DYNA-HOIST AC SERIES

Standard Features:
- Motor: 1/2HP, 120V single phase intermittent-duty, open type motor with instant reverse and internal automatic reset thermal overload protection (60Hz). Removable without affecting limit switch settings.
- Reduction: First step in reduction 5L/B V-belt drive, additional steps by chain and sprockets. Input shaft is 5/8", supported by precision ball bearings. Output shaft is 1" with 1/4" keyway, supported by ball bearings. Output shaft speed: 36 rpm.
- Clutch: Friction type, positioned on input shaft, easily adjustable from outside.
- Drive: #41 roller chain with a 41B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6"/s to 12"/s.
- Brake: Mechanical brake.
- Manual Operation: Hoist-a-matic® self-engaging hoist (floor level engagement device is not required to operate) for manual chain operation. An electrical interlock automatically disconnects power to the motor operator when the chain hoist is engaged. Hoist on right is standard.
- Electrical Enclosure: All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.
- Limit System: Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.
- Accu-cam® Feature: Precise and quick one-handed adjustment of the limits.
- Corrosion Protection: Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.
- Mounting: Wall, hood, or shelf mounted on the right or on the left of the door. For indoor use only.
- Shipping Weight: Approx. 68 lbs - 31 kg.
- Warranty: 2 Years.

Richards-Wilcox Dyna-Hoist® Series

For properly balanced rolling steel doors with less than 80 lbs of imbalance, rolling sheet doors, vinyl doors or equivalents. For larger rolling doors, we recommend using a MO-OPH operator equipped with an electrically activated drum-band type solenoid brake.

The MO-OMH model is a medium-duty operator designed for use on standard, high and vertical lift sectional doors or small rolling doors and grilles. The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates the patented Hoist-a-matic®, a self-engaging chain hoist for manual operation, which simplifies operation and installation. The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).

www.rwdoors.com/dynahoist
DYNA-HOIST AC SERIES MO-OMJ (Page 4 & 5)
The MO-OMJ model is a medium-duty operator designed for use on standard, high and vertical lift sectional doors or small rolling doors and grilles.
The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates a floor level disconnect mechanism for manual operation.
Max Cycles/Day: **50**

DYNA-HOIST AC SERIES MO-OMH (Pages 6 & 7)
The MO-OMH model is a medium-duty operator designed for use on standard, high and vertical lift sectional doors or small rolling doors and grilles.
The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates the patented Hoist-a-matic®, a self-engaging chain hoist for manual operation, which simplifies operation and installation.
Cycles/Day: **50**

DYNA-HOIST AC SERIES MO-OPJ (Pages 8 & 9)
The MO-OPJ model is a heavy-duty industrial operator designed for use on standard, high and vertical lift sectional doors or rolling doors and grilles.
The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates a floor level disconnect mechanism for manual operation.
Max Cycles/Day: **100**

DYNA-HOIST AC SERIES MO-OPH (Pages 10 & 11)
The MO-OPH model is a heavy-duty industrial operator designed for use on standard, high and vertical lift sectional doors or rolling doors and grilles.
The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates the patented Hoist-a-matic®, a self-engaging chain hoist for manual operation, which simplifies operation and installation.
Max Cycles/Day: **100**
DYNA-HOIST AC SERIES MO-OSH (Page 12 & 13)
The MO-OSH model fills the gap between regular jackshaft and gearhead operators. This is an ultra high-end heavy-duty V-belt drive industrial operator designed for use on standard, high and vertical lift sectional doors or rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates a chain hoist for manual operation, with a floor level engaging device.

Max Cycles/Day: 100

DYNA-HOIST AC SERIES MO-OGH (Pages 14 & 15)
The MO-OGH model is a heavy-duty worm gear industrial operator designed for use on industrial standard, high and vertical lift sectional doors or rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates the patented Hoist-a-matic®, a self-engaging chain hoist for manual operation, which simplifies operation and installation.

Max Cycles/Day: 80

DYNA-HOIST AC SERIES MO-OMT (Pages 16 & 17)
The MO-OMT model is a medium-duty trolley operator designed for use on smaller and low-cycling industrial standard lift sectional doors.

It features a high starting torque intermittent-duty industrial type motor and a quick release disconnect arm.

Max Cycles/Day: 50

DYNA-HOIST AC SERIES MO-OTBH (Pages 18 & 19)
The MO-OTBH model is a heavy-duty low headroom trolley operator designed for use on industrial standard lift sectional doors. It incorporates a drum-band type solenoid brake.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (UL325-2010 compliant).

