

Linear | Door Operator Products



Order Information

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These Linear products are available nationwide at hundreds of conveniently located local distributors branches. The innovative products are available where you need them and when you need them, making Linear the natural choice for your entry system solutions.

Linear products are distributed by:



All these brands are now under one name.



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Door Operators

Sometimes less is a lot more. That's the case with the expanded line of Linear residential and commercial garage door operators. In many cases, because we use many of the same parts model to model, dealers can stock reduced inventory, yet offer a wider range of models. Chain or belt drive. Drawbar or Jackshaft. Different horsepower and voltages. You can mix and match the operators that move the best in your market.



1-2-3 INSTALLATIONS

Linear's extraordinary attention to design details will enable you to zip right through each job.

- Fast and easy rail connection
- Non-polarity beam and wall station wiring
- All sensitivity, limit adjustments, and transmitters learned on the same side of the head
- Wall station can mount to a single-gang electrical box or directly to the wall
- Beam bracket mounts to track or wall
- Dual beam brackets adjustable for any door
- Built-in diagnostics
- Tear strip on rail boxes
- Snap-in obstacle-sensing beams
- LEDs show power, as well as alignment
- Sonically sealed beams prevent water intrusion

For technical support or for assistance in designing a system using Linear Door Operator products, call us at (800) 421-1587.



FEATURE RICH

Linear operators come packed with standard features. On other operators, many of these features are options that cost extra or are not available at all.

- Gears mounted in transmission type case
- Worm gear reinforced ends with steel sleeve
- Drive shafts aligned with brass bushing
- One control board for all functions (AC units)
- Built-in vibration isolator hanging brackets on Linear's LSO & LCO models
- Built-in self diagnostics



THOROUGHLY TESTED

We test all our operators, not just as individual components, but as complete systems.

- 13-point function test — head to chain or belt, obstacle sensors to radio
- Results posted inside the operator case

FACTORY BACKED

We stand behind our operators by offering the industry's most generous warranties and the industry's best customer support.

- Lifetime warranties on LSO and LDO 1/2 HP motors, LCO 3/4 HP motor, LDCO800N DC motor
- Lifetime warranty on HBT belts
- East and West Coast distribution centers
- National field sales and support network



Product No. LCO75



LCO75

3/4 HP Deluxe Dual Lamp Garage Door Operator

Powerful to lift heavier doors. Built-in vibration isolation system for both motor and chassis practically eliminates noise and vibration.

FEATURES

- For residential carriage house door and light commercial applications
- Compatible with belt-drive or chain-drive T or I beam rails up to 14'
- Easy upgrade to I beam rail conversion kits
- Diagnostic system indicates six possible trouble conditions
- Dual 100-watt courtesy lamps (bulbs not included)
- Built-in MegaCode format receiver
- All operator controls and indicators on one side

WARRANTIES

- Lifetime — Motor
- Lifetime — Belt
- 5 years — Chain rails HCT7C, HCT8C, HCT10, HCI12
- 5 years — Mechanical parts
- 1 year — Electrical

OVERALL LENGTH

LCO75 with HBT7C/HCT7C: 126.5"

LCO75 with HBT8C/HCT8C: 141"

LCO75 with HCT10C: 161.5"

LCO75 with HCI12: 193.8"

OVERALL WEIGHT

LCO75: 25 lbs.

HBT7C: 18 lbs.

HBT8C: 20 lbs.

HCT7C: 21 lbs.

HCT8C: 23 lbs.

HCT10C: 27 lbs.

HCI12: 54 lbs.



LSO50

1/2 HP Premium Dual Lamp Garage Door Operator

Dual-lamp 1/2 HP residential garage door operator with superior vibration isolation mounting brackets and noise dampening acoustical foam.

FEATURES

- Noise reduction technology
- Compatible with belt-drive or chain-drive T or I beam rails up to 10'
- Smooth, quiet operation
- Diagnostic system indicates six possible trouble conditions
- Dual 100-watt courtesy lights (bulbs not included)
- Built-in MegaCode format receiver
- All operator controls and indicators on one side

WARRANTIES

- Lifetime — Motor
- Lifetime — Belt
- 5 years — Chain rails HCT7C, HCT8C, HCT10C
- 5 years — Mechanical parts
- 1 year — Electrical

OVERALL LENGTH

LSO50 with HBT7C/HCT7C: 126.5"

LSO50 with HBT8C/HCT8C: 136"

LSO50 with HCT10C: 161.5"

OVERALL WEIGHT

LSO50: 21 lbs.

HBT7C: 18 lbs.

HBT8C: 20 lbs.

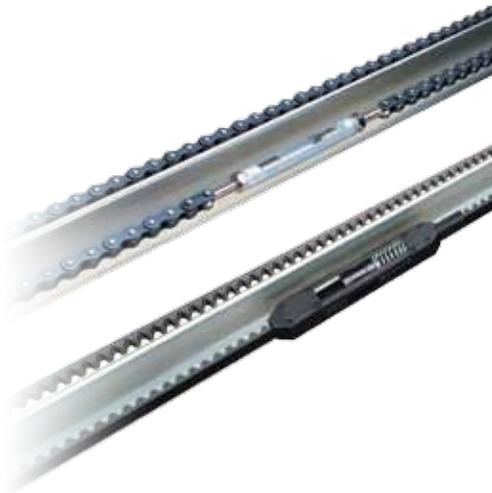
HCT7C: 21 lbs.

HCT8C: 23 lbs.

HCT10C: 27 lbs.



Product No. LSO50





Product No. LDCO800



LDCO800

800 Newton DC Powered Garage Door Operator

The energy-efficient, DC-powered operator that runs at an AC-equivalent speed. DC drive motor with smooth-start and soft-stop for ultra-quiet, long-term reliable performance.

FEATURES

- Superior, eco-friendly design
- Smooth start and soft stop for ultra-quiet operation
- Supplies 800 Newtons of lifting force for heavy doors
- Compatible with belt-drive or chain-drive T or I beam rails up to 10'
- Intelligent, self-learning, self-adjusting, torque settings
- 100-watt courtesy light (bulb not included)
- Built-in MegaCode format receiver

WARRANTIES

- Lifetime — Motor
- Lifetime — Belt
- 5 years — Chain rails HCT7C, HCT8C, HCT10C
- 5 years — Mechanical parts
- 1 year — Electrical

OVERALL LENGTH

LDCO800 with HBT7C/HCT7C: 124.5"

LDCO800 with HBT8C/HCT8C: 139"

LDCO800 with HCT10C: 159.5"

OVERALL WEIGHT

LDCO800: 16 lbs.

HBT7C: 18 lbs.

HBT8C: 20 lbs.

HCT7C: 21 lbs.

HCT8C: 23 lbs.

HCT10C: 27 lbs.

LDO50

1/2 HP Deluxe Single Lamp Garage Door Operator



Product No. LD050



Single-lamp 1/2 HP residential garage door operator.

FEATURES

- Compatible with belt-drive or chain-drive T or I beam rails up to 10'
- Rock solid performance
- Diagnostic system indicates six possible trouble conditions
- 100-watt courtesy light (bulb not included)
- Built-in MegaCode format receiver
- All operator controls and indicators on one side

WARRANTIES

- Lifetime — Motor
- Lifetime — Belt
- 5 years — Chain rails HCT7C, HCT8C, HCT10C
- 5 years — Mechanical parts
- 1 year — Electrical

OVERALL LENGTH

LDO50 with HBT7C/HCT7C: 122"

LDO50 with HBT8C/HCT8C: 137.5"

LDO50 with HCT10C: 157"

OVERALL WEIGHT

LDO50: 20 lbs.

HBT7C: 18 lbs.

HBT8C: 20 lbs.

