No.500



Stylishly subtle hardware **highlights displays**





SUGATSUNE

Since 1930

Manufacturer of LAMP® brand products

# Furniture & Architectural Hardware



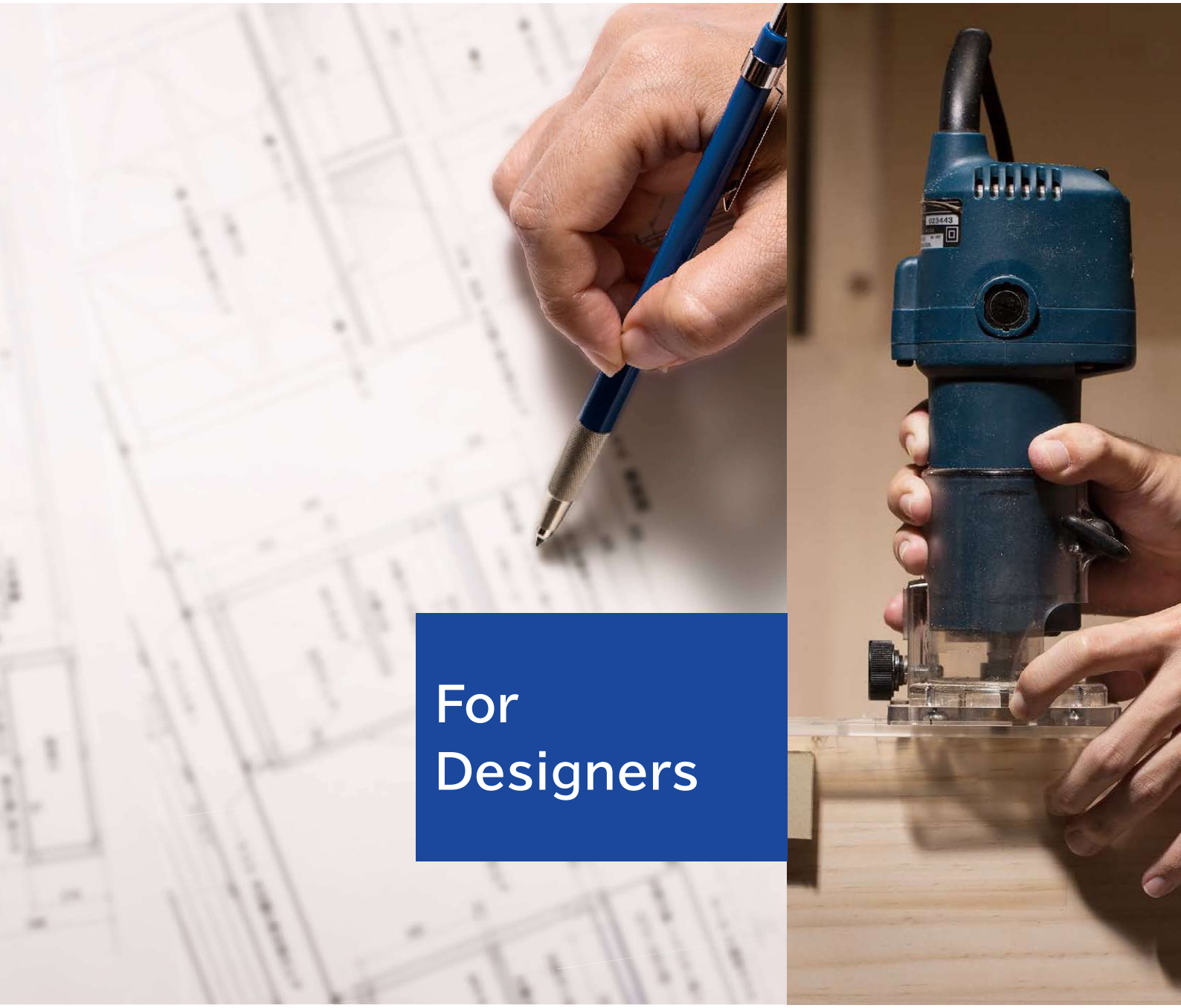
Hinges **integrated** with thin door frames





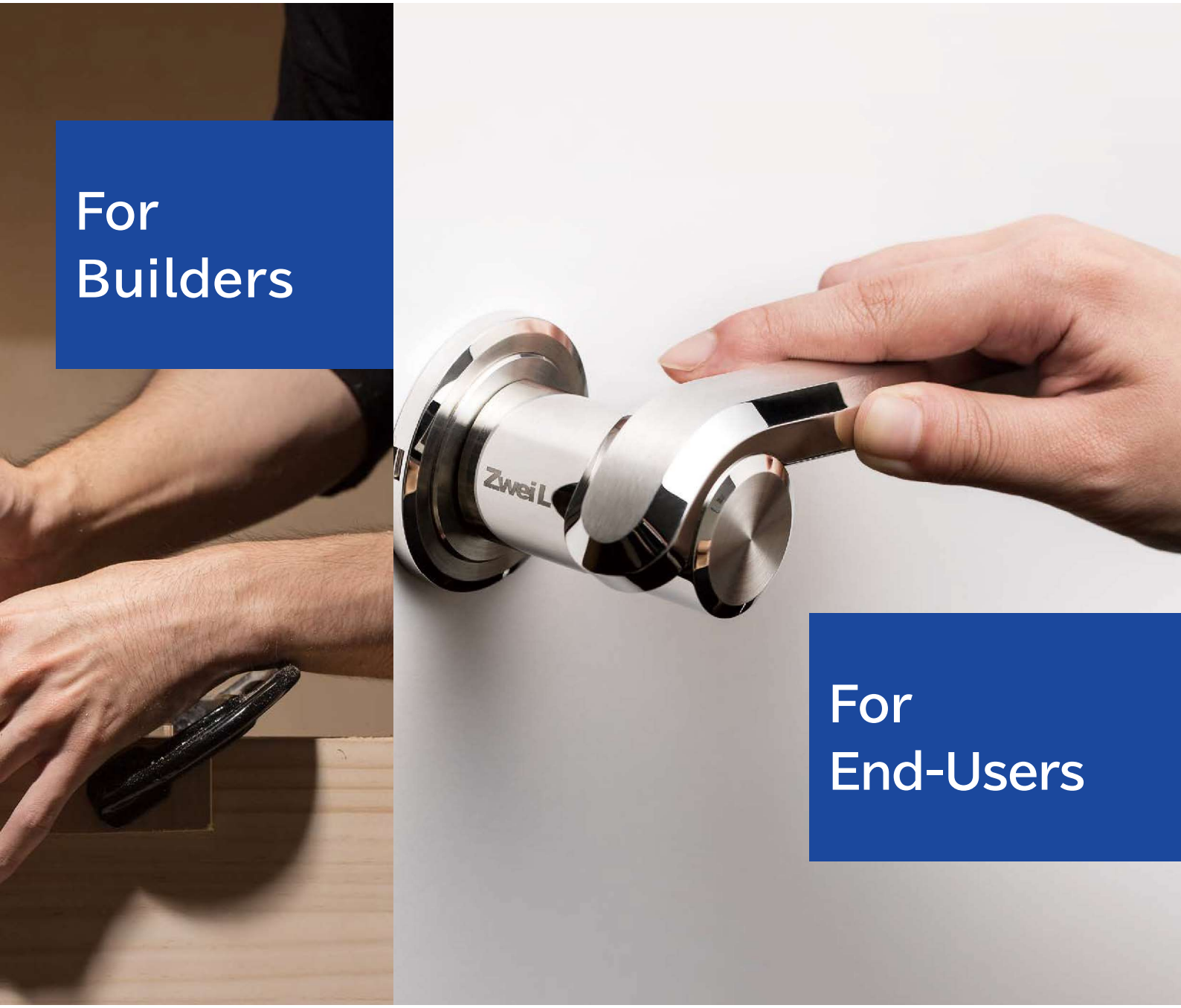
*Innovation beyond expectation*

*Because Details Matter*



For
Designers

# Realising Your Vision with Diversity and Expertise




Sugatsune connects the ideas and aspirations of various people by expanding the potential of hardware and meticulously designing each product.
We meet the demands of furniture and architectural projects with unmatched functionality, quality, and service. Sugatsune' s unwavering dedication remains steadfast now and in the future.

LAMP®

High-Quality Products, Expertly Designed in Japan



September 2024

# Enriching the meaning of “Manufacturing”

## Product Development

The creativity and ability to create new products



Sugatsune recognises originality as a key component to creating products that are long time favourites in the market and that can also drive sales. With enhancing originality comes increasing difficulty to conceptualise and make original products. But by challenging these hurdles, a new and tailored market can be conceived.

## Core Technology

A legacy of expertise




Sugatsune’s Motion Design Tec delivers specialised movements solutions such as “free stop motion,” “soft motion,” and “assist motion” for a better user experience. Cultivated over the decades, Sugatsune can provide highly original, reliable, and quality products with Motion Design Tec technologies worldwide.

# Expanding Globally with Partners in Over 80 Countries

Please enquire about custom-made products!

- Finish change
- Dimension change
- Processing
- Function addition
- Specification change
- Development

# Our Factory

Sugatsune has it's own exclusive factory and within its facilities is a development research centre specializing in motion design. It is here that Sugatsune's new and unique technologies emerge.



## Design

### Commitment to Functional Design



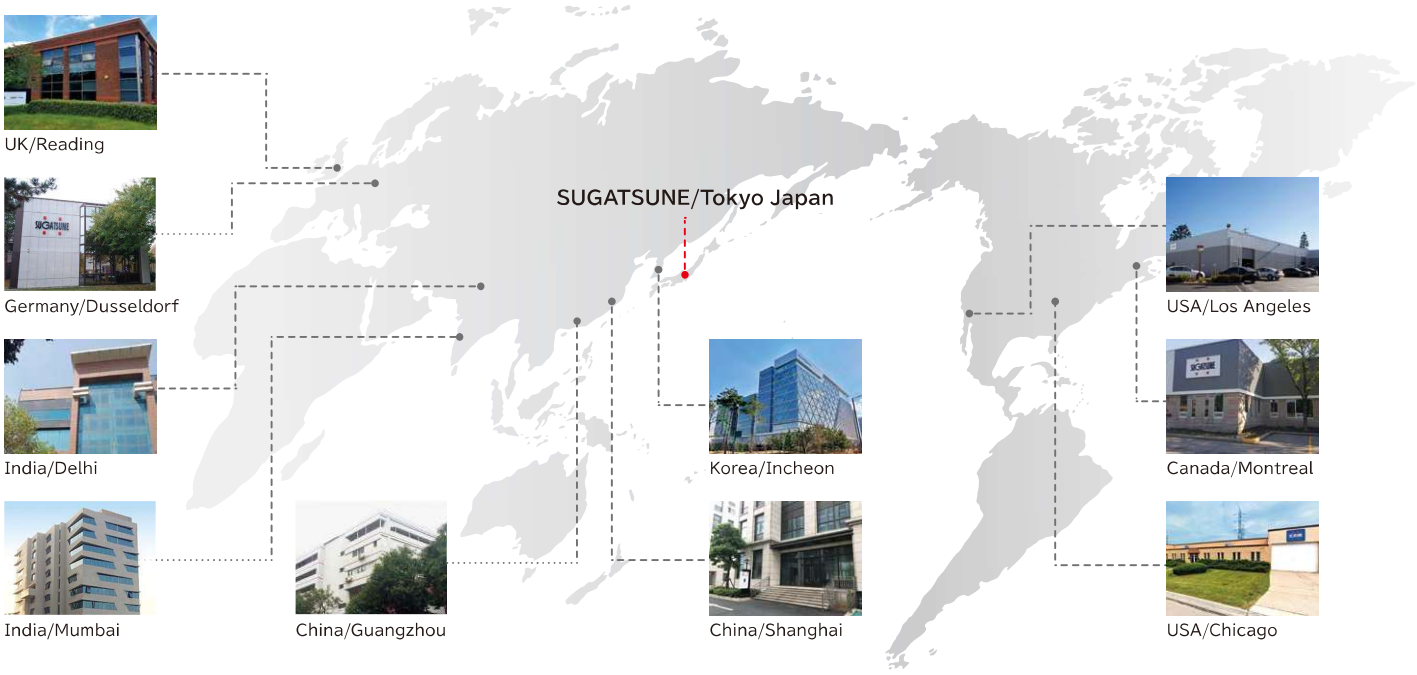
Design is no longer just about shape and colour. To deepen the meaning of "design," practicality and functionality have become integral elements in the Sugatsune manufacturing development process. Without ignoring the traditional design approach, resulting products undoubtedly possess a distinct visually appealing quality.

