



M Series Mortise Locks Extra Heavy Duty



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Mortise Locks – M Series

ANSI 156.13 Grade 1, Extra Heavy Duty

Mechanical Type M Series



- Extra heavy duty mortise locks
- ANSI 156.13-2017 Grade 1
- UL/cUL listed

Wired Electrified Type No. 2081 & 2082



- Security control
- Restricted access use

Mortise Lock with push-pull trim No. HL22



- Meets ADA compliance
- UL listed for all fire doors
- Wide selection of functions
- Available to use with Schalge L Series Heavy Duty Mortise Locks

Mortise Deadlock SM Series

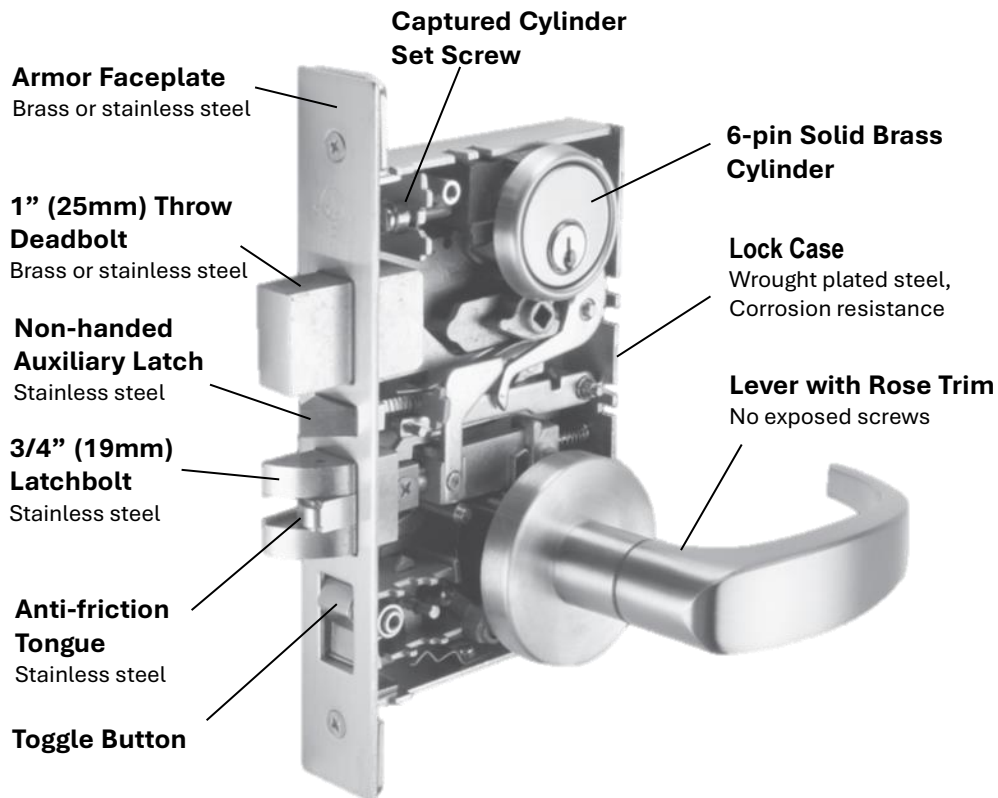


- Heavy duty small lockcase
- Higher security
- UL/cUL listed to Canadian safety standard for A label (3-hour fire door)

Mortise Locks – M Series

ANSI 156.13 Grade 1, Extra Heavy Duty

The M Series mortise locks comply with American National Standard Institute requirement (ANSI A156.13 – 2017 Grade 1) and provide a full range of multiple models to meet different demand for commercial, institutional, and industrial applications.



Features

- Full reversible design.
- No exposed mounting screws on outside and inside trims.
- It can retrofit American Schlage L9000 Series mortise lock bodies.
- Outside lever is *clutch freewheeling* design. The lever rotates when the lever is locked preventing excessive force from being applied to the horizontal level. This design can decrease the lever to be broken or damaged.

Certifications

- Meet ANSI A156.13 Series 1000 Grade 1 requirement
- UL/cUL listed to Canadian safety standard for A label (3-hour fire door), stamped letter F and UL symbol on armor faceplate
- Meet positive pressure requirements UL 10C and UBC 7-2 (1997)

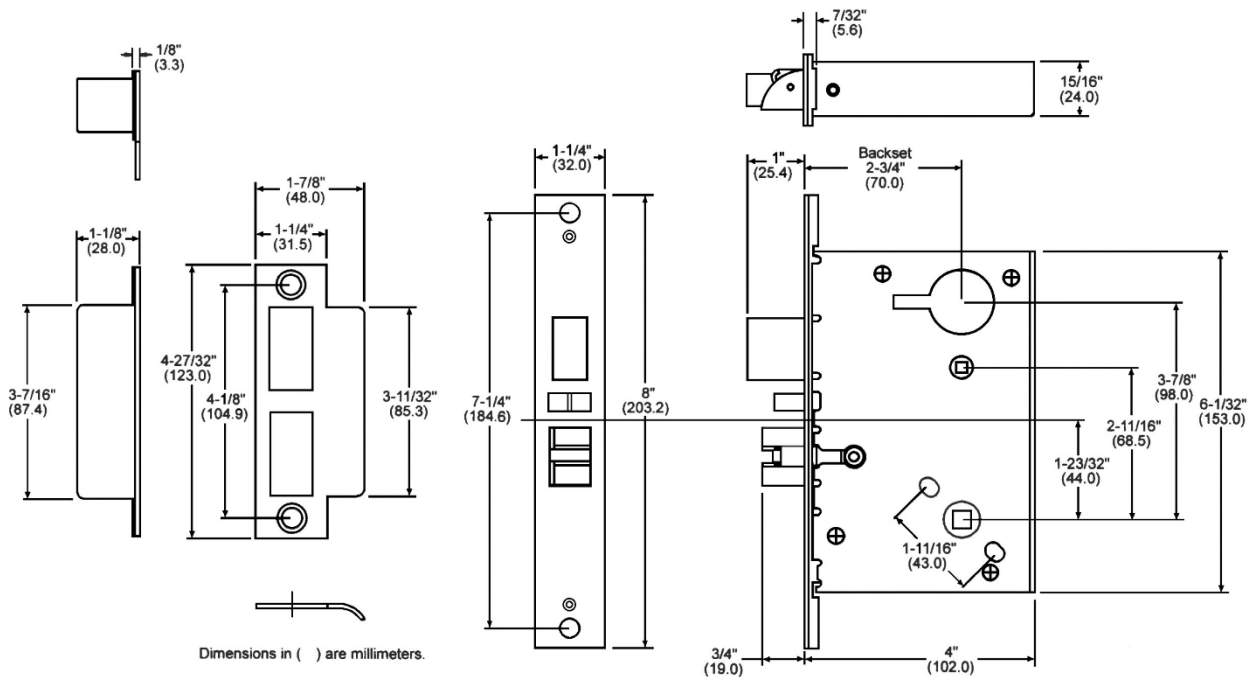
Mortise Locks – M Series

ANSI 156.13 Grade 1, Extra Heavy Duty

Specifications

For Doors	1-3/4" (44.5mm) thick standard For doors over 1-3/4" (44.5mm), specify door thickness
Lock Hand	Lock bodies are easily filed reversible, no need to specify hand when ordering
Backset	2-3/4" (70mm) only
Lock case	Heavy duty wrought steel; zinc dichromate plated
C to C	⌀ lever to ⌀ cylinder is 3-7/8" (98mm)
Armor Faceplate	Stainless steel; 8" x 1-1/4" (203.2mm x 32.0mm); ANSI Standard A115.1
Deadbolt	1" (25.4mm) throw; hardened stainless steel
Latchbolt	3/4" (19mm) throw; one-piece stainless steel with anti-friction reversible tongue
Auxiliary Latch	Stainless steel, non-handed
Toggle button	High rust-resistant chrome plated zinc alloy
Trims	As specified, see page 15~17.
Strike	Stainless steel; ANSI Standard A115.1; curve lip with dust box
Cylinders	Our lockcase can receive cylinders from other manufacturers. For details and Cam type, please see page 19.
Masterkeying	Can be masterkeyed or grand masterkeyed, construction keying available
Finishes	US3, US4, US10, US10B, US26, US26D, US32, US32D