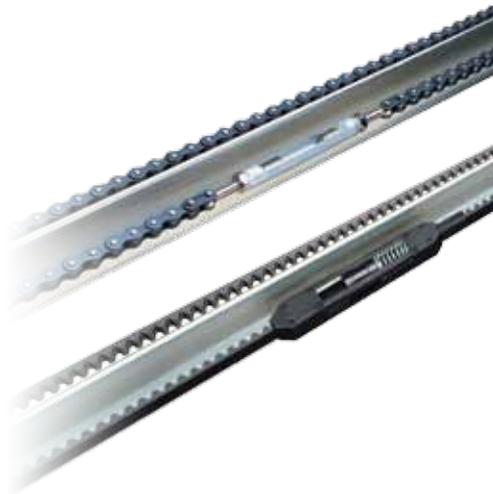
HCT7C: 21 lbs.

HCT8C: 23 lbs.

HCT10C: 27 lbs.



Product No. LD033



LDO33

1/3 HP Standard Single Lamp Garage Door Operator

Single-lamp 1/3 HP residential garage door operator.

FEATURES

- Compatible with belt-drive or chain-drive T or I beam rails up to 10'
- Rock solid performance
- Diagnostic system indicates six possible trouble conditions
- 100-watt courtesy light (bulb not included)
- Built-in MegaCode format receiver
- All operator controls and indicators on one side

WARRANTIES

- 10 years — Motor
- Lifetime — Belt
- 5 years — Chain rails HCT7C, HCT8C, HCT10C
- 5 years — Mechanical parts
- 1 year — Electrical

OVERALL LENGTH

LDO33 with HBT7C/HCT7C: 122"

LDO33 with HBT8C/HCT8C: 137.5"

LDO33 with HCT10C: 157"

OVERALL WEIGHT

LDO33: 20 lbs.

HBT7C: 19 lbs.

HBT8C: 20 lbs.

HCT7C: 21 lbs.

HCT8C: 23 lbs.

HCT10C: 27 lbs.

Belt and Chain Drive Operator Specifications

Model Number	Power	Warranties	Standard Equipment	Options
LCO75 Belt or Chain Drive 	3/4 HP AC Motor	Lifetime - Motor Lifetime - Belt 5 years - Mechanical Parts 1 year - Electrical	<ul style="list-style-type: none"> Deluxe Wall Station MCT-3 3-Channel Visor Transmitter Isolation Bracket Noise Dampened 	<ul style="list-style-type: none"> 7, 8, 10 ft. T Rails 12, 14 ft. I-Beam Rails CHCR I-Beam Conversion Rails Complete family of MegaCode Transmitters and Receivers
LSO50 Belt or Chain Drive 	1/2 HP AC Motor	Lifetime - Motor Lifetime - Belt 5 years - Mechanical Parts 1 year - Electrical	<ul style="list-style-type: none"> Deluxe Wall Station MCT-3 3-Channel Visor Transmitter Isolation Bracket Noise Dampened 	<ul style="list-style-type: none"> 7, 8, 10 ft. T Rails CHCR I-Beam Conversion Rails Complete family of MegaCode Transmitters and Receivers
LDC0800 Belt or Chain Drive 	800 Newton DC Motor	Lifetime - Motor Lifetime - Belt 5 years - Mechanical Parts 1 year - Electrical	<ul style="list-style-type: none"> Deluxe Wall Station MCT-3 3-Channel Visor Transmitter Smooth Start Soft Stop 	<ul style="list-style-type: none"> 7, 8, 10 ft. T Rails CHCR I-Beam Conversion Rails Complete family of MegaCode Transmitters and Receivers
LDO50 Belt or Chain Drive 	1/2 HP AC Motor	Lifetime - Motor Lifetime - Belt 5 years - Mechanical Parts 1 year - Electrical	<ul style="list-style-type: none"> Deluxe Wall Station MCT-3 3-Channel Visor Transmitter 	<ul style="list-style-type: none"> 7, 8, 10 ft. T Rails CHCR I-Beam Conversion Rails Complete family of MegaCode Transmitters and Receivers
LDO33 Belt or Chain Drive 	1/3 HP AC Motor	10 years - Motor Lifetime - Belt 5 years - Mechanical Parts 1 year - Electrical	<ul style="list-style-type: none"> Deluxe Wall Station MCT-3 3-Channel Visor Transmitter 	<ul style="list-style-type: none"> 7, 8, 10 ft. T Rails CHCR I-Beam Conversion Rails Complete family of MegaCode Transmitters and Receivers

Standard Equipment

included



In addition to your choice of head units and belt or chain rail in multiple lengths, Linear systems come supplied with an easy-to-install obstacle sensing system (includes 35 feet of wire on each beam and 20 feet for wall station), all necessary mounting hardware, and the following items:

Deluxe Wall Station

- Controls for UP/DOWN/STOP, lights, vacation switch ON/OFF
- Backlit LEDs always on to enable users to find controls in the dark

MCT-3 3-Channel Visor Transmitter

- Three channels – homeowners with three operators (or who live in a gated community) need only one remote per car
- Red LED lets user know unit is transmitting
- Dual position visor clip

Obstacle-Sensing Beams

- Snap-in non-polarized obstacle-sensing beams
- Sonically sealed to prevent water intrusion



ACT-21A and ACT-22A



ACT-31B and ACT-31C



ACT-34B and ACT-34C



MCT-1



MCT-2



MCT-11



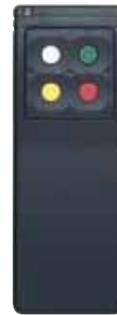
MCT-3



MDT-1A



MDT-2A



MDT-4A



FT-1



MDTK

TRANSMITTERS

- MCT-1 — 1-channel visor
- MCT-2 — 2-channel visor
- MCT-3 — 3-channel visor
- MCT-11 — 1-channel visor
- MDT-1A — deluxe 1-channel visor
- MDT-2A — deluxe 3-channel visor
- MDT-4A — deluxe 4-channel visor
- MT-1B — 1-channel visor
- MT-2B — 2-channel visor
- ACT-31C — 1-channel custom block-coded key ring
- ACT-34C — 4-channel custom block-coded key ring
- ACT-31B — 1-channel block-coded key ring
- ACT-34B — 4-channel block-coded key ring
- ACT-22A — 3-channel key ring
- MDTK — residential wireless keypad
- ACT-21A — 1-channel key ring
- ACT-21B — 1-channel, block-coded key ring
- ACT-22B — 3-channel, block-coded key ring

I-RAIL CONVERSION KITS

Add CHCR I-rail conversion to standard T-rails to create stronger rails for heavy doors.

- CHCR-7/8 — fits HBT7C, HCT7C, HBT8C, HCT8C
- CHCR-8 — fits HBT8C and HCT8C
- CHCR-10 — fits HCT10C

TEST EQUIPMENT

- FT-1 — RF Field tester

ACCESSORIES

- WIRE KIT — GDO wire and wire clips, 24 sets (Product number: HAE00009)
- CLIP KIT — Wire clips for GDO rails, 100 pieces (Product number: HAE00019)
- GEL CAP KIT — Wire splices for GDO wiring, 100 pieces (Product number: HAE00020)
- Center Support Bracket (CSB) — Used with I beam rails or conversion rails



Product No. MVP50

MVP50

1/2 HP Chain-Drive Residential Garage Door Operator

Single-lamp 1/2 HP chain-drive residential garage door operator.

FEATURES

- V-belt drive system - no plastic gears
- Full roller chain final drive
- Thermally protected motor
- Heavy-duty, one-piece T-rail and steel trolley
- Ideal for carriage house doors

RAIL OPTIONS

- MCT7 - 7 ft. chain assembly
- MCT8 - 8 ft. chain assembly
- MCT10 - 10 ft. chain assembly

WARRANTIES

- Life — motor
- 20 years — drive system
- 2 years — electronics

CONTROLS

- Advanced MVP radio controls with Quik-Code™ programming
- 3-button MVP transmitter
- 7-function Super Deluxe Wall Station with keyless entry control option

SAFETY

- Advanced MVP “Smart” Radio system
- Multiple obstruction-sensing modes
- “SafeFinish” photobeam system



Product No. 190-111958

MVP-SB

1/2 HP SuperBelt Residential Garage Door Operator

Single-lamp 1/2 HP belt-drive residential garage door operator.

