



COMMERCIAL DOOR OPERATORS



MEDIUM DUTY COMMERCIAL DOOR OPERATORS



ACCESS & DOOR HARDWARE
www.adhguardianusa.com
956-998-4011

MAXIMUM DOOR AREA (SQ. FT.)						
SQ. FT.	120	160	200	240	280	320
ROLLING	---	16 ga Steel	18 ga Steel	20 ga Steel	22 ga Steel	24 ga Steel
	---	---	Steel Grilles	---	Aluminum Doors	Aluminum Grilles
SECTIONAL	---	16 ga Uninsulated	18 ga Uninsulated	20 ga Uninsulated	22-24 ga Uninsulated	---
	16 ga Insulated	18 ga Insulated	20 ga Insulated	22-24 ga Insulated	---	---
	---	---	---	Wood	Aluminum	Fiberglass

ENTRAPMENT PROTECTION OPTIONS

C-201-N4	Guardian Photo-eyes, extended adjustable brackets in NEMA 4 enclosure
GUAT-201	Guardian Commercial Photo-eyes
E3JM	Omron, Photocell, thru beam
MEL-11-K110	Miller Edge Wireless Door Edge Kit, Receiver & Transmitter, Monitored
MEL-11-TX10	Miller Edge Wireless Door Edge Transmitter, Monitored, EDGE LINK II
MLC-K72	Miller Edge, monitored light curtain, 6 ft., 16 elements
32NO	Air Switch, 2-wire
32SPDT	Air Switch, 3-wire
4/20/2002	Coil Cord, 18/2/20, 12', 20' extended

Note: Any Normally Open (NO) dry contact signal ancillary device or accessory is compatible with the Guardian MDJ/MDH/MDT Operator Circuitry.

OPTIONAL CONTROLS & ACCESORIES

Control Stations

PBS-1B-N1	Single button, NEMA-1 (Metal)
PBS-2B-N1	2-button, O/C, NEMA-1 (Metal)
PBS-3B-N1	3-button, O/C/S, NEMA-1 (Metal)
PBS-1B-N4	Single button, NEMA-4 (PVC)
PBS-2B-N4	2-button, O/C, NEMA-4 (PVC)
PBS-3B-N4	3-button, O/C/S, NEMA-4 (PVC)
IKX-R	Ext. Key Switch, Surface Mount
IKXL-R	Ext. Key Switch, ON/OFF Surface
IKXS-R	Ext. Key Switch w/Stop-B Surface

Radio Controls

RX5CC	303/390MHz, external receiver
RX5CC-OCS	OCS External receiver with 3-terminal connector
RX5ANT	Antenna, mounting bracket & 75" co-ax cable
RX5ANT-12	Antenna, mounting bracket & 12' co-ax cable
R3BCC-OCS	303/390MHz O/C/S remote, 1-door
D1B	Deluxe 1-Button Remote Control, 303MHz/390MHz
D2B	Deluxe 2-Button Remote Control, 303MHz/390MHz
D3B	Deluxe 3-Button Remote Control, 303MHz/390MHz
N4BD1	4-Button Remote Control, 1-dip switch button, 303MHz

Mechanical & Mounting Hardware

31-19-5	Hand chain for hoist (ft.)
RC41-X	#41 Roller chain (ft)
RCC41	Connecting link, #41 roller chain
RCH41	Half link, #41 roller chain
SASH-X	Sash-chain disconnect (ft)
HMB	Hood mounting bracket

GUARD-D	Drive belt cover
GUARD-H	Hoist wheel cover
GUARD-L	Limit sprocket cover
SPREADER-1.1	Chain Spreader Bar, 1"-1"
SPREADER-1-1.25	Chain Spreader Bar, 1"-1-1/4"

Medium Duty Jackshaft

	HP	Voltage	Phase	Frequency	Current (full load)
MDJ-50-11	1/2	120V	1	60Hz	6 amps

Application: Designed for use on commercial sectional doors with standard vertical or high lift tracks or on small rolling doors or grilles that will operate no more than 20 cycles/hr.