Max Cycles per hour 25 • Max Cycles/Day: 80
Standard Features

- **Motor:**
  1/2HP, 120V single phase intermittent-duty open type motor with instant reverse and internal automatic reset thermal overload protection (60Hz). Removable without affecting limit switch settings.

- **Reduction:**
  First step in reduction 5L/B V-belt drive, additional steps by chain and sprockets. Input shaft is 5/8", supported by precision ball bearings. Output shaft is 1" with 1/4” keyway, supported by ball bearings. Output shaft speed: 36 rpm.

- **Clutch:**
  Friction type, positioned on input shaft, easily adjustable from outside.

- **Drive:**
  #41 roller chain with a 41B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6"/s to 12"/s.

- **Brake:**
  Mechanical brake.

- **Manual Operation:**
  A floor level disconnect mechanism which must be engaged for manual push-up operation.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

- **Mounting:**
  Wall, hood, or shelf mounted on the right or on the left of the door. For indoor use only.

- **Shipping Weight:**
  Approx. 60 lbs - 27 kg.

- **Warranty:**
  2 Years.

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**Floor Level Disconnect**

Disconnect mechanism for manual operation

**Accu-cam® Limit Feature**

For precise and quick one-hand limit setting adjustments

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The MO-OMJ model is a medium-duty operator designed for use on standard, high and vertical lift sectional doors or small rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates a floor level disconnect mechanism for manual operation.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).
Control Options

- **ECB Units (BOARD 070):**
  24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor. Operating mode selectable on site: C2, B2, D1, E2, T or TS.

- **"M" Version:**
  Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges. Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.

- **"E" Version:**
  No monitoring function. Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

Note: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

- **Control Accessories:**
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external auxiliary output module. 2A fuse protected 24Vac output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

- **Mechanical Accessories:**
  Wall or hood mounting bracket, chain spreader, etc...consult inside sales.

- **Mechanical Modifications:**
  #50 roller chain, sprocket on final drive and limit shaft speed-up, etc...consult inside sales.

Options

- **Code**
  - **Description**
  - **(M) Version**
    - Monit.+N1 M-Photo Cells
  - **SPREADER001**
    - Spreader for 1" / 1-1/4" Keyway
  - **SPREADER002**
    - Spreader for 1" / 1-1/4" Keyway
  - **RADIOEM101**
    - 1-button transmitter
  - **RADIOEM102**
    - 3-button key chain transmitter
  - **RADIOEM103**
    - 3-button transmitter (SD/MD)
  - **RADIOEM104**
    - 4-button transmitter, 4 doors
  - **RADIOEM144**
    - 3-button transmitter, 144 doors

(1) Note: The use of a chain spreader is recommended on all jackshaft operators.

Dimensions

- **Clearance:** Side room required 15" (380 mm)
- **Maximum Door Height:** 14‘ (4260 mm)

Operator Range and Pricing

(Ex: MO-OMJ-6112-0E00)

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<th>Circuit Type</th>
<th>HP</th>
<th>Volts</th>
<th>Ph</th>
<th>Amp</th>
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<td>120</td>
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<tr>
<td></td>
<td>Other sprocket combinations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHAINKIT002</td>
<td>Disc. chain 14‘’ extension</td>
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<td></td>
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<tr>
<td>CHAINKIT004</td>
<td>Disc. chain 28‘’ extension</td>
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MO-OMJ model shown

<table>
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<th>Description</th>
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<td>(M)</td>
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<tr>
<td>SPREADER002</td>
<td>Spreader for 1“ / 1-1/4”(1)</td>
</tr>
<tr>
<td>RADIOEM101</td>
<td>1-button transmitter</td>
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<tr>
<td>RADIOEM102</td>
<td>3-button key chain transmitter</td>
</tr>
<tr>
<td>RADIOEM103</td>
<td>3-button transmitter (SD/MD)</td>
</tr>
<tr>
<td>RADIOEM104</td>
<td>4-button transmitter, 4 doors</td>
</tr>
<tr>
<td>RADIOEM144</td>
<td>3-button transmitter, 144 doors</td>
</tr>
</tbody>
</table>

(1) Note: The use of a chain spreader is recommended on all jackshaft operators.
Standard Features

- **Motor:**
  1/2HP, 120V single phase intermittent-duty, open type motor with instant reverse and internal automatic reset thermal overload protection (60Hz). Removable without affecting limit switch settings.

