

Standard Features

■ Motor

60Hz high starting torque, continuous-duty industrial type, single-phase capacitor start or 3-phase motor, open drip proof with enclosed ends or drip cover (totally enclosed - TEFC or TENV for 2-3 HP), protected against overload. Also available with 50Hz 220V 1-phase and 380V 3-phase motor, consult inside sales.

■ Reduction

40:1 worm gear in oil bath reducer with air breather and sealed ball bearings. Output shaft is 1-1/4" with 1/4" keyway up to 1-1/2 HP, 1-3/8" output shaft with 5/16" keyway above 1-1/2 HP. Output shaft is supported by cast iron flanged pillow block bearings. Output shaft speed: 43 rpm.

■ Drive

#50 roller chain with a 50B12 sprocket for the operator drive shaft (up to 1-1/2 HP), 50B15 sprocket for the drive shaft (above 1-1/2 HP). #60 roller chain optional. Door sprocket selected for a door travel of 6"/s to 12"/s.

■ Brake

Electrically activated drum-band type solenoid brake.
Option: brake motor.

■ Manual Operation

Emergency manual chain hoist ⁽¹⁾. Floor level chain hoist engaging device with electrical cut-out. An electrical interlock automatically disconnects power to the motor operator when chain hoist is engaged. Hoist on right is standard, but it can be easily moved to the left in the field.

■ Electrical Enclosure

All electrical components are in a Nema 1 enclosure.
Simple slide-off cover.

■ Limit System

Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

■ Accu-cam® Feature

Precise and quick one-handed adjustment of the limits.

■ Corrosion Protection

Reducer, control enclosure and frames protected by baked-on, long lasting enamel finish.

■ Mounting

Right or left wall mounting. For indoor use only.

■ Shipping Weight

Approx. 137 lb - 62 kg.

■ Warranty

2 Years.

Emergency Manual Chain Hoist

With floor level chain hoist engaging device and electrical cut-out

Accu-cam® Limit Feature

For precise and quick one-hand limit setting adjustments

Cast Iron Pillow Block Bearings

Flanged pillow block bearings on the output shaft

Simple Slide-Off Cover

For easy access to components and wiring



The MGH is a very heavy-duty worm gear industrial operator designed for use on industrial standard, high and vertical lift sectional doors or rolling doors and grilles.

The operator can be wall mounted on either side of the door and incorporates a brake and a chain hoist for manual operation with a floor level engaging device with electrical cut-out.

The operator is offered with the Electronic Control Board (BOARD 070) and monitored external entrapment protection devices (ANSI/CAN/UL 325 compliant).

⁽¹⁾ The hoist is designed for light and limited use in the event of troubleshooting only.

Control Options

■ ECB Units (BOARD 070)

24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), built-in cycle-counter, independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor.

Operating mode selectable on site: C2, B2, D1, E2, T or TS.

■ "M" Version



Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photoelectric cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photoelectric cells, 2-wire non-monitored sensing edges and pneumatic sensing edges.

Certifications: ANSI/CAN/UL 325.

Note: ANSI/CAN/UL 325 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

■ Control Accessories

Terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges / photoelectric cells / light curtains, external radio receiver, ceiling pull switches, key switches, loop detectors, LED strips, external interlocks, universal auxiliary output module. Optional Manaras Internet Control™ (MIC) available. 2A fuse protected 24VAC output is available for accessory power supply. Nema 4/12 or Nema 4X protected monitored photoelectric cells upgrade available.

■ Environmental Modifications

Nema 4/12, Nema 4X and Nema 7/9 enclosures.

■ Friction Clutch (Optional)

Easily adjustable slip clutch, ideally positioned on output shaft. Recommended for sectional doors.

■ Mechanical Accessories

Wall or hood mounting bracket, chain spreader, etc. Consult inside sales.