STANDARD FEATURES

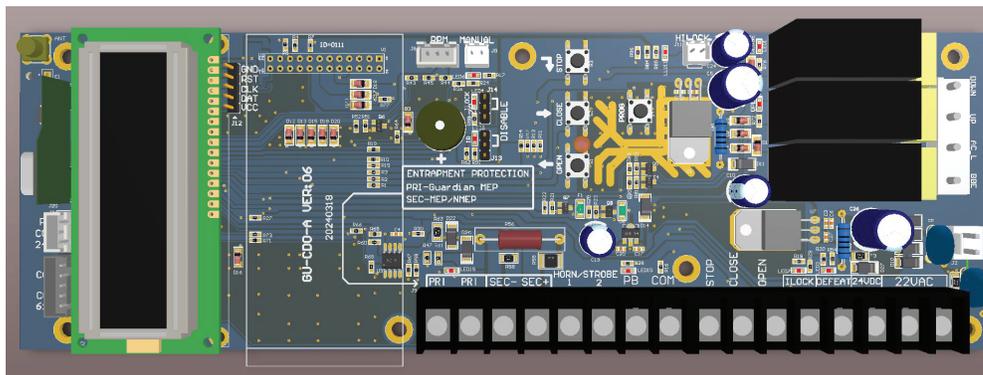
- Motor: 1/2HP with high-starting torque and thermal overload protection
- Ball bearings on drive shafts are permanently lubricated and sealed
- Clutch: Adjustable friction
- Drive reduction: First stage is an automatically tensioned heavy-duty V-belt and second stage #48 chain and sprocket
- 14T drive sprocket, #41 chain
- Door sprocket: 32T sectional or 48T rolling
- Brake: Solenoid actuated mechanical disc brake system
- Programmable B2, C2, D1, E1, T, TS operational modes
- Mechanical limits with metal limit nuts
- Photo-eyes included
- 3-Button O/C/S Station included
- 24V NEC Class 2 control
- NEMA 1 enclosure
- Left or right-hand mounting
- Emergency disconnect 16' sash chain & keeper for manual operation
- Radio control: Onboard or external terminals for 3-wire radio system
- Warranty: 2-year/20,000 cycle limited
- Door speed appx 8-9 in/s
- Weight: Shipping weight appx 65 lbs.



CONTROL SYSTEM

- LCD display on logic board for easy programming
- On-board open/close/stop buttons make testing simple
- Monitored entrapment capability
- Programmable timer-to-close

CONTROL BOARD



Medium Duty Hoist

	HP	Voltage	Phase	Frequency	Current (full load)
MDH-50-11	1/2	120V	1	60Hz	6 amps

Applications: Designed for use on commercial sectional doors with standard vertical or high lift track or on small rolling doors or grilles that will operate no more than 20 cycles/hr.

STANDARD FEATURES

- Motor: 1/2HP with high-starting torque and thermal overload protection
- Ball bearings on drive shafts permanently lubricated and sealed
- Clutch: Adjustable friction
- Drive reduction: First stage is an automatically tensioned heavy-duty V-belt and second stage #48 chain and sprocket
- 14T drive sprocket & #41 chain
- Door sprocket: 32T sectional or 48T rolling
- Brake: Solenoid actuated mechanical disc brake system
- Logic board: Programmable with LCD display for easy set-up with diagnostics and cycle-counter
- Programmable B2, C2, D1, E1, T, TS operational modes
- Mechanical limits with metal limit nuts
- Photo-eyes included
- 3-Button O/C/S Station included
- 24V NEC Class 2 control
- NEMA 1 enclosure
- Left or right-hand hoist
- Emergency disconnect for manual operation, 16' hoist chain
- Radio control: Onboard or external terminals for 3-wire radio system
- Warranty: 2-year/20,000 cycle limited
- Door speed appx. 8-9 in/s
- Weight: Shipping weight appx. 65 lbs.



SPROCKET OPTIONS

- | | |
|---|--|
| 41B14T 14T sprocket, 1" bore | 41B32T 32T sprocket, 1" bore, sectional doors (std) |
| 41B18T 18T sprocket, 1" bore | 41B48T 48T sprocket, 1" bore, rolling doors (std) |
| 41B32-125T 32T sprocket, 1.25" bore, sectional doors | 41B48-125T 48T sprocket, 1.25" bore, rolling doors |
- Note:** 1/4" keyway standard on all sprockets

RADIO CONTROLS

- Guardian radio control receiver on-board with O/C/S programming capability
- Co-ax antenna connector on board
- Connection terminals for a 3-wire radio control system
- Compatible with 3-button controls for open/close/stop operation

Medium Duty Trolley

	HP	Voltage	Phase	Frequency	Current (full load)
MDT-50-11	1/2	120V	1	60Hz	6 amps

Applications: Designed for use on commercial sectional doors with standard lift up to 14' high and up to 20 cycles/hr.

STANDARD FEATURES

- Motor: 1/2HP with high-starting torque and thermal overload protection
- Ball bearings on drive shafts permanently lubricated and sealed
- Clutch: Adjustable friction
- Drive reduction: First stage is an automatically tensioned heavy-duty V-belt and second stage #48 chain and sprocket
- Brake: Solenoid actuated mechanical disc brake system optional
- Logic board: Programmable with LCD display for easy set-up with diagnostics and cycle-counter
- Programmable B2, C2, D1, E1, T, TS operational modes
- Mechanical limits with metal limit nuts
- Photo-eyes included
- 3-Button O/C/S Station included
- 24V NEC Class 2 control
- NEMA 1 enclosure
- Radio control: Onboard or external terminals for 3-wire radio system
- Robust dual L-track for up to 14' high door
- Swing up header bracket
- Rail spacers
- Spring loaded manual disconnect arm
- Warranty: 2-year/20,000 cycle limited
- Door speed appx. 8-9 in/s
- Weight: Shipping weight appx. 52 lbs. without track



