



Industry, Mining & Energy Focus

High-performance industrial rubber doors

Tough and reliable custom built door systems for heavy industries

HÖRMANN

HD SERIES Rubber Doors: Building on a strong legacy

TNR Industrial Doors originated from the mining industry, so it's in our DNA to design doors that can withstand the most demanding conditions. Nearly two decades ago, TNR Industrial Doors launched the original HD SERIES rubber door design that quickly became the market leader of rubber doors for industrial applications.





HD SERIES rubber doors are designed to withstand a vehicle impact undamaged. The door is easily reset and working again in minutes, avoiding costly downtime.

NEARLY TWO DECADES AGO, TNR INDUSTRIAL DOORS LAUNCHED THE HD SERIES RUBBER DOOR DESIGN.

Recognizing a gap in the marketplace for a heavy duty industrial door, TNR started right at the drawing board, designing an indestructible door that was tough and reliable in even the harshest environments. Today, Hörmann continues to manufacture the patented HD SERIES rubber door systems with superior performance and reliability. The heavy duty industrial rubber door is a proven door system for mining, energy, manufacturing and other challenging industrial environments. Our HD SERIES doors are recognized across the industry as a time-proven and effective solution for all troublesome door openings.

The fundamentals of the original HD SERIES design have been the key to our success and have been carried forward into the latest rubber door models that Hörmann now bring to the market.



**Limited
Lifetime
Warranty**

Exclusive limited lifetime warranty

Our HD SERIES rubber curtain, Curtain Loks™ and NEWGEN® guides are so tough and reliable that they are warranted for the lifetime of the door.

Designing innovative, custom rubber door systems

Doorways in your operation are inevitable; it's what you put in them that makes a difference. The HD SERIES custom rubber doors are a sound investment with unquestionable payback. Each HD SERIES rubber door system is designed and built to address our customer's specific requirements for each unique application.





EACH HD SERIES RUBBER DOOR SYSTEM IS CUSTOM

BUILT. Hörmann rubber doors' unique product capabilities have revolutionized the door industry by providing more reliable, more durable doors with longer lasting performance and greater impactability. Our HD SERIES industrial rubber doors will substantially reduce your long-term cost of ownership and provide the lowest life cycle cost available.

Hörmann provides the industry's most reliable and durable rubber door systems. Depending on the application, the typical return on investment is 12-36 months, when considering the following criteria:

- Increased productivity
- Maintenance savings
- Energy efficiency rebates
- Energy savings
- Minimized downtime
- Enhanced safety & security

Hörmann will design and build a custom door for your application that takes aim at reducing your operating costs. We have a broad range of HD SERIES rubber door models that we will custom build to your needs and specifications for use in any of our key industry segments:

- Industry, mining & energy
- Distribution & transportation
- Emergency services
- Food & cold storage
- Waste management
- Parking
- Retail automotive

Big equipment needs big access openings

Hörmann leads the way with custom designed, high-performance, rugged roll-up doors for extra large openings. Introducing the model HDXL. Rugged durability and high-performance door systems for extra large applications in harsh environments. We have the engineering and field experience that assures our custom built doors deliver peace-of-mind in your specific application.



HEAVY-DUTY EXTRA LARGE DOORS are frequently needed for hard rock mining, oil and gas, hydroelectric, pulp and paper, agricultural and military operations that often involve the use of very big specialty equipment. Big equipment needs big access openings in service shops, wash bays, loading and processing facilities and other related structures.

The extra large, model HDXL rubber doors are available up to 47 feet wide or 45 feet high. Openings beyond these sizes may be possible but require extra consideration; contact us for larger doors. Hörmann has the engineering and field experience that assures our custom built doors deliver value, safety and peace of mind in your specific application.

These extremely durable doors withstand harsh environments while maintaining reliable operation with a flexible rubber curtain that can withstand large pressure differentials caused by wind and HVAC, for example, on the extra large door surface area. All components of the HDXL9 are bigger, heavier and stronger than all other rubber doors. Designed with 6" guides instead of 5" guides. Mounted using 8"x6" steel tube instead of a mounting angle. A heavier 8" tall steel tube bottom bar construction with ribbed aluminum extrusion reinforcements.



HEAVY-DUTY PATENTED PIVOTING BOTTOM BAR

Besides being able to effectively enclose extremely large openings, one of the key features of the HDXL design is the patented pivoting bottom bar assembly. The clever design allows the bottom bar to pivot when the curtain comes under high wind load or positive pressure (example - a mine's headframe), thereby allowing the door to easily open and close without binding in the guides or causing excessive wear.

NEW from Hörmann



**Soft-Start
Soft-Stop**

HD SERIES DIRECT DRIVE - A springless direct drive system on a Hörmann rubber door provides a system that is simple to install, low maintenance and performs well in rugged environments where high-speed operation is a must. Applications such as transit, airport and rail maintenance shops are ideal applications. A variable frequency drive (VFD) provides soft-start and soft-stop, ensuring smooth operations and extended life of the mechanical system.