## Product Variety

### A product lineup to meet all needs



With over 30,000 products in its lineup, Sugatsune can quickly and accurately meet the needs of its customers. Moreover, support for specialised custom made items is also available.





# Zwei Lichter

## [ Two Lights ]

### High precision polish, artfully sculpted shine

Flawless, distortion free lines. Stainless steel surfaces polished to the smoothness of a mirror juxtaposed seamlessly against a soft metallic satin finish creating a stately radiance.

Zwei L®



# Exquisite Distortion-free Straight Lines

Beauty, lives in the finer details.

“The pursuit of the essential and the ideal” is Sugatsune Kogyo’s vow, given form in Zwei L.

With its dual gleams of light, premium interiors are enhanced with a lustrous glow.

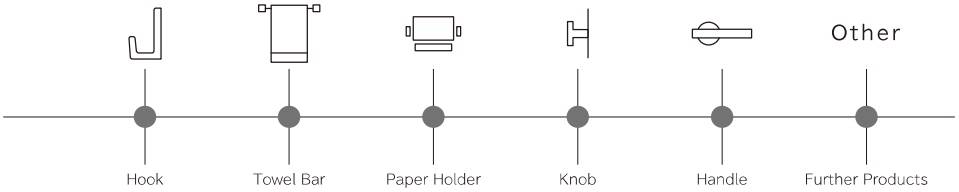








LINE UP





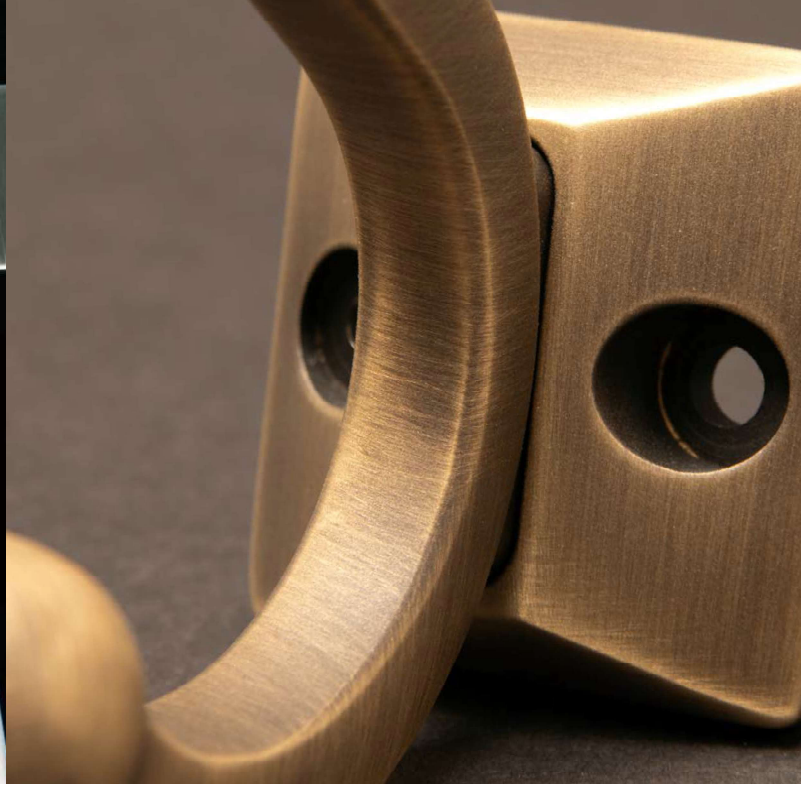
# LAMP®

## An original brand of Sugatsune quality

LAMP brand represents our answers to numerous manufacturing challenges and Sugatsune's commitment to quality and function is evident in the design, construction, material selection, finishing, and quality control of our products.







## Confidence in our quality

Due to our “manufacturing by pursuing the ideal” strategy, which includes stringent quality control, a reliable testing system, and a dedication to exquisite finishes, you can use LAMP products with confidence for a long time. This ensures a consistent supply of goods of high calibre.

## Specialised mechanisms

The components of LAMP are symbolised by their unique mechanisms, which are the outcome of our creative vision. By choosing the best mechanism for the project during the design phase, we maximise the potential of the components and produce a product of a quality that our clients can rely on.

## The art of attention to detail

Design is an integral part of our hardware. With this in mind, we make no compromises with materials and finishes. Sugatsune’s dedication is demonstrated by the stunning finishes and exquisite craftsmanship of our products, which are like works of art.





## MonoFlat UNISON MFU1200 Flush Sliding Door System





The MFU1200 Flush Sliding Door System by Sugatsune offers a sleek and integrated design, effortlessly blending with your wall for a concealed appearance. This system supports a maximum door mass of 70 kg and features a two-way damper, ensuring doors open and close smoothly and quietly, enhancing your space's luxurious feel.
Installation is straightforward with a minimal number of parts and no need for floor rail or groove processing. The door pushes open, eliminating the need for a handle on the front side, creating a perfectly flat surface when closed.

# Seamlessly Blends with Any Interiors







No lower rail or grooving is required on the floor.

MonoFlat UNISON

## Concealed Hinge The HES Series





The HES series offers superb hinges that are virtually invisible from the outside.
It discreetly enhances the beauty of doors without obstructing original designs.
Various interior styles look better with the HES hinges.
For example, the HES1F seamlessly integrates into door frames
and it enhances the overall aesthetic of interior spaces.

# Enhance the Interior Space You Design







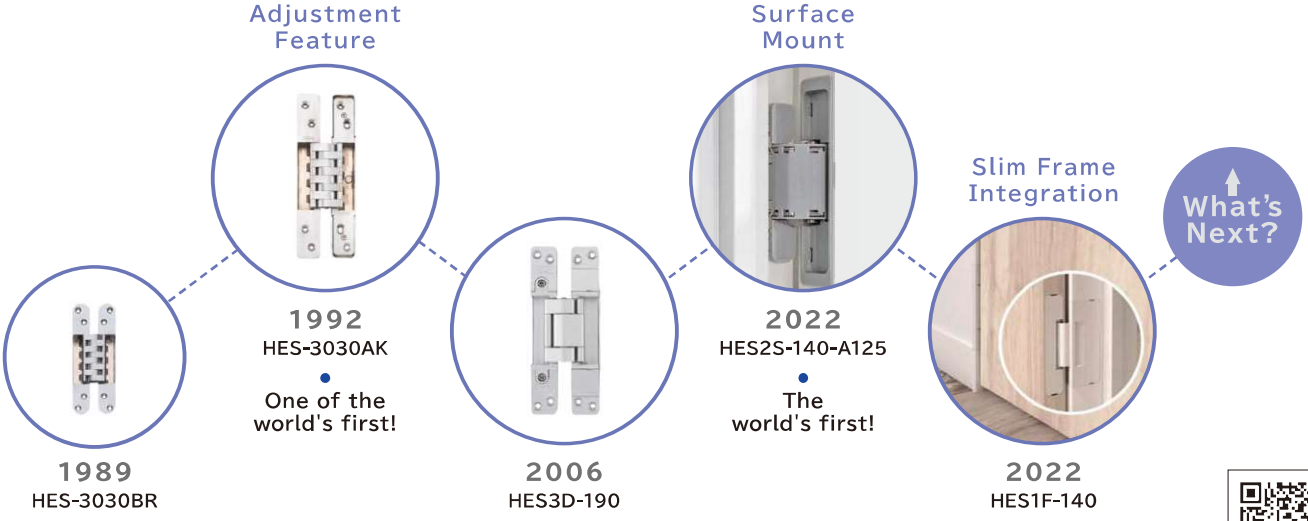
HES1F



HES2S



HES3D




## HES Series Milestones at a Glance

## MonoFlat LIN-X Hinge For Heavy Doors



When closed, the LIN-X Series doors seamlessly align with the wall, creating a clean and sophisticated space. This system can accommodate large doors with a width of up to 1100 mm and a weight of 90 kg. With a wide opening of 930 mm, it also allows for easy wheelchair access.

# Elegant Flush Design for Compact & Functional Spaces

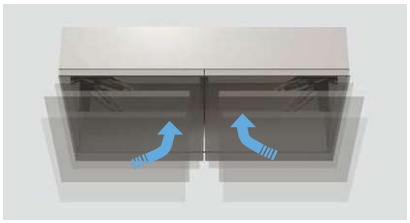
LAMP

Simple & High Quality-Design













MonoFlat LIN-X hinge

# GS-G Series Glass Showcase Hardware




Silver


Gold


Black

Crafted with sleek, modern lines, this showcase hardware enhances your exhibited pieces without stealing the spotlight.



# Premium Stainless Steel Solutions for Modern and Durable Design

Stainless steel products are favoured for all applications due to their modern finish, durability, and non-corrosive quality. This material is also known for being low-maintenance, making it easy to care for while offering great aesthetic appeal. Sugatsune offers a wide range of stainless steel products, from simple decorative hardware to complex functional hardware. Choose Sugatsune's quality stainless steel for a long-lasting, simple, and modern design.



SUGATSUNE HELP HUB

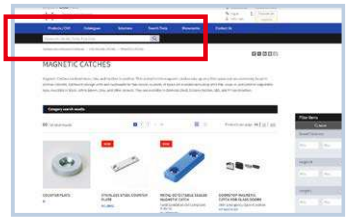
# Build Better with Sugatsune!