OPTIONS

MDT-50-11	Medium-Duty Trolley Operator
MDT-50-11-B	Medium-Duty Trolley Operator with brake

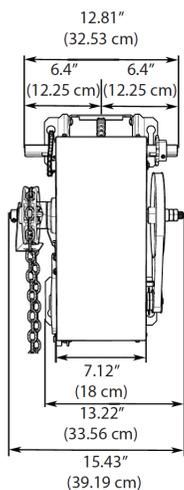
TRACK

T12	Track/#48 Chain up to 12' door
T14	Track/#48 Chain, 14' door

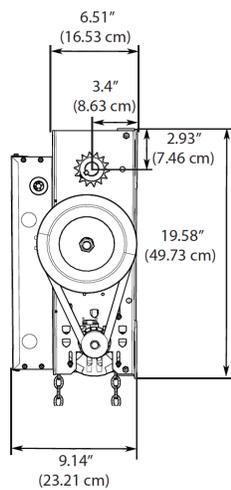
Chain, trolley, and rail hardware shipped with operator.

Two L-tracks shipped separately

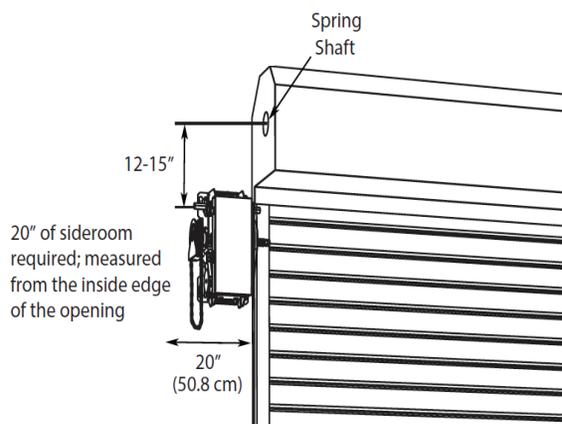
INSTALLATION INFORMATION



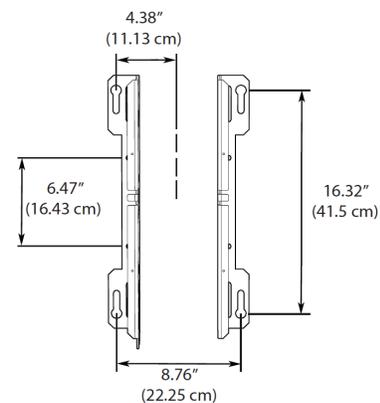
Front View



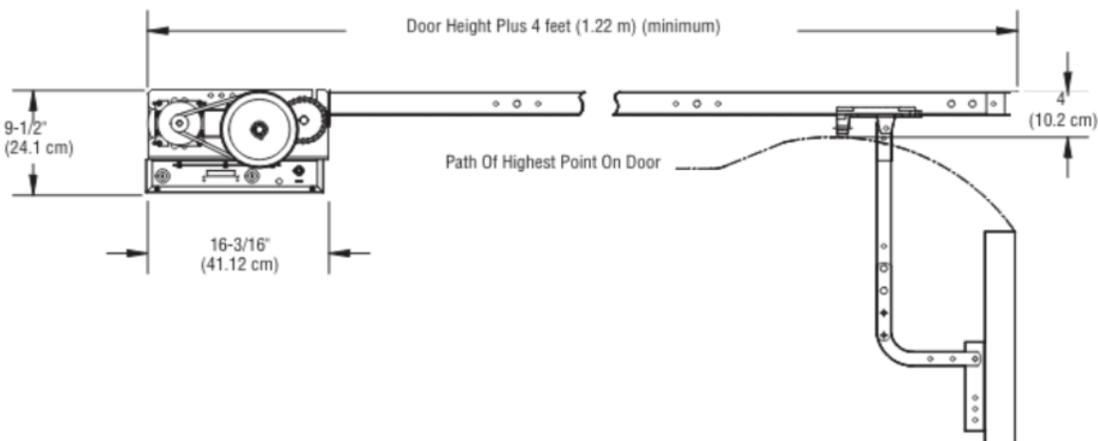
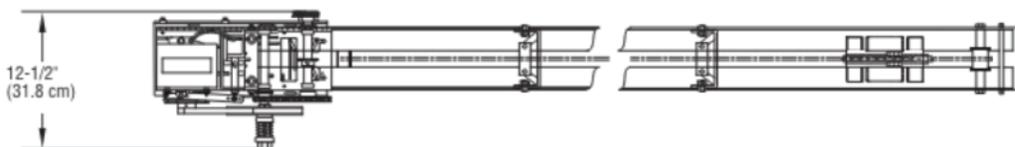
Side View



Wall Mounting



Bracket mounting



ORDERING INFORMATION



Information to supply

- Model type: Jackshaft, Hoist, Trolley
- Door height
- Door width
- Type of Door
- Safety devices needed
- Door shaft diameter
- Hoist: RH or LH
- Trolley: With or without brake
- Guards: With or without