

The Genuine. The Original.



## RHX™ Commercial Operator

New state-of-the-art features and technology  
for easy and reliable operation.

# RHX™ Operator

## Heavy duty commercial operator

New state-of-the-art features and technology

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RHX™ heavy duty operators provide easy and reliable operation for the most stringent applications.

### The RHX™ offers new state-of-the-art performance features:

- **Easy limit setting with Limit Lock™** – an electro/mechanical limit sensor that makes it easy to set and maintain limits
- **Voltage freedom with Voltamatic™** – one unit for single phase voltages (115/208/230V), one unit for three phase voltages (208/230/460V) and one unit for three phase 575V
- **Extra door system durability with Progressive Braking\*** – DC brake system brings the door to a soft stop for less wear and tear on the system
- **Easy installation and trouble-shooting with 16 character LCD display** – intelligent menu structure and expanded self-diagnostics
- **Advanced radio receiver system with auto seek frequency range** – quickly and easily learns up to 250 CodeDodger® transmitters. This system will automatically cycle between 315 and 390 frequencies. It can add and delete transmitters from the menu and easily identify which transmitters are operating the door.
- **True gear head system** – this system's primary drive reduction is via worm gear running in oil bath, which provides reliable operation

\*Patents # 6,737,823 and # 6,388,412



## RHX™ advantages

### Mounting

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

**Sectional Doors:** Standard, Side mount, and Dual Trolley applications. All models come standard with the DC 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

Continuous duty motor available in ½, ¾, 1 and 3\* horsepower, single or three-phase. Totally enclosed non-ventilated (TENV) construction and totally enclosed fan cooled (TEFC) construction units are available as options. 3\* horsepower models come standard with (TEFC) construction.

### On-Board Radio Receiver

This standard feature can add radio functionality to every job with no additional cost for the receiver. Stores up to 250 CodeDodger® transmitters including the new commercial dual frequency cycling versions.

### Drive Reduction

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

### Direct Coupling (optional on sectional doors only)

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

\* 3 horsepower motor will be available late 2010

### Mechanical Brake System

24V DC Disc Brake. Fewer mechanical parts for improved reliability.

### 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

LCD (liquid crystal display) clearly indicates the exact number of cycles logged for easy maintenance support.

### Adjustable Shaft

Output shaft of the optional direct coupling kits can be moved from one side to the other, providing flexible installation options.

### Trolley Rail Assembly

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

### NEMA 4/4X Operators (optional)

Available for wet, dusty and corrosive environments.

### New CodeDodger® Commercial Dual Frequency Cycling Transmitters (optional)

Available in 1,2,3,4-button and Open/Close/Stop versions. Automatically operates at both 315 and 390 MHz every time a button is pressed.

### Warranty

RHX™ operator features a 2-year or 20,000 cycle limited warranty. See installation manual for complete limitations and details.

## RHX™ Sectional Door Chart (Sq. Ft.)

Model	HP	UL Listed	Commercial Steel Insulated & Non-Insulated										Thermacore						Aluminum		
			Door Series ->		416	418	420	422	424	426	430	432	591	592	593	594	596	598	599	511	521
			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	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"	Flush Steel 2"		
RHX™	1/2	Yes	T S C	1310	330	262	406	330	448	366	326	326	490	448	326	326	380	200	448	326	406
RHX™	3/4	Yes	T S C	1450	366	294	490	406	536	448	326	326	536	490	326	326	419	200	448	326	506
RHX™	1	Yes	T S C	1650	448	366	536	448	632	490	326	326	632	584	326	326	501	200	448	326	526
RHX™ w/14 RPM Direct Couple Kit	1	Yes	S C	2400	490	406	684	536	792	584	326	326	792	736	326	326	591	200	448	326	526
RHX™ w/14 RPM Direct Couple Kit	3	Yes	S C	3696	701	588	1020	821	1020	821	326	326	1164	1020	326	326	888	200	448	326	526

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 windloading 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.

## RHX™ Rolling Steel Door Chart (Sq. Ft.)





Model	HP	Max Output Torque (in lbs.)	UL Listed	Rolling Steel Doors										FireKing®		Rolling Fire Doors / Fire Shutters				Counter		Grilles	
				600		610		610/620		625				635		630/631/634				640/641	650/651/652	670	671
				Collaway	24 GA.	22 GA.	20 GA.	18 GA.	24 GA.	22 GA.	20 GA.	18 GA.	24 GA.	22 GA.	24 GA.	22 GA.	24 GA.	22 GA.	20 GA.	18 GA.	22 GA.	22 GA./Alum	Alum
RHX™	1/2	466	Yes	256*	465	403	351	268	247	215	199	169	247**	215**	172**	168**	351**	268**	N/A	ALL*	540	240	
RHX™	3/4	570	Yes	256*	580	502	437	334	307	268	248	211	307**	268**	172**	168**	416**	334**	N/A	ALL*	620	290	
RHX™	1	667	Yes	256*	690	600	523	399	367	320	297	252	367**	320**	172**	168**	480**	399**	N/A	ALL*	700	340	
RHX™	3	1972	Yes	256*	N/A	1137	945	867	798	696	645	548	798**	696**	172**	168**	576**	696**	N/A	ALL*	1080	888	

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

\* Operator must be wall mounted.