## Explore Our Comprehensive Support Resources

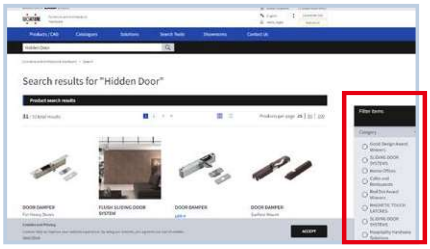


## Keyword Search & Product Filters

Search for products by keyword and utilize our product filters. Access comprehensive information including our online catalogue, CAD data and instruction manuals!



Find relevant products with fuzzy search strings like "Hidden Door"!

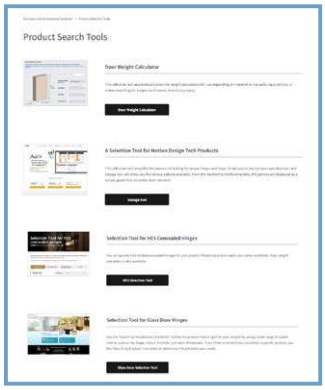



Filter by size, colour, or material as well!

## Product Search Tools

The product search tools allow you to choose products tailored to your installation conditions, such as damper stays, damper hinges, torque hinges, torque stays, and more. With moment calculation and operation force simulation, you can easily identify the products that best meet your product requirements.

- Selection Tool for Motion Design Tech Products (Damper stays and hinges, Free stop hinges, etc.)
- Selection Tool for HES Concealed Hinges
- Selection Tool for Glass Door Hinges
- Selection Tool for Pocket Door System




## Customer Solutions Case Studies

Our case studies introduce our products and demonstrate how they have been used to solve customer project issues.




## Hardware Basics

Discover the basics of our products here. Learn about hinge and stay mechanisms, as well as the differences between various product types.




## Official Sugatsune Global Channel

/@SugatsuneGlobal

Videos explain product characteristics and installation methods. Watching the product in action promotes deeper understanding.






# K

## LOCKS

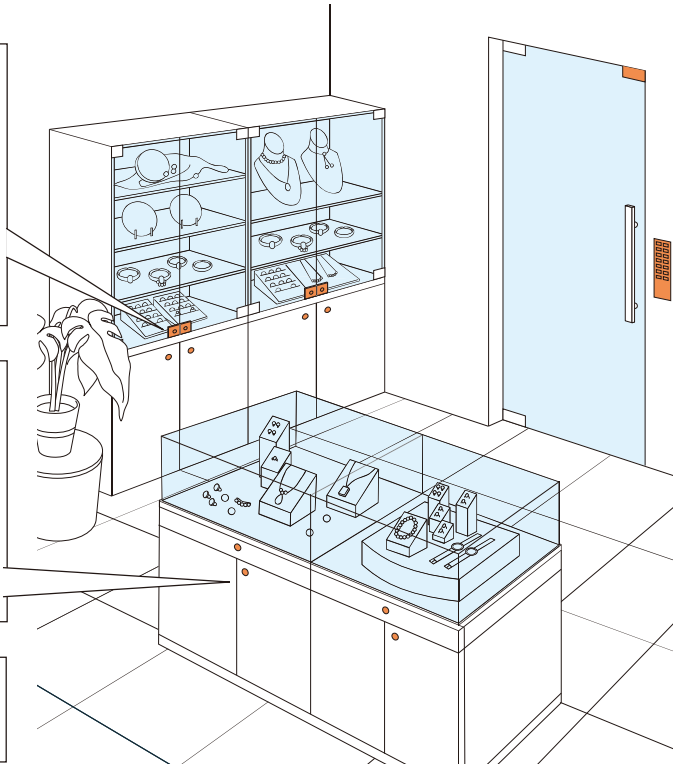
These components are used to lock doors and other items.
The lineup includes a wide range of furniture cylinder locks for drawers, swing doors, sliding doors, and more, suitable for mounting on wood, glass, or sheet metal.

SELECTION GUIDE
GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS

# Selection Guide for Locks and Security Parts

## Locks by Usage Location

### Stores



#### GLASS DOOR LOCKS

From P.1218



**GS-GL5**

Locks for GS-G series glass showcase fittings, with a flat, sharp design. Select from three colours to match the style of the display.

#### CABINET LOCKS

From P.1239



**7110**

Because the key is rod-shaped, it can be inserted at any orientation.



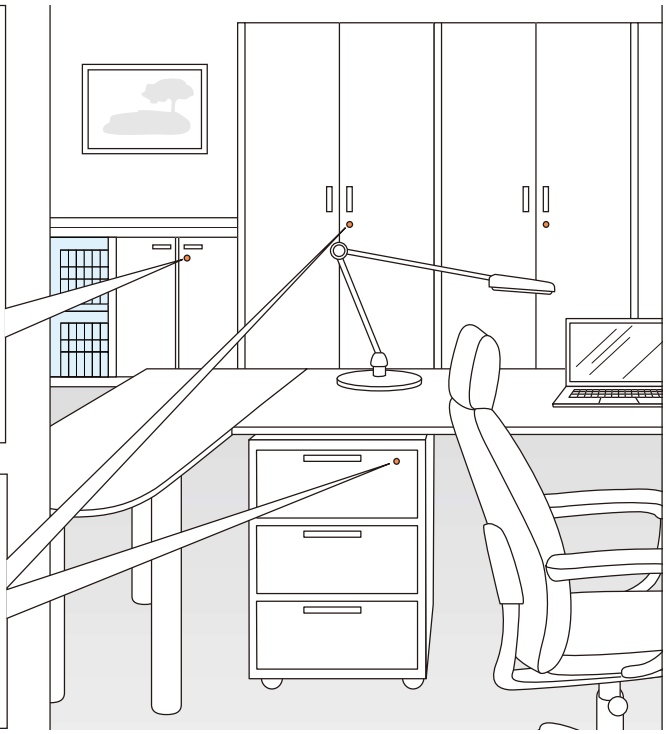
**7810**

The Total Lock system enables the glass door and the drawers to open to the same key. Security is also ensured with up to 1 million key changes.

#### TOTAL LOCK KEY PLAN

From P.1214

### Offices



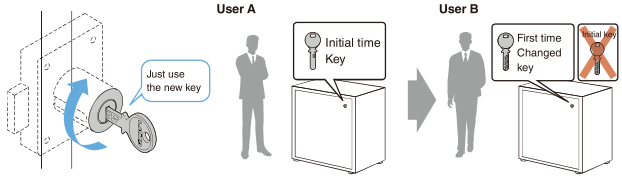
#### CABINET LOCKS

From P.1239



**8810**

Easily change the key number up to twice with the new key, without needing to replace the cylinder. This feature is ideal for managing risks such as user changes or key loss. Additionally, security is enhanced with up to 3 million possible key combinations.




#### CENTRAL LOCKING SYSTEMS

From P.1258

All vertical drawers can be locked simultaneously when locking the top drawer.





### Other Products



**PUSH LOCKS**
From P.1267



**CAM LOCKS**
From P.1270



**OTHERS**
From P.1274



**DOOR LATCH**
From P.413



**LEVER BOLTS**
From P.421



**LEVER HANDLES**
From P.562

# Select by Specifications

## Reading the Table

### Functions

Total Lock : By specifying the same key number, multiple cabinets can be locked and unlocked with the same key

Removable : Interchangeable cylinder can be mounted and replaced with a key change

Key Number Change System : Construction key system in which key number can be changed without replacing the cylinder

With Indicator : Easily view the lock/unlock status at a glance

### Finish Variations

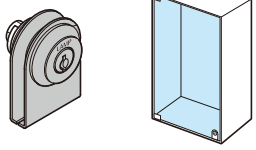
Products in two or more colours are indicated with colour chips.

: Satin/Dull Nickel Plating etc., : Chrome/Nickel Plating etc.

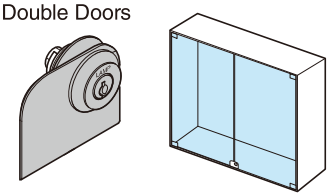
: Gold Coloured Plating etc., : White, : Black

## Locks for Glass Doors (Swing Doors)

Single Door



Double Doors



| Door Type | | No. of Key Changes | Master Key | Glass Thickness | Functions | Product | | Page |
|---|---|---|---|---|---|---|---|---|
| Single | Double | | | | | | | |
| ● | – | 3 million | (▲300/1 master) | 8 – 13.5 | Total Lock<br>Key Number Change System |  | NEW<br>GS-GL50 | P.1220 |
| ● | – | 1 million | ▲2,520/1 master | 6, 8, 10 | Total Lock |  | GS-GL20 | P.1222 |
| ● | – | | | 5 – 8 | |  | GS-GL5 | P.1223 |
| ● | – | | | | |  | 1300GL | P.1227 |
| ● | – | | | | |  | 1310GL | P.1228 |
| ● | – | | | | |  | 1310GL-SQ | P.1229 |
| – | ● | | | | |  | NEW<br>GS-GL5W | P.1224 |
| – | ● | | | | |  | 1310GLW | P.1230 |
| ● | – | 7,800 | 750/1 master | 5 – 10 | Total Lock<br>Removable |  | 1330GL-MK | P.1231 |
| ● | – | 24 | – | 5, 6, 8 | Total Lock |  | XL-GC02 | P.1233 |
| – | ● | | | | |  | XL-GC01 | |
| ● | – | 120 | – | 5 – 8 | |  | NEW<br>GS-GL3 | P.1225 |
| ● | – | 12<br>(▲300) | ▲170 (1 master only) | 4 – 6 | Total Lock<br>With Indicator |  | 2200GL | P.1234 |
| ● | – | 6<br>(▲12) | – | | Total Lock |  | 2100GL | |
| ● | – | 1<br>(▲12) | | 5 – 8 | |  | MKL-2100-D | P.1235 |

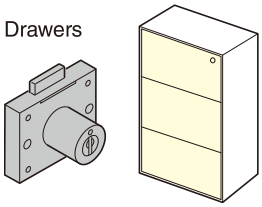
▲ indicates special order products.

