The 4640 AUTO EQUALIZER™ is LCN’s SMART & RELIABLE electrically powered low-energy power operator. It provides easy access for people with disabilities, the elderly, or the frail. Designed primarily for manual opening applications that occasionally require automatic opening.

- **NEW Digital Control Suite**
- **Utilizes a 10,000,000 Cycle Heavy Duty Door Closer**
- **On-Board Diagnostics**
- **On-Board Power Supply**
- **Factory-Default Memory**
- **Plug-and-Play Connections**
- **No Destruct Feature**
- **No Guard Rails or Safety Mats Required**

The 4640 Series is UL and cUL listed with regular arm for self-closing doors and meets the provisions of ANSI Standards A117.1, A156.19, and the Americans with Disabilities Act.

- Standard, top jamb (push side) mounted 4640 series closer shipped with regular arm, metal cover, and wood and machine screw pack. Actuators available separately, see pages 199-215.
- Meets ADA requirements (power mode).
- Non-sized cylinders for interior doors to 4’6” and exterior doors to 3’6”.
- Non-handed for either right or left swinging door.
- 4640 has easily accessible switches to provide on/off and continuous hold open functions. 4640CS provides concealed on/off power switch. Control module provides all timing and sequential door functions, electric strike controls and adjustments for opening speed and force.
- Standard or optional custom powder coated finish, end caps are black.
- Optional plated finish on cover, arm, and fasteners.

<table>
<thead>
<tr>
<th>MOUNTING</th>
<th>FINISH</th>
<th>COVER</th>
<th>CYLINDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP JAMB (PUSH SIDE)</td>
<td>TOP JAMB (PULL SIDE)</td>
<td>PARALLEL ARM</td>
<td>POWERED ARM</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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</tbody>
</table>

- AVAILABLE
- NOT AVAILABLE

Meets ADA requirements (power mode).

See individual series for maximum manual opening. Switch provided for continuous Hold-Open (4640 only).
TOP JAMB (PUSH SIDE) MOUNTING

MAXIMUM OPENING
Templating allows 90° power opening and 100° manual opening.

Consult factory for all pivot mounted installations.

- **Butt Hinges** should not exceed 5” (127 mm) in width.
- **Auxiliary Stop** is recommended.
- **Reveal** of 4 1/2” (114 mm) allows up to 90° power opening and 100° manual opening. 8” (203 mm) allows up to 90° power opening and 100° manual opening with LONG ARM where standard rod and shoe is replaced with optional LONG ROD AND SHOE, 4640-79LR.
- **Head Frame** minimum 1 3/4” (44 mm). The standard mounting plate is also used to meet flush ceiling conditions.
- **Top Rail** minimum 1 3/4” (44 mm).
  Flush ceiling installation requires 3 3/4” (95 mm) minimum.
- **Opening Time and Force** are variable by adjustments to the electronic control module located on the operator assembly. Maximum hold open time adjustable up to approximately five minutes.
- **System Diagram** See “AUTOMATIC OPERATORS” section page 37 for typical system wiring and pages 38-39 for electrical data.

**Options**
- Long arm.

**Special Templates**
Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.
**CYLINDERS**

**CYLINDER ONLY, 4642-3971**
Standard, non-handed, cast iron cylinder.

**CYLINDER ASSEMBLY, 4642-3071**
Standard, non-handed, cast iron cylinder and mounting plate. Includes; 4640-3454 Motor Clutch, 4640-3180 I/O Board Assembly and 4640-3462 Controller.