FEATURES

- Shock-absorbing door arm for sectional doors
- Total belt drive system - no plastic gears
- Final drive uses steel reinforced, toothed, quick-fit belt
- Noise reduction; sound-deadening composite on frame and cover; isolation mounts
- Thermally protected motor
- Heavy-duty, one-piece T-rail and all steel trolley
- Ideal for carriage house doors

RAIL OPTIONS

- 190-112303 - 7 ft. belt assembly
- 190-112304 - 8 ft. belt assembly
- 190-112922 - 10 ft. belt assembly

WARRANTIES

- Lifetime — motor and belt
- 20 years — drive system
- 2 years — electronics

CONTROLS

- Advanced MVP radio controls with Quik-Code™ programming
- 3-button MVP transmitter
- 7-function Super Deluxe Wall Station with keyless entry control option

SAFETY

- Advanced MVP “Smart” Radio system
- Multiple obstruction-sensing modes
- “SafeFinish” photobeam system

Standard Equipment

Included with MVP Operators

Linear's MVP50 and MVP-SB residential garage door operators are equipped with these items standard.



OPTICAL OBSTACLE SENSING

All Linear MVP GDO systems come standard with the Safe Finish photo beam system that is easy-to-install, all necessary mounting hardware, an 80 foot spool of wire for the beams and wall station, plus the following controls:



SUPER DELUXE WALL STATION

This vital control station mounts either to a single-gang electrical box or directly to the wall. It has separate controls for light, a recessed radio learn button, vacation switch ON/OFF, and UP/DOWN. Backlit LEDs are always on to enable users to find controls in the dark.



MVP-QC 3-BUTTON QUICK-CODE VISOR TRANSMITTER

Homeowners with two operators (or who live in a gated community) only need one remote per car because this model has three channels. A red LED lets the user know when it is transmitting. The MVP-QC is designed to easily fit in the user's hand or clip to a car visor.

Optional MVP Equipment



MVP-QC Product No. 190-110925

TRANSMITTERS

- MVP-QC — 3-Button MVP Quik-Code Transmitter
- MVP-WKE — Wireless Keypad

RAILS

Linear's MVP operators can be used with 7, 8, 10 foot chain or belt rails.

TEST EQUIPMENT

- FT-1 — RF Field tester LDR00001

ACCESORIES

- WIRE KIT — GDO wire and wire clips, 24 sets (Product number: HAE00009)
- CLIP KIT — Wire clips for GDO rails, 100 pieces (Product number: HAE00019)
- GEL CAP KIT — Wire splices for GDO wiring, 100 pieces (Product number: HAE00020)



MVP-WKE Product No. 190-110927



FT-1 Product No. LDR00001

The v2010 Solid State Controller

It's not just a board, it's an entire system!



Linear commercial door operators feature a solid state controller that reduces complexity of the operator and simplifies installation. It makes the operator ready right out of the box for most applications and reduces the “learning curve” for new installers. Many options are built-in so they don’t require special ordering from the factory. (Controller board not applicable to Model LCO75.)

FEATURES

- Used in single and 3-phase operators
- UL325 Listed
- Rated for continuous duty
- Reduces operator complexity
- Simplifies installation
- Reduces the “learning curve” for new installers
- Diagnostic LED indicators
- Wire harness connections for ease of service, no point-to-point wiring
- On-board OPEN/CLOSE/STOP buttons for service and adjustments
- Terminals labeled and grouped by function
- Six selectable operating modes; B2, C2, E2, etc.
- Seven adjustable features
- Auto-detect monitored photo beam or optical sensing edge for simplified installation
- Plug-in MVP receiver module compatible with Allstar & MVP transmitters
- Field adjustable built-in functions; timer to close, mid-stop, delay on reverse, maximum run time, etc.
- Single (five relay) replacement board services all Linear solid state commercial door operators
- Logic functions controlled by microprocessor
- Permanent memory saves user settings even if power is removed
- Finger-safe high voltage connection for power and motor
- Rated for horsepower and voltage
- Configured for motor type
- Can control contactor for high HP applications
- Only two limits required; open & close
- Close limit functions as reversing cutout and close limit
- Provision for interlock (disconnect, pass-door, etc.)

External Entrapment Protection Devices

UL325 2010 requires the use of approved monitored external entrapment protection devices or the operator must be constant pressure to close. Linear offers a broad range of approved devices:



Linear Photo Eyes:
Easy to adjust, 25' range



MillerEdge (ME and MT Families):
Many different edge styles with monitoring



OPTOEDGE by FRABA:
Field configurable enclosed optical edge



OPTOEYE by FRABA:
NEMA4 photo eyes, uses common emitter/detector with the OPTOEDGE

CDO Series Selection Guide

Match the Duty to the Door



Selecting the correct commercial operator and accessories for your specific application is a straight forward process: Just follow these three easy steps:

- 1 From the chart, find the Series of the model which fits the general specifications for your application. Then turn to the section in this book which includes the models and specifications for that series.
- 2 From the Models and Specifications Charts, choose the correct operator for your specific application. Consult the features listed as required. For unusual applications, call Linear for technical assistance.
- 3 Choose the options your specific application requires from the information listed in the Model and Specifications Charts. For center mount and rolling steel doors, determine the door size, shaft diameter, keyway, and number of door shaft turns to fully open the door.

	Standard Lift Sectional Doors	Vertical & High Lift Sectional Doors	Rolling Steel Curtain Doors
Light Duty 13 Cycles/Hour 50 Cycles/Day	LCO	-	-
Medium Duty 10 Cycles/Hour 75 Cycles/Day	MD	MJ	MH
Heavy Duty Continuous Cycling 25 Cycles/Hour 100 Cycles/Day	T	MGH J H	MGH H
Extended Duty Applications 35 Cycles/Hour 100+ Cycles/Day	AUD	AUJ	AUH
Extra Heavy Duty Applications 35 Cycles/Hour 150+ Cycles/Day	GT	MO	MO

LC075

Light Duty Drawbar Commercial Door Operator



Product No. LC075

3/4 HP Drawbar garage door operator for standard lift sectional doors.

RATINGS

- 115 VAC, Single phase, 3/4 HP only
- Maximum duty cycle: 13 cycles per hour, 50 cycles per day
- Maximum door height: 14 feet
- Shipping weight: 63 lbs.

FEATURES

- Noise-reducing technology for quieter operation
- Quick release door arm for manual operation
- Automatic reconnect trolley
- Standard door speed is approximately 9 inches per second
- Standard rail and chain assemblies for 8, 10, 12, and 14 foot doors
- Motor thermal overload protection
- Torque sensing reversing
- Solid state control circuitry
- Deluxe lighted wall station
- 3-Button MegaCode transmitter
- Built-in MegaCode receiver
- Includes infrared photo eye safety beam
- Dual courtesy lights

RAIL OPTIONS

- 12-foot rail (includes HCl12 12' chain I-rail)
- 14-foot rail (includes HCl12 12' chain I-rail and HCl+2 2' chain I-rail extension)
- CHCR-10 bolt-on I-rail conversion kit for carriage house doors, fits HCT10C 10-ft chain drive rail

WARRANTIES

- Lifetime — Motor
- 5 years — Chain
- 5 years — Mechanical parts
- 1 year — Electrical

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)
Fiberglass	250
Steel-24 Ga. Steel-22 Ga. Aluminum	210
Wood Steel-20 Ga. Steel-24 Ga. insulated	180
Steel-16 Ga. Steel-20 Ga. insulated	120



Product No. MD5011S

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)
Fiberglass	310
Steel-24 Ga. Steel-22 Ga. Aluminum	260
Wood Steel-20 Ga. Steel-24 Ga. insulated	225
Steel-16 Ga. Steel-20 Ga. insulated	150
Steel-16 Ga. insulated	100

MD Series

Medium Duty Drawbar Commercial Door Operator

1/2 HP Drawbar garage door operator for standard lift sectional doors.