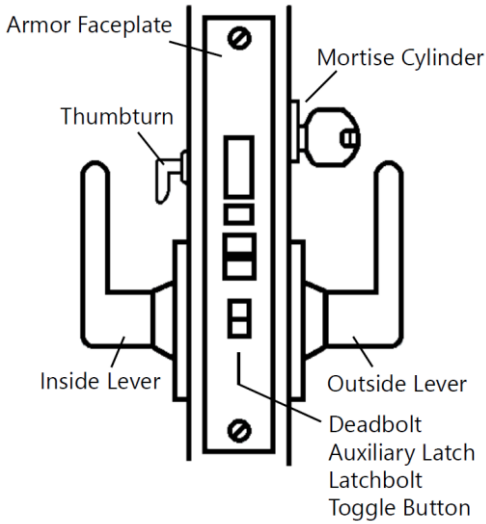
Dimensions



Mortise Locks – M Series

ANSI 156.13 Grade 1, Extra Heavy Duty

ANSI Function Diagram



Production Identification

M 3 4 1 5

Function Number

01~ 34 ANSI Numbers
Others Function Number

Deadbolt Function Number

4 = With Deadbolt
0 = No Deadbolt

Number of bolt hole on the Faceplate

0 = Faceplate has no hole (i.e. Dummy Trim)
1 = One hole for the deadbolt or latchbolt
2 = One for the deadbolt and one for the latchbolt or one for the auxiliary latch and one for the latchbolt
3 = One for the deadbolt, one for the latchbolt and the other one for the auxiliary latch or toggle button
4 = Four holes for all function model

Mortise Lock Series



M4486



M3415, M3434
M3486, M3488



M3411, M3420



M3004



M3004A, M2005
M2007, M2009
M2026, M2030
M2032, M2037



M2402, M2419



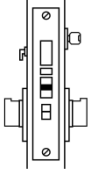
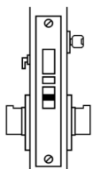
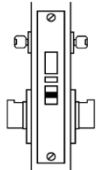
M2413, M2414
M2421, M2033
M2465



M1001, M1022

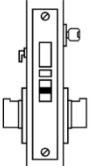
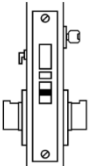
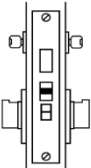
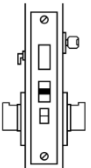
Mortise Locks – M Series

Function & Description

Function & Model No.	Description
Deadbolt, Latchbolt, Auxiliary Latch & Toggle Button	
	<p>M4486 All Purpose Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side unless outside lever is locked (made inoperative) by operating toggle button • Deadbolt projected or retracted by key outside or thumbturn inside • Key outside operates both deadbolt and latchbolt • Operating inside lever retracts both deadbolt and latchbolt simultaneously • Locking toggle button makes outside lever inoperative; unlocking toggle button makes outside lever operative • Latchbolt is deadlocked when outside lever is locked (inoperative) or when deadbolt is projected • Outside lever is unlocked by toggle button only when deadbolt is retracted • Inside lever is always free from immediate exit • Auxiliary latch deadlocks latch bolt when door is closed
Deadbolt, Latchbolt & Auxiliary Latch	
	<p>M3415 Hotel Guest Lock</p> <p>ANSI Function F15</p> <ul style="list-style-type: none"> • Hotel cylinder required with two types of keys (standard and emergency key) • Standard key outside retracts latchbolt only, will not retract or project deadbolt • Emergency key outside retracts latchbolt and deadbolt; it also projects deadbolt • Latchbolt retracted by key outside or lever inside • Outside lever is always inoperative • Deadbolt projected or retracted by inside thumbturn • When deadbolt is projected, key outside becomes inoperative except emergency key • Operating inside lever retracts both deadbolt and latchbolt simultaneously • Auxiliary latch deadlocks latchbolt when door is closed • Inside lever is always free for immediate egress
	<p>M3434 Classroom Security Intruder Deadbolt Lock</p> <p>ANSI Function F34</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side unless outside lever is locked from inside or outside • Deadbolt projected or retracted by key outside • Operating inside lever retracts both deadbolt and latchbolt simultaneously, and unlock outside lever • Auxiliary latch deadlocks latchbolt when door is closed, or latchbolt is deadlocked when deadbolt is projected • Inside lever is always free from immediate egress

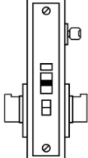
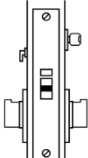

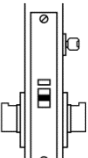
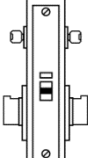
Mortise Locks – M Series

Function & Description

Function & Model No.	Description	
Deadbolt, Latchbolt & Auxiliary Latch		
	M3486	Entrance Lock <ul style="list-style-type: none"> Latchbolt retracted by lever from either side unless outside lever is locked by key from outside Deadbolt projected or retracted by key outside Latchbolt retracted by key outside Operating inside lever retracts both deadbolt and latchbolt simultaneously Deadbolt projected or retracted by inside thumbturn When deadbolt projected by inside thumbturn, outside lever becomes inoperative automatically Inside lever is always free for immediate egress Auxiliary latch deadlocks latchbolt when door is closed
	M3488	Faculty Rest Room Lock <ul style="list-style-type: none"> Latchbolt retracted by key outside or by lever inside Outside lever is always inoperative. Deadbolt projected or retracted by inside thumbturn When deadbolt projected (locked), all keys become inoperative except emergency or display keys Operating inside lever retracts both deadbolt and latchbolt simultaneously Inside lever is always free for immediate egress Auxiliary latch deadlocks latchbolt when door is closed <p>➤ <i>This function operates with a special cylinder</i></p>
Deadbolt, Latchbolt & Toggle Button		
	M3411 ANSI Function F11	Dormitory or Exit Lock <ul style="list-style-type: none"> Latchbolt retracted by lever from either side unless outside lever is locked (made inoperative) by operating toggle button Deadbolt projected by key from either side Deadbolt retracted by key outside Operating inside lever retracts both deadbolt and latchbolt simultaneously and outside lever remains locked
	M3420 ANSI Function F20	Apartment Corridor Door Lock <ul style="list-style-type: none"> Latchbolt retracted by lever from either side unless outside lever is locked (made inoperative) by operating toggle button Deadbolt projected and retracted by key outside or thumbturn inside Key outside operates deadbolt and latchbolt, and outside lever remains locked Operating inside lever retracts both deadbolt and latchbolt simultaneously, and outside lever remains locked Latchbolt is deadlocked when outside lever is locked (made inoperative) or when deadbolt is projected Outside lever is unlocked by toggle button if deadbolt is retracted. Inside lever is always free for immediate egress


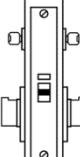
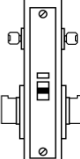