**CYLINDER ASSEMBLY, 4642-3071CS**
Standard, non-handed, cast iron cylinder and mounting plate. Includes; 4640-3454 Motor Clutch, 4640-3180 I/O Board Assembly and 4640-3462 Controller. Same as a 4640-3071 assembly except on/off switch is concealed in endcap and no hold open switch is included. (separate key switches suggested)

**COVERS**

**COVER, 4640-72MC**
Standard, non-handed metal cover.

**ARMS**

**REGULAR ARM, 4640-3077**
Non-handed arm.

**LONG ARM, 4640-3077L**
Arm includes LONG ROD AND SHOE, 4640-79LR for deep reveals.

**ROD & SHOE, 9140-79**
Rod for use with regular arm.

**LONG ROD & SHOE, 9140-79LR**
Long rod for use with long arm.
**LCN 4640 SERIES**

**INSTALLATION ACCESSORIES**

**SWITCH END CAP, 4640-334**
End cap (black powder coat only) with cut outs for installing on/off and hold open switches.

**BLANK END CAP, 4640-334-2**
Black power coat only.

**SWITCH END CAP, 4640-334CS**
End cap and switch (black powder coat only) for concealed switch option.

**ON/OFF SWITCH ASSEMBLY, 4640-3179-1**
Red rocker switch. Plugs into high voltage PC board.

**HOLD-OPEN SWITCH ASSEMBLY, 4640-3179-2**
Black rocker switch. Plug into low voltage PC board.

**PC BOARD ASSEMBLY, 4640-3180**
High and low voltage PC boards connected to mounting bracket.

**MOTOR/CLUTCH ASSEMBLY, 4640-3454**
A geared assembly in an LCN power operator that incorporates a “no destruct” feature.

**CONTROL BOX ASSEMBLY, 4640-3462**
Digital controller with built-in 12/24 VDC power supply. Programming and timing functions are adjusted on controller.

**AC POWER CABLE, 4640-3498-2**
2 wire cable to connect 120 VAC from PC board assembly to controller.

**RIBBON CABLE CONNECTOR, 4640-3498-1**
16 wire ribbon cable connecting 1-24 pin terminal connectors to controller.
**TABLE OF SIZES**

Non-sized 4640 series cylinder is adjustable from size 2 through size 5 and is shipped set to size 3. Closing power of 4640 Series closers may be increased 50%.

Indicates recommended range of door width for closer size.

NOTE: Minimum door width 36” (914 mm)

**EXTERIOR (and VESTIBULE) DOOR WIDTH**

<table>
<thead>
<tr>
<th>Interior Door Width</th>
<th>36”</th>
<th>42”</th>
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<tbody>
<tr>
<td></td>
<td>914mm</td>
<td>1067mm</td>
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<table>
<thead>
<tr>
<th>Minimum Door Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>4642(CS) size 5</td>
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</table>

**INTERIOR DOOR WIDTH**

<table>
<thead>
<tr>
<th>Exterior (and VESTIBULE) DOOR WIDTH</th>
<th>36”</th>
<th>38”</th>
<th>48”</th>
<th>54”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>914mm</td>
<td>965mm</td>
<td>1219mm</td>
<td>1372mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Minimum Door Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>4642(CS) size 3 size 4 size 5</td>
</tr>
</tbody>
</table>

**HOW-TO-ORDER**

**4640 SERIES CLOSERS**

1. **SPECIFY FINISH.**
   - Standard Powder Coat ____________
   - Aluminum, Dark Bronze, Tan, Statuary,
   - Light Bronze, Black, Brass.

   *Closer will be shipped with:
   - STANDARD CYLINDER,
   - STANDARD METAL COVER,
   - REGULAR ARM, and
   - WOOD and MACHINE SCREW PACK,
   unless options listed below are selected.

2. **CLOSER OPTIONS**
   - CYLINDER ASSEMBLY
     - 4640CS (concealed on/off switch)
       (separate key switches suggested)
   - FINISH
     - Custom Powder Coat (RAL) _________
     - Plated Finish, US ________________
   - ARM
     - Long (LONG)
   - SCREW PACK
     - TB*, Wood & Machine Screw (TBWMS)
     - TORX Machine Screw (TORX)
     - TB* & TORX Machine Screw (TBTRX)
     *Specify door thickness if other than 1 3/4”.

   **SPECIAL TEMPLATE**
   - SF:_________