RATINGS

- 115 VAC, Single phase, 1/2 HP only
- Maximum duty cycle: 10 cycles per hour, 75 cycles per day
- Maximum door height: 14 feet
- Shipping weight: 115 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- All Steel Frame
- V-Belt drive from motor to clutch shaft
- Adjustable friction clutch
- Full #65 Roller Chain Drive
- Quick release door arm for manual door operation
- Standard door speed is approximately 11 inches per second
- Standard rail & chain assembly for door up to 12' 6" high
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- 1/2 HP rigid base permanent split capacitor motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

RAIL OPTIONS

- Rail for up to 14' 6" high doors

COMMON OPTIONS

- Linear Photo Beam Kit: HAE00056
- Solenoid brake: Add -BK to model number
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years



Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)		
	310	420	570
Fiberglass			
Steel-24 Ga. Steel-22 Ga. Aluminum	285	350	520
Wood Steel-20 Ga. Steel-24 Ga. insulated	260	320	480
Steel-16 Ga. Steel-20 Ga. insulated	175	250	380
Steel-16 Ga. insulated	125	200	280
Operator size to use	1/3 HP	1/2 HP	3/4 HP

MODEL	HP	VOLTAGE & PHASE
T3311S	1/3	115V 1P
T3321S		230V 1P
T3323S		230V 3P
T3343S		460V 3P
T5011S	1/2	115V 1P
T5021S		230V 1P
T5023S		230V 3P
T5043S		460V 3P
T7511S	3/4	115V 1P
T7521S		230V 1P
T7523S		230V 3P
T7543S		460V 3P

T Series

Heavy-Duty Drawbar Commercial Door Operator

Heavy-duty drawbar garage door operator for standard lift sectional doors.

RATINGS

- Maximum duty cycle: 25 cycles per hour, 100 cycles per day
- Maximum door height: 22-1/2 feet
- Shipping weight: 135 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- All welded steel frame
- 5L V-Belt drive from motor to clutch shaft
- #65 Roller chain on 1/3 and 1/2 HP
- #41 Roller chain on 3/4 HP
- Quick disconnect door arm for manual door operation
- Solenoid brake standard on 3/4 HP (optional on 1/3 & 1/2 HP)
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single-button (residential type) radio control

RAIL OPTIONS

- Rail for up to 14' 6" high doors
- Rail for up to 16' 6" high doors
- Rail for up to 18' 6" high doors
- Rail for up to 20' 6" high doors
- Rail for up to 22' 6" high doors

COMMON OPTIONS

- Linear Photo Beam Kit: HAE00056
- Solenoid brake: Add -BK to model number
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years



Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)		
	330	420	570
Fiberglass			
Steel-24 Ga. Steel-22 Ga. Aluminum	310	395	540
Wood Steel-20 Ga. Steel-24 Ga. insulated	280	340	500
Steel-16 Ga. Steel-20 Ga. insulated	195	275	400
Steel-16 Ga. insulated	145	225	300
Operator size to use	1/3 HP	1/2 HP	3/4 HP

MODEL	HP	VOLTAGE & PHASE
AUD3311S	1/3	115V 1P
AUD3321S		230V 1P
AUD3323S		230V 3P
AUD3343S		460V 3P
AUD5011S	1/2	115V 1P
AUD5021S		230V 1P
AUD5023S		230V 3P
AUD5043S		460V 3P
AUD7511S	3/4	115V 1P
AUD7521S		230V 1P
AUD7523S		230V 3P
AUD7543S		460V 3P

AUD Series

Extended-Duty Drawbar Commercial Door Operator

Extended-duty drawbar garage door operator for standard lift sectional doors.

RATINGS

- Maximum duty cycle: 35 cycles per hour, 100+ cycles per day
- Maximum door height: 22-1/2 feet
- Shipping weight: 130 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- All Steel frame
- Adjustable friction clutch
- 3/4" Shafting used throughout
- #65 Roller chain on 1/3 HP
- #41 Roller chain on 1/2, 3/4 HP
- Solenoid brake standard on 3/4 HP (optional on 1/3 & 1/2 HP)
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

RAIL OPTIONS

- Rail for up to 14' 6" high doors
- Rail for up to 16' 6" high doors
- Rail for up to 18' 6" high doors
- Rail for up to 20' 6" high doors
- Rail for up to 22' 6" high doors

COMMON OPTIONS

- Linear Photo Beam Kit: HAE00056
- Solenoid brake: Add -BK to model number
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years



Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)		
	1/2HP	3/4HP	1HP
Fiberglass	420	570	625
Steel-24 Ga. Steel-22 Ga. Aluminum	350	520	575
Wood Steel-20 Ga. Steel-24 Ga. insulated	320	480	525
Steel-16 Ga. Steel-20 Ga. insulated	250	380	425
Steel-16 Ga. insulated	200	280	325
Operator size to use	1/2HP	3/4HP	1HP

MODEL	HP	VOLTAGE & PHASE
GT5011S	1/2	115V 1P
GT5021S		230V 1P
GT5023S		230V 3P
GT5043S		460V 3P
GT7511S	3/4	115V 1P
GT7521S		230V 1P
GT7523S		230V 3P
GT7543S		460V 3P
GT10011S	1	115V 1P
GT10021S		230V 1P
GT10023S		230V 3P
GT10043S		460V 3P

GT Series

Extra Heavy-Duty Gear Reduced Drawbar Commercial Door Operator

Extra heavy-duty gear reduced drawbar garage door operator for standard lift sectional doors.

RATINGS

- Maximum duty cycle: 35 cycles per hour, 150+ cycles per day
- Maximum door height: 22-1/2 feet
- Shipping weight: 170 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- All steel frame
- Oil bath gear reduction unit
- Quick disconnect door arm for manual door operation
- #41 roller chain drive
- Standard door speed approximately 11 inches per second
- Adjustable Torque Converter
- Solenoid brake standard
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- TEFC Motor standard on single phase 1 HP and over, and all 3 phase operators
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

RAIL OPTIONS

- Rail for up to 14' 6" high doors
- Rail for up to 16' 6" high doors
- Rail for up to 18' 6" high doors
- Rail for up to 20' 6" high doors
- Rail for up to 22' 6" high doors

COMMON OPTIONS

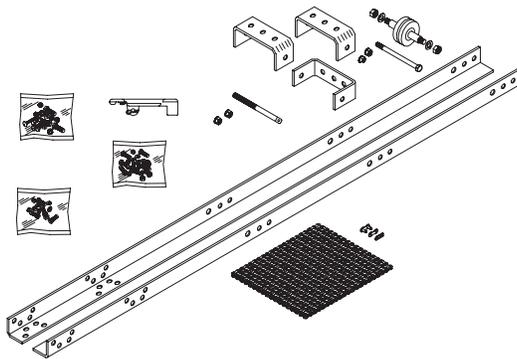
- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years

Drawbar Rails & Chains

Rail and Chain/Hardware Kits for Drawbar Operators



Drawbar/trolley operators require: Separately ordered rails and hardware kits. Longer rail and chain/hardware kits are available.

RAIL SELECTION

- From the first chart, choose a rail length that matches the door height. Most models fit multiple size doors. They are pre-drilled and marked to aid in cutting the rail to the desired length to fit the installation.
- Order two of the rail part numbers for each operator installation. One part will become the left side, and the other part will become the right side after the rail is assembled.
- From the second chart, choose a chain/hardware Kit that has the correct size chain for the operator, and the correct length of chain for the door height. Weather resistant nickel chain is also available in select lengths for rough service applications. The chain/hardware Kits include brackets, hardware, and chain.