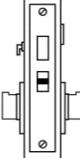
Mortise Locks – M Series

Function & Description

Function & Model No.	Description
Latchbolt, Auxiliary Latch & Toggle Button	
 <p>M3004 ANSI Function F04</p>	<p>Office or Entry Lock</p> <ul style="list-style-type: none"> • Outside lever retracts latchbolt unless outside lever is locked (made inoperative) by operating toggle button • Latchbolt retracted by key outside and inside lever when outside lever is locked • Outside lever is locked and unlocked by toggle button • Key outside locks outside lever only • When latchbolt is retracted by inside lever, outside lever remains locked • Auxiliary latch deadlocks latchbolt when door is closed • Inside lever is always free for immediate egress
Latchbolt & Auxiliary Latch	
 <p>M3004A ANSI Function F04</p>	<p>Office or Entry Lock</p> <ul style="list-style-type: none"> • Outside lever retracts latchbolt unless outside lever is locked (made inoperative) by operating thumbturn • Latchbolt retracted by key outside and inside lever when outside lever is locked • Outside lever is locked and unlocked by thumbturn • Key outside locks outside lever only • When latchbolt is retracted by inside lever, outside lever remains locked • Auxiliary latch deadlocks latchbolt when door is closed • Inside lever is always free for immediate egress
 <p>M2005 ANSI Function F05</p>	<p>Classroom Lock</p> <ul style="list-style-type: none"> • Key outside locks and unlocks outside lever • Outside lever retracts latchbolt unless outside lever is locked by key • When outside lever is locked, unlocked from outside by key or by inside lever • Inside lever is always free for immediate egress • Auxiliary latch deadlocks latchbolt when door is closed
 <p>M2007 ANSI Function F07</p>	<p>Storeroom or Closet Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by key outside or by lever inside • Outside lever is always inoperative • Inside lever is always free for immediate egress • Auxiliary latch deadlocks latchbolt when door is closed
 <p>M2009 ANSI Function F09</p>	<p>Apartment, Exit or Public Restroom Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side unless outside lever is locked by key from inside • Key inside locks and unlocks outside lever • When outside lever is locked, latchbolt retracted by key outside or by lever inside • Auxiliary latch deadlocks latchbolt when door is closed • Inside lever is always free for immediate egress

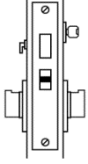
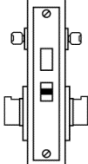
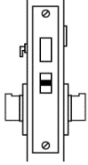
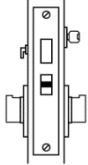
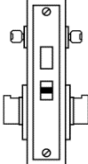
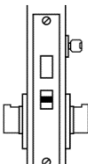
Mortise Locks – M Series

Function & Description

Function & Model No.	Description	
Latchbolt & Auxiliary Latch		
	<p>M2026 ANSI Function F26</p>	<p>Institutional Privacy Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side unless outside lever is locked by thumbturn inside • Latchbolt retracted by key outside even when thumbturn is in locked position • Outside lever is unlocked by operating inside lever or closing door • Auxiliary latch deadlocks latchbolt when door is closed
	<p>M2030 ANSI Function F30</p>	<p>Asylum or Institutional Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by key from either side • Levers on both sides are always inoperative • Auxiliary latch deadlocks latchbolt when door is closed
	<p>M2032 ANSI Function F32</p>	<p>Intruder Latchbolt Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side unless outside lever is locked by key from either side. • When outside lever is locked, latchbolt is retracted by key outside or lever inside • Turning key from either side locks and unlocks outside lever • Auxiliary latch deadlocks latchbolt when door is closed • Inside lever is always free for immediate egress
	<p>M2037</p>	<p>Office with Auto Unlock Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side unless outside lever is locked (made inoperative) by outside key or operating thumbturn inside • Outside lever is unlocked by outside key, operating thumbturn, or closing door • Operating inside lever retracts latchbolt and unlocks outside lever simultaneously • Inside lever is always free for immediate egress
Deadbolt & Latchbolt		
	<p>M2402 ANSI Function F02</p>	<p>Privacy, Bedroom or Bath Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side • Unlocking deadbolt by operating thumbturn inside • When deadbolt is projected, outside lever becomes inoperative • Removing outside emergency release retracts deadbolt (i.e., removing a round plate from outside, then insert a Philips tip screwdriver into access hold and rotate to unlock door) <p>➤ <i>Deadbolt cannot be unlocked by operating inside lever</i></p>

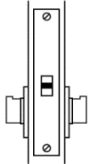
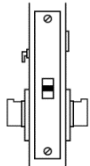
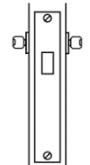
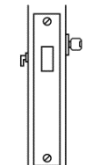
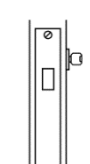
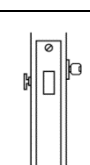
Mortise Locks – M Series

Function & Description

Function & Model No.	Description	
Deadbolt & Latchbolt		
	<p>M2413 ANSI Function F13</p>	<p>Dormitory or Exit Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side when deadbolt is in retracted position • Deadbolt projected or retracted by key outside or thumbturn inside • Projecting deadbolt locks outside lever • When deadbolt projected, operating inside lever retracts both deadbolt and latchbolt simultaneously
	<p>M2414 ANSI Function F14</p>	<p>Store Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side • Deadbolt projected or retracted by key from either side • Latchbolt and deadbolt are independent of each other
	<p>M2419 ANSI Function F19</p>	<p>Privacy, Bedroom or Bath Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side • Deadbolt projected or retracted by inside thumbturn • Projecting deadbolt locks outside lever • Operating inside lever retracts both deadbolt and latchbolt simultaneously, and unlock outside lever • Removing outside emergency release retracts deadbolt (i.e., removing a round plate from outside, then insert a Philips tip screwdriver into access hold and rotate to unlock door) • Inside lever is always free for immediate egress
	<p>M2421 ANSI Function F21</p>	<p>Room Door Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side • Deadbolt projected or retracted by key outside or thumbturn inside • Latchbolt and deadbolt are independent of each other
	<p>M2433 ANSI Function F33</p>	<p>Classroom Security Intruder Deadbolt Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by outside lever unless outside lever is locked by key from inside or outside • Deadbolt projected or retracted by key from either side. • Operating inside lever retracts both deadbolt and latchbolt simultaneously and unlock outside lever. • Inside lever is always free for immediate egress
	<p>M2465</p>	<p>Closet or Storeroom Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from either side • Deadbolt projected or retracted by key outside

Mortise Locks – M Series

Function & Description

Function & Model No.	Description	
Latchbolt Only		
	<p>M1001 ANSI Function F01</p>	<p>Passage Latch</p> <ul style="list-style-type: none"> • Latchbolt always retracted by lever from either side • Inside lever is always free for immediate egress
	<p>M1022 ANSI Function F22</p>	<p>Privacy, Bedroom or Bath Lock</p> <ul style="list-style-type: none"> • Latchbolt retracted by lever from outside unless outside lever is locked by inside thumbturn • Operating inside lever retracts latchbolt and unlocks outside lever • Removing outside Emergency Release unlocks outside lever • Turning inside thumbturn locks and unlocks outside lever • Inside lever is always free for immediate egress
Deadbolt Only		
	<p>M1416 ANSI Function F16</p>	<p>Dead Lock: Double Cylinder</p> <ul style="list-style-type: none"> • Deadbolt projected or retracted by key from either side
	<p>M1417 ANSI Function F17</p>	<p>Dead Lock: Inside Thumbturn & Outside Cylinder</p> <ul style="list-style-type: none"> • Deadbolt projected or retracted by key outside or thumbturn inside
	<p>M1418 ANSI Function F18</p>	<p>Dead Lock: Single Cylinder</p> <ul style="list-style-type: none"> • Deadbolt projected or retracted by key outside • No trim on opposite side
	<p>M1429 ANSI Function F29</p>	<p>Dead Lock: Inside Thumbturn & Outside Cylinder</p> <ul style="list-style-type: none"> • Deadbolt projected or retracted by key from outside • Inside <i>thumbturn cylinder</i> retracts deadbolt but cannot project it