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OTHERS

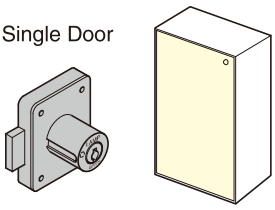
# Select by Specifications

## Surface Mount Cylinder Lock for Wooden Doors (For Drawers/Swings Doors)

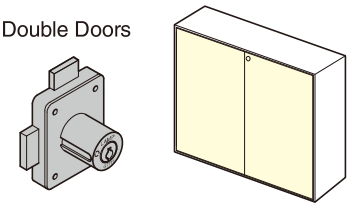
Drawers



Single Door



Double Doors



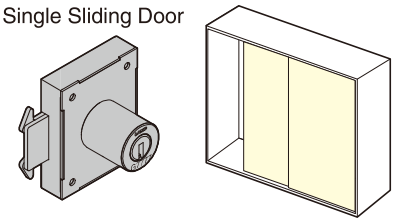
| Door Type | | | No. of Key Changes | Master Key | Functions | Product | | Page |
|---|---|---|---|---|---|---|---|---|
| Drawers | Single | Double | | | | | | |
| ▲ | ● | – | 3 million | (▲300/1 master) | Key Number Change System<br>Total Lock |  | 8810 | P.1239 |
| ▲ | ● | – | 1 million | ▲2,520/1 master | Total Lock |  | 7810 | P.1240 |
| | | | | 2,520/1 master | | | | |
| ● | – | ● | | ▲2,520/1 master | |  | 7810W | P.1241 |
| – | ● | – | | ▲2,520/1 master | |  | NEW<br>7910 | P.1243 |
| ● | ● | – | 500,000 | ▲300/1 master | – |  | 7110 | P.1244 |
| ● | ● | – | 7,800 | 750/1 master | Total Lock<br>Removable |  | 6830-30MK | P.1245 |
| ● | ● | – | 3,120 | 780/1 master | Removable |  | 5830 | P.1246 |
| ● | ● | – | 12<br>(▲300) | ▲300 (1 master only) | – |  | 3810S | P.1252 |
| ● | ● | – | 300 | 80/1 master | – |  | 2550 | P.1248 |
| ● | ● | – | 156 | – | Total Lock |  | NEW<br>3350 | P.1249 |
| ● | ● | – | | | |  | NEW<br>3360 | P.1250 |
| ● | ● | – | 48<br>120 | | |  | 2650 | P.1251 |
| ● | ● | – | 12<br>(▲300) | ▲170 (1 master only) | Total Lock<br>With Indicator |  | NEW<br>2250 | P.1253 |
| ● | ● | – | 6 | – | Total Lock |  | NEW<br>2170 | P.1254 |
| ● | ▲ | – | 300 | ▲170 (1 master only) | Total Lock<br>With Indicator |  | 2200QL | P.1247 |

▲ indicates special order products.

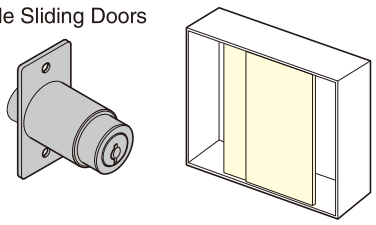
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OTHERS

## Push Locks/Lever Bolts for Wooden Doors (Sliding Doors)

Single Sliding Door



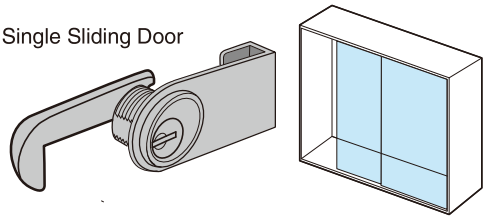
Double Sliding Doors



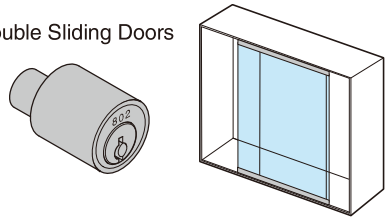
| Door Type | | No. of Key Changes | Master Key | Functions | Product | | Page |
|---|---|---|---|---|---|---|---|
| Single | Double | | | | | | |
| ● | – | 1 million | ▲2,520/1 master | Total Lock |  | 7810K | P.1242 |
| – | ● | | | |  | 2300M | P.1267 |
| – | ● | 47,000 | ▲1,000/1 master | – |  | 2400M | |
| – | ● | 24 | – | |  | 2150M, 2160M | P.1268 |
| – | ● | 6 (▲12) | | Total Lock |  | 2100M | |
| – | ● | | | |  | 2110M | P.1269 |

## Push Locks/Lever Bolts for Glass Doors (Sliding Doors)

Single Sliding Door



Double Sliding Doors



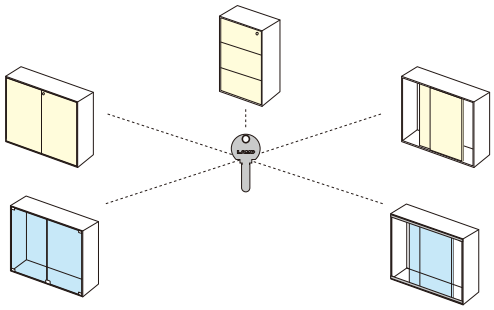
| Door Type | | No. of Key Changes | Master Key | Glass Thickness | Functions | Product | | Page |
|---|---|---|---|---|---|---|---|---|
| Single Sliding Door | Double Sliding Doors | | | | | | | |
| – | ● | 47,000 | ▲1,000/1 master | – | – |  | 2400M | P.1267 |
| – | ● | 24 | – | 8 | Total Lock |  | XL-GC03 | P.1233 |
| ● | – | 6 (▲12) | – | 4 – 6 | |  | 2100GLK | P.1236 |
| – | ● | 96 | – | – | – |  | 6300-D | P.1237 |
| – | ● | 24 | | | |  | 2150B, 2160B | P.1236 |
| – | ● | 6 (▲12) | – | – | Total Lock |  | 2100B | P.1237 |
| – | ● | | | | |  | 2110B | P.1238 |

▲ indicates special order products.

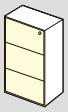
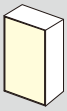
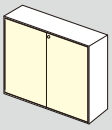
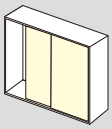
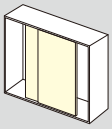
# Select Products Compatible with Total Lock

## The Total Lock series allows you to lock and unlock drawers, glass swing doors, and more with a single key.

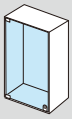
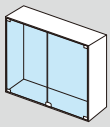
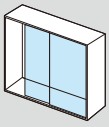
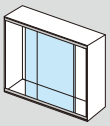
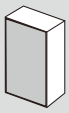
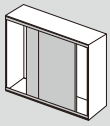
As shown in the figure, the same key can be used to lock and unlock multiple cabinets if the same key number is specified.
Ideal for managing various door fixtures in stores and other environments.





| Series | Wooden Doors | | | | |
|---|---|---|---|---|---|
| | Drawers  | Single Door  | Double Doors  | Single Sliding Door  | Double Sliding Doors  |
| **Super Rim Lock**  | **▲8810** P.1239 | **8810** P.1239 | – | | |
| **Million Lock**  | **▲7810** P.1240<br>**7810W** (2-way Deadbolt) P.1241<br>**▲7810K** (Lever Bolt) P.1242<br>**ALF1800** (Front All-Lock) P.1258 | **7810** P.1240<br>**7810K** (Lever Bolt) P.1242<br>**7910** (Deadbolt Downward) P.1243 | **7810W** (2-way Deadbolt) P.1241 | **7810K** (Lever Bolt) P.1242 | **2300M** P.1267 |
| **LAMP Removable Locks**  | **6830-30MK** P.1245<br>**1830-MK** (Front All-Lock) P.1260 | **6830-30MK** P.1245 | – | | |
| **3310**  | **3350** P.1249<br>**3360** P.1250<br>**ALF1600** (Front All-Lock)*2 P.1262<br>**ALS3310** (Side All-Lock)*2 P.1264 | **3350** P.1249<br>**3360** P.1250 | – | | |
| **2650**  | **2650** (compatible only with door thickness 22 mm, 30 mm types) P.1251 | **2650** (compatible only with door thickness 22 mm, 30 mm types) P.1251 | – | | |
| **XL-GC**  | – | | | | |
| **2200**  | **2250** P.1253<br>**2200QL** (45° rotation)*3 P.1247<br>**ALS2200** P.1265 | **2250** P.1253<br>**▲2200QL** (45° rotation)*3 P.1247 | – | | |
| **2100**  | **2170** P.1254<br>**ALS2100** (Side All-Lock) P.1266 | **2170** P.1254 | – | | **2100M** P.1268<br>**2110M** P.1269 |

▲ indicates special order products. *1 One key change, max. 1 million key changes as special order. *2 One hundred key changes *3 Three hundred key changes

| Glass Doors (including fixture specifications) | | | | Sheet metal | | No. of Key Changes | Master Key | Series |
|---|---|---|---|---|---|---|---|---|
| Single Door  | Double Doors  | Single Sliding Door  | Double Sliding Doors  | Single Door  | Double Sliding Doors  | | | |
| **GS-GL50** P.1220 | – | | | | | 3 million | ▲300 /1 master | **Super Rim Lock** |
| **GS-GL20** P.1222<br>**GS-GL5** P.1223  | **GS-GL5W** P.1224<br>**1310GLW** P.1230 | – | | **900** P.1270 | **2300M** P.1267 | 1 million | ▲2520 /1 master | **Million Lock** |
| **1300GL** P.1227<br>**1310GL** P.1228<br>**1310GL-SQ** P.1229  | | | | | | | | |
| **1330GL-MK** P.1231 | – | | | | | 7800 | 750 /1 master | **LAMP Removable Locks** |
| – | | | | | | 156 | – | **3310** |
| **GS-GL3** P.1225 | – | | | | | 120 | – | **2650** |
| **XL-GC02** P.1233 | **XL-GC01** P.1233 | – | **XL-GC03** P.1233 | – | | 24 | – | **XL-GC** |
| **2200GL** P.1234 | – | | | | | 12 (▲300) | ▲170 (1 master only) | **2200** |
| **2100GL** P.1234<br>**MKL-2100-D** (Glass machining not required)*4 P.1235 | – | **2100GLK** P.1236 | **2100B** P.1237<br>**2110B** P.1238 | – | **2100B** P.1237<br>**2110B** P.1238 | 6 (▲12) | – | **2100** |

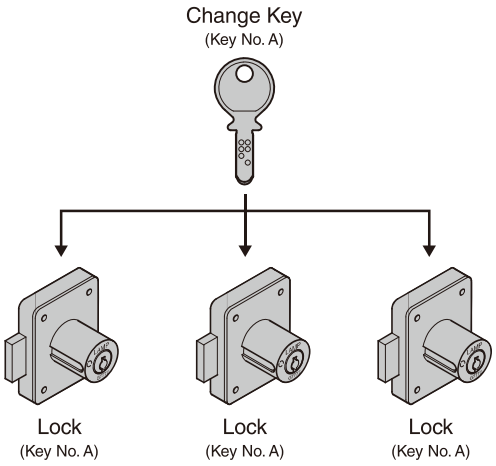
*4 One key change, max. 12 key changes as special order

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GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS

# The Basics of Locks

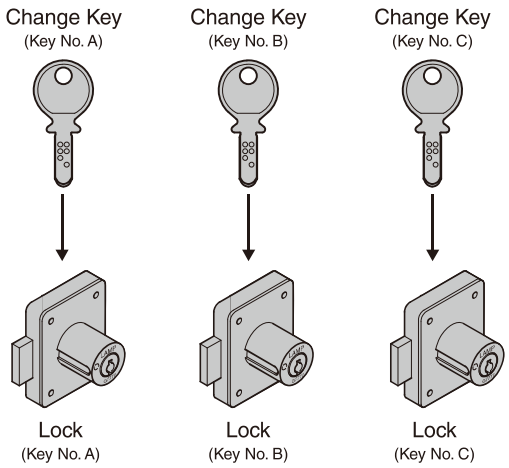
## What does key alike mean?