OPERATOR RAILS (ORDER TWO PER OPERATOR)		
PART NUMBER	FITS DOOR HEIGHT	UNCUT SIZE
190-107358	10-FOOT 12-FOOT, OR 14-FOOT	2" x 2" x 204"
190-106719	16-FOOT OR 18-FOOT	2" x 2" x 252"
190-106721	20-FOOT OR 22-FOOT	2" x 2" x 300"
190-106722	24 FOOT	2" x 2" x 324"

CHAIN / HARDWARE KITS (ORDER ONE PER OPERATOR)			
Model MD: Uses #65 Chain			
Model AUD: Uses #65 Chain on 1/3 HP, #41 Chain on higher HP			
Model T: Uses #65 Chain on 1/3 & 1/2 HP, #41 Chain on higher HP			
Model GT: Uses #41 Chain for all HP			
PART NUMBER	CHAIN SIZE	CHAIN TYPE	DOOR HEIGHT
190-106936	#41	Standard	8-FOOT
190-106938	#41	Standard	10-FOOT
190-106940	#41	Standard	12-FOOT
190-106942	#41	Standard	14-FOOT
190-106944	#41	Standard	16-FOOT
190-106946	#41	Standard	18-FOOT
190-106948	#41	Standard	20-FOOT
190-106774	#41	Standard	22-FOOT
190-110082	#41	Standard	24-FOOT
190-108452	#41	Weather resistant nickel chain	12-FOOT
190-108454	#41	Weather resistant nickel chain	14-FOOT
190-108954	#41	Weather resistant nickel chain	16-FOOT
190-106935	#65	Standard	8-FOOT
190-106937	#65	Standard	10-FOOT
190-106939	#65	Standard	12-FOOT
190-106941	#65	Standard	14-FOOT
190-106943	#65	Standard	16-FOOT
190-106945	#65	Standard	18-FOOT
190-106947	#65	Standard	20-FOOT
190-107880	#65	Weather resistant nickel chain	10-FOOT
190-108451	#65	Weather resistant nickel chain	12-FOOT
190-108453	#65	Weather resistant nickel chain	14-FOOT
190-109009	#65	Weather resistant nickel chain	16-FOOT



Product No. MJ5011S

Equipped with Floor Level Disconnect

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)
Fiberglass	320
Steel-24 Ga. Steel-22 Ga. Aluminum	275
Wood Steel-20 Ga. Steel-24 Ga. insulated	250
Steel-16 Ga. Steel-20 Ga. insulated	160
Steel-16 Ga. insulated	120

MJ Series

Medium Duty Jackshaft Commercial Door Operator

1/2 HP Jackshaft garage door operator for vertical and high lift sectional doors.

RATINGS

- 115 VAC, Single phase, 1/2 HP only
- Maximum duty cycle: 10 cycles per hour, 75 cycles per day
- Maximum door height: 14 feet
- Shipping weight: 60 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- Solenoid brake standard
- All steel frame
- V-belt drive from motor to clutch shaft
- Adjustable friction clutch
- Floor level disconnect for manual door operation
- Manual operation will not affect limit switch settings
- 41B30 door sprocket and #41 drive chain supplied
- Standard door speed is approximately 11 inches per second
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- 1/2 HP rigid base permanent split capacitor motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

COMMON OPTIONS

- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed P/N 2650-159

WARRANTY

- 2 years



Product No. MH5011S

Equipped with
Chain Hoist and
Floor Level Disconnect

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)
Fiberglass	320
Steel-24 Ga. Steel-22 Ga. Aluminum	275
Wood Steel-20 Ga. Steel-24 Ga. insulated	250
Steel-16 Ga. Steel-20 Ga. insulated	160
Steel-16 Ga. insulated	120

MH Series

Medium Duty Jackshaft Commercial Door Operator

1/2 HP Jackshaft garage door operator for rolling steel curtain doors.

RATINGS

- 115 VAC, Single phase, 1/2 HP only
- Maximum duty cycle: 10 cycles per hour, 75 cycles per day
- Maximum door height: 14 feet
- Shipping weight: 80 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- Solenoid brake standard
- All steel frame
- V-belt drive from motor to clutch shaft
- Adjustable friction clutch
- Floor level disconnect for manual door operation and chain hoist with interlock
- Manual operation will not affect limit switch settings
- 41B30 door sprocket and #41 drive chain supplied
- Standard door speed is approximately 11 inches per second
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- 1/2 HP rigid base permanent split capacitor motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

COMMON OPTIONS

- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years



Equipped with Floor Level Disconnect

Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)			
	330	420	570	700
Fiberglass				
Steel-24 Ga. Steel-22 Ga. Aluminum	310	375	540	625
Wood Steel-20 Ga. Steel-24 Ga. insulated	280	340	500	560
Steel-16 Ga. Steel-20 Ga. insulated	195	275	400	420
Steel-16 Ga. insulated	145	225	300	310
Operator size to use	1/3 HP	1/2 HP	3/4 HP	1 HP

MODEL	HP	VOLTAGE & PHASE
J3311S	1/3	115V 1P
J3321S		230V 1P
J3323S		230V 3P
J3343S		460V 3P
J5011S	1/2	115V 1P
J5021S		230V 1P
J5023S		230V 3P
J5043S		460V 3P
J7511S	3/4	115V 1P
J7521S		230V 1P
J7523S		230V 3P
J7543S		460V 3P
J10023S	1	230V 3P
J10043S		460V 3P

J Series

Heavy-Duty Jackshaft Commercial Door Operator

Heavy-duty jackshaft garage door operator for vertical and high lift sectional doors.

RATINGS

- Maximum duty cycle: 25 cycles per hour, 100 cycles per day
- Maximum door height: 24 feet
- Shipping weight: 85 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- All Steel Frame
- All gears and pulleys pinned or keyed
- Adjustable friction type clutch
- Floor level disconnect
- #50 Drive sprocket and chain
- Solenoid brake standard
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single-button (residential type) radio control

FACTORY OPTIONS

- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed P/N 2650-159

WARRANTY

- 2 years

H Series

Heavy-Duty Jackshaft Commercial Door Operator



Equipped with Chain Hoist and Floor Level Disconnect

Product No. See table below

Heavy-duty jackshaft garage door operator for vertical or high lift sectional doors and rolling steel curtain doors.

RATINGS

- Maximum duty cycle: 25 cycles per hour, 100 cycles per day
- Maximum door height: 24 feet
- Shipping weight: 105 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed (see Page 30)
- All Steel Frame
- All gears and pulleys pinned or keyed
- Adjustable friction type clutch
- Chain hoist with electrical interlock
- Floor level disconnect
- #50 Drive sprocket and chain
- Solenoid brake standard
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single-button (residential type) radio control

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)			
	330	420	570	700
Fiberglass				
Steel-24 Ga. Steel-22 Ga. Aluminum	310	375	540	625
Wood Steel-20 Ga. Steel-24 Ga. insulated	280	340	500	560
Steel-16 Ga. Steel-20 Ga. insulated	195	275	400	420
Steel-16 Ga. insulated	145	225	300	310
Operator size to use	1/3 HP	1/2 HP	3/4 HP	1 HP

MODEL	HP	VOLTAGE & PHASE
H3311S	1/3	115V 1P
H3321S		230V 1P
H3323S		230V 3P
H3343S		460V 3P
H5011S	1/2	115V 1P
H5021S		230V 1P
H5023S		230V 3P
H5043S		460V 3P
H7511S	3/4	115V 1P
H7521S		230V 1P
H7523S		230V 3P
H7543S		460V 3P
H10023S	1	230V 3P
H10043S		460V 3P

FACTORY OPTIONS

- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years

AUJ Series

Extended-Duty Jackshaft Commercial Door Operator



Equipped with Floor Level Disconnect

Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)	
	Fiberglass	330
Steel-24 Ga. Steel-22 Ga. Aluminum	310	375
Wood Steel-20 Ga. Steel-24 Ga. insulated	280	340
Steel-16 Ga. Steel-20 Ga. insulated	195	275
Steel-16 Ga. insulated	145	225
Operator size to use	1/3 HP	1/2 HP

MODEL	HP	VOLTAGE & PHASE
AUJ3311S	1/3	115V 1P
AUJ3321S		230V 1P
AUJ3323S		230V 3P
AUJ3343S		460V 3P
AUJ5011S	1/2	115V 1P
AUJ5021S		230V 1P
AUJ5023S		230V 3P
AUJ5043S		460V 3P

Extended-duty jackshaft garage door operator for vertical and high lift sectional doors.