Mortise Locks – M Series

Function & Description

Function & Model No.	Description	
Dummy Trims		
	M0071	Single Dummy Trim <ul style="list-style-type: none"> Lever on one side fixed by mounting bar, it is always rigid Lever only used as door pull
	M0072	Double Dummy Trim <ul style="list-style-type: none"> Lever on both sides fixed by mounting bar and are always rigid Lever only used as door pull
	M0075	Single Dummy Trim with Lock Case <ul style="list-style-type: none"> Lever on one side fixed on door surface, it is always rigid Includes lock case and armor faceplate
	M0076	Double Dummy Trim with Lock Case <ul style="list-style-type: none"> Lever on both sides fixed on door surface and are always rigid Includes lock case and armor faceplate



M1416, M1417
M1418, M1429



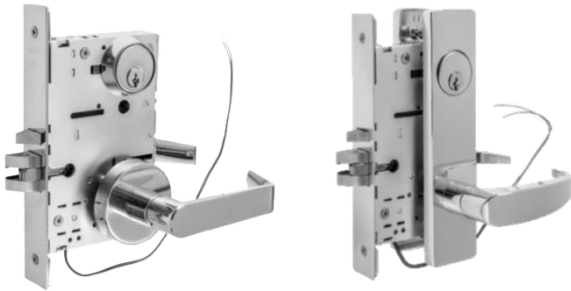
M0071, M0072



M0075, M0076

Electrified Mortise Locks – M Series

Model No. 2081 & 2082



Applications

Security and restricted access areas in the engineering rooms, computer rooms, hospital equipment, cashier rooms, laboratories, radar control rooms, telephone equipment rooms, narcotics rooms, and any security control center.

Regulating Device

- This lock can be used by keypad access controls, access card readers, security consoles, automatic time devices and computerized controls.
- All installations should be in accordance with your local electrical codes or National Electrical code NFPA70 in the USA.

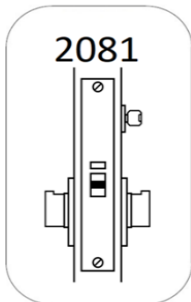
Electrical Specifications

- Voltage: 12 or 24 VDC
- Current: 0.3A at 24VDC or 0.6A at 12VDC
- Ambient Temperature:
Max. + 140° F(+60° C), Min. -22° F (-30° C)

Electrified Functions

EL: Electrically Locked (Fail Safe) **EU**: Electrically Unlocked (Fail Secure)

Model No. 2081

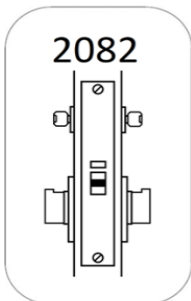


- Key outside retracts latch bolt except when outside lever is locked.
- Outside lever retracts latch bolt except when outside lever is locked.
- Inside lever is always free for immediate egress
- Auxiliary latch deadlocks latch bolt when door is closed.

No. **2081EL** - Power ON, outside lever is locked by solenoid.

No. **2081EU** - Power ON, outside lever is unlocked by solenoid.

Model No. 2082



- Key on either side retracts latch bolt except when both levers are locked.
- Lever from either side retracts latch bolt except when both levers are locked.
- Lever cannot be locked separately, only together.
- Auxiliary latch deadlocks latch bolt when door is closed.

No. **2082EL** - Power ON, both levers are locked by solenoid simultaneously.

No. **2082EU** - Power ON, both levers are unlocked by solenoid simultaneously.

***Caution:** Double cylinder locks are not recommended to use on any door in any building for the life safety for egress in case of emergency.



Electrified Mortise Locks with Deadbolt – M Series

Model No. 3485



Applications

Security and restricted access areas in the engineering rooms, computer rooms, hospital equipment, cashier rooms, laboratories, radar control rooms, telephone equipment rooms, narcotics rooms, and any security control center.

Regulating Device

- This lock can be used by keypad access controls, access card readers, security consoles, automatic time devices and computerized controls.
- All installations should be in accordance with your local electrical codes or National Electrical code NFPA70 in USA.

Electrified Functions

EL: Electrically Locked (Fail Safe)

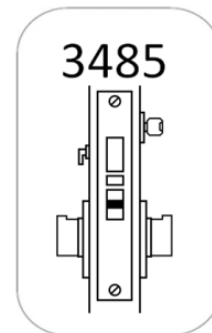
EU: Electrically Unlocked (Fail Secure)

Electrical Specifications

- Voltage: 12 or 24 VDC
- Current: 0.3A at 24VDC or 0.6A at 12VDC
- Operation Temperature:
Max. + 140° F(+60° C), Min. -22° F (-30° C)

Model No. 3485

- Latchbolt retracted by lever from either side unless outside lever is locked by key from outside.
- Deadbolt projected or retracted by key outside.
- Latchbolt retracted by key outside.
- Operating inside lever retracts both deadbolt and latchbolt simultaneously.
- Deadbolt projected or retracted by inside thumbturn.
- When deadbolt projected by inside thumbturn, outside lever becomes inoperative automatically.
- Inside lever is always free for immediate egress.
- Auxiliary latch deadlocks latchbolt when door is close.



No. 3485EL - Power ON, outside lever is locked by solenoid.

No. 3485EU - Power ON, outside lever is unlocked by solenoid.

Monitoring Options

- REX(RX) – REX switch monitors the lever. It alerts when the lever rotates.
- DM – It monitors the deadbolt.

Certifications

- UL/cUL listed to Canadian safety standard for A label (3-hour fire door)
- Meet UL 10C and UBC 7-2(1997) requirements

Mortise Locks – M Series

Lever Trim

All M Series are available with the sectional or escutcheon trim.



Mortise Lock with Rose & Lever Trim

- Trim Type No. LR01
- This Mortise Lock is model no. M3485-LR01, Entrance Lock, which is coupled with a round rose trim and lever type no. 01.



Mortise Lock with Escutcheon & Lever Trim

- Trim Type No. LE02
- This Mortise Lock is model no. M4486-LE02, All Purpose Lock, which is coupled with a wide escutcheon trim and lever type no. 02.



Mortise Lock with Escutcheon & Lever Trim

- Trim Type No. NE05
- This Mortise Lock is model no. M2413-NE05, Dormitory or Exit Lock (F13), which is coupled with a narrow escutcheon trim and lever type no. 05.

Trim Feature

- The M Series mortise lock is coupled with clutch freewheeling trim that is designed for areas where are susceptible to vandalism including schools, universities, multitenant buildings, apartments, athlete's locker rooms at indoor stadiums and gymnasiums or other public buildings.
- The clutch freewheeling design allows the outside lever to swing freely and down to 45°. The outside lever rotates when the door is locked preventing excessive or abusive force from being applied to the lever trim. This advantage can eliminate resetting the trim after vandalism attempts because the lever returns to its original position automatically, also it can decrease the lever handle to be broken and damaged.

