

# Specification Sheet

## MGH



*MGH, a very heavy duty WORM GEAR operator for industrial, high & vertical lift sectional doors or rolling doors and grilles. It can be wall mounted on either side of the door. It incorporates a chain hoist for manual operation.*

*Manaras*®

## • Standard Features

**Motor:** 60Hz high starting torque, continuous-duty industrial type, 1 phase capacitor start or 3 phase motor, open drip proof with totally enclosed ends, protected against overload. Also available with 50Hz 220V 1 phase and 380V 3 phase motor, consult inside sales.

**Reduction:** 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 1.5HP, 1 3/8" output shaft with 5/16" keyway above 1.5HP. Cast iron flanged pillow block bearings on output shaft. Output shaft speed: 43 rpm.

**Drive:** #50 roller chain with a 50B12 sprocket on operator drive shaft, 50B15 sprocket on operator drive shaft above 1.5HP (#60 roller chain optional). Door sprocket selected for a door travel of 6"/s to 12"/s.

**Brake:** electrically activated drum type solenoid brake. Option: brake motor.

**Manual Operation:** chain hoist for manual operation. Hand chain on right is standard. An electrical interlock disconnects power to the motor operator when manual operation is engaged (floor level engagement device).

**Electrical Enclosure:** all electrical components are in a NEMA 1 enclosure.

**Limit Switches:** rotary-type with oil-impregnated steel cams, commercial grade switches. Systems are enclosed in electrical control box and limit shaft is supported by ball bearings. Remains in time when there is a manual operation or after the motor has been removed.

**Corrosion Protection:** frame and control enclosure protected by a baked on, long lasting enamel finish.

**Mounting:** right or left wall mounting.

## 2 Year Warranty



## • Operator Range

### Current Consumption (Amp.)

Horse Power	115V 1 Ph	230V 1 Ph	208/ 230V 3 Ph	460V 3 Ph	575V 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*

General Guideline

\* ECB not available.

## • Motor Control

**Contactors Units:** 24VAC control circuit, 40VA class II transformer, fuse protected on output, heavy-duty across-the-line linear reversing contactor with mechanical interlock. C2 wiring is standard. B2 can be set very easily by moving one wire. Available options: delay on reverse, timer to close, double limits, etc...

or

**ECB Units:** 24Vdc relaying and 5Vdc logic circuit with a 40VA class II transformer, non-volatile memory. Available features: 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close, programmable advance close system, test buttons, reverse wiring detection and door lock sensor. Operating mode selectable on site: C2, B2, D1, E2, T or TS.

## • Motor Selection

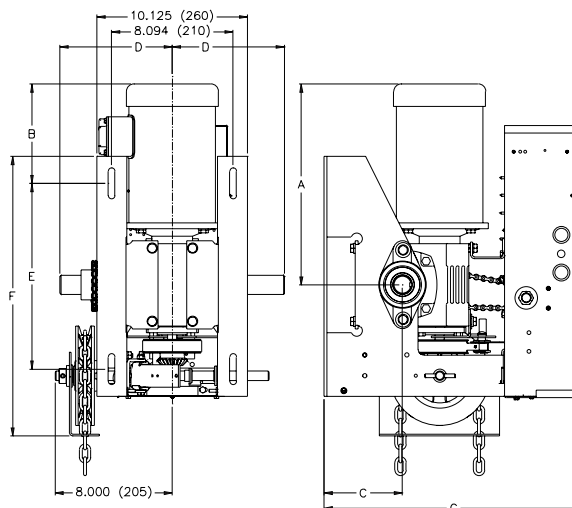
### Maximum Size of Door in Square Feet

Horse Power	Rolling Doors					Sectional Doors				
	Insulated Steel	16 ga. Steel	Steel Grilles 20 ga. Steel	Alu. Door 22 ga. Steel	Alu. Grilles 24 ga. Steel	Steel 18 ga. ins.	Steel 18 ga. 20 ga. ins.	Wood Steel 20 ga. 22 & 24 ga. ins.	Aluminum Steel 22 & 24 ga.	Fiber Glass
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	633	-	-	373	466	549	613	-
2	451	613	-	-	-	-	-	-	-	-

General Guideline

## • Dimensions

**Clearance:** side room required 17" (432 mm)  
with friction clutch up to 1.5 HP, add: 2.375" (60 mm)  
with friction clutch above 1.5 HP, add: 1.875" (48 mm)



	UP TO 1.5 HP	2 TO 3 HP
A	• 17.125 (435)	• 20.750 (530)
B	• 10.375 (265)	• 14.000 (360)
C	5.250 (135)	5.875 (150)
D	7.500 (195)	8.000 (205)
E	12.375 (315)	12.625 (325)
F	16.000 (410)	15.875 (405)
G	17.500 (445)	18.875 (480)

\* General guideline; can vary depending on the motor used for order

Approx. shipping weight: 137 lbs – 62 kg

Manaras-Opera reserves the right to make specification or design changes without prior notice.  
 Reg. T.M. of 9141-0720 Québec Inc.