Multiple locks have the same key number.
Suitable for locations where workers need to open multiple locks with one key (store fixtures, etc.).
In order to distinguish key alike/key different in the Item No., **key alike products are marked with "-D" at the end of the item number.**



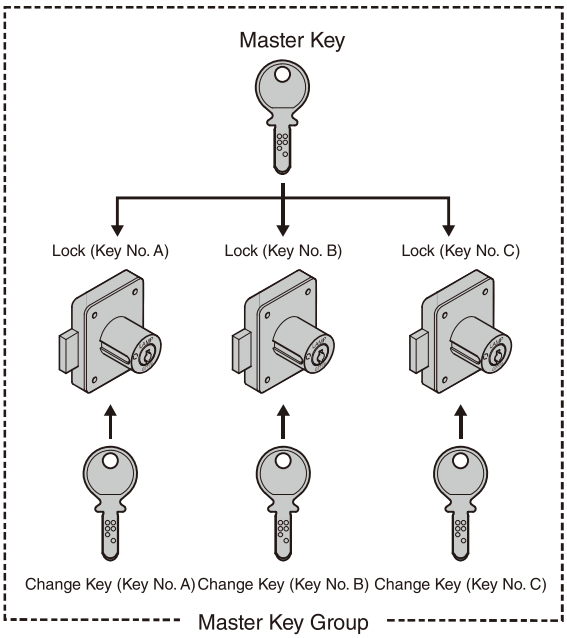

## What does key different mean?

Multiple locks have different key numbers.
Suitable for places where strictly managed security is needed (lockers etc.), so that the same key will not open different locks.
In order to distinguish key alike/key different in the Item No., **key different products are marked with "-B" at the end of the item number.**



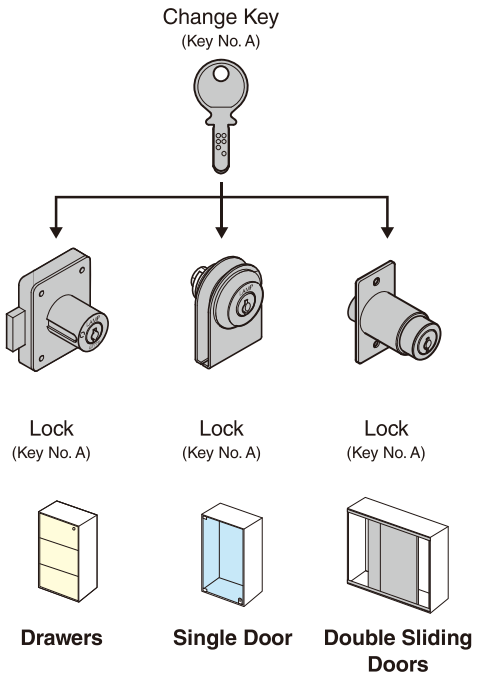

## What is the master key/central locking system?

This system groups multiple locks with **different key numbers**, enabling locking/unlocking the locks in the same group with a single key (master key).



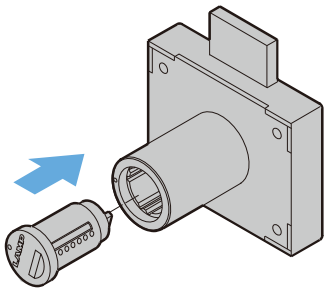

## What is the Total Lock Series?

Within the same series, the same key can be used to lock and unlock multiple locks if the **same key number** is specified.
**For compatible products, see P.1214**




## What are removable locks?

Removable locks feature an interchangeable cylinder, allowing easy replacement to address key loss or user changes.
This design eliminates the need to replace the entire lock body, improving maintenance efficiency and reducing costs.
Note that cylinder replacement requires a change key.



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## Key Plans (Key Numbers and Combinations)

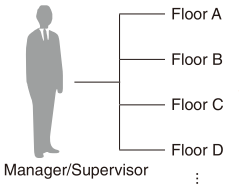
A wide variety of lock types and key changes are available, suitable for various applications. These solutions are also ideal for large-scale settings such as commercial facilities, including department stores and chain stores. For tailored key plan proposals suited to specific needs and applications, consultation is recommended.



Cylinder Locks for Wooden/Glass/Sheet Metal Doors

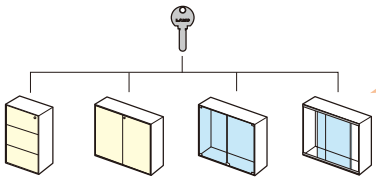
**Dedicated key numbers**
Some products offer customer-dedicated key numbers which will not overlap with those of other customers. Consult us for special orders as needed.

### Integral key management is easy with the master key system.



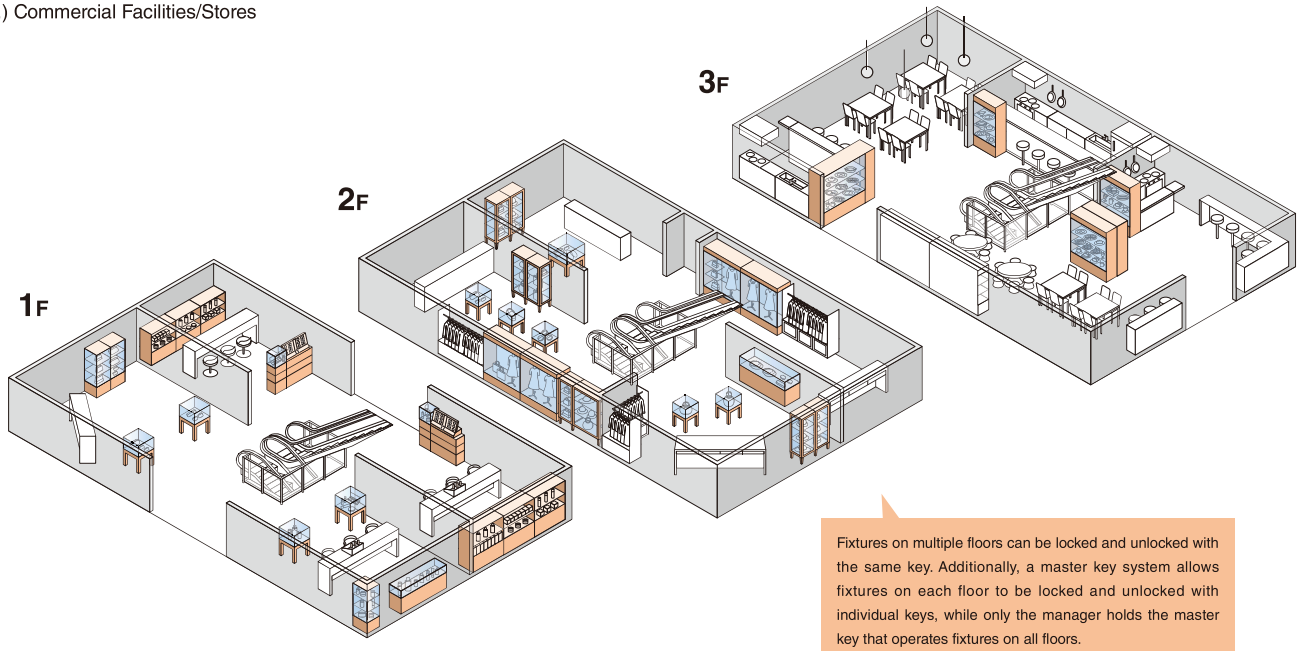

Normally, different locks (key numbers) are used for each floor; in the case of key loss or emergency, the manager can use a master key.

### The Total Lock Series enables locking and unlocking of multiple fixtures with the same key



In stores with numerous locked fixtures, a single key can be used for both locking and unlocking, as illustrated in the figure, eliminating the need for multiple keys when specifying the same key number.

(Ex.) Commercial Facilities/Stores




Fixtures on multiple floors can be locked and unlocked with the same key. Additionally, a master key system allows fixtures on each floor to be locked and unlocked with individual keys, while only the manager holds the master key that operates fixtures on all floors.

## Precautions for Use

- Do not apply excess load to fasteners such as cams. Also, avoid applying load in the opposite key rotation direction (Fig. 1).
- Insert or remove the key only at the specified position; do not do so while rotating (Fig. 2).
- For locks where the key is not removable when unlocked, avoid placing heavy loads on the key when it is inserted into the lock body to prevent deformation and operational issues.
- When tightening hex nuts to mount fasteners such as cams, insert the key into the lock body and hold the cam to avoid applying load to the cylinder pin inside the lock.
- Locks made of zinc alloy and brass may have shorter lifespans in corrosive environments or those that promote rapid deterioration (e.g., seacoasts, hot springs)
- To maintain a longer lock lifetime, occasionally apply lubricant spray or a keyhole-specific lubricant to the keyhole. Do not use oil-based lubricants.

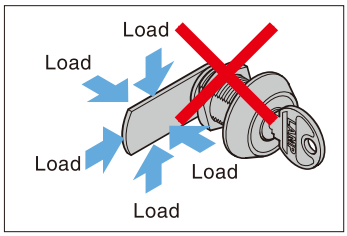



Fig. 1

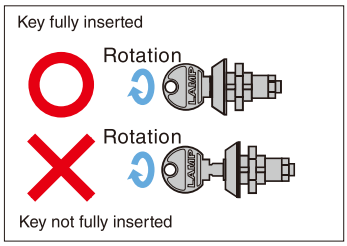



Fig. 2

- Please note that Sugatsune is not liable for theft or other damages.
- Customers should take thorough precautions to prevent damages due to theft or fraud.
- Consult us or your dealer regarding spare key production and the purchase of master keys and change keys. We may ask you to confirm your identity in these instances.
- Consult us about specifying key numbers and their combinations before finalising specifications.

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## Achieve Total Coordination with Sleek, Stylish Pivot Hinges and Matching Cylinder Locks.







Silver Gold Black

Meticulously polished flat surfaces and precisely crafted sharp styles combine to create elegant and sophisticated showcases.