Warranty

The VFD direct drive design enables us to include our 5 and 2 warranty, ensuring reliable and dependable operation with:

- 5 years or 1,000,000 cycles on operators with VFD
- 2 years on all other mechanical components
- 2 years on electrical components



MODEL HD-DD 3065 Direct drive system (hoods optional)





MODEL HD-DD 3065 in a rail transit maintenance facility

HD SERIES DIRECT DRIVE doors include two models that meet a wide range of needs and budgets: the HD-DD 3065 rubber door and the HD-HD 2565 hybrid door. The HD-DD 3065 offers the full heavy duty rubber door design for harsh, demanding environments. The HD-HD 2565 offers a hybrid alternative of a lighter rubber curtain or 88 oz fabric curtain. These provide speed and durability for less demanding environments while maintaining all the benefits of Hörmann's direct drive system.

Typical Applications

Logistics & Transportation

Waste Management

→ Refer to the table on page 14 for detailed product features and specifications.



MODEL HD-CD 3025 in a mining truck maintenance shop

NEW from Hörmann



**Soft-Start
Soft-Stop**

HD SERIES CHAIN DRIVE model HD-CD 3025 uses a high-performance helical gear operator and chain drive to open the door at up to 24 inches per second. This drive system is controlled by a Programmable Logic Controller (PLC) and VFD with soft-start and soft-stop that provides smooth, quiet operation, reduced wear-and-tear and long life. The versatile PLC allows for easy addition of a wide range of activation and safety devices often required in high traffic door applications.

Typical Applications

Manufacturing

Logistics & Transportation

→ Refer to the table on page 14 for detailed product features and specifications.





ELIMINATING THE COUNTERBALANCE SPRINGS

makes this Hörmann rubber door model extremely reliable in very high-cycle environments. These high-speed, high-performance door system are particularly well suited for applications where high door speeds are required in openings that also experience very high traffic. Vehicle impacts are quickly reset, keeping traffic flowing reliably in these demanding applications.



Warranty

The chain drive springless design enables us to include our 5 and 2 warranty, ensuring reliable and dependable operation with:

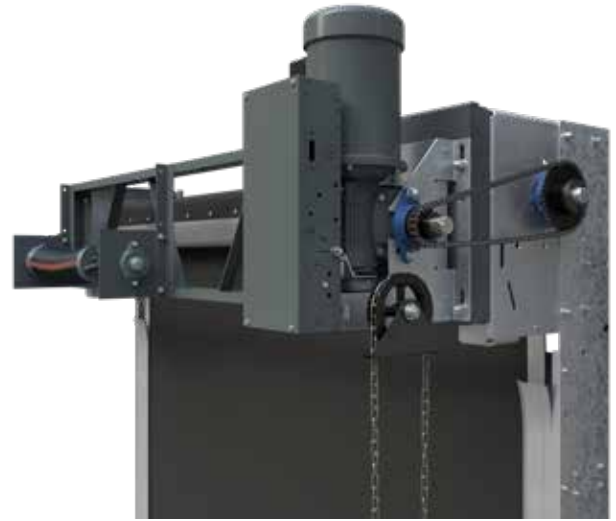
- 5 years or 1,000,000 cycles on operators with VFD
- 2 years on all other mechanical components
- 2 years on electrical components

MODEL HD-CD 3025 Springless, chain drive system





MODEL HD-SD 3050 High-speed, spring counterbalanced, chain drive system



MODEL HD-SD 3020 Economy, spring counterbalanced, chain drive system

NEW from Hörmann

HD SERIES SPRUNG DRIVE doors with chain drive and spring counterbalance outperform all other door systems in the most rugged and abusive environments. The typically harsh environments of heavy industrial applications are where these extremely reliable doors are most valuable. These industries often require large doorways to accommodate large equipment, where the HD SERIES are ideal to fill the void left by other high-performance doors.

The HD SERIES chain drive, spring counterbalanced product offering includes the premium HD-SD 3050 High-speed model which is equipped with a high-performance helical gearhead operator to open the door at up to 48 inches per second. The HD-SD 3020 Economy model gets the job done with a basic right-angle gearhead operator, opening the door at up to 18 inches per second.

→ Refer to the table on page 14 for detailed product features and specifications.

MODEL HD-SD 3050 in a manufacturing plant





MODEL HD-SD 3020 in a vehicle service bay

THE HD-SD 3050 operator is controlled by a programmable logic controller with a variable frequency drive in a NEMA 4 enclosure for precision control and durability. The **HD-SD 3020** uses relay logic and contactors in a NEMA 1 operator mounted control box (OMC). Upgraded controller options are available for a wide range of applications covered by these versatile doors.

Both models are counterbalanced by standard springs rated for 100,000 or 50,000 cycles depending on the size of the door. Upgrades for 200,000 cycles in higher traffic applications are available.

Typical Applications

Mining & Industrial

Waste Management

Logistic & Transportation



Warranty

The chain drive sprung design includes our 5 and 2 warranty, ensuring reliable and dependable operation with:

- 5 years or 1,000,000 cycles on operators with VFD
- 2 years on all other mechanical components
- 2 years on electrical components

Equipment features

Heavy Duty, High-performance rubber doors

Door Type			HD-DD 3065 Direct Drive	HD-CD 3065 Chain Drive	HD-M 1500 Sprung Drive Manual	HD-SD 3020 Sprung Drive Economy	HD-SD 3050 Sprung Drive High-Speed	HDXL Sprung Drive Extra Large
Suitable application			interior exterior	interior exterior	interior exterior	interior exterior	interior exterior	interior exterior
Size range								
Maximum opening width, depending on height (ft)			30 21	20 25 30	15	22 30	25 30	47
Maximum opening height, depending on width (ft)			20 30	30 22 17	15	22 30	30 20	45
Speed								
Maximum Opening Speed (in/s)			up to 64	up to 24	-	up to 18	up to 48	up to 12
Maximum Closing Speed (in/s)			up to 30	up to 12	-	up to 18	up to 32	up to 12
Headroom								
Minimum Headroom, doors up to 17 ft high (in)			32½	32½	32½	32½	32½	55
Minimum Headroom, doors over 17 ft high (in)			37	37	-	37	37	61
Minimum Headroom, doors up to 45 ft high (in)			-	-	-	-	-	66
Curtain retention								
NEWGEN® Guide and Curtain Loks™			●	●	●	●	●	●
Wind Load, door closed - 20 psf (958 Pa, 1.38 bar) or 88 mph (141 km/h)			●	●	●	●	●	●
Weighted Bottom Bar, increased windload protection (standard on door width ≥12')			○	○	○	○	○	●
Curtain								
1/4 in (6 mm) thick SBR rubber			●	●	●	●	●	●
1/4 in (6 mm) thick EPDM rubber			○	○	○	○	○	○
1/4 in (6 mm) thick MSHA self-extinguishing rubber (Black only)			○	○	○	○	○	○
Windows, 16 in x 16 in			○	○	○	○	○	○
Curtain colours								
Standard colours			●	●	●	●	●	●
Special colours			○	○	○	○	○	○
Thermal insulation								
U-value	Imperial BTU/(h·ft²·°F)	Metric W/(m²·K)	Consult factory	Consult factory	Consult factory	Consult factory	Consult factory	Consult factory
Drive system								
Direct Drive Operator, Springless			●	-	-	-	-	-
Chain Drive Operator, Springless			-	●	-	-	-	-
Chain Drive Operator, Counterbalance Springs, 50K cycles			-	-	-	●	●	●
Chain Drive Operator, Counterbalance Springs, 100K or 200K cycles			-	-	-	○	○	-
Power Supply, 3-phase 208 V to 575 V			●	●	-	●	●	●
Power Supply, 1-phase 208 V to 240 V			-	○	-	-	○	○
Emergency manual opening								
Chain hoist			●	●	●	●	●	●
Hand crank			○	-	-	-	-	-

● = Standard
○ = Optional

Controls and Accessories

For Heavy Duty, High-performance rubber doors



TNR PLC or Relay Logic
N4X (IP66) powder coated cabinet

Operation
Open / Close push button, emergency-stop button, variable frequency drive or contactors

Function
Automatic timer to close, safety light curtain - Stop and re-open

Options
Timer to close, Lite-Advance, N4 (IP66) or N4X (IP66)

Wiring
3 phase, 208 V - 575 V, 60 Hz with contactors or variable frequency drive
1 phase, 208 V - 230 V, 60 Hz with variable frequency drive

Housing dimensions
20 x 24 x 10½ inch



Operator Mounted Controls
N1 (IP10), powder coated enclosure - Controls integral to operator

Operation
Open / Stop / Close push button station included, contactors

Function
Photoeyes and reversing edge - Stop and re-open

Options
Timer to close, Lite-Advance, N4 (IP66) or N4X (IP66)

Wiring
3 phase, 208 V - 575 V, 60 Hz

Housing dimensions
8 x 13¾ x 5 inch

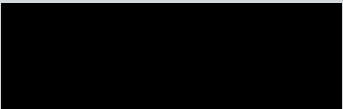
LED Lite-Advance



Ground Loop Activation

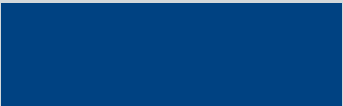


Standard colours rubber



RAL 9005 Jet black

Special colours rubber



RAL 5017 Traffic blue



RAL 7037 Dusty grey

HÖRMANN NORTH AMERICA

Sparta, TN - North American Headquarters / Sectional Doors

SIX PRODUCTION PLANTS, ONE FAMILY

As one of the world's leading manufacturers of door and dock systems, we're committed to providing the best quality, value, and selection. Whether residential, commercial or industrial, we have the solutions you're looking for. Each Hörmann product gives you the perfect array of benefits and options to satisfy your customers.



Puyallup, WA



Montgomery, IL



Oro-Medonte, ON Canada



Burgettstown, PA



Imperial, PA

USA

Toll Free: 800.365.3667
Email: info@hormann.us
Website: hormann.us

Canada

Toll Free: 866.792.9968
Email: info@hormann.ca
Website: hormann.ca

Mexico

Toll Free: 52 (81) 8308 7481
Email: info@hormann.com.mx
Website: hormann.mx



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