

# RHX<sup>®</sup> EXPLOSION-PROOF

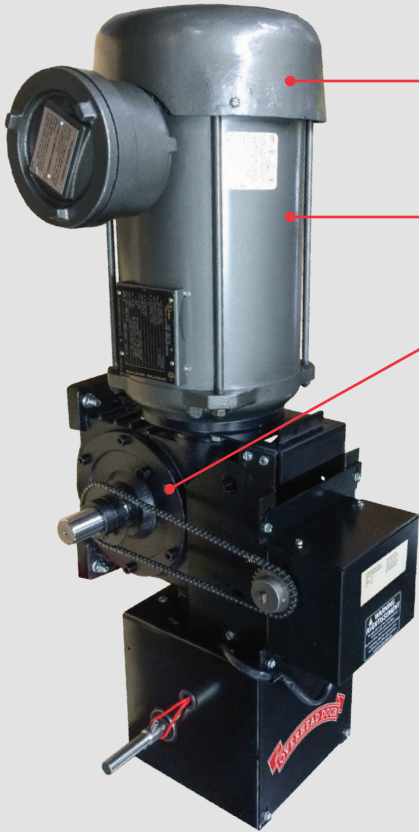
HEAVY DUTY COMMERCIAL OPERATOR



EASY OPERATION AND  
SUPERIOR FUNCTIONALITY  
FOR THE MOST STRINGENT  
APPLICATIONS.



INDUSTRY LEADING  
COMMERCIAL & INDUSTRIAL SOLUTIONS



## Standard features at a glance

### Explosion-proof motor

Rated for use in hazardous areas classified as Class I, Group D and Class II Group F & G.

### Braking

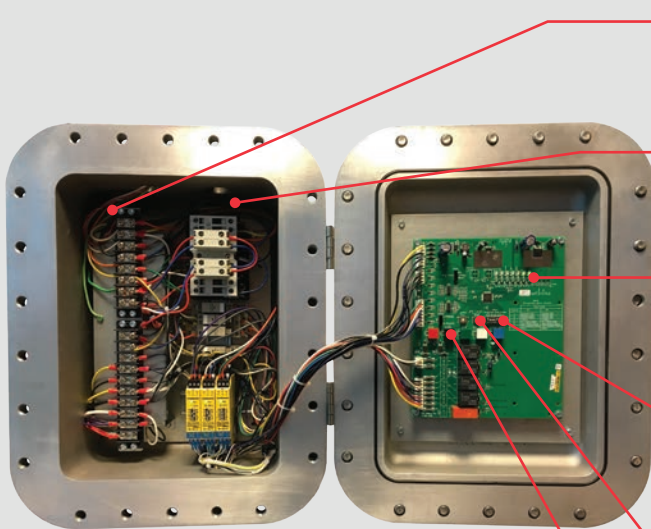
All models come standard with dynamic braking.

### True heavy duty gear head design

This system's primary drive reduction is via worm gear running in oil bath, which provides reliable operation.

### FM APPROVED

The FM APPROVED mark, which is backed by scientific research and testing, indicates equipment specified for hazardous locations conforms to the highest standards. Ensure your hazardous location projects specify FM Approved products.



### Voltage freedom

Single phase models provide for 115/208/230V in one unit, and 208/230/460V three phase in another unit.

### Momentary contact close operation

Requires addition of a monitored safety edge to allow momentary contact operation in the close direction.

### Diagnostic LEDs

Visual indicators allow for easy configuration and service of operator.

### Timed close

Enables door to automatically close after user-defined time delay between two seconds to four minutes.

### Limit overrun

Provides overrun adjustment from the down limit to fine tune the door seal to the floor.

### On-board open/close/stop switch

Allows door operation from control panel during installation and service.

# HEAVY DUTY EXPLOSION-PROOF COMMERCIAL OPERATOR

## Sectional door square foot limits

Commercial sectional steel insulated & non-insulated													
Operator model	HP	FM approved	Door models →		416	418	420	422	424	426	430	432	470
			Mounting type	Max. door weight (lbs)	16 ga. flush steel	16 ga. flush steel insulated	20 ga. ribbed steel	20 ga. ribbed steel insulated	24 ga. ribbed steel	24 ga. ribbed steel insulated	Nominal 24 ga. ribbed steel	Nominal 24 ga. ribbed steel insulated	Styrene steelback insulated
					Maximum square footage								
RHX®	1/2	Yes	T/S/C	1,310	330	262	406	330	448	366	326	326	281
RHX®	1	Yes	T/S/C	1,650	448	366	536	448	632	490	326	326	281
RHX® w/14 RPM direct couple kit	1	Yes	S/C	2,400	490	406	684	536	792	584	326	326	281
RHX® w/14 RPM direct couple kit	3	Yes	S/C	3,696	701	588	1,020	821	1,020	821	326	326	281

Thermacore®													Aluminum		
Operator model	HP	FM approved	Door models →		591	592	593	594	596	598	599	850			
			Mounting type	Max. door weight (lbs)	Ribbed steel 1-5/8"	Ribbed steel 2"	Ribbed steel 1-3/8"	Raised panel steel 1-3/8"	20 ga. flush steel 2"	Ribbed steel 1"	Ribbed steel 2"	Ribbed steel 3"	511	521	522
					Maximum square footage										
RHX®	1/2	Yes	T/S/C	1,310	490	448	326	326	380	200	448	400	326	406	196
RHX®	1	Yes	T/S/C	1,650	632	584	326	326	501	200	448	470	326	526	196
RHX® w/14 RPM direct couple kit	1	Yes	S/C	2,400	792	736	326	326	591	200	448	605	326	526	196
RHX® w/14 RPM direct couple kit	3	Yes	S/C	3,696	1,164	1,020	326	326	888	200	448	840	326	526	196

T = Trolley S = Jackshaft, Side Mount C = Jackshaft, Center Mount

Note: Side/center direct couple kit output speed is 26 RPM for 1/2, 3/4, and 1hp. For large doors use 14 RPM output speed direct couple kit on 1, and 3 HP RHX operators.