Swing door

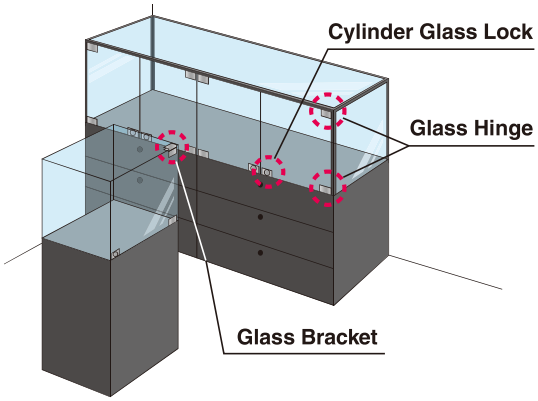
# GS-G Series

## Glass Showcase Fittings

| Model | GS-GH5 ▸ P.160 | GS-GH20 ▸ P.162 | GS-GH50 ▸ P.165 |
|---|---|---|---|
| Colour | Silver / Gold / Black | | |
| Material | Zinc Alloy (ZDC) | | |
| Width | Max. 600 mm | Max. 700 mm | Max. 900 mm |
| Height | Max. 900 mm | Max. 1600 mm | Max. 2500 mm |
| Glass Thickness (Door) | 5, 6 mm | 6, 8 mm | 8, 10, 12, 12.7 mm |
| Load Capacity | Max. 8 kgf/set (2 pcs) | Max. 20 kgf/set (2 pcs) | Max. 50 kgf/set (2 pcs) |


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

## Total Coordination



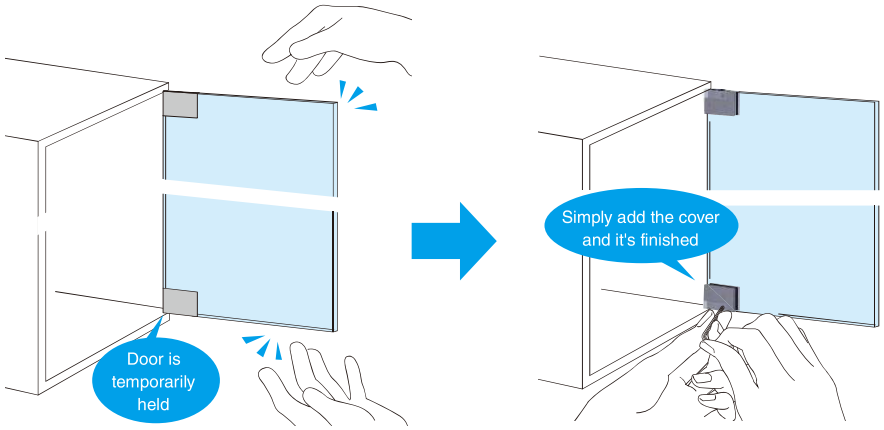



Glass hinges, Glass brackets, and locks can be unified in a flat design, that enhances the appeal of your exhibits.



## Easy Insttallation

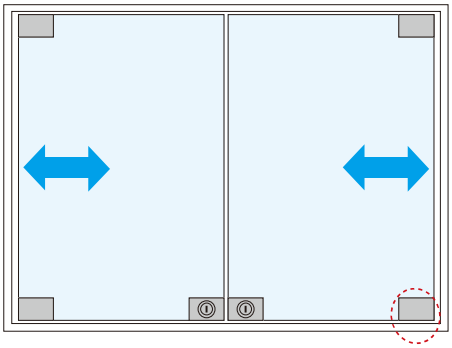
•Temporary holding feature allows the door to be installed easily by one person

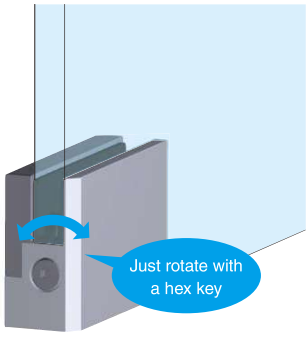



Fit the hinge groove onto the rotating shaft mounted on the top and bottom panels. The temporarily retaining the door in the frame through the temporary holding feature and enabling easy door mounting by one person.

Installation

•Horizontal and height adjustment after mounting the door is easy



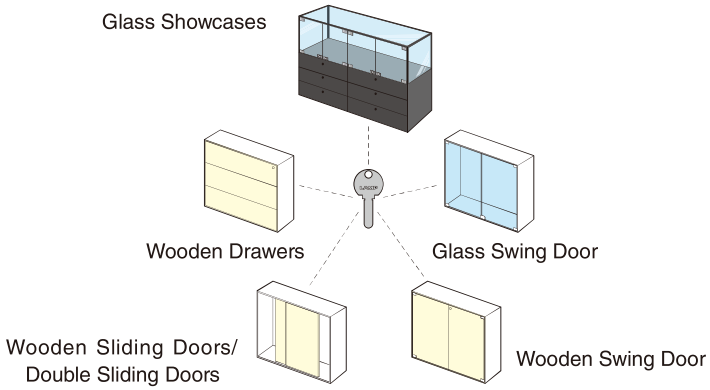



Rotate the adjustment screw on the hinge side to move the door horizontally, enabling easy adjustment with the door mounted. Additionally, height adjustment while mounted is also possible with GS-GH50.

## Total Lock function

### Multiple cabinets can be locked and unlocked with the same key.

Specify the same key number within the Million Lock Series (GS-GL5, GS-GL5W, GS-GL20), the Super Rim Lock Series (GS-GL50), or the 2650 Series (GS-GL3) to lock/unlock drawers and swing doors near the showcase with the same key, as in the figure.






This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR RIM LOCK GS-GL50 Easy Key Number Change NEW

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | Max.3 million | –* | The key is removable | Super Rim Lock Series |

*Max. 300 changes per master key (made to order)

- A cylinder lock for perfect glass showcases.
- Designed for use with the GS-GH50 hinge (P.165) for design coordination.
- Thick stainless steel deadbolt for added security.
- Includes dimple type, reversible keys.
- The key number can be changed without the need to replace the cylinder, which also enables the use of a Construction Key System. ey number can be changed without replacing the cylinder.
- Includes a cover that conceals the keyhole. cover hides the key hole.
- The face plate can be used as a handle to open the door.
- Installation requires only a single round hole in the cabinet, which simplifies the process and reduces installation time.

INSTRUCTION | TEMPERED GLASS | SCREW

### Round Dead Bolt



Only processing required for boards is drilling.

### Reversible Key



Comes with dimple keys.




### For Luxury Shops

Smooth key operation and solid deadbolt enabling secure locking make the GS-GL50 ideal for luxury shops.

### Others

- Custom specifications can be produced that do not require changes to the key number, and each master key can accommodate 3,000 unique key variations.

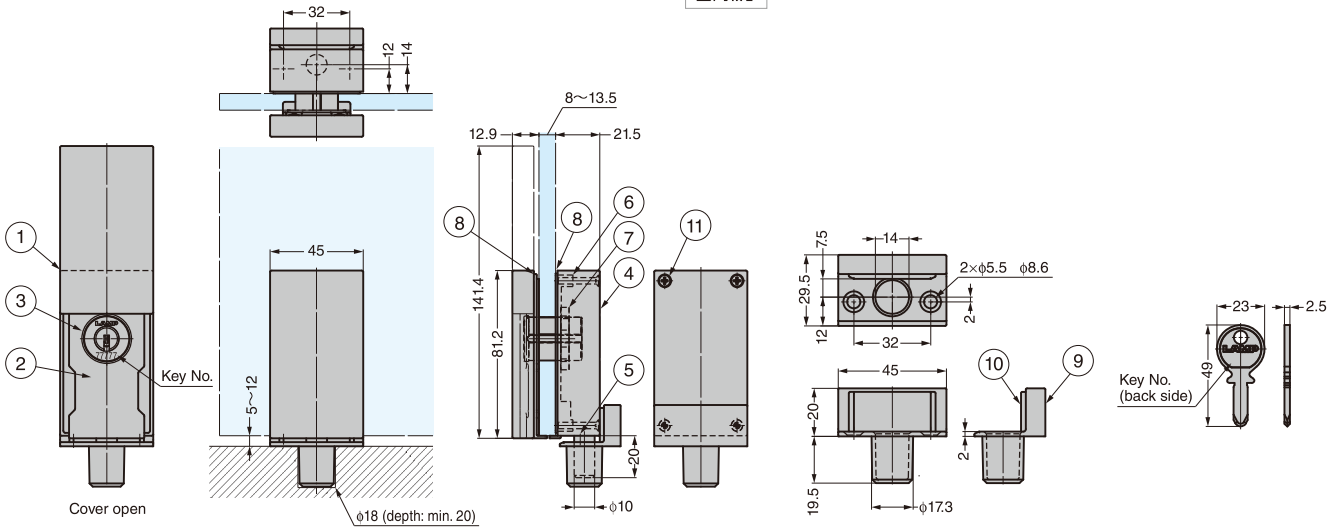
### Remarks

- Note that scratches on the black type may become conspicuous. Please handle it with care during installation.
- Shatter proof film is recommended to be used on glass for safety.
- The key number can be changed up to 2 times.
- Previous keys cannot be used again after changing key number.
- Read the remarks on handling the lock before use.

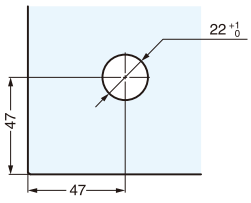
### Parts Included

- Cross-recessed countersunk taping screw 4 × 20 (The finish is the same as the strike plates.)
- Key
- Strike plate

Feature




### Cut Out Dimensions




| No. | Part Name | Material | Finish | | |
|---|---|---|---|---|---|
| | | | CR | GP | BL |
| ① | Slide Cover | Zinc Alloy (ZDC) | Chrome | Gold Plated (24K) | Enamel Black |
| ② | Face Plate | | | | |
| ③ | Cylinder | Brass | | | |
| ④ | Case Lock | Zinc Alloy (ZDC) | | | |
| ⑤ | Dead Bolt | Stainless Steel | Plain | | |
| ⑥ | Back Plate | Zinc Alloy (ZDC) | Nickel | | |
| ⑦ | Nut | Brass | | | |
| ⑧ | Packing | Chloroprene Rubber (CR) | Black | | |
| ⑨ | Strike Plate | Zinc Alloy (ZDC) | Chrome | Gold Plated (24K) | Enamel Black |
| ⑩ | Strike Plate Rubber | EPDM | Black | | |
| ⑪ | Cross-recessed countersunk screw M3 x 18 | – | Chrome | Gold Plated (24K) | Enamel Black |

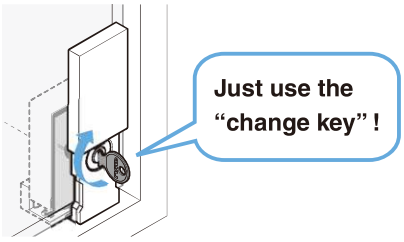


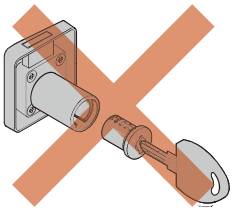
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

## Easy Key Change. No Cylinder Replacements Needed.

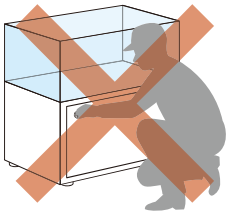
The key number can be changed by simply using a “change key”.

It is unnecessary to ask locksmith for replacing cylinders, for example, when the key is lost or tenants are changed.