■ Mechanical Modifications

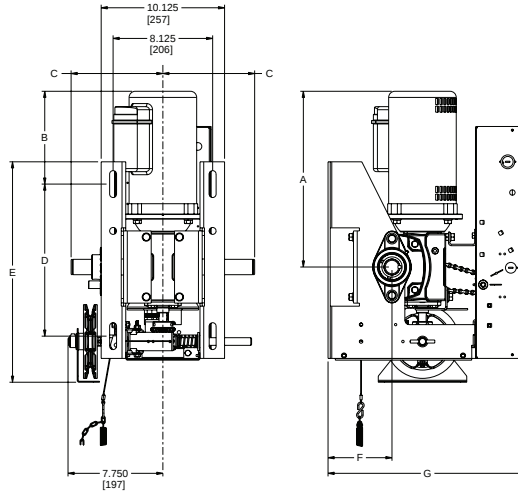
Left hand chain hoist, electrically activated drum-band type solenoid brake, cast iron flanged pillow block bearings on output shaft, limit shaft speed-up, etc. Consult inside sales.

Dimensions

Clearance: Side room required 17" (432 mm)

With friction clutch up to 1-1/2 HP add: 2.375" (60 mm)

With friction clutch above 1-1/2 HP add: 1.875" (48 mm)



	STANDARD MOTOR UP TO 1.5 HP	STANDARD MOTOR 2 TO 5 HP
A	14.625 MAX. [371]	17.500 MAX. [445]
B	8.000 MAX. [203]	11.250 MAX. [286]
C	7.500 [191]	8.000 [203]
D	12.375 [314]	12.625 [321]
E	18.000 [457]	17.875 [454]
F	5.250 [133]	5.875 [149]
G	16.250 [413]	17.625 [448]

	BRAKE MOTOR UP TO 1.5 HP	BRAKE MOTOR 2 TO 5 HP
A	20.944 MAX. [529]	25.594 MAX. [650]
B	14.688 MAX. [373]	19.438 MAX. [494]
C	7.500 [191]	8.000 [203]
D	12.375 [314]	12.625 [321]
E	18.000 [457]	17.875 [454]
F	5.250 [133]	5.875 [149]
G	16.250 [413]	17.625 [448]

Motor Selection

Maximum Door Area in Square Feet (WxH)

	Rolling Doors					Sectional Doors				
Horse Power	Insulated Steel	16 ga. Steel	Steel Grilles 20 ga. Steel	Aluminum 22 ga. Steel	Aluminum Grilles 24 ga. Steel	18 ga. Insulated Steel	18 ga. Steel / 20 ga. Insulated Steel	Wood 20 ga. Steel / 22 & 24 ga. Ins. Steel	Aluminum 22 & 24 ga. Steel	Fiberglass
1/2	157	236	260	319	358	196	245	314	343	392
3/4	206	294	358	451	515	270	319	441	490	549
1	255	358	446	574	613	294	392	490	564	613
1-1/2	353	486	663	625	-	373	466	549	613	-
2	451	613	660	-	-	560	620	660	-	-
3	620	830	890	-	-	830	870	910	-	-
5	*	*	*	-	-	*	*	*	-	-

* Consult inside sales

Operator Range

Current Consumption (Amp.)

Horse Power	Nominal Voltage (V) / Phase					General Guideline
	120V / 1 Ph	240V / 1 Ph	208V, 240V / 3 Ph	480V / 3 Ph	600V / 3 Ph	
1/2	9.0	4.5	2.2	1.1	-	
3/4	11.2	5.6	3.2	1.5	1.2	
1	13.6	6.8	3.7	1.7	1.4	
1-1/2	19.6	9.8	5.3	2.5	2.0	
2	-	-	6.5	3.1	2.5	
3	-	-	8.5	4.1	3.3	
5	-	-	16.7	7.6	6.1	

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HOW TO ORDER REPAIR PARTS

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TOLL FREE **1-855-931-3334**
WWW.DEVANCOCANADA.COM

**WHEN ORDERING REPAIR PARTS
PLEASE SUPPLY THE FOLLOWING INFORMATION:**

- ✓ **PART NUMBER**
- ✓ **DESCRIPTION**
- ✓ **MODEL NUMBER**