stop-Close button	●	●	●
	Main switch all-pole switch off	●	●	●
	Protection category for operator and control	NEMA 4	NEMA 4	NEMA 4
	E-stop button	●	●	●
	Personnel monitoring	Built-in light grid	●	●
		Photocell	–	–
		Energy chain	–	–
	Door area monitoring	Radar presence detector	○	○
		Induction loop	○	○
	Timer to close in sec.	0-120	0-120	0-120
	Panel reversing edge	–	–	–
	Electronic limit switch	●	●	●
Emergency opening	Crank handle	–	–	–
	Chain hoist	●	●	●
	Counter weight / spring	– / ●	– / ●	– / ●
	Emergency battery pack w/HFCB control 230 v (1-phase)	–	–	–

Overview of Door Types

Technical data - Screen-Master® insect control barriers

● = Standard ○ = Optional – = Unavailable

	Insect control barriers	SC 100	SC 200	SC 300	SC 500	SC 800
Use	Interior door	●	●	●	●	●
	Exterior door	●	●	●	●	●
Speed	Opening speed approx. in./sec.	Up to 12"	Manual operation	Manual operation	Manual operation	Up to 12"
	Closing speed approx. in./sec.	12"	–	–	–	12"
Door sizes	Max. width	10'0"	10'0"	Unlimited	Unlimited	14'8"
	Max. height	14'10"	10'10"	15'0"	15'0"	16'0"
Mounting configuration	Under lintel (UL)	●	●	●	●	●
	Overhead door mount (OHD)	○	○	–	–6	○
	Face of wall (FOW)	○	○	○	○	○
Door construction	Automatic roll-up	●	–	–	–	●
	Manual roll-up	–	●	–	–	–
	Manual sliding	–	–	●	●	–
Clearance requirements	See technical detail drawings					
Panel material	10 oz. royal blue or black mesh Thread count 17 x 11 / sq. in.	●	●	●	●	●
	10 oz. royal blue or black mesh Thread count 28 x 11 / sq. in.	○	○	○	○	○
Guide material	Galvanized steel w/PVC inserts	●	●	–	–	●
	Galvanized steel sliding track	–	–	●	●	–
Operator and control	110 v UL-rated tubular motor	●	–	–	–	●
	Constant contact UL-rate two-position rocker switch	●	–	–	–	●
	NEMA 4 rocker switch	○	–	–	–	○

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