\*\*Must use the Auxiliary Input/Output Module part number OPABIOX.s

## Optional Accessories

Accessory	Description
 <p>Transmitters</p>	<p>The RHX™ operator features a built-in Radio Receiver System that can store up to 250 transmitters, giving the customer the ability to identify which transmitters have been operating the door. Radio transmitters may be single-button, two-button, three-button, four-button, or Open-Close-Stop. They are easily programmed or erased using the LCD display. The patented CodeDodger® technology cycles between 315 and 390 MHz with the touch of a button.</p>
 <p>Motors</p>	<p>The following motors are available when specified:</p> <ul style="list-style-type: none"> <li>Totally Enclosed Non Ventilated (TENV)</li> <li>Totally Enclosed Fan Cooled (TEFV)</li> </ul>
 <p>Auxiliary Modules</p>	<ul style="list-style-type: none"> <li><b>Timer to Close Module</b> – provides auxiliary control inputs, auxiliary safety inputs auxiliary timer hold input, and an automatic door closing feature with a user- selectable time delay. Safety inputs can be enabled or disabled using the on board keypad. A sensing device must be used with this module.</li> <li><b>Auxiliary Output Module</b> – this plug-in module will provide several auxiliary sets of dry contacts that are microprocessor controlled. Outputs can be configured using the on-board keypad.</li> </ul>
 <p>Sensing Devices</p>	<ul style="list-style-type: none"> <li><b>Bottom Sensing Edge</b> – stops and reverses the door upon contact with an obstruction.</li> <li><b>Safe-T-Beam®</b> – senses an obstruction and signals the operator to stop or reverse the door.</li> </ul>

# RHX™ Operator

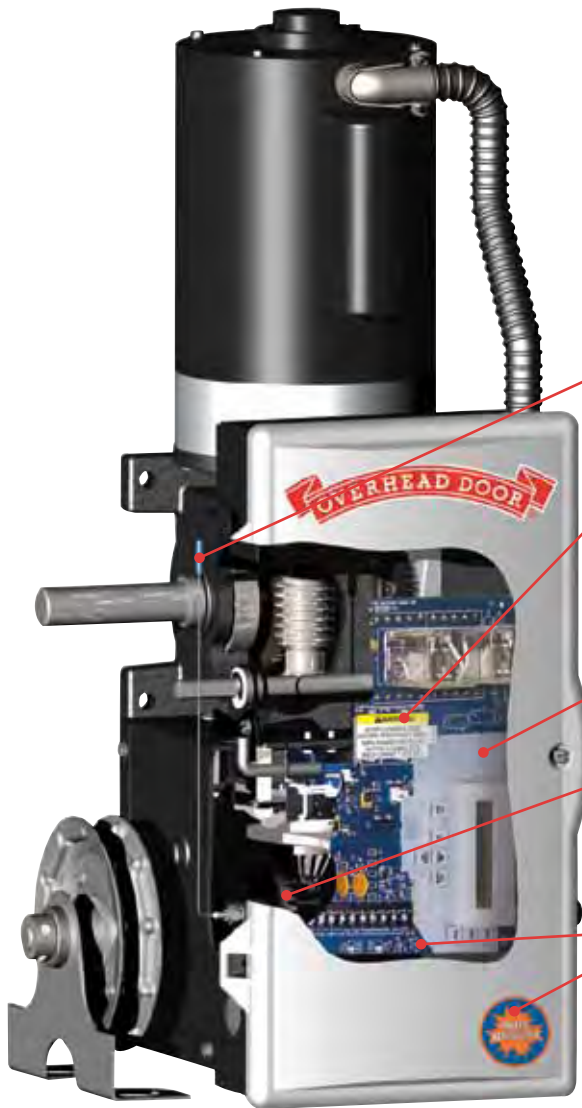
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### Advanced radio receiver system

Provides additional safety and security.

### Voltage freedom with Voltamatic™

Voltamatic™ provides 115/208/230V single phase in one unit, and 208/230/460V three phase in another unit. A separate 575V three phase unit is also available.

### 16-character LCD display

Simplifies installation and troubleshooting.

### True gear head design

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

### UL325 2010 compliant

This new standard requires the addition of monitored external entrapment devices prior to the operator working in momentary contact in the close direction.

### Progressive braking

An advanced DC brake system similar to anti-lock brakes brings the door to a soft stop for less wear and tear on the system.

### Limit Lock™

Makes setting and maintaining limits easy.

## The service and support you need – when you need them

When you select an Overhead Door product, you get more than advanced product design and manufacturing superiority – you get unmatched support and fast response through our nationwide network of over 450 Ribbon® distributors. For over four generations, Ribbon® distributors have provided the industry's single-source solution for commercial and industrial door and operator systems specifically designed for integrated applications. From design and application consulting to installation and ongoing maintenance, Overhead Door Ribbon® distributors give you the service and support you need – when you need them.



**Warranty**

RHX™ commercial operator is guaranteed with a 2-year or 20,000 cycle limited warranty. See complete warranty terms for full limitations and details.

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Complies with UL 325 2010 as of manufactured date. FCC certified.

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