Trim Material

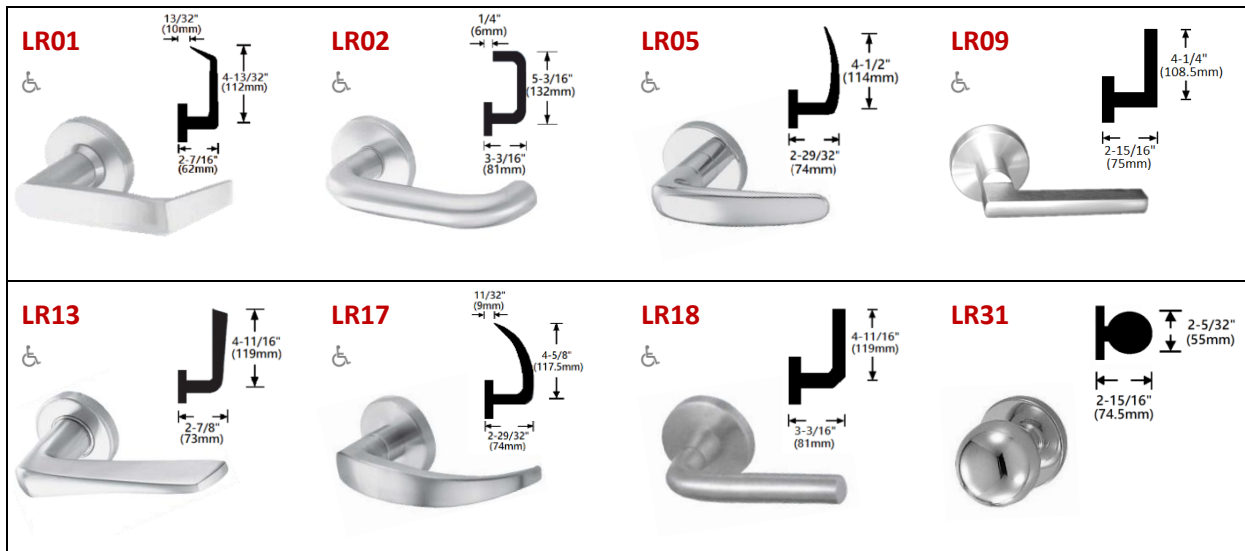
- L Escutcheon Type 100% stainless steel, Wrought forming
- N Escutcheon Type Cold forged brass or bronze, Cast forming
- Round Rose Brass, bronze, or stainless steel, Wrought forming
- Knob Type 100% stainless steel, Forming by deep drawing press

Finishes

- US3, US4, US10, US10B, US26, US26D, US32, US32D

Mortise Locks – M Series

Lever Trim – Rose Designs (LR)



Dimension

- Diameter: 2-7/16" (62mm)
- Projection: 13/32" (10mm)

Lever Material

Lever	Material Options
No.01	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.02	Hollow/solid tube, extruded or cast stainless steel
No.05	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.09	Cast zinc alloy
No.13	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.17	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.18	Hollow tube, extruded stainless steel
No.31	Stainless steel

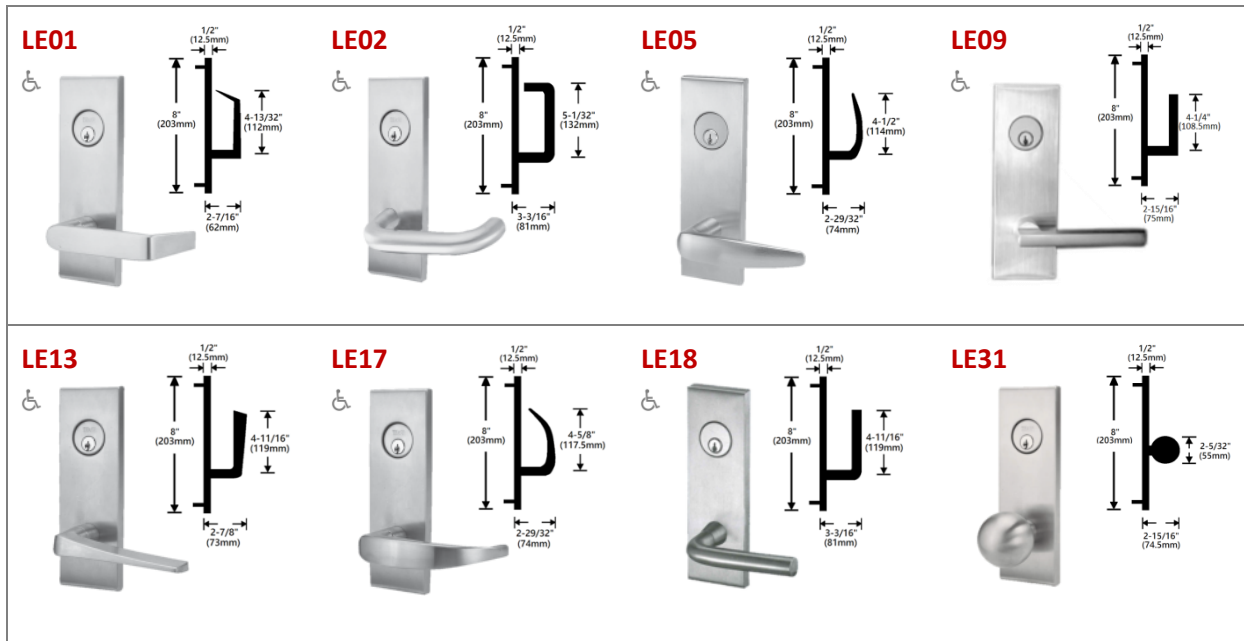
- Lever type No. 01, 02 and 17 meet California State Fire Marshall Standard.
- Lever costs vary depending upon material used. When asking a quote, please indicated your material choice: Forged Brass/Bronze (BR), Cast Stainless Steel (SS), Cast Zinc Alloy (ZA)
- If a complete unit of mortise lock is ordered, the escutcheon design of both lever and knob trims does not use a cylinder guard as the cylinder is protected by escutcheon. The cylinder guard is just used for the rose design of both lever and knob trims, but not standard furnishing.

Finishes

- US3, US4, US10, US10B, US26, US26D, US32, US32D

Mortise Locks – M Series

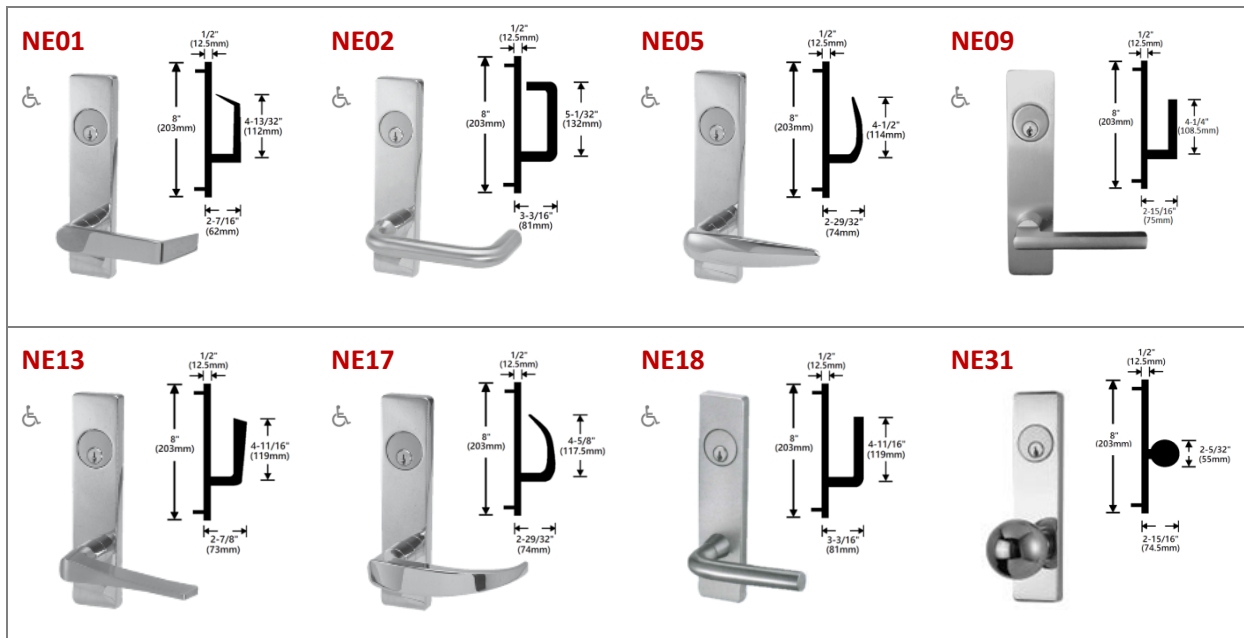
Lever Trim – Escutcheon Designs – Wide Style (LE)



