The 4110 SMOOTHEE® is LCN’s best performing heavy duty closer designed specifically for institutional and other rugged high traffic applications.

- Ten Million Cycles
- Cast Iron
- Extra Duty Forged Steel Arm Standard
- Double Heat Treated Steel Pinion
- All Weather Fluid
- LCN® Fast™ Power Adjust
- Fast & Accurate Installation
- UL & cUL Listed

- Standard 4110 series closer is shipped with EXTRA DUTY arm, standard plastic cover, 4110-201 FIFTH SCREW SPACER and self reaming and tapping screws. See 4110 Series pages 61 & 62 for options.
- Sized cylinders adjustable for interior doors to 5’0” and exterior doors to 4’0”.
- Non-sized cylinder adjustable for interior doors to 4’6” and exterior doors to 3’6”.
- Closer mounts parallel arm, specify right or left swinging door.
- 4111 cylinder meets ADA requirements. See 4110 Series page 63.
- Standard or optional custom powder coat finish.
- Optional plated finish on metal cover, arm and fasteners.
- Optional SRI primer for installations in corrosive conditions is available with powder coat only.
- The 4110 Series is UL and cUL listed for self-closing doors without hold-open.
- Tested and certified under ANSI Standard A156.4, grade one.

The 4111 includes the LCN. FAST™ Power Adjust, a revolutionary visual indicator for Spring Power Adjustment.

- Available
- Not available

Closer available with less than 5.0 lbs. opening force on 36” door.

*PARALLEL ARM (PUSH SIDE) MOUNT

*4110 HCUSH mount shown
PARALLEL ARM (PUSH SIDE) MOUNTING

MAXIMUM OPENING
EDA or Fusible Link arm can be templated for 100°,
\[A = 5 \frac{15}{16}'' (151 \text{ mm})\]
\[B = 7 1/4'' (184 \text{ mm})\]
140°,
\[A = 4 7/16'' (113 \text{ mm})\]
\[B = 5 3/4'' (146 \text{ mm})\]
or 180°,
\[A = 2 15/16'' (75 \text{ mm})\]
\[B = 4 1/4'' (108 \text{ mm})\]
Hold-open points up to maximum opening with HEDA or Fusible Link arm.

CUSH arm can be templated for maximum opening at 85°,
\[A = 8 5/16'' (211 \text{ mm})\]
\[B = 9 5/8'' (244 \text{ mm})\]
90°,
\[A = 7 11/16'' (195 \text{ mm})\]
\[B = 9'' (229 \text{ mm})\]
100°,
\[A = 6 7/16'' (164 \text{ mm})\]
\[B = 7 3/4'' (197 \text{ mm})\]
or 110°,
\[A = 5 9/16'' (141 \text{ mm})\]
\[B = 6 7/8'' (175 \text{ mm})\]
Hold-open point at maximum opening with HCUSH arm.
Spring Cush hold-open points are approximately 5° less than templated stop point.

Options
- Sized or non-sized cylinder.
- Delayed Action and/or Advanced Variable Backcheck cylinder.
- HEDA, CUSH, HCUSH, SPRING CUSH, SPRING HCUSH or Fusible Link arm.
- Metal or lead lined cover.

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

Butt Hinges should not exceed 5” (127 mm) in width.
Auxiliary Stop is recommended at hold-open point, where a door cannot swing 180°, or where CUSH-N-STOP arm is not used.
Clearance for EDA, or CUSH shoe is 5 1/2” (140 mm) from door face.
Top Rail less than 5 1/8” (130 mm) measured from stop requires PLATE, 4110-18. Plate requires 2” (51 mm) minimum measured from the stop.
Stop Width minimum 1” (25 mm).
Head Frame flush or rabatted requires 4110-145 arm or PA SHOE ADAPTER, 4110-418, Use CUSH FLUSH PANEL ADAPTER, 4110-419 with CUSH arms.
Reveal less than 2 3/4” (70 mm), use CUSH SHOE SUPPORT, 4110-30 with CUSH arms.
Blade Stop Spacer, 4110-61 required to clear 1/2” (13 mm) blade stop.
Cush Arm requires CUSH SHOE SUPPORT, 4110-30 for fifth screw anchorage with CUSH arms.
Delayed Action Add suffix “DEL” to selected cylinder (eg. 4114 DEL). Not available with 4115 or 4116 cylinder. Delays closing from maximum opening to approximately 70°. Delay time adjustable up to approximately 1 minute.
Advanced Variable Backcheck cylinder starts backcheck at approximately 45° instead of the normal 75°. Add suffix “AVB” to selected cylinder. When combined with Delayed Action consult factory for special template.
CYLINDERS
CYLINDER, 4110-3071
Standard, handed cast iron cylinder assembly.
For various applications see “Table of Sizes” on 4110 Series page 63.

COVERS
COVER, 4110-72
Standard, non-handed plastic cover.