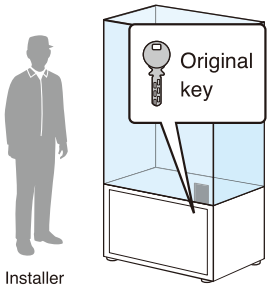
No cylinder replacements needed



No locksmith’s help needed

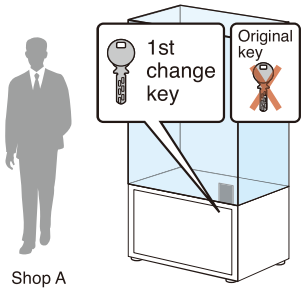
## Use Example in Tenant Shop

① During installation



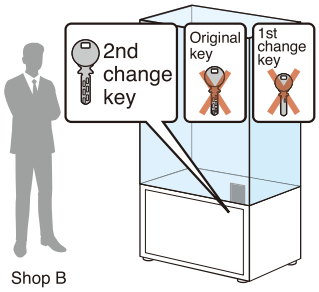

“Original key” is used during installation.
(The “original key” is included.)

② When a new tenant moves in




“1st change key” is used for “shop A”.
The “original key” is no longer be used after this.
(The“1st change key” is made to order.)

③ When the tenant changes




“2nd change key” is used for “shop B”.
The “1st change key” is no longer be used after this.
(The “2nd change key” is made to order.)



Key numbers cannot be changed anymore.

### Combined Usage with Key and Master Key

- There are also three kinds of Master Keys: Original Master Key, Master Keys for 1st change and 2nd change. They are available by made to order.
- Master Keys must also be changed after the lock's key number is changed.
- All key numbers will be changed by using new master key.
- In case only some of the locks’ key numbers in Master Key system are changed, master keys for that portion should still be kept.

| Item Code | Item Name | Finish | Key Type | Master Key System | Glass Thickness | Key Removal | Key Rotation Angle | Box (pc) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|
| 150-047-111 | GS-GL50MK-CR-B | Chrome | Key Different | With | 8 - 13.5 | Two Areas | 360° | 1 | 12 |
| 150-047-112 | GS-GL50-CR-B | | | Without | | | | 1 | 12 |
| 150-001-172 | GS-GL50-CR-D | | Key Alike | | | | | 1 | 12 |
| 150-047-113 | GS-GL50MK-GP-B | Gold Plated (24K) | Key Different | With | | | | 1 | 12 |
| 150-047-114 | GS-GL50-GP-B | | | Without | | | | 1 | 12 |
| 150-001-173 | GS-GL50-GP-D | | Key Alike | | | | | 1 | 12 |
| 150-047-115 | GS-GL50MK-BL-B | Enamel Black | Key Different | With | | | | 1 | 12 |
| 150-047-116 | GS-GL50-BL-B | | | Without | | | | 1 | 12 |
| 150-001-174 | GS-GL50-BL-D | | Key Alike | | | | | 1 | 12 |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR LOCK GS-GL20 Million Lock Series

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | Max. 1 million | –* | Key removable | Million Lock Series |

*Max. 2520 changes per master key (made to order)

- Cylinder lock designed for glass showcases.
- Designed for use with the GS-GH20 (P.162) and GS-GB20 (P.163) for design coordination.
- The keys are dimple type and reversible.
- The strike plate also works as a door stopper, providing stable locking operation.
- The only drilling required for the cabinet is a round hole. This makes the installation very quick.

INSTRUCTION SCREW

## Remarks

- Note that scratches on the black type may become conspicuous. Please handle it with care during installation.
- Shatter proof film is recommended to be used on glass for safety.

## Parts Included

- Cross-recessed countersunk taping screw 3 × 14
- Key
- Strike plate
- Spacer

Feature

## Round Dead Bolt

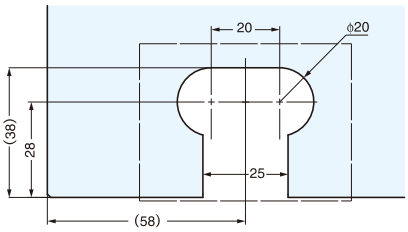


Only processing required for boards is a ϕ12mm drilling.

## Required Number of Spacers

| Glass Thickness | Spacer |
|---|---|
| 6 mm | 2 pcs |
| 8 mm | 1 pc |
| 10 mm | – |

## Cut Out Dimensions

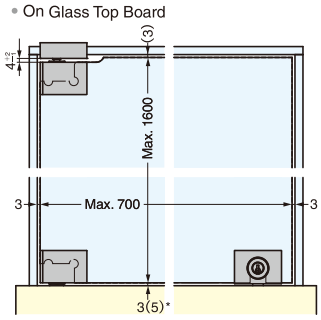




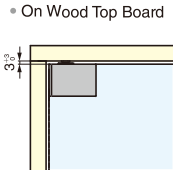


## Installation Example Using with GS-GH20 and GS-GB20

- On Glass Top Board




- On Wood Top Board




* The () indicates the dimensions when the washer of GS-GH20 is attached.

| No. | Part Name | Material | Finish | | |
|---|---|---|---|---|---|
| | | | CR | GP | BL |
| ① | Face Plate | Zinc Alloy (ZDC) | Chrome | Gold Plated (24K) | Enamel Black |
| ② | Case Lock | | | | |
| ③ | Dead Bolt | Brass | Chrome | | |
| ④ | Holding Packing | Polypropylene (PP) | Black | | |
| ⑤ | Packing | Chloroprene Rubber (CR) | | | |
| ⑥ | Spacer | ABS | | | |
| ⑦ | Back Plate | Zinc Alloy (ZDC) | Chrome | Gold Plated (24K) | Enamel Black |
| ⑧ | Strike Plate | | | | |
| ⑨ | Strike Plate Rubber | EPDM | Black | | |
| ⑩ | Cross-recessed screw M4 x 12 | Stainless Steel | Pain | | |
| ⑪ | Cross-recessed countersunk screw M3 x 15 | | Plain | Gold Plated (substitute) | Enamel Black |

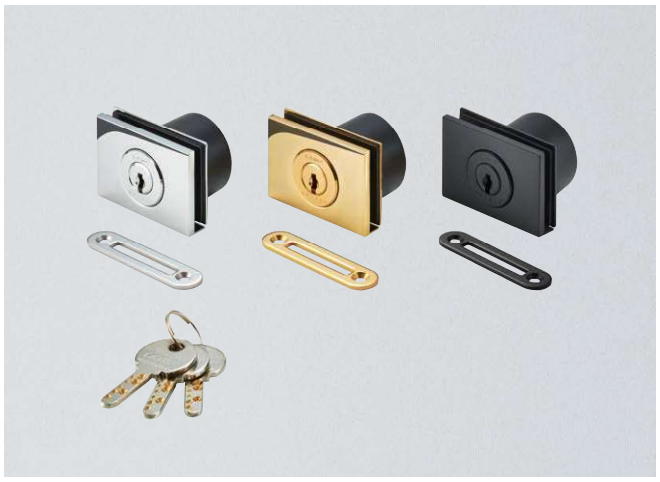
| Item Code | Item Name | Finish | Key Type | Glass Thickness | Key Removal | Key Rotation Angle | Box (pc) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|
| 150-042-117 | GS-GL20-CR-B | Chrome | Key Different | 6, 8, 10 | Two Areas | 360° | 1 | 24 |
| 150-001-365 | GS-GL20-CR-D | | Key Alike | | | | 1 | 24 |
| 150-042-119 | GS-GL20-GP-B | Gold (24K) Plated | Key Different | | | | 1 | 24 |
| 150-001-366 | GS-GL20-GP-D | | Key Alike | | | | 1 | 24 |
| 150-042-121 | GS-GL20-BL-B | Black | Key Different | | | | 1 | 24 |
| 150-001-367 | GS-GL20-BL-D | | Key Alike | | | | 1 | 24 |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR CAM LOCK GS-GL5 Million Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | Max. 1 million | –* | Key not removable | Million Lock Series |

*Max. 2,520 changes per master key (made to oder)

- A perfect cylinder lock for glass showcases.
- Recommended for use with the glass hinge GS-GH5 (P.160) and bracket GS-GB5 (P.161) for total design coordination.
- The keys are dimple type and reversible.
- Unlocks when the key is turned 90° clockwise. (The lock plate also rotates 90°)
- Can be used with the doorstop strike plate GS-GL5HTU (P.1226). (sold separately)

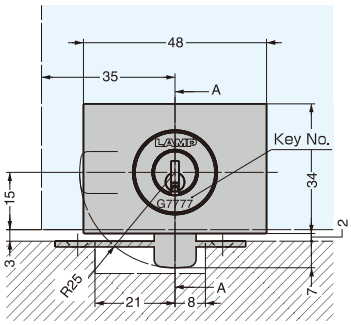
INSTRUCTION | SCREW

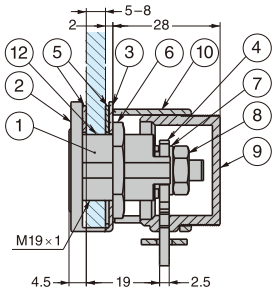
## Remarks

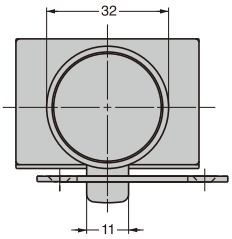
- The direction of the lock plate cannot be changed.
- Shatterproof films are recommended to be used on glass doors for safety.
- When the strike plate is directly attached to the surface, please make the gap of the bottom board 5mm, or use with GS-GL5HTU strike plate instead (sold separately).

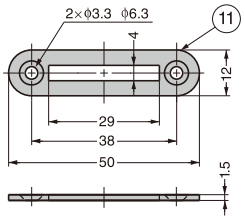
## Parts Included

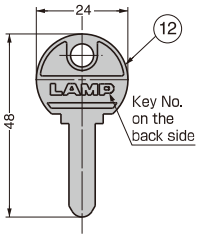
- Countersunk head wood screw 2.7 × 13
- Keys
- Strike plate



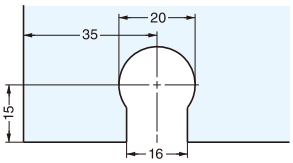



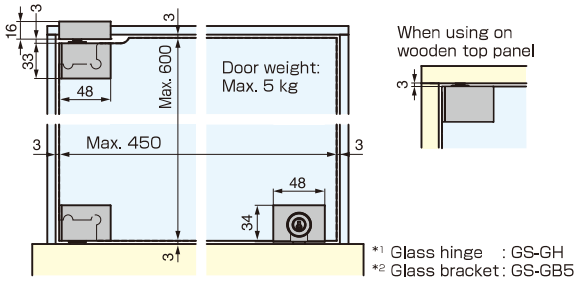

## Cut out dimensions



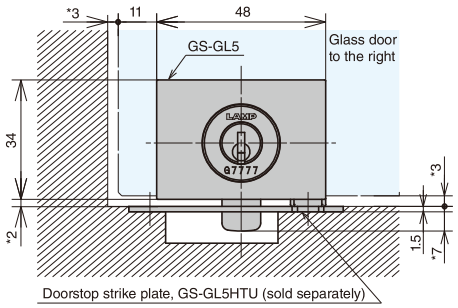

| No. | Part name | Material | Finish/Colour | | |
|---|---|---|---|---|---|
| | | | CR | GP | BL |
| ① | Body | Brass | Chrome | Gold (24K) Plated | Black |
| ② | Front Plate | Zinc Alloy (ZDC) | | | |
| ③ | Back Plate | | | | |
| ④ | Lock Plate | Stainless Steel (SUS304) | Mirror | | |
| ⑤ | Gasket | Chloroprene Rubber (CR) | Black | | |
| ⑥ | Hex Nut | Steel | Silver | | |
| ⑦ | Washer | | Bright Chromate (Trivalemt) | | |
| ⑧ | Hex Nut | | Silver | | |
| ⑨ | Cover | Polypropylene (PP) | Black | | |
| ⑩ | Ring | | | | |
| ⑪ | Strike Plate | Stainless Steel (SUS304) | Plain | Gold (24K) Plated | Black |
| ⑫ | Key | Brass | Nickel | | |

## Installation

**When using with the glass hinge*1 and glass bracket*2**




**When using with the doorstop strike plate**




*When the clearance between the glass and cabinet is 3 mm.