Dimension

- Size: 8" x 2-9/16" x 12" (203mm x 65mm x 12.5mm)

Escutcheon Designs / Narrow Style (NE)



Dimension

- Size: 8" x 1-27/32" x 12" (203mm x 46.5mm x 12.5mm)

Mortise Locks – M Series

Accessories



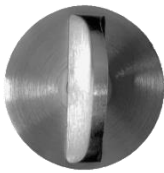
120 Round Rose

2-7/16" (62mm) diameter
13/32" (10mm) projection
Wrought stainless steel
Specify finish when ordering



211 Spring Cage

Round design
For sectional trim
Cast zinc housing
Zinc plated



132 Thumbturn

Base: 1-23/32" (43.7mm) dia.
Turnpiece: 1-9/16" (39.8mm) long
Material: Stainless steel
Specify finish when ordering



212 Spring Cage

Square design
For escutcheon trim
Cast zinc housing
Zinc plated



146 Emergency Release

Base: 1-3/4" (44mm) diameter
Material: Stainless steel
Specify finish when ordering



250 Cylinder Guard

1-23/32" (44mm) diameter, 9/32" (7.3mm) projection,
Standard for 1-1/8" (28mm) mortise cylinder use.
Wrought stainless steel



147 Coin Turn

Base: 1-3/4" (44mm) diameter
Material: Stainless steel
Specify finish when ordering



252 Cylinder Guard

1-11/16" (43mm) diameter,
7/16" (10.9mm) projection,
Available for use with 1-3/8" (35mm) mortise cylinder use.
Material: Cast zinc alloy.
Order separately



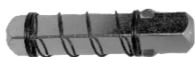
148 Coin Turn Indicator

Base: 2-1/4" (57.5mm) diameter
Material: Zinc Alloy
Specify finish when ordering



255 Cylinder Guard

1-25/32" (45mm) diameter, 21/32" (17mm) projection, Available for much longer mortise cylinder use.
Material: Cast zinc alloy.
Order separately



210 Spindle

Material: square steel
Finish: Rust-resistant zinc dichromate plated



258 Wave Spring

Used with cylinder guard as spacer;
included with cylinder guards when ordering

Note:

- When ordering the ancillary parts such as cylinder guards, round rose, thumbturn, emergency release plate, and escutcheons, must specify finish.
- All these parts are available in US3, US4, US10, US10B, US26, US26D, US32, US32D

Mortise Locks – M Series

Accessories – Cylinders, Armor Faceplate & Strike

Standard Mortise Cylinder



No. 526 1-1/8" (29mm)

No. 527 1-1/4" (32mm)

Face finishes:

US3, 4, 10, 10B, 26, 26D, 32, 32D

Material:

Cylinder body - Solid brass

Cylinder face - Brass or stainless steel

Cylinder cam is comparable with

Schlage L583-254



Schlage Cam
L583-254

Interchangeable Core (IC) Cylinder



No.206 6-pin 1-1/4" (32mm)

No.208 7-pin 1-3/8" (35mm)

Face finishes:

US3, 4, 10, 10B, 26, 26D, 32, 32D

This interchangeable core (IC) cylinder offers immediate rekeying at door simply by using the special "control key" to replace the core in seconds. It is unnecessary to remove a cylinder.



To order IC cylinder less core, add suffix NIC with the item number such as 208NIC

**IC cylinders are not regular items; orders should meet the conditions of MOQ 300 pcs and L/T>60 days. Please contact our sales representative for more information.*

Interchangeable Core Only



No. 106 6-pin

No. 108 7-pin

Available US4 and US26D finish only.

This core is compatible with cylinder manufacturers such as Falcon, Best Arrow, and Schlage. Cams are easily changeable.

Thumbturn Cylinder



No. 522 RH (Right hand)

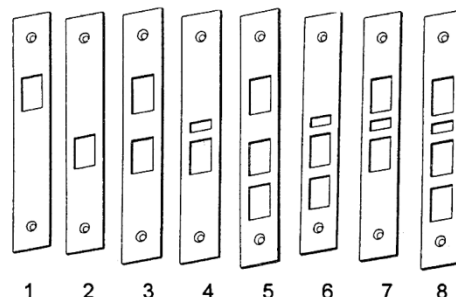
No. 523 LH (Left hand)

This cylinder is for classroom function and deadlocks use. It is handed. This cylinder furnished with Schlage cam #L583-254.

1-1/8" length standard. Specify finish when ordering.

Armor Faceplate

Material: Stainless steel, Brass



Strikes

Material: Stainless steel

Finishes: US3, 4, 10, 10B, 26, 26D, 32, 32D

No. 617

Curved lip strike is not available to use on the double doors with overlapping astragal. If so, specify to change #700 strike when ordering

No. 618

Plain strike is for deadlocks (F16, F17, F18) and classroom (F29) function use or double doors with overlapping astragal use.

No. 617

Curved Lip Strike



(Standard)

No. 618

Plain Strike



Strike Box

No. 215

Plastic material with black finish
Mounting face: 4-3/4" x 1-3/16"
(121 x 30.5mm)



Push-Pull Trim with Mortise Lock

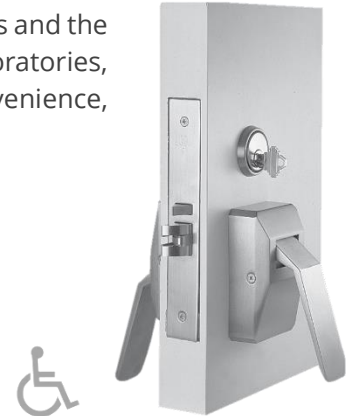
Model No. HL22; Patented in USA and UL Listed

Model No. HL22

This push-pull trim is designed for its easy operation to open hospital room doors for patient protection in case of fire. The wider handle integrated with a mortise lockcase provides wonderful versatility. It is popularly used in the hospitals and the health care centers. Now it's also used in the accessible restrooms, laboratories, operating rooms, and any other buildings where require more convenience, durability, or security applications.

