

Product Data Sheet

HD-SD 3020

HD SERIES Sprung Drive Economy Rubber Door

HÖRMANN



The typically harsh environments of heavy industrial applications are where these extremely reliable doors are most valuable.

- 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.
- 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.

Technical Data	Imperial	Metric	Remark
Application	Interior / Exterior		
Speed	Opening up to 18 in/s Closing up to 18 in/s	Opening up to 0.46 m/s Closing up to 0.46 m/s	
Roll-up Technology	Roll tube with precision-welded axles		
Size Range	Width 6 ft 0 in up to 30 ft 0 in	Width 1.83 m up to 9.14 m	
	Height 6 ft 0 in up to 30 ft 0 in	Height 1.83 m up to 9.14 m	
Guide Track Profile	W x D (in)	W x D (mm)	Steel mount Concrete mount
	5.25 x 9 9.25 x 9	140 x 230 230 x 230	
Roll Tube Diameter	8.625 in x 0.322 in thick wall	219 mm x 8.2 mm thick wall	
Visible Material Height (Window Size)	16 in x 16 in, ½ in thick	406 mm x 406 mm 3 mm thick	
Required Headroom	32.5 in 37 in	825 mm 940 mm	Opening height up to 17 ft (5185 mm) Opening height over 17 ft (5185 mm)
Drive Mechanics	Chain drive operator with manual chain hoist		
Counterbalance System	50K or 100K cycle counterbalance spring (depending on door size)		
Braking	Motor activated AC solenoid drum brake		
Cycleability / Maintenance	50 per day / Inspection every three months		
Safety Features	Integrated in-line light grid, manual chain hoist		
Resistance to Wind Load (Max per Door Width)	20 psf, windclass 5	98 kg/m2 windclass 5	ANSI / DASMA 108-2002
Fire Resistance Rating (Behavior)	Non-rated, Non-conforming exit		-
Manufacturer Warranty	Curtain - Limited lifetime General - 2 years		Curtain - 10 years in Europe

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Materials & Finishes	Description		Remark
Guide Tracks, Covers & Guards (Guides)	5 in (127 mm) aluminum extrusion guards Rollformed high strength galvanized steel, 10 gauge		
Mounting Angles	Rollformed high strength galvanized steel, 10 gauge with gussets		
Roll Tube	Galvanized steel		
End Plates	Zinc dichormate plated steel		
Weather Seals	Self sealing rubber curtain / guides, EPDM loop seal on bottom bar, brush seal at lintel		
Curtain	Standard ¼ in (6 mm) / Black SBR (Styrene-Butadiene Rubber)		Optional: ¼ in (6 mm) Blue or Grey EPDM (Ethylene Propylene Diene Monomer), Black Nitrile, Black MSHA (Mine Safety and Health Administration)
Curtain Temperature Rating	SBR: -40°F to 185°F	SBR: -40°C to 85°C	Grey EPDM: -63°F (-53°C) to 185°F (85°C) Blue EPDM: -56°F (-49°C) to 185°F (85°C)
Bottom Profile (Bar) Door Slat	Extruded aluminum weighted bottom bar with patented pivoting arms		
Electric Door Operator	RG gearhead chain drive operator		Optional stainless steel motor
Control Panel	Standard operator mounted controls (OMC), contactors with relay logic		Optional NEMA Type 4 or 4X (IP66) separate control panel, contactors with relay logic or PLC
Hood and Motor Cover (Optional)	18 gauge galvanized steel		
Truss	Fabricated steel construction, painted		
Idler Barrel	Galvanized steel 6.25 in (159 mm) diameter x (4 mm) thick wall		
Energy Analysis	Imperial	Metric	Remark
Thermal Resistance (R-value)	0.73 hr·ft ² ·°F/BTU	(0.13 m ² ·K/W)	ASTM C518 – 10
Heat Transfer Coefficient (U-value)	1.36 BTU/hr·ft ² ·°F	(7.74 W/m ² ·K)	ASTM C518 – 10
Acoustic Insulation	Sound transmission Class (STC) 28 dB Outdoor-Indoor transmission class (OITC) 23 dB		ASTM E 90-09 / E 413-10 / E1332 - 10a
Electrical	Description		Remark
Electric Door Operator	Manaras Pro RCGH 1 to 3 hp (0.75 to 2.25 kW) varies by door size		NEMA Type 1 (4 and 4X Optional) / IP10 (IP66 Optional), CSA Listed
Motor Voltage	230-600 VAC, 3 PH, 60 Hz		Voltage same as Supply power
Control Panel	Operator mounted controls (OMC) with contactors		NEMA Type 1 (4 and 4X Optional) / IP10 (IP66 Optional), CSA Listed
Standard Power Requirement	208-230V, 3 Phase, 60 Hz, Max. full load amps 9.5 A 460-480V, 3 Phase, 60 Hz, Max. full load amps 4.8 A 575-600V, 3 Phase, 60 Hz, Max. full load amps 3.8 A		
Disconnect	Fuse: 20 A, Class K		Service to control box supplied by others