RATINGS

- Maximum duty cycle: 35 cycles per hour, 100+ cycles per day
- Maximum door height: 24 feet
- Shipping weight: 90 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- All Steel frame
- Adjustable friction clutch
- 3/4" Shafting and 1" Jackshaft
- Pillow block bearings on output shaft
- Floor level disconnect
- #41 Chain and Sprocket, 1/3 & 1/2 HP
- Solenoid brake standard
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

FACTORY OPTIONS

- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years



Equipped with
Chain Hoist and
Floor Level Disconnect

Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)			
	330	420	570	700
Fiberglass				
Steel-24 Ga. Steel-22 Ga. Aluminum	310	375	540	625
Wood Steel-20 Ga. Steel-24 Ga. insulated	280	340	500	560
Steel-16 Ga. Steel-20 Ga. insulated	195	275	400	420
Steel-16 Ga. insulated	145	225	300	310
Operator size to use	1/3 HP	1/2 HP	3/4 HP	1 HP

MODEL	HP	VOLTAGE & PHASE
AUH3311S	1/3	115V 1P
AUH3321S		230V 1P
AUH3323S		230V 3P
AUH3343S		460V 3P
AUH5011S	1/2	115V 1P
AUH5021S		230V 1P
AUH5023S		230V 3P
AUH5043S		460V 3P
AUH7511S	3/4	115V 1P
AUH7521S		230V 1P
AUH7523S		230V 3P
AUH7543S		460V 3P
AUH10023S	1	230V 3P
AUH10043S		460V 3P

AUH Series

Extended-Duty Jackshaft Commercial Door Operator

Heavy-duty jackshaft garage door operator for rolling steel curtain doors.

RATINGS

- Maximum duty cycle: 35 cycles per hour, 100+ cycles per day
- Maximum door height: 24 feet
- Shipping weight: 110 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- All Steel frame
- Adjustable friction clutch
- 3/4" Shafting and 1" Jackshaft
- Pillow block bearings on output shaft
- Chain hoist with interlock and floor level disconnect
- #41 Chain and Sprocket, 1/3 & 1/2 HP
- #40 Chain and Sprocket, 3/4 & 1 HP
- Solenoid brake standard
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

FACTORY OPTIONS

- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years

MO Series

Extra Heavy-Duty Gearhead Jackshaft Commercial Door Operator



Equipped with Chain Hoist and Floor Level Disconnect

Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)				
	325	480	650		
Fiberglass					
Steel-24 Ga. Steel-22 Ga. Aluminum	300	430	560		
Wood Steel-20 Ga. Steel-24 Ga. insulated	275	390	500	680	
Steel-16 Ga. Steel-20 Ga. insulated	225	275	325	425	560
Steel-16 Ga. insulated	175	225	300	375	460
Operator size to use	1/2 HP	3/4 HP	1 HP	1-1/2 HP	2 HP

MODEL	HP	VOLTAGE & PHASE
MO5011S	1/2	115V 1P
MO5021S		230V 1P
MO5023S		230V 3P
MO5043S		460V 3P
MO7511S	3/4	115V 1P
MO7521S		230V 1P
MO7523S		230V 3P
MO7543S		460V 3P
MO10011S	1	115V 1P
MO10021S		230V 1P
MO10023S		230V 3P
MO10043S		460V 3P
MO15011S	1-1/2	115V 1P
MO15021S		230V 1P
MO15023S		230V 3P
MO15043S		460V 3P
MO20023S	2	230V 3P
MO20043S		460V 3P

Extra heavy-duty gearhead jackshaft garage door operator for vertical or high lift sectional doors and rolling steel curtain doors.

RATINGS

- Maximum duty cycle: 35 cycles per hour, 150+ cycles per day
- Maximum door height: 24 feet
- Shipping weight: 135 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- Oil bath gear reduction unit
- Chain hoist with electrical interlock
- #50 Chain and sprocket, 1/2 - 1HP
- #60 Chain and sprocket, 1-1/2 - 2HP
- Solenoid brake standard
- TEFC Motor standard on single phase 1 HP and over, and all 3 phase operators
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control

FACTORY OPTIONS

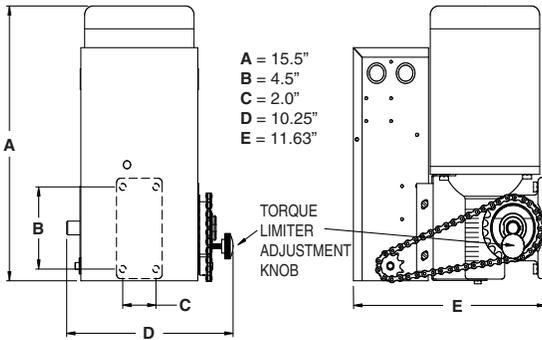
- Linear Photo Beam Kit: HAE00056
- Hood mounting bracket: P/N 190-107209
- Wall mounting bracket: P/N 190-107638
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years

MGH Series

Special Service Gearhead Jackshaft Commercial Door Operator



Special service gearhead jackshaft garage door operator for vertical or high lift sectional doors and rolling steel curtain doors.

RATINGS

- Maximum duty cycle: 25 cycles per hour, 100 cycles per day
- Maximum door height: 18 feet
- Shipping weight: 70 lbs.

FEATURES

- Solid state control circuit
- Constant pressure required to close if no entrapment devices are installed
- Oil-bath worm gear reduction unit
- Self locking gearing
- Adjustable torque limiter
- Release for manual operation
- Motor overload protection
- Wired to accept reversing devices
- Internally adjustable limit switches
- High starting torque, continuous duty motor
- 24-Volt control circuit with OPEN, CLOSE and STOP 3-button station
- OPEN button (and single button) will automatically override down travel and reverse door to the full open position
- External terminals for single button (residential type) radio control
- TEFC Motor standard on all 3 phase operators

FACTORY OPTIONS

- Linear Photo Beam Kit: HAE00056
- MVP-MR 3-channel open-close-stop modular receiver installed: P/N 2650-159

WARRANTY

- 2 years

Product No. See table below

DOOR TYPE	MAXIMUM DOOR AREA (SQ. FEET)	
	280	420
Fiberglass	280	420
Steel-24 Ga. Steel-22 Ga. Aluminum	230	320
Wood Steel-20 Ga. Steel-24 Ga. insulated	200	280
Steel-16 Ga. Steel-20 Ga. insulated	160	220
Steel-16 Ga. insulated	120	160
Operator size to use	1/3 HP	1/2 HP

MODEL	HP	VOLTAGE & PHASE
MGH3311S	1/3	115V 1P
MGH3321S		230V 1P
MGH3323S		230V 3P
MGH3343S		460V 3P
MGH5011S	1/2	115V 1P
MGH5021S		230V 1P
MGH5023S		230V 3P
MGH5043S		460V 3P

Factory Options

Drive Train Modification Selection Guide

When ordering a commercial door operator, there are several options for specific applications that can be selected. Most of these options are factory installed modifications, some may require assembly in the field.

- 1 From the chart below, choose the factory options that will be required for the application. Each option is explained in the chart.
- 2 Looking at the chart, verify that the modification desired is available for the model of operator being ordered. Some modifications are not compatible with certain models.
- 3 Add the modification part number to your operator order. Some modifications are ordered by simply adding the part number to the end of the operator's part number.

DRIVE TRAIN MODIFICATION SELECTION CHART															
PART #	DESCRIPTION	LCO	MD	T	AUD	GT	MJ	MH	J	H	AUJ	AUH	MO	MGH	M6H
-BK	Solenoid Brake Adds a solenoid activated brake to prevent door from drifting down after stopping		◆	◆ ⊕	◆ ⊕	*	*	*	*	*	*	*	*	*	
-FC	Friction Clutch Adjustable clutch to control door force												◆		
-BB	High Cycle Roller Bearing Modification Operator bearings are for high cycle service			◆	◆				◆	◆	◆	◆			
-XBK	External Brake Shoe Modification Provides a single external shoe brake on motor, 115 V only, No charge on 3/4 HP or larger units		◆	◆	◆		♣	◆	♣	♣	♣	♣			
-DC	Direct Couple - Side Mount Connects output shaft directly to door torsion bar										◆	◆			
-CM	Center Mount Modification Modifies operator for center mounting								◆		◆				
-50	#50 Drive Chain and Sprockets in lieu of #41										◆	◆			
-60	#60 Drive Chain and Sprockets in lieu of #50								◆	◆					
190-101524	Shaft Support Bracket Kit ★ Chain tension kit to reduce drive chain slack, For 1" diameter shafts ONLY						◆	◆	◆	◆	◆	◆	◆	◆	◆
190-106472	Chain Hoist for Drawbar Operator ★ Hoist for drawbar operators with #41 chain		◆	◆	◆										
190-104034	Auxiliary Hoist ★ Hoist for center mount jackshaft operators								◆		◆				
190-109645	Auxiliary Trolley Kit † Single drawbar/trolley conversion kit for jackshaft operators, #41 chain, (12' 6" rail adder applies)								◆	◆	◆	◆	◆		
190-109646	Dual Auxiliary Trolley Kit ‡ Dual drawbar/trolley conversion kit for jackshaft operators, #41 chain, (12' 6" rail adder applies)								◆	◆	◆	◆	◆		
190-109648	Dual Trolley Drive Kit ‡ Adds second drawbar/trolley to drawbar operator, #41 or #65 chain, (12' 6" rail adder applies)			◆	◆	◆									
190-109829	Minimum Depth Modification Places head parallel to rail to reduce tail overhang, #41 chain			◆											
190-107016	Slow Door Speed Modification Modification to slow operator, #65 chain			◆		◆									
190-109155	Slow Door Speed Modification Modification to slow operator, #41 chain			◆		◆									
	Rolling Steel Door Modification Modifies operator for rolling steel door											◆			

◆ = Available for the operator model S = Standard equipment for the operator model ⊕ = Standard equipment for 3/4 & 1 HP models
 ★ = Field assembly required † = Field assembly required, add to order one rail kit and two rails ‡ = Field assembly required, add to order two rail kits and four rails ♣ = No charge on these operators, regardless of HP

Factory Options

Environmental Modification Selection Guide

When ordering a commercial door operator, there are several options for specific applications with special environmental requirements that can be selected. These options are all factory installed modifications

- 1 From the chart below, choose the factory environmental options that will be required for the application. Each option is explained in the chart.
- 2 Looking at the chart, verify that the modification desired is available for the model of operator being ordered. Some modifications are not compatible with certain models.
- 3 Add the modification part number to the end of the operator's part number.

ENVIRONMENTAL MODIFICATION SELECTION CHART														
PART #	DESCRIPTION	LCO	MD	AUD	T	GT	MJ	MH	AUJ	AUH	J	H	MO	MGH
-TEFC	TEFC Motor (Totally Enclosed Fan Cooled)			◆	◆	◆			◆	◆	◆	◆	◆	
-N12	Control Enclosure Modification				◆				◆	◆	◆	◆	◆	
-N12P	NEMA 12/13 Oil-tight/Dust-tight Package					◆							◆	
-WASH	NEMA 4 Water Resistant Modification				◆	◆					◆		◆	
-N4X	NEMA 4X Corrosion Resistant Modification												◆	
-N7P	NEMA 7/9 for Hazardous Locations					◆							◆	

◆ = Available for the operator model

Part # -TEFC
TEFC Motor (Totally Enclosed Fan Cooled)

Standard operators (unless otherwise specified) are supplied with an ODP (Open Drip-proof) motor. The TEFC modification replaces the ODP motor with a fully enclosed and fan cooled motor. A fan (not enclosed) is attached to the end of the motor for cooling purposes. Not available for 1/3 HP motors

Part # -N12
Control Enclosure Modification

This modification provides for all electrical control equipment on the operator to be enclosed in a dust-tight/oil-tight NEMA 12 Control Enclosure. If the operator would normally be supplied or is ordered with a solenoid brake, the solenoid is not considered part of the electrical control equipment (it has no electrical contact points) and is supplied in a general purpose enclosure only. This modification is supplied with a NEMA 1 motor.

Part # -N12P
NEMA 12/13 Oil-tight/Dust-tight Package

Provides more complete protection against water spray, oil and other fluids than the Water Resistant Modification. Includes a TEFC Washdown duty motor, a NEMA 12/13 oil-tight/dust-tight control enclosure, oil-tight/dust-tight 3-button control station, nickel plated chain, a delay on reverse circuit and a dynamic brake replacing the solenoid brake. This allows the brake to also be enclosed in a oil-tight/dust-tight enclosure.

Part # -WASH
NEMA 4 Water Resistant Modification

Provides a water resistant motor, NEMA 4/12 water-tight/oil-tight control enclosure, water-tight/oil-tight 3-button control station and nickel-plated chain in place of all standard roller chain on the operator. **This operator uses a water resistant washdown duty motor and should not be compared to other manufacturer's "carwash" operators that have only a standard TEFC motor.**

Part # -N4X
NEMA 4X Corrosion Resistant Modification

This modification (available only on the MO series; 230 or 460 VAC, three phase; 1-1/2 hp maximum), provides water-tight/oil-tight and corrosion resistant components where possible, and includes a corrosion resistant TENV motor, NEMA 4X control circuit enclosure, NEMA 4X 3-button control station, dynamic brake, delay on reverse circuit, nickel plated chain and corrosion resistant coating on other components of the operator where possible.

Part # -N7P
NEMA 7/9 for Hazardous Locations

This modification meets requirements as defined by National Electrical Code for: Class I, Division I & II, Group D; Class II, Division I & II, Groups F & G. Includes NEMA 7 & 9 3-button control station. This modification may be provided as a complete operator package from another manufacturer. **Consult factory for specifics prior to ordering.**

Monitored Entrapment Devices

Commercial Door Operator Photo Beams



HAE00056
Linear Photo Beam Kit

Photo Beams

HAE00056 Linear infrared photo beam kit, 30-foot range, UL325 2010 Listed, includes adjustable emitter and detector mounting brackets, metal beam covers.

2510-476 Optoeye infrared photo beam kit, 45-foot range, UL325 2010 Listed, NEMA 4 rated, includes adjustable emitter and detector mounting brackets, mounting hardware.



2510-476
Optoeye Photo Beam Kit

Monitored Entrapment Devices

Commercial Door Operator Door Edges



2510-477
Optoedge Photo Edge Kit



2510-485-10
Miller Edge with Monitoring Module

OSE Door Edges

- 2510-477 Optoedge photo edge kit, 30-foot range, UL325 2010 Listed, includes infrared emitter/detector set, two NEMA 4 weathertight junction boxes, one 2-conductor 13-foot extended 24 AWG coil-cord, two adjustable height door bumpers, one stationary cord bracket with strain relief, and two sensor adapter sleeves.
- 2500-2554 Edge profile "Astragal" door seal for **sectional doors**, infrared beam passes through profile, use with 2510-477 Optoedge entrapment detector.
- 2500-2555 Edge profile "Astragal" door seal for **rolling steel doors**, infrared beam passes through profile, use with 2510-477 Optoedge entrapment detector.

Electric Edges

- 2510-485-10 10-foot Miller edge ME123 with monitoring module, C channel, mounting hardware, two junction boxes, 15-foot coil cord.
- 2510-485-12 12-foot Miller edge ME123 with monitoring module, C channel, mounting hardware, two junction boxes, 15-foot coil cord.
- 2510-485-14 14-foot Miller edge ME123 with monitoring module, C channel, mounting hardware, two junction boxes, 15-foot coil cord.
- 2510-486-10 10-foot Miller edge MT22 with monitoring module, two junction boxes, 15-foot coil cord.
- 2510-486-12 12-foot Miller edge MT22 with monitoring module, two junction boxes, 15-foot coil cord.
- 2510-486-14 14-foot Miller edge MT22 with monitoring module, two junction boxes, 15-foot coil cord.
- 2510-487-10 10-foot Miller edge MU22 with monitoring module, two junction boxes, 15-foot coil cord.
- 2510-487-12 12-foot Miller edge MU22 with monitoring module, two junction boxes, 15-foot coil cord.
- 2510-487-14 14-foot Miller edge MU22 with monitoring module, two junction boxes, 15-foot coil cord.

Add-on Monitoring Systems for Electromechanical Controllers

- 190-113428 Quik-protect Monitoring System - Monitors up to two sets of Access Alliance photo beams, Vitector Optical Sensing Edge (OSE) or Miller two or four-wire resistive safety edge.

Control Stations

Interior Controls & Weather-Tight Controls

Linear commercial door operators are designed to be used with the following control stations to function as a system. Consult factory for answers to system design questions.

All accessories are covered by their respective manufacturer's warranty. (NOTE: Product may vary from photo.)



2500-282 2500-288 2500-033 2510-115



2500-1773 2500-691 2520-047



2500-2089 2500-1486 2500-1482 2500-824



2500-834 2500-1322

Interior Controls

- 2500-282 Interior single-button station, surface mount, NEMA 1
- 2500-288 Interior 2-button station, surface mount, OPEN-CLOSE, NEMA 1
- 2500-033 Interior 3-button station, surface mount, OPEN-CLOSE-STOP, NEMA 1
- 2500-1773 Interior 2-button station, flush mount, OPEN-CLOSE, NEMA 1
- 2500-691 Interior 3-button station, flush mount, OPEN-CLOSE-STOP, NEMA 1
- 2510-115 Interior 3-button station, surface mount, OPEN-CLOSE-STOP, with lockout toggle switch, NEMA 1

Weather-Tight Controls

- 2520-047 Exterior mushroom head pushbutton (momentary contact), surface mount, NEMA 4
- 2500-2089 Exterior single-button station, surface mount, NEMA 4
- 2500-1486 Exterior 2-button station, surface mount, OPEN-CLOSE, NEMA 4
- 2500-1482 Exterior 3-button station, surface mount, OPEN-CLOSE-STOP, NEMA 4
- 2500-834 Exterior 2-button station with keyed lock, surface mount, OPEN-CLOSE, NEMA 4
- 2500-824 Exterior 3-button station with keyed lock, non-metallic, surface mount, OPEN-CLOSE-STOP, NEMA 4
- 2500-1322 Exterior 3-button station with keyed lock, surface mount, OPEN-CLOSE-STOP, NEMA 4
- 2500-514 Extra key for keyed stations

Control Stations

Keyed, Pull Switch, and Explosion Proof Controls



2500-2486 2500-2487
2500-2488 2500-2489



2500-289 2500-2483



2500-1129



2500-038 190-112410



2520-213

Keyed Controls

- 2500-2486 Interior key station, flush mount, OPEN-CLOSE with center return, NEMA 1
- 2500-2487 Interior key station, flush mount, OPEN-CLOSE with center return and STOP button, NEMA 1
- 2500-2488 Exterior key station, flush mount, OPEN-CLOSE with center return
- 2500-2489 Exterior key station, flush mount, OPEN-CLOSE with center return and STOP button
- 2500-289 Exterior key station, surface mount, OPEN-CLOSE with center return, NEMA 4
- 2500-2483 Exterior key station, surface mount, OPEN-CLOSE with center return and STOP button, NEMA 4
- 2500-1129 Exterior lockout control, surface mount, ON-OFF, key can be removed in either position, NEMA 4
- 2500-514 Extra key for keyed stations

Pull Switch Controls

- 2520-023 Ceiling pull switch, SPST, single function (OPEN only or CLOSE only), NEMA 4
- 2500-038 Ceiling pull switch, DPST, dual function OPEN-CLOSE, NEMA 4

Explosion Proof Controls

- 2520-213 Explosion proof 3-button wall station, surface mount, OPEN-CLOSE-STOP, NEMA 7 & 9
- 190-112410 Explosion proof ceiling pull switch, DPST, dual function OPEN-CLOSE, NEMA 7 & 9

Radio Controls

Commercial Door Operator Transmitters & Receivers

Linear commercial door operators are designed to be used with the following radio controls. Consult factory for answers to system design question (also see the Radio Control section of this catalog).



190-112630
MVP-OCS



190-111662
QC-CLASSIC-OCS



190-109372
8833T-OCS



190-109025
8833TC-OCS



190-107483
831T



190-107477
733T



190-107476
639T



190-107475
535T



190-113157
MVP-MR



190-112052
CKT-240



190-113317
MVP-R-24V-FC



190-110554
MVP-RE-24V-8W-FC



190-107480
831R



190-107478
831RJ

Allstar Transmitters

- 190-112630 MVP-OCS 3-Button Open-Close-Stop MVP Quik-Code Transmitter
- 190-111662 QC-CLASSIC-OCS 3-Button Open-Close-Stop Allstar Quik-Code Classic Transmitter
- 190-109372 8833T-OCS 3-Button, 1-Door, Open-Close-Stop, Transmitter
- 190-109025 8833TC-OCS 3-Button, 3-Door, Open-Close-Stop, Transmitter
- 190-107483 831T 3-Button 1-Door, Open-Close-Stop, Stationary Transmitter
- 190-107477 733T 3-Button 3-Door, Open-Close-Stop, Stationary Transmitter
- 190-107476 639T 3-Button 9-Door, Open-Close-Stop, Stationary Transmitter
- 190-107475 535T 3-Button 27-Door, Open-Close-Stop, Stationary Transmitter
- 190-112052 CKT-240 240-Door, Commercial Open-Close-Stop, Wireless Keypad

Allstar Receivers

- 190-113157 MVP-MR 3-Channel Open-Close-Stop Modular Receiver
- 2650-159 MVP-MR 3-Channel Open-Close-Stop Modular Receiver (installed in SS operator)
- 190-110554 MVP-RE-24V-8W-FC 1-Door Open-Close-Stop Receiver
- 190-113317 MVP-R-24V-FC 1-Channel Receiver
- 190-107480 831R 1-Door, Open-Close-Stop, 24-Volt Receiver
- 190-107481 831R-115V 1-Door, Open-Close-Stop, 115-Volt Receiver
- 190-107478 831RJ 1-Door, Open-Close-Stop, 24-Volt, Receiver in Oil Tight (JIC) Case
- 190-107479 831RJ-115V 1-Door, Open-Close-Stop, 115-Volt Receiver in Oil Tight (JIC) Case

Radio Controls

Commercial Door Operator Transmitters & Receivers



2500-2025
MT-1B



2500-2026
MT-2B



2500-2186
ACT-31B



2500-2187
ACT-34B



ACP00954
ACT-31D



ACP00955
ACT-34D



2500-2185
MDKP



2510-374
SMDRG



2500-2325
MDR/U



2520-512
AP-5



2510-409
MGR-2

MegaCode Transmitters

- 2500-2025 MT-1B 1-Channel factory block coded transmitter
- 2500-2026 MT-2B 2-Channel factory block coded transmitter
- 2500-2186 ACT-31B 1-Channel keychain block coded transmitter
- ACP00954 ACT-31D 1-Channel keychain block coded transmitter with built-in proximity tag
- 2500-2187 ACT-34B 4-Channel keychain block coded transmitter
- ACP00955 ACT-34D 4-Channel keychain block coded transmitter with built-in proximity tag
- 2500-2185 MDKP Wireless keypad, transmits 1-6 digit codes 250'

MegaCode Receivers

- 2510-374 SMDRG* 1-Channel extended range receiver (800'), with 15' coax
- 2500-2325 MDR/U 1-Channel 110VAC plug-in universal, receiver
- 2520-512 AP-5 Single door/gate controller (installed)
- 2510-409 MGR2* MegaCode 2-channel gate receiver (installed)
- 2500-2028 EXA-2000 Remote directional antenna

*Includes 2510-009 coax kit