LEAD LINED COVER, 4110-72LL
Optional, non-handed plastic cover.

METAL COVER, 4110-72MC
Optional, handed cover. Required for plated finishes and custom powder coat finishes.

ARMS
EXTRA DUTY ARM, 4110-3077EDA, 4110-62G, 4110-145
Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations.
Optional 4110-62G thick hub shoe for blade stop clearance.
Optional 4110-145 flush transom shoe for single rabetted installations. Optional shoes require special templating.

HOLD-OPEN ARM 4110-3049EDA
Optional handed arm provides hold-open function, adjustable at shoe.

FUSIBLE LINK ARM, 4110-3049FL
Optional, handed arm releases hold-open function adjustable at shoe when exposed to temperatures above 165°F.
NOTE: Check local codes before specifying FL arms. NOT A LIFE SAFETY PRODUCT!

CUSH-N-STOP ARM, 4110-3077CNS
Optional, handed parallel arm features solid forged steel main arm and forearm with built-in stop in soffit shoe.
H-CUSH ARM 4110-3049CNS
Optional handed arm provides hold-open function with templated stop/hold-open points.
Handle controls hold-open function.

SPRING CUSH ARM, 4110-3077SCNS
Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.

SPRING H-CUSH ARM, 4110-3049SCNS
Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe. Handle controls hold-open function.

INSTALLATION ACCESSORIES
PLATE, 4110-18, 4110-18CUSH
Required for push side mount where top rail is less than 5 1/8" (130 mm), measured from the stop.
Plate requires minimum 2” (51 mm) minimum top rail.
Plate also used with CUSH Arm installations.

CUSH SHOE SUPPORT, 4110-30
Provides anchorage for fifth screw used with CUSH arm, where reveal is less than 3 1/16” (78 mm).

BLADE STOP SPACER, 4110-61
Lowers parallel arm shoe to clear 1/2” (13 mm) blade stop

PA SHOE ADAPTER, 4110-418
Provides horizontal mounting surface for parallel arm shoe on single rabbed or flush frame.

CUSH FLUSH PANEL ADAPTER, 4110-419
Provides horizontal mounting surface for CUSH shoe on single rabbed or flush frame.
HOW-TO-ORDER

4110 SERIES CLOSERS

1. SELECT CYLINDER SIZE
   - 4111 (adjustable from size 1 to 5)
   - 4112
   - 4113
   - 4114
   - 4115 (DEL not available)
   - 4116 (DEL, SHCUSH or HCUSH arm not available)

2. SPECIFY HAND
   - RH
   - LH

3. SELECT FINISH
   - Standard Powder Coat __________
   - Aluminum, Dark Bronze , Tan, Statuary,
     Light Bronze, Black, Brass.

   Closer will be shipped with:
   - STANDARD COVER,
   - FIFTH SCREW SPACER
   - EDA ARM,
   - SELF-REAMING and TAPPING SCREWS,
   - unless options listed below are selected.

4110 CLOSER OPTIONS

CYLINDER
   - Delayed Action ((DEL), not available
     with 4115 or 4116)

COVER
   - Lead Lined (LL)
   - Metal (MC)

FINISH
   - Custom Powder Coat (RAL) ___________
     (handed metal cover required)
   - Plated Finish, US ______________
     (handed metal cover required)
   - SRI primer

SPECIFY ARM
   - Hold-Open Extra Duty (HEDA)
   - Fusible Link, 165° F (FL)
   - Cush-N-Stop (CUSH)
   - H-Cush-N-Stop (n/a with 4116 cylinder) (HCUSH)
   - Spring Cush (SCUSH)
   - Spring H-Cush (n/a with 4116 cylinder) (SHCUSH)

SCREW PACK
   - TB*, Self-Reaming & Tapping (TBSRT)
   - Wood & Machine Screw (WMS)
   - TB*, Wood & Machine Screw (TBWMS)
   - TORX Machine Screw (TORX)
   - TB* & TORX Machine Screw (TBTRX)

   * Specify door thickness if other than 1 3/4”.

INSTALLATION ACCESSORIES
   - Plate, 4110-18
   - CUSH Shoe Support, 4110-30
   - Blade Stop Spacer, 4110-61
   - PA Shoe Adapter, 4110-418
   - CUSH Flush Panel Adapter, 4110-419

SPECIAL TEMPLATE
   - ST-__________

REDUCED OPENING FORCE 4110 CLOSERS

CAUTION ! Any manual door closer, including those certified by BHMA to
conform to ANSI Standard A156.4, that is selected, installed and adjusted
based on ADA or other reduced opening force requirements may not provide
sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet
reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 lbs.</td>
<td>4111</td>
<td>4111</td>
<td>4111</td>
</tr>
<tr>
<td>5.0 lbs.</td>
<td>4111</td>
<td>4111</td>
<td>4111</td>
</tr>
</tbody>
</table>

* Maximum opening force