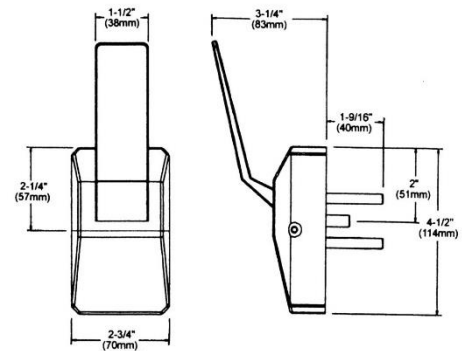
Features

- Non-handed and easy installation
- It can be mounted in vertical and horizontal orientations in field.
- Through-bolted design for trims with lockcase in stability.
- Handles are cast stainless steel, corrosion protected.
- Patented in USA and UL listed
- Meet ADA requirement



Specifications

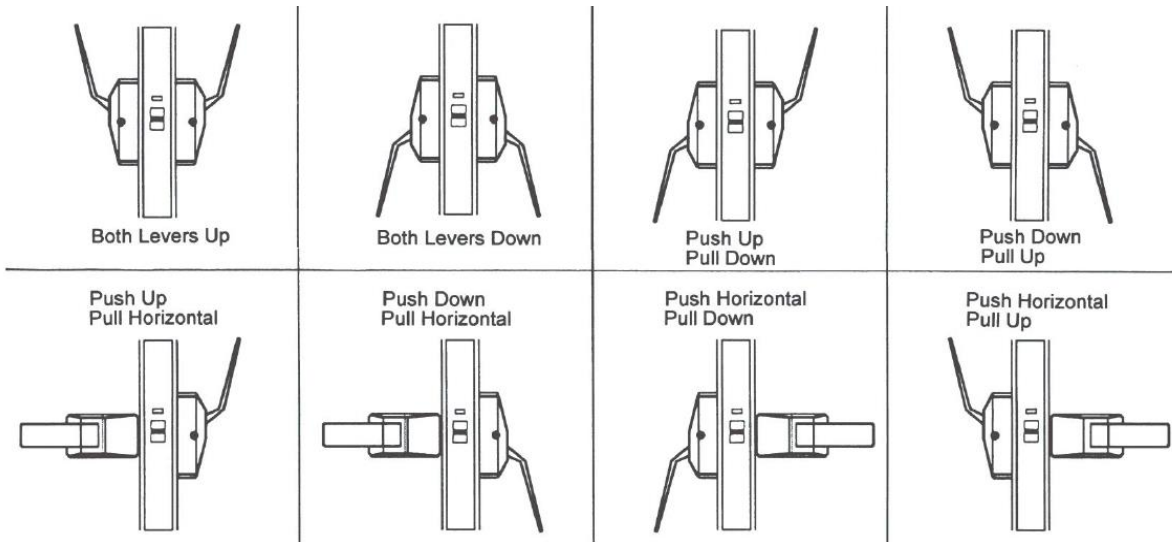
- Fits for 1-3/4" (44mm) thick standard RHR or LHR hollow metal doors & wood doors. Other thanks standard is available. Specify while ordering.
- Mortise lock functions available: F01, F04, F05, F09, F11, F13, F14, F19, F20, F22, F30 (Recommended)
- Handles are cast stainless steel, corrosion protected
- Available in BHMA finishes



Note:

- ◆ When the cylinders are used, the handles must be mounted in down or horizontal positions on the cylinder side. The mounting way is the same required when thumbturn inside is used.
- ◆ Designate hand and how handles are to be mounted that is PUSH down from inside of door, PULL up from outside door.

Multiple Mounting Hands



Push-Pull Trim with Mortise Lock

Operation & Model Numbers

Handle Handing

Cylinder Operation

Handle on the cylinder side must be mounted in down or horizontal position. The mounting way is the same required when the thumbturn inside is used.

Thumbturn Operation

If a standard thumbturn (Type No. 132) is provided, the inside handle must be mounted in horizontal position. If a special thumbturn (Type No. 133) is provided, the inside handle can be mounted in down position. Specify the thumbturn type when ordering.

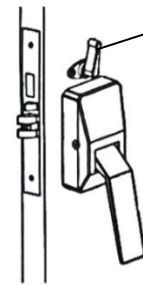


Push - Up
Pull - Horizontal



Push - Horizontal
Pull - Up

This Push-Pull Trim with heavy-duty mortise lock is model no. M2413-HL22 (ANSI function no. 13, Dormitory or Exit Lock) shown which uses a standard thumbturn type no. 132 and along with an inside wider handle in horizontal position.



Thumbturn Type No. 133

Model Numbers

The HL22 Push-Pull Trim can use with Schlage L Series Heavy Duty Mortise Locks. Customers may just order HL22 Push-Pull Trim only to use with Schlage mortise locks or to retrofit its exiting installations. For other brand mortise locks such as Arrow, Best, Falcon, Sargent, Yale etc., are also available, but had better discuss the requirements before ordering.

The model numbers of Push-Pull Trim with the M Series heavy-duty mortise locks are listed below.

ANSI No.	THASE Model No.	Function
F01	M1001-HL22	Passage Latch
F04	M3004-HL22	Office or Entry Lock
F05	M2005-HL22	Classroom Lock
F09	M2009-HL22	Apartment Entrance Lock, Public Toilet Lock
F11	M3411-HL22	Dormitory or Exit Lock
F13	M2413-HL22	Dormitory or Exit Lock
F14	M2414-HL22	Store Door Lock
F19	M2419-HL22	Privacy Bedroom, Bath Lock
F20	M3420-HL22	Apartment Corridor Door Lock
F22	M1022-HL22	Privacy Bedroom, Bath Lock
F30	M2030-HL22	Asylum or Institution Lock

Mortise Deadlock

SM Series; Heavy Duty Small Lockcase



The SM series Mortise Deadlocks are ideal for use in the restrooms and small doors in the public utilities, such as the electric meter cabinets or gas meter cabinets in the commercial buildings. The locks offer more high security when used as auxiliary deadbolt in other applications.

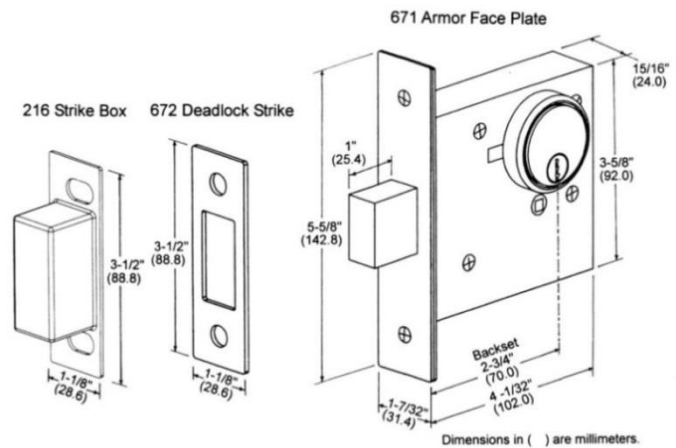
Certification

- UL/cUL listed to Canadian safety standard for A label (3-hour fire door)
- Stamped letter F and UL symbol on armor faceplate
- Meet positive pressure requirements UL 10C and UBC 7-2 (1997)

Specifications

- Installation for 1-3/8" (35mm) or 1-3/4" (44.5mm) doors, specify door thickness if other than standard 1-3/4"
- Backset: 2-3/4" (70mm)
- Hand: Universal; adjustable lock front to accommodate beveled or flat-edged doors
- Lock case: Heavy wrought steel, zinc plated
- Faceplate: Stainless steel, 5-5/8" x 1-7/32" (142.8mm x 29mm)
- Strike: Stainless steel, 3-1/2" x 1-1/8" (89mm x 31.4mm)
- Deadbolt: 1" (25mm) throw
- Cylinder: Not included. When need to meet key requirement, buyers may use any brand mortise cylinder, our lock case can receive cylinders from other manufacturers.
- Finishes: US3, US4, US9, US10, US10B, US15, US26, US26D, US32, US32D

Dimensions



Function	Model No. and Description	Function	Model No. and Description
 Outside Inside	SM140 Cylinder & Thumbturn Deadbolt thrown or retracted by key outside or thumbturn inside.	 Outside Inside	SM143 Double Cylinder Deadbolt operated by key from either side.
 Outside Inside	SM141 Classroom Lock Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it.	 Outside Inside	SM145 Door Bolt Deadbolt thrown or retracted by thumbturn inside. No trim on opposite side.
 Outside Inside	SM142 Single Cylinder Deadbolt thrown or retracted by key from outside. No trim on opposite side.	 Outside Inside	SM146 Deadbolt with "Occupied" indicator Deadbolt thrown or retracted by thumbturn inside. When deadbolt is thrown, "OCCUPIED" plate is displayed on outside.