Note: Total door weight, and not the square footage, is the critical factor in selecting the proper operator. Square foot measurements are based on "square doors". (Example = 16' x 16')

Note: Doors that require special wind loading and wide doors normally require increased strutting (reinforcement). Strutting doors can significantly increase door weight beyond maximum weight shown.

Consult factory personnel in these situations.



## Rolling steel door square foot limits





Rolling steel doors												
Operator model	HP	Max. output torque (in lbs.)	FM approved	600	610	610/620		625		Door models		
				Coilway	24 ga.	22 ga.	20 ga.	18 ga.	24 ga.	22 ga.	20 ga.	18ga.
Maximum square footage												
RHX®	1/2	466	Yes	256*	465	403	351	268	247	215	199	169
RHX®	1	667	Yes	256*	690	600	523	399	367	320	297	252
RHX®	3	1972	Yes	256*	N/A	1137	945	867	798	696	645	548

				Rolling fire doors/shutters					Counter	Grilles	
Operator model	HP	Max. output torque (in lbs.)	FM approved	Door models → 630/631/634				640/641	650/651/652	670	671
				24 ga.	22 ga.	20 ga.	18 ga.	22 ga.	20 ga. /Alum	Alum	Steel
Maximum square footage											
RHX®	1/2	466	Yes	172	168	351	268	N/A	All*	540	240
RHX®	1	667	Yes	172	168	480	399	N/A	All*	700	340
RHX®	3	1972	Yes	172	168	576	696	N/A	All*	1,080	888

Note: Door chart represents max. door height of 24ft., over 24ft high consult factory.

\* Operator must be wall mounted.

## Optional accessories

Accessory	Description
 <p>Sensing edges</p>	<ul style="list-style-type: none"> <li>• <b>Bottom Sensing Edge</b> – stops and reverses the door upon contact with an obstruction. (MillerEdge® ME or MT Series T2 monitored sensing edges must be used on RHX Explosion-Proof model.)</li> </ul>
 <p>Switches</p>	<ul style="list-style-type: none"> <li>• <b>Key switches</b> – A variety of key switches are available to fit the needs of the application.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Door interlock switches</b> – Interlocks to prevent motorized operation when a door is locked.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Push button switches</b> – Interior and exterior push button stations available for many different configurations.</li> </ul>

## RHX® Explosion-proof advantages

### Agency approval

RHX Explosion-Proof operators are Factory Mutual approved for use in hazardous locations in the United States and Canada.

FM approved for the following NEMA 7/9 applications:

- Flammable Gases:  
Class I, Division 1, Group D, T2C
- Combustible Dust:  
Class II, Division 1, Group F and G, T2C

### Inherently safe

Allows use of NEMA Type 1 control elements, such as push button stations, safety edges, and key switches.

### Mounting

A wide variety of mounting options are available to fit most any application including:

**Sectional Doors:** Side mount, center mount, trolley, side-mount trolley, and dual trolley applications. All models come standard with a dynamic brake system. Side-mount and center-mount chain couple or direct couple to the door shaft with hoist. Hoist models are left or right hand adjustable in the field.

**Rolling Steel Doors:** With hoist, front of hood, top of hood, bench mount, and wall-mount applications. Hoist models are left or right hand adjustable in the field.

### Motor

Explosion-proof motor is UL and CSA listed for hazardous location use in areas classified as Class I, Group D and Class II Group F&G. Hoist unit motors available in ½ horsepower single phase, 1 horsepower three phase and 3 horsepower three phase. Trolley models available in ½ horsepower single phase, and 1 horsepower three phase configurations.

### Drive reduction

Primary reduction is worm gear running in oil bath. Secondary reduction is by chain and sprocket.

### Direct coupling (on sectional doors)

Provides fast, easy installation and prevents chain slacking. Available as an optional kit for sectional side/center mount and hoist units.

For sectional, options include:

- 14 RPM kit
- 26 RPM kit

### Timed close

Doors can be set to automatically close after an elapsed timer expires. Delay can be adjusted from two seconds to four minutes.

### Maximum run timer

Operator shuts down automatically when running time exceeds the time required to run between the limits plus five seconds.

### Clutch (standard with trolley; optional with hoist)

Adjustable disc-type helps protect door and operator from major damage should the door meet an obstruction. (Included in 14 and 26 RPM direct couple mounting kits).

### Cycle counter

Indicates the number of cycles logged for easy maintenance support.

### Trolley rail assembly

High strength 2 inch structural angle for added strength and durability.

### Limited warranty

RHX® operator features a 2-year limited warranty. See installation manual for complete limitations and details.





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## Architects Corner

A resource for architects, containing comprehensive technical and resource materials to support your project, including drawings and specifications for commercial doors.

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