- **Reduction:**
  First step in reduction 5L/B V-belt drive, additional steps by chain and sprockets. Input shaft is 5/8", supported by precision ball bearings. Output shaft is 1" with 1/4" keyway, supported by ball bearings. Output shaft speed: 36 rpm.

- **Clutch:**
  Friction type, positioned on input shaft, easily adjustable from outside.

- **Drive:**
  #41 roller chain with a 41B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6"/s to 12"/s.

- **Brake:**
  Mechanical brake.

- **Manual Operation:**
  Hoist-a-matic® self-engaging hoist (floor level engagement device is not required to operate) for manual chain operation. An electrical interlock automatically disconnects power to the motor operator when the chain hoist is engaged. Hoist on right is standard.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

- **Mounting:**
  Wall, hood, or shelf mounted on the right or on the left of the door. For indoor use only.

- **Shipping Weight:**
  Approx. 68 lbs - 31 kg.

- **Warranty:**
  2 Years.

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**Hoist-a-matic®**
Self-engaging chain hoist with automatic cut-off

**Accu-cam® Limit Feature**
For precise and quick one-hand limit setting adjustments

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The MO-OMH model is a medium-duty operator designed for use on standard, high and vertical lift sectional doors or small rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates the patented Hoist-a-matic®, a self-engaging chain hoist for manual operation, which simplifies operation and installation.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).
**Control Options**

- **ECB Units (BOARD 070):**
  24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor.
  Operating mode selectable on site: C2, B2, D1, E2, T or TS.
- **"M" Version:**
  Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges.
  Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.
- **"E" Version:**
  No monitoring function.
  Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

Note: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

**Main Options**

- **Control Accessories:**
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24Vac output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.
- **Mechanical Accessories:**
  Wall or hood mounting bracket, chain spreader, etc...consult inside sales.
- **Mechanical Modifications:**
  Left hand chain hoist, #50 roller chain, sprocket on final drive and limit shaft speed-up, etc...consult inside sales.

**Dimensions**

- **Clearance:** Side required 15" (380 mm)
- **Maximum Door Height:** 14' (4260 mm)

**Operator Range and Pricing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Circuit Type</th>
<th>HP</th>
<th>Volts</th>
<th>Ph</th>
<th>Amp</th>
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<td>MO-OMH-6112-0</td>
<td>E</td>
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Door sprocket up to 41B36 (1-1/4" Bore, 1/4" Keyway)
Other sprocket combinations
Hand chain for door shaft >14'

**Options**

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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>(M) Version</td>
<td>Monit.+N1 M-Photo Cells</td>
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<td>SPREADER001</td>
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<td>SPREADER002</td>
<td>Spreader for 1&quot; / 1-1/4&quot;(1)</td>
</tr>
<tr>
<td>RADIOEM101</td>
<td>1-button transmitter</td>
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<td>RADIOEM102</td>
<td>3-button key chain transmitter</td>
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<tr>
<td>RADIOEM103</td>
<td>3-button transmitter (SD/MD)</td>
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<tr>
<td>RADIOEM104</td>
<td>4-button transmitter, 4 doors</td>
</tr>
<tr>
<td>RADIOEM144</td>
<td>3-button transmitter, 144 doors</td>
</tr>
</tbody>
</table>

(1) **Note:** The use of a chain spreader is recommended on all jackshaft operators.
Standard Features

- **Motor:**
  60Hz high starting torque, continuous-duty, single phase capacitor start or 3 phase motor, open drip proof, protected against overload.

- **Reduction:**
  First step in reduction 5L/B V-belt drive, additional steps by chain and sprockets. Input shaft is 5/8", supported by precision ball bearings. Output shaft is 1" with 1/4" keyway, supported by ball bearings. Output shaft speed: 41 rpm.

- **Clutch:**
  Friction type, positioned on input shaft, easily adjustable from outside.

- **Drive:**
  #50 roller chain with a 50B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6"/s to 12"/s.

- **Brake:**
  Mechanical brake.

- **Manual Operation:**
  A floor level disconnect mechanism which must be engaged for manual push-up operation. An electrical interlock automatically disconnects power to the motor operator when the manual operation is engaged.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

- **Mounting:**
  Wall, hood, or shelf mounted on the right or on the left of the door. For indoor use only.