Please visit our website for more drawing data

## Glass Door Cam Lock

| Item Code | Item Name | Finish/ Colour | Key Type | Glass Thickness | Key Removal* | Key Rotation Angle | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|
| 150-037-173 | GS-GL5-CR-B | Chrome | Key Different | 5-8 | Only one area | 90° | 12 | 60 |
| 150-001-313 | GS-GL5-CR-D | | Key Alike | | | | 12 | 60 |
| 150-037-175 | GS-GL5-GP-B | Gold (24K) Plated | Key Different | | | | 12 | 60 |
| 150-001-314 | GS-GL5-GP-D | | Key Alike | | | | 12 | 60 |
| 150-042-206 | GS-GL5-BL-B | Black | Key Different | | | | 12 | 60 |
| 150-001-438 | GS-GL5-BL-D | | Key Alike | | | | 12 | 60 |

*Key cannot be removed when unlocked

## Doorstop Strike Plate Sold Separately (P.1226)



| Item Code | Item Name | Finish/Colour |
|---|---|---|
| 150-043-977 | GS-GL5HTU-SM | Plain |
| 150-043-978 | GS-GL5HTU-GA | Gold |
| 150-043-979 | GS-GL5HTU-BL | Black |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR CAM LOCK GS-GL5W For Double Swing Doors/Million Lock Series NEW

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Swing Door | Glass | Max. 1 million | –* | Key not removable | Million Lock Series |

*Max. 2,520 changes per master key (made to oder)

- A perfect cylinder lock for glass showcases.
- Recommended for use with the glass hinge GS-GH5 (P.160) and bracket GS-GB5 (P.161) for total design coordination.
- The keys are dimple type and reversible.
- Unlocks when the key is turned 90° clockwise. (The lock plate also rotates 90°)
- Comes with a door stopper which allows for 8-level depth adjustment.

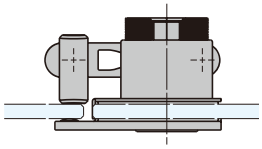
INSTRUCTION SCREW

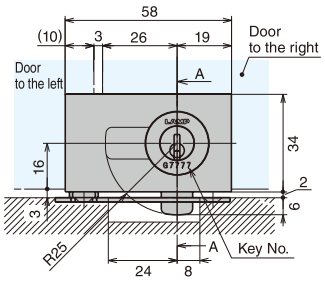
## Remarks

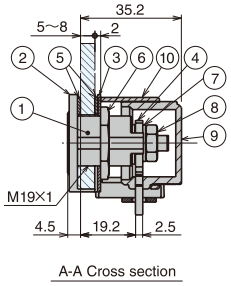
- The direction of the lock plate cannot be changed.
- Shatterproof films are recommended to be used on glass doors for safety.

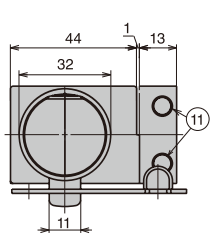
## Parts Included

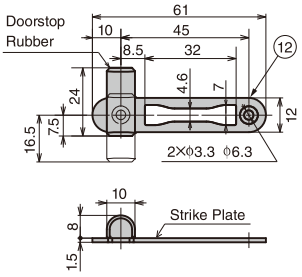
- Doorstop strike plate, GS-GL5HTU
- Countersunk head wood screw 2.7 × 13
- Keys

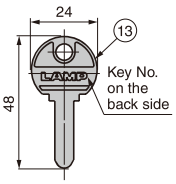




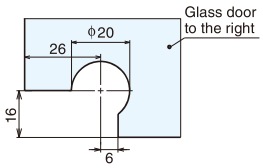



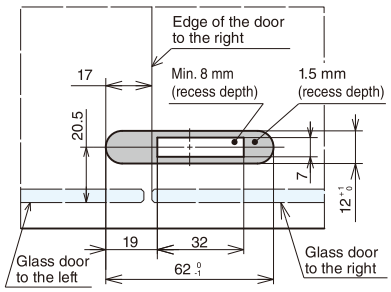



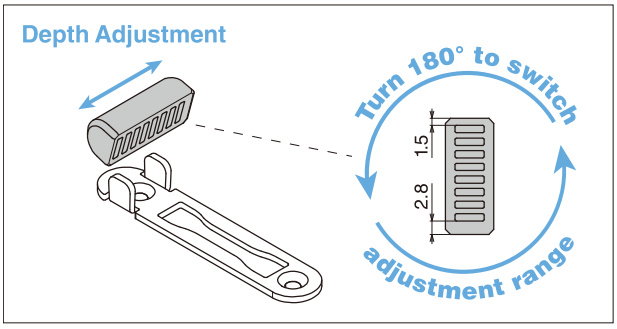

## Cut Out Demensions




## Installation Demensions




## 8-level Depth Adjustment




Allows for 4-level depth adjustment by changing the slits to insert.
When turned 180°, additional 4-level adjustment are available. (Total 8-level)

| No. | Part name | Material | Finish/Colour | | |
|---|---|---|---|---|---|
| | | | CR | GP | BL |
| ① | Body | Brass | Chrome | Gold (24K) Plated | Black |
| ② | Front Plate | Zinc Alloy (ZDC) | | | |
| ③ | Back Plate | | | | |
| ④ | Lock Plate | Stainless Steel (SUS304) | Mirror | | |
| ⑤ | Gasket | Chloroprene Rubber (CR) | Black | | |
| ⑥ | Hex Nut | Steel | Silver | | |
| ⑦ | Washer | | Bright Chromate (Trivalemt) | | |
| ⑧ | Hex Nut | | Silver | | |
| ⑨ | Cover | Polypropylene (PP) | Black | | |
| ⑩ | Ring | | | | |
| ⑪ | Bumper | Stainless Steel (SUS304) | Plain | Gold | Black |
| ⑫ | Doorstop Strike Plate | Stainless Steel (SUS403)/ EPDM | | | |
| ⑬ | Key | Brass | Nickel | | |

| Item Code | Item Name | Finish/Colour | Key Type | Glass Thickness | Key Removal* | Key Rotation Angle | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|
| 150-043-982 | GS-GL5W-CR-B | Chrome | Key Different | 5–8 | Only one area | 90° | 12 | 60 |
| 150-001-151 | GS-GL5W-CR-D | | Key Alike | | | | 12 | 60 |
| 150-043-984 | GS-GL5W-GP-B | Gold (24K Plated) | Key Different | | | | 12 | 60 |
| 150-001-152 | GS-GL5W-GP-D | | Key Alike | | | | 12 | 60 |
| 150-043-986 | GS-GL5W-BL-B | Black | Key Different | | | | 12 | 60 |
| 150-001-153 | GS-GL5W-BL-D | | Key Alike | | | | 12 | 60 |

*Key cannot be removed when unlocked



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR LOCK GS-GL3 NEW

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | 120 | - | KF : Removable<br>KT : Key not removable | 2650 Series* |

*The key is not compatible with the 2650-16 type.

- Cylinder lock designed for glass showcases.
- Comes in two key types:
  One is removable when locked, and the other is not.
- The locking direction can be changed by turning the case lock and cylinder.
- The strike plate also works as a door stopper, providing stable locking operation.
- The only drilling required for the cabinet is a round hole.
  This makes the installation very quick.

INSTRUCTION | SCREW

## Remarks

- Note that scratches on the black type may become conspicuous. Please handle it with care during installation.
- Shatter proof film is recommended to be used on glass for safety.

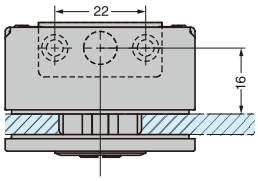
## Parts Included

- Cross-recessed countersunk taping screw 3 ×14
- Key
- Strike plate

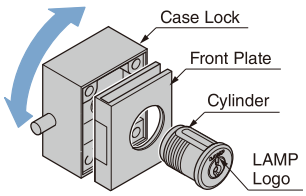
## Round Dead Bolt



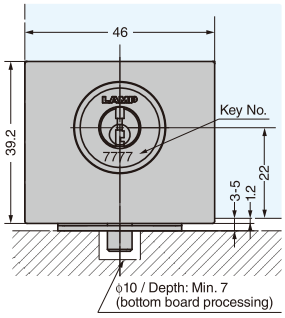

Only processing required for boards is a ϕ10mm drilling.



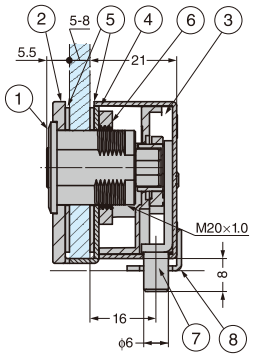

## Change Locking Direction

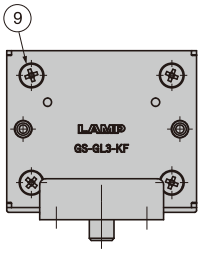


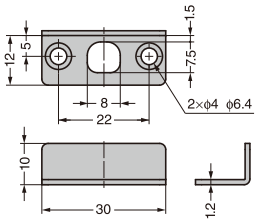

1. Remove the cylinder from the front plate.
2. Turn the case lock and front plate to the desired direction.
3. Fix them with nuts or screws.
   (Make sure the LAMP logo of the cylinder is alway in the right direction.)

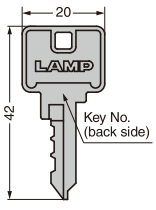



| No. | Part Name | Material | Finish | | |
|---|---|---|---|---|---|
| | | | CR | GP | BL |
| ① | Cylinder | Zinc Alloy (ZDC) | Chrome | Gold Plated (24K) | Black Chrome |
| ② | Front Plate | | | | Enamel Black |
| ③ | Case Lock | Steel (SPCC) | Enamel Black | | |
| ④ | Back Plate | | Clear Zinc Chromate | | |
| ⑤ | