

# MAXUM

Next Generation  
DC Commercial Door Operator  
JHDC Jackshaft

DATA SHEET



## Key Features

### Standard Application

Recommended for door types including:  
Sectional Doors High Lift and Full Vertical; Standard Lift if installed with Auxiliary Trolley Kit or any combination of pusher springs, cable tension monitors and raised track per door manufacturer recommendation  
Rolling Steel Doors/Grilles

### Rated Duty Cycle

Standard and Extended Duty Cycle applications where manual hoist is needed.

Standard Duty: Up to 20 cycles per hour  
Extended Duty: Up to 30 cycles per hour

### Operator Speed

Average 12" per second for Sectional doors and 8-9" per second on Rolling Steel doors

### Limit Settings

Electronic limits via Floor Level Wall Controller with LCD display

### Emergency Disconnect for Manual Operation

Operator includes an Engage rope (Green) and a Disengage rope (red) with manual hoist to electrically disable the operator controls

### Emergency Disconnect with Auto - Reconnect

Operator includes an Engage rope (Green) and a Disengage rope (red) with manual hoist to electrically disable the operator controls. Pull the engage (green) rope to operate the door again electrically

### Programming

Floor Level Wall Controller with LCD display to program and commission door

### Circuit Board

DC Logic Circuit Board

### Timer-to-Close

Program through menu on wall controller. Option is available in B2 Mode with two settings. User can select a desired Timer-to-Close (TTC) time duration under that menu

### Mid-Stop

Program setup under System Configuration Operating Mode, Mid-stop

### Battery Backup

DC7AH (2): 7 Ah batteries and mounting bracket (optional)

### Cycle Limiter Protection

Auto cool-down (max. 15 minutes) triggers if the hourly cycle limit is exceeded

### Motor Reverse Action Protection

Stop Fast: 250ms ramp  
Stop Ramp: 500ms-2000ms; Stop button while opening  
Emergency (Safety-Chain): CTM trigger immediate stop

### Motor Operator Wall Controller

Floor Level Wall Controller with LCD screen using 2 wire interface to connect to powerhead

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### Specifications

Radio Receiver	LiftMaster Security+ 2.0
Voltage Connections	120Vac 1 PH/240Vac 1/3PH; 480Vac 3PH; 208Vac 3PH (via transformer); 600Vac 3PH (via transformer)
Accessory Power	24Vdc, 1A Auxiliary Output
Drive Reduction	65:1 Gearbox with #50 Chain Output
Brake	Dynamic braking standard on all Maxum operators 2200 series operators include electromechanical holding brake
Construction	NEMA 1 type electrical box, heavy duty 11 gauge steel frame with durable powder coat finish. NEMA 4X type electrical box for NEMA 4X rated units
Warranty	5 Years Limited Warranty Battery Backup Kit - 1 Year LCD Wall Control - 2 Years Photoeyes - 1 Year Replacement Parts - 1 Year MAXUM Operator Standard Duty - 5 YEARS / 85,000 Cycles* Extended Duty - 5 YEARS / 130,000 Cycles*

### Installation Features

Maximum Door Weight	See SKU listing below for maximum door weights allowable by SKU
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### Connectivity

Wi-Fi®	Connect to Wi-Fi via Connectivity option on the wall controller
Internet Connectivity	myQ® technology enables remote monitoring and control via smartphone, tablet, computer. myQ Facility technology enables Diagnostics, absolute cycle count, service cycle count, and remote management

### Door Weight Chart

SKU	Description	Max Door Weight
JHDC7S1BMC	JHDC HOIST 700LB STD CYCLE 120/240V BBU CAPABLE	700 lb.
JHDC7S4BMC	JHDC HOIST 700LB STD CYCLE 480V BBU CAPABLE	700 lb.
JHDC7S1BE	"EXT SHAFT" JHDC HOIST 3IN 700LB STD CYCLE 120/240V BBU CAPABLE	700 lb.
JHDC7S4BE	"EXT SHAFT" JHDC HOIST 3IN 700LB STD CYCLE 480V BBU CAPABLE	700 lb.
JHDC12S1BMC	JHDC HOIST 1200LB STD CYCLE 120/240V BBU CAPABLE	1200 lb.
JHDC12S4BMC	JHDC HOIST 1200LB STD CYCLE 480V BBU CAPABLE	1200 lb.
JHDC12X1BMC	JHDC HOIST 1200LB EXT CYCLE 120/240V BBU CAPABLE	1200 lb.
JHDC12X4BMC	JHDC HOIST 1200LB EXT CYCLE 480V BBU CAPABLE	1200 lb.
JHDC12S1BE	"EXT SHAFT" JHDC HOIST 1200LB STD CYCLE 120/240V BBU CAPABLE	1200 lb.
JHDC12S4BE	"EXT SHAFT" JHDC HOIST 1200LB STD CYCLE 480V BBU CAPABLE	1200 lb.
JHDC12X1BE	"EXT SHAFT" JHDC HOIST 1200LB EXT CYCLE 120/240V BBU CAPABLE	1200 lb.
JHDC12X4BE	"EXT SHAFT" JHDC HOIST 1200LB EXT CYCLE 480V BBU CAPABLE	1200 lb.
JHDC22X1BMC	JHDC HOIST 3IN 2200LB EXT CYCLE 120/240V BBU CAPABLE	2200 lb.
JHDC22X4BMC	JHDC HOIST 3IN 2200LB EXT CYCLE 480V BBU CAPABLE	2200 lb.

\*Cycle count measurement will commence at the start of the warranty period; however, cycle counts will not be used to determine warranty eligibility until conclusion of the first two (2) years

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### Sectional Doors

Recommendations for 12-Tooth (700/1200) & 10-Tooth (2200) Operator Sprockets

Drum Diameter	Door Sprocket for Desired Speed					
	For 10-12 in/sec Door Speed			For 9-10 in/sec Door Speed		
	Sprocket Tooth Count	1 in. Bore, 1/4 in. Keyway	1.25 in. Bore 1/4 in. Keyway	Sprocket Tooth Count	1 in. Bore, 1/4 in. Keyway	1.25 in. Bore, 1/4 in. Keyway
4"	16-Tooth	71-1550B16LGH	71-1550B16QGH	24-Tooth	71-1550B24LGH	71-1550B24QGH
5.25" - 5.75" & 8.5" (Vertical Lift)	24-Tooth	71-1550B24LGH	71-1550B24QGH	32-Tooth	71-1550B32LGH	71-1550B32QGH
6.375" - 11"	32-Tooth	71-1550B32LGH	71-1550B32QGH	42-Tooth	71-1550B42LGH	71-1550B42QGH
13.5"	42-Tooth	71-1550B42LGH	71-1550B42QGH	56-Tooth	71-1550B56LGH	71-1550B56QGH
Not Sure	24-Tooth	71-1550B24LGH	71-1550B24QGH	32-Tooth	71-1550B32LGH	71-1550B32QGH

### Rolling Doors

Recommendations for 12-Tooth Operator Sprocket (700/1200)

Operator Series	Uninsulated Max 20ft Height - 8-9 in/sec Door Speed		Insulated Max 20ft Height - 8-9 in/sec Door Speed	
	Door Weight	Sprocket Tooth Count	Door Weight	Sprocket Tooth Count
700	up to 450 lbs	50-Tooth	up to 450 lbs	60-Tooth
	450 to 700 lbs	72-Tooth		
1200	700 to 1200 lbs	72-Tooth	450 to 900 lbs	72-Tooth
	1200 to 1800 lbs			

### Rolling Doors

Recommendations for 10-Tooth Operator Sprocket

(Standard for JHDC 2200 - Available as accessory kit for 700/1200 - part #71-1550B10LGH)

Operator Series	Uninsulated Max 20ft Height - 8-9 in/sec Door Speed		Insulated Max 20ft Height - 8-9 in/sec Door Speed	
	Door Weight	Sprocket Tooth Count	Door Weight	Sprocket Tooth Count
700	up to 450 lbs	42-Tooth	up to 450 lbs	50-Tooth
	450 to 700 lbs	56-Tooth		
1200	700 to 1200 lbs	56-Tooth	450 to 900 lbs	60-Tooth
2200	1200 to 1800 lbs	56-Tooth	900 to 2200 lbs	72-Tooth
	1800 to 2200 lbs	72-Tooth		

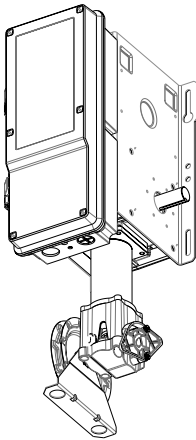
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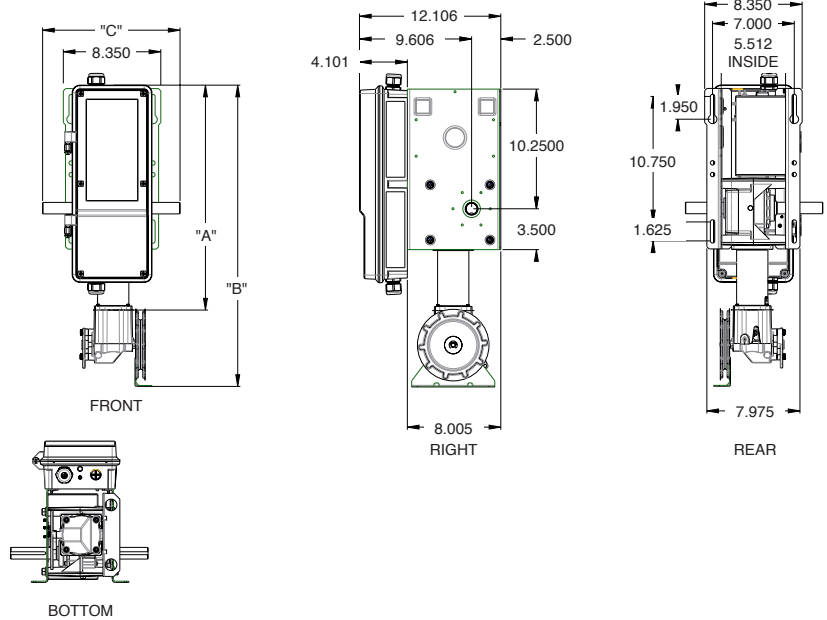
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### Dimensions

	A	B	C
700 lb. "MC" Models	19.2"	25.7"	9.8"
700 lb. "E" Models			11.8"
1200 lb. "MC" Models	19.5"	26.0"	9.8"
1200 lb. "E" Models			11.8"



### JHDC7 & JHDC12 MODELS



### JHDC22X1BMC & JHDC22X4BMC