- **Shipping Weight:**
  Approx. 65 lbs - 30 kg.

- **Warranty:**
  2 Years.

---

The MO-OPJ model is a heavy-duty industrial operator designed for use on standard, high and vertical lift sectional doors or rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates a floor level disconnect mechanism for manual operation.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).
Control Options

- **ECB Units (BOARD 070):** 24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor. Operating mode selectable on site: C2, B2, D1, E2, T or TS.

- **"M" Version:**
  Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges. Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.

- **"E" Version:**
  No monitoring function. Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

  Note: ANSI/CAN/UL325 and CAN-CSA C22.2 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

- **Control Accessories:**
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24V AC output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

- **Mechanical Accessories:**
  Wall or hood mounting bracket, chain spreader, etc...consult inside sales.

- **Mechanical Modifications:**
  Electrically activated drum-band type solenoid brake, cast iron flanged pillow block bearings on output shaft, limit shaft speed-up, etc...consult inside sales.

---

**Operator Range and Pricing** (Ex: MO-OPJ-6112-0E00)

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Door sprocket up to 50B42 (1-1/4" Bore, 1/4" Keyway)
Other sprocket combinations
- **CHAINKIT002** Disc. chain 14’ extension
- **CHAINKIT004** Disc. chain 28’ extension

Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(M) Version</td>
<td>Monit.+N1 M-Photo Cells</td>
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<tr>
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<td>Spreader for 1” / 1-1/4”(1)</td>
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<tr>
<td>RADIOEM101</td>
<td>1-button transmitter</td>
</tr>
<tr>
<td>RADIOEM102</td>
<td>3-button key chain transmitter</td>
</tr>
<tr>
<td>RADIOEM103</td>
<td>3-button transmitter (SD/MD)</td>
</tr>
<tr>
<td>RADIOEM104</td>
<td>4-button transmitter, 4 doors</td>
</tr>
<tr>
<td>RADIOEM144</td>
<td>3-button transmitter, 144 doors</td>
</tr>
</tbody>
</table>

(1) Note: The use of a chain spreader is recommended on all jackshaft operators.
Standard Features

- **Motor:**
  60Hz high starting torque, continuous-duty, single phase capacitor start or 3 phase motor, open drip proof, protected against overload.

- **Reduction:**
  First step in reduction 5L/B V-belt drive, additional steps by chain and sprockets. Input shaft is 5/8”, supported by precision ball bearings. Output shaft is 1” with 1/4” keyway, supported by ball bearings. Output shaft speed: 41 rpm.

- **Clutch:**
  Friction type, positioned on input shaft, easily adjustable from outside.

- **Drive:**
  #50 roller chain with a 50B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6”/s to 12”/s.

- **Brake:**
  Mechanical brake.

- **Manual Operation:**
  Hoist-a-matic® self-engaging hoist (floor level engagement device is not required to operate) for manual chain operation. An electrical interlock automatically disconnects power to the motor operator when the chain hoist is engaged. Hoist on right is standard.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in place when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

- **Mounting:**
  Wall, hood, or shelf mounted on either side of the door. For indoor use only.

- **Shipping Weight:**
  Approx. 86 lbs - 39 kg.

- **Warranty:**
  2 Years.

---

The MO-OPH model is a heavy-duty industrial operator designed for use on standard, high and vertical lift sectional doors or rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates the patented Hoist-a-matic®, a self-engaging chain hoist for manual operation, which simplifies operation and installation.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).

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(1) For properly balanced rolling steel doors with less than 80 lbs of imbalance, rolling sheet doors, vinyl doors or equivalents. For larger rolling doors, we recommend using an electrically activated drum-band type solenoid brake, see Mechanical Modifications.
Control Options

- **ECB Units (BOARD 070):**
  24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor.

Operating mode selectable on site: C2, B2, D1, E2, T or TS.

- **"M" Version:**
  Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges.

Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.

- **"E" Version:**
  No monitoring function.

Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

Note: ANSI/CAN/UL325 and CAN-CSA C22.2 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

- **Control Accessories:**
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24V AC output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

- **Mechanical Accessories:**
  Wall or hood mounting bracket, chain spreader, etc...consult inside sales.

- **Mechanical Modifications:**
  Left hand chain hoist, electrically activated drum-band type solenoid brake, cast iron flanged pillow block bearings on output shaft, limit shaft speed-up, etc...consult inside sales.