**The original UL listed model numbers are QML 180, 182, 184 and 186.*

Mortise Locks – M Series

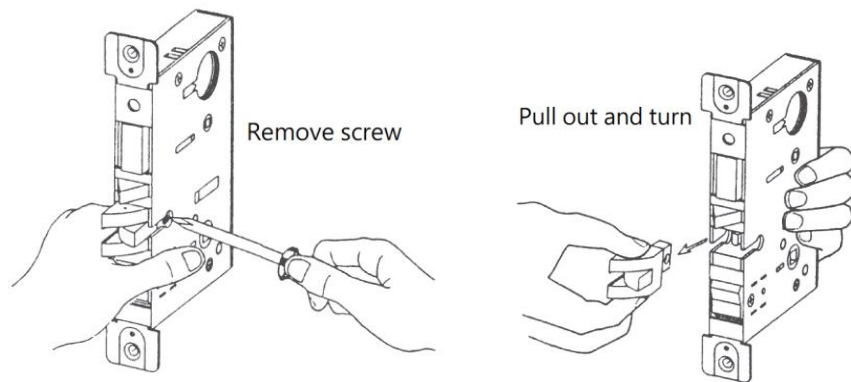
Door Handing & Lock Handing

Door Handing

The hand of our heavy-duty mortise lock can be re-handed by seller or installer quickly and easily without opening the lock body. Just two simple steps are required to change the hand of our mortise lock as follows. This feature allows the buyers and every distributor to order it as stock and customize the handing to meet each order's requirement.

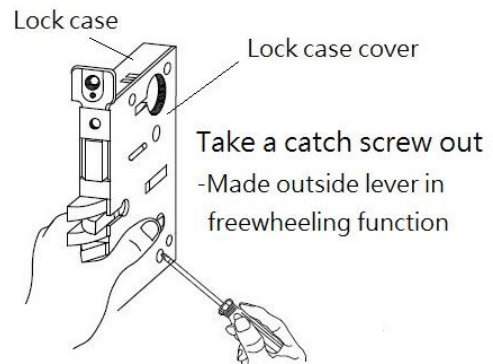
1. Change Latchbolt handing

If the hand of latchbolt does not match door hand, remove fixing screw, and pull latchbolt out from lock case, then turn complete unit having the bevel of latchbolt to reverse door handing. Position latchbolt and fasten it.



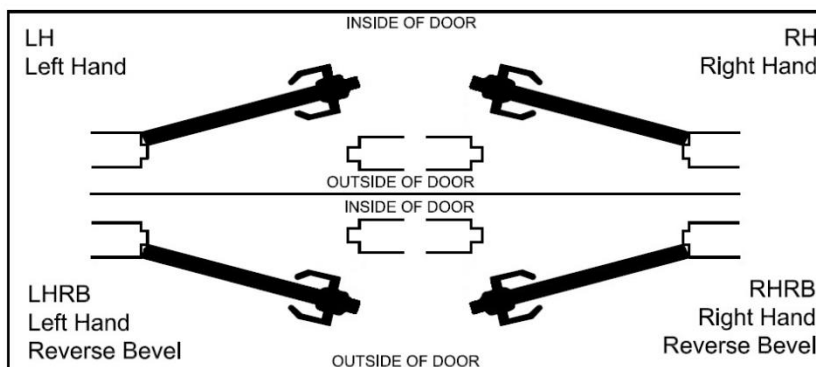
2. Set outside hand of chassis (lock case set)

There are two catch screws of lock hand on both sides of chassis. Take catch screw out from one side of chassis which is going to face outside of door. And another catch screw must always be on *inside* of the chassis. For RH and LHR, the catch screw will be on the lock case side. For LH and RHR, the catch screw will be on the lock case cover side.



Lock Handing

Door hand is determined by door swing when viewed from outside or corridor side of door.

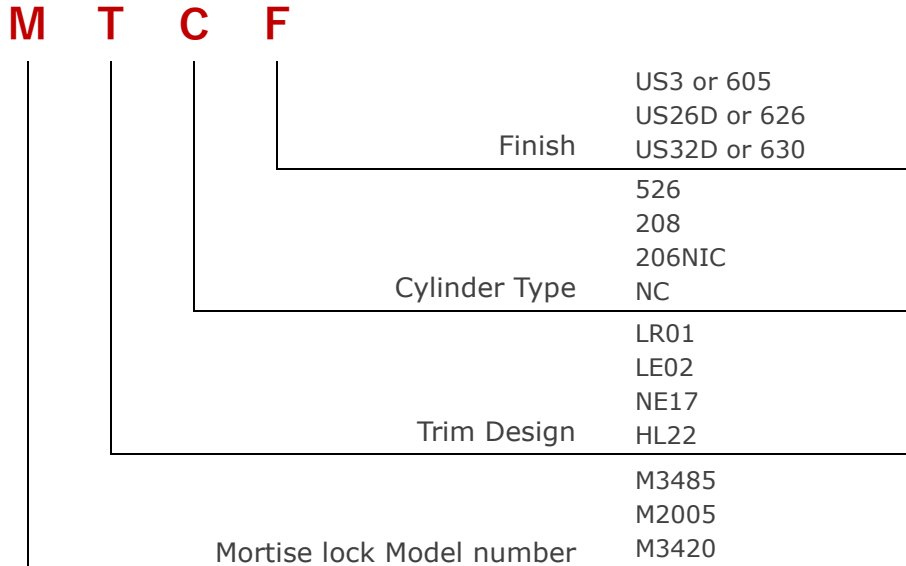


Mortise Locks – M Series

How to Order

How to Order

1. To order the mortise locks, simply specify your desired models as shown.



The examples of ordered model numbers:

M3485-LR01-206-US3 (or 605)

M2005-LE02-526-US26D (or 626)

M3420-NE17-NC-US32D (or 630)

M2413-HL22-526-US32D (or 630)

2. Specify door thickness if other than 1-3/4" (44.5mm) standard door, a special longer spindle and mounting screws will be provided.
3. The armor faceplate of each lock is stamped "THASE" logo along with letter "F" and UL symbol. Or please specify "no brand" request when ordering if necessary.

Finish Classification

The finishes described in this catalog conform to U.S. Standard specifications. Shown here are the most common finishes along with corresponding America B.H.M.A. designation, details see American National Standard ANSI/BHMA A156.18-2006.

U.S. Standard	BHMA Code	Finish Description	U.S. Standard	BHMA Code	Finish Description
US3	605	Bright Brass, Clear Coated	US26	625	Bright Chromium Plated over nickel
US4	606	Satin Brass, Clear Coated	US26D	626	Satin Chromium Plated over nickel
US10	612	Satin Bronze, Clear Coated	US32	629	Bright Stainless Steel
US10B	613	Dark Oxidized Satin Bronze, Oil Rubbed	US32D	630	Satin Stainless Steel
US15	619	Satin Nickel Plated, Clear Coated	US28	689	Aluminum Painted
US19	622	Matte Black	US20A	690	Dark Bronze Painted