Dimensions

**Clearance:** Side room required 15" (380 mm)

Operator Range and Pricing (Ex: MO-OPH-6112-0E00)

<table>
<thead>
<tr>
<th>Code</th>
<th>Circuit</th>
<th>HP</th>
<th>Volts</th>
<th>Ph</th>
<th>Amp</th>
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<tr>
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<tr>
<td>MO-OPH-6232-0</td>
<td>E 1/2</td>
<td>208</td>
<td>3</td>
<td>2.1</td>
<td></td>
</tr>
<tr>
<td>MO-OPH-6432-0</td>
<td>E 1/2</td>
<td>480</td>
<td>3</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>MO-OPH-6532-0</td>
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<td>600</td>
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</tr>
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<td>3.2</td>
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<tr>
<td>MO-OPH-6433-0</td>
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<td>1.5</td>
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</tr>
<tr>
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<td>E 1</td>
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<td>3</td>
<td>1.6</td>
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Door sprocket up to 50B42 (1-1/4” Bore, 1/4” Keyway)
Other sprocket combinations
Hand chain for door shaft >14’

Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>(M) Version</td>
<td>Monit.+N1 M-Photo Cells</td>
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<tr>
<td>SPREADER001</td>
<td>Spreader for 1” / 1” (1)</td>
</tr>
<tr>
<td>SPREADER002</td>
<td>Spreader for 1” / 1-1/4” (1)</td>
</tr>
<tr>
<td>RADIOEM101</td>
<td>1-button transmitter</td>
</tr>
<tr>
<td>RADIOEM102</td>
<td>3-button key chain transmitter</td>
</tr>
<tr>
<td>RADIOEM103</td>
<td>3-button transmitter (SD/MD)</td>
</tr>
<tr>
<td>RADIOEM104</td>
<td>4-button transmitter, 4 doors</td>
</tr>
<tr>
<td>RADIOEM144</td>
<td>3-button transmitter, 144 doors</td>
</tr>
</tbody>
</table>

**Note:** The use of a chain spreader is recommended on all jackshaft operators.
Standard Features

- **Motor:**
  60Hz high starting torque, continuous-duty, single phase capacitor start or 3 phase motor, open drip proof, protected against overload.

- **Reduction:**
  First step in reduction 5L/B V-belt drive, additional steps by chain and sprockets. Input shaft is 3/4”, supported by cast iron flanged pillow block bearings. Output shaft is 1” with 1/4” keyway, supported by cast iron flanged pillow block bearings. Output shaft speed: 41 rpm.

- **Clutch:**
  Friction type, positioned on input shaft, easily adjustable from outside.

- **Drive:**
  #50 roller chain with a 50B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6”/s to 12”/s.

- **Brake:**
  Electrically activated drum-band type solenoid brake.

- **Manual Operation:**
  Emergency manual chain hoist. Floor level chain hoist engaging device with electrical cut-out. An electrical interlock automatically disconnects power to the motor operator when chain hoist is engaged. Hoist on right is standard.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

- **Mounting:**
  Wall, hood, or shelf mounted on the right or on the left of the door. For indoor use only.

- **Shipping Weight:**
  Approx. 96 lbs - 44 kg.

- **Warranty:**
  2 Years.

**Cast Iron Pillow Block Bearings**
Flanged pillow block bearings on the input and output shafts

**Solenoid Brake**
Drum-band type solenoid brake

**Accu-cam® Limit Feature**
For precise and quick one-hand limit setting adjustments

**Emergency Manual Chain Hoist**
With floor level chain hoist engaging device and electrical cut-out

The MO-OSH model fills the gap between regular jackshaft and gearhead operators. This is an ultra high-end heavy-duty V-belt drive industrial operator designed for use on standard, high and vertical lift sectional doors or rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates a solenoid brake and a chain hoist for manual operation, with a floor level engaging device.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).
Control Options

- ECB Units (BOARD 070):
  24Vac relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor.

  Operating mode selectable on site: C2, B2, D1, E2, T or TS.

- "M" Version:
  Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges.

  Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.

- "E" Version:
  No monitoring function.

  Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

  Note: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

- Control Accessories:
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24Vac output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

- Mechanical Accessories:
  Wall or hood mounting bracket, chain spreader, etc...consult inside sales.

- Mechanical Modifications:
  Left hand chain hoist, limit shaft speed-up, cogged v-belt, etc...consult inside sales.

Dimensions

Clearance: Side room required 16" (460 mm)

Operator Range and Pricing (Ex: MO-OSH-6112-0E00)

<table>
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<th>Code</th>
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<th>Ph</th>
<th>Amp</th>
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<td>1/2</td>
<td>480</td>
<td>3</td>
<td>1.0</td>
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<td>MO-OSH-6532-0</td>
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<td>3</td>
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<td>MO-OSH-6113-0</td>
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<td>120</td>
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<td>11.2</td>
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<td>1.5</td>
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<td>2.1</td>
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<td>600</td>
<td>3</td>
<td>1.6</td>
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</table>

Door sprocket up to 50B42 (1-1/4" Bore, 1/4" Keyway)
Other sprocket combinations
Hand chain for door shaft >14'

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>CHAINKIT002</td>
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<tr>
<td>CHAINKIT004</td>
<td>Disc. chain 28’ extension</td>
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Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>(M) Version</td>
<td>Monit.+N1 M-Photo Cells</td>
</tr>
<tr>
<td>SPREADER001</td>
<td>Spreader for 1” / 1”(1)</td>
</tr>
<tr>
<td>SPREADER002</td>
<td>Spreader for 1” / 1-1/4”(1)</td>
</tr>
<tr>
<td>RADIOEM101</td>
<td>1-button transmitter</td>
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<td>RADIOEM102</td>
<td>3-button key chain transmitter</td>
</tr>
<tr>
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<tr>
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<td>4-button transmitter, 4 doors</td>
</tr>
<tr>
<td>RADIOEM144</td>
<td>3-button transmitter, 144 doors</td>
</tr>
</tbody>
</table>

(1) Note: The use of a chain spreader is recommended on all jackshaft operators.

Richards-Wilcox Dyna-Hoist® Series
www.rwdoors.com/dynahoist
Standard Features

- **Motor:**
  60Hz high starting torque, continuous-duty, single phase capacitor start or 3 phase motor, open drip proof with enclosed ends or drip cover, protected against overload.

- **Reduction:**
  45:1 worm gear in oil bath reducer with air breather and sealed ball bearings. Output shaft is 1” with 1/4” keyway up to 1HP, 1-1/4” output shaft with 1/4” keyway above 1HP. Output shaft speed: 38 rpm.

- **Drive:**
  #50 roller chain with a 50B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6”/s to 12”/s.

- **Brake:**
  Electrically activated drum-band type solenoid brake.

- **Manual Operation:**
  Hoist-a-matic® self-engaging hoist (floor level engagement device is not required to operate), for manual chain operation. An electrical interlock automatically disconnects power to the motor operator when chain hoist is engaged. Hoist on right is standard, but it can be easily moved to the left in the field.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Reducer, control enclosure and frames protected by baked on, long lasting enamel finish. Limit and hoist shafts protected by yellow chromate coating.

- **Mounting:**
  Wall mounted, vertical front of hood mounted or horizontal top of hood mounted, on the right or the left of the door. The use of a wall mounting bracket is recommended. For indoor use only.

- **Shipping Weight:**
  Approx. 122 lbs - 55 kg.

- **Warranty:**
  2 Years.

---

**Hoist-a-matic®**
Self-engaging chain hoist with automatic cut-off

**Accu-cam® Limit Feature**
For precise and quick one-hand limit setting adjustments

The MO-OGH model is a heavy-duty worm gear industrial operator designed for use on industrial standard, high and vertical lift sectional doors or rolling doors and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates the patented Hoist-a-matic®, a self-engaging chain hoist for manual operation, which simplifies operation and installation.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).
Control Options

- **ECB Units (BOARD 070):**
  24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor. Operating mode selectable on site: C2, B2, D1, E2, T or TS.

- **“M” Version:**
  Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges. Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.

- **“E” Version:**
  No monitoring function. Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

  Note: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

- **Control Accessories:**
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24Vdc output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

- **Friction Clutch (Optional):**
  Easily adjustable slip clutch, ideally positioned on output shaft. Recommended for sectional doors.

- **Mechanical Accessories:**
  Wall or hood mounting bracket, chain spreader, etc...consult inside sales.

- **Mechanical Modifications:**
  Left hand chain hoist, #60 roller chain, sprocket on final drive, limit shaft speed-up, etc... consult inside sales.

### Operator Range and Pricing (Ex: MO-OGH-6112-0E00)

<table>
<thead>
<tr>
<th>Code</th>
<th>Circuit Type</th>
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<th>Amp</th>
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### Dimensions

**Clearance:** Side room required 15” (380 mm)

With friction clutch add: 1.5” (38 mm)

**Note:** The use of a chain spreader is recommended on all jackshaft operators.

### Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>(M) Version</td>
<td>Monit.+N1 M-Photo Cells</td>
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<tr>
<td>BRACKET111</td>
<td>Hood mounting angle bracket</td>
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<tr>
<td>BRACKET112</td>
<td>Wall mounting stud bracket</td>
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<td>Spreader for 1” / 1-1/4”(2)</td>
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<td>SPREADER003</td>
<td>Spreader for 1-1/4” / 1-1/4”(3)</td>
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<td>RADIOEM101</td>
<td>1-button transmitter</td>
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<tr>
<td>RADIOEM102</td>
<td>3-button key chain transmitter</td>
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<tr>
<td>RADIOEM103</td>
<td>3-button transmitter (SD/MD)</td>
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<tr>
<td>RADIOEM104</td>
<td>4-button transmitter, 4 doors</td>
</tr>
<tr>
<td>RADIOEM144</td>
<td>3-button transmitter, 144 doors</td>
</tr>
</tbody>
</table>

(1) **Note:** The use of a chain spreader is recommended on all jackshaft operators. Not available when using a friction clutch.
Standard Features

- **Motor:**
  1/2HP, 120V single phase intermittent-duty, open type motor with instant reverse and internal automatic reset thermal overload protection (60Hz). Removable without affecting limit switch settings.

- **Reduction:**
  First step in reduction 4L/A V-belt drive, additional step by #48 (#410) chain and sprockets. Input shaft is 5/8", supported by ball bearings. Output shaft is 1", supported by ball bearings. Output shaft speed: 112 rpm for a door travel of 11”/s.

- **Drive and Trolley Assembly:**
  #48 (#410) full roller chain drive. Dual, 12 gauge, pre-drilled galvanized tracks provided for doors up to 12Ft in height standard. Additional track lengths are available (max. door height acceptable for the operator limit system is 14Ft). Track spacers 3/4” steel shaft. Trolley made of cast aluminum alloy including a chain tension adjustment device.

- **Clutch:**
  Friction type, positioned on input shaft, easily adjustable from outside.

- **Manual Operation:**
  Quick release disconnect arm for manual push-up operation.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

- **Mounting (Low Headroom Design):**
  Ceiling-mounted with only 6.125” headroom clearance required below the tracks. For indoor use only.

- **Shipping Weight:**
  Approx. 60 lbs - 27 kg. + tracks.

- **Warranty:**
  2 Years.

---

**Low Headroom Design**
Requires only 6.125” of headroom clearance below the tracks

**Instant Reverse Motor**
With internal automatic reset thermal overload protection

**Accu-cam® Limit Feature**
For precise and quick one-hand limit setting adjustments

**Quick Release Disconnect Arm**
For manual push-up operation

**Hinged Cover**
For easy access to components and wiring

---

The MO-OMT model is a medium-duty trolley operator designed for use on smaller and low-cycling industrial standard lift sectional doors.

It features a high starting torque intermittent-duty industrial type motor and a quick release disconnect arm.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).
Control Options

- **ECB Units (BOARD 070):**
  24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor. Operating mode selectable on site: C2, B2, D1, E2, T or TS.

  - **"M" Version:**
    Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges. Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.

  - **"E" Version:**
    No monitoring function. Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

  Note: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

- **Control Accessories:**
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24Vac output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

- **Electrical Modifications:**
  Warning light wiring, etc...consult inside sales.

Dimensions

**Maximum Door Height:** 14’ (4260 mm)
**Back Room:** Door height + 3’11” (1175 mm)
**Head Room For Tracks:** 5” (127 mm) above the highest point of door travel

Operator Range and Pricing (Ex: MO-OMT-6112-0E00)

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<td>120</td>
<td>1</td>
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</table>

Track Hardware #48 (#410) chain
Track hardware up to 12’ door height
Additional track hardware >12’ high

Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>(M) Version</td>
<td>Monit.+N1 M-Photo Cells</td>
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<tr>
<td>KEYLESS042</td>
<td>Wireless exterior digital keypad</td>
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<td>RADIOEM101</td>
<td>1-button transmitter</td>
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<td>RADIOEM102</td>
<td>3-button key chain transmitter</td>
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<tr>
<td>RADIOEM103</td>
<td>3-button transmitter (SD/MD)</td>
</tr>
<tr>
<td>RADIOEM104</td>
<td>4-button transmitter, 4 doors</td>
</tr>
<tr>
<td>RADIOEM144</td>
<td>3-button transmitter, 144 doors</td>
</tr>
</tbody>
</table>
Standard Features

- **Motor:**
  60Hz high starting torque, continuous-duty, single phase capacitor start or 3 phase motor, open drip proof, protected against overload.

- **Reduction:**
  First step in reduction 5L/B V-belt drive, additional step by #41 chain and sprockets. Input shaft is 5/8", supported by precision ball bearings. Output shaft is 1", supported by ball bearings. Output shaft speed: 120 rpm for a door travel of 12”/s.

- **Drive and Trolley Assembly:**
  #48 (#410) full roller chain drive on 1/2 HP and #41 full roller chain drive on 3/4, 1 HP. Dual, 12 gauge, pre-drilled galvanized tracks provided for doors up to 12Ft in height standard. Additional track lengths are available (max. door height acceptable for the operator limit system is 30Ft). Track spacers 3/4” steel shaft. Trolley made of cast aluminum alloy with chain tension adjustment device.

- **Clutch:**
  Friction type, positioned on input shaft, easily adjustable from outside.

- **Brake:**
  Electrically activated drum-band type solenoid brake.

- **Manual Operation:**
  Quick release disconnect arm for manual push-up operation.

- **Electrical Enclosure:**
  All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover.

- **Limit System:**
  Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

- **Accu-cam® Feature:**
  Precise and quick one-handed adjustment of the limits.

- **Corrosion Protection:**
  Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

- **Mounting (Low Headroom Design):**
  Ceiling-mounted with only 6.25” headroom clearance required below the tracks. For indoor use only.

- **Shipping Weight:**
  Approx. 73 lbs - 33 kg + tracks.

- **Warranty:**
  2 Years.

The MO-OTBH model is a heavy-duty low headroom trolley operator designed for use on industrial standard lift sectional doors. It incorporates a drum-band type solenoid brake.

The operator is available with the Electronic Control Board (BOARD 070) with or without the option of electrical control for monitored external entrapment protection devices (ANSI/CAN/UL325 compliant).
Control Options

- ECB Units (BOARD 070):
  24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor. Operating mode selectable on site: C2, B2, D1, E2, T or TS.

- “M” Version:
  Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges.
  Certifications: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247.

- “E” Version:
  No monitoring function.
  Certifications: CAN-CSA C22.2 No.247 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.
  Note: ANSI/CAN/UL325 and CAN-CSA C22.2 No.247 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

- Control Accessories:
  Angled terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24VAC output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

- Mechanical Modifications:
  Dual trolley drive, trolley hoist, double v-belt, cogged v-belt, cast iron flanged pillow block bearings on input/output shafts, drum-shoe type solenoid brake, solenoid anti-vibration mounting, very heavy-duty front idler, minimum depth mounting, etc...consult inside sales.

- Electrical Modifications:
  Warning light wiring, etc...consult inside sales.

Dimensions

Back Room: Door height + 4’5” (1350 mm)
Head Room For Tracks: 5.625” (143 mm) above the highest point of door travel

Operator Range and Pricing (Ex: MO-OTBH-6112-0E00)

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Options

- (M) Version: Monit.+N1 M-Photo Cells
- RADIOEM101: 1-button transmitter
- RADIOEM102: 3-button key chain transmitter
- RADIOEM103: 3-button transmitter (SD/MD)
- RADIOEM104: 4-button transmitter, 4 doors
- RADIOEM144: 3-button transmitter, 144 doors
- RADIORE102: Ext. receiver 1000Tx
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<td>Monitored Photo Tr-Rec N1</td>
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<tr>
<td>PHOTO061</td>
<td>Monitored Photo Tr-Rec N4x + Soft Brkt</td>
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<td>PHOTO065</td>
<td>Monitored Retro Reflect Photo Nema 4x</td>
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<td>Airwave Switch Noc Ip65</td>
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<td>Airwave Wireless Switch Noc N4</td>
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<td>Wall Mounting Stud Bracket</td>
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<td>3 Button Transmitter 3x Sb-Config</td>
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<td>RADIOEM103SD</td>
<td>3 Button Transmitter O/C/S-Config</td>
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<td>RADIOEM104</td>
<td>4-Buttons Transmitter 4x Sb-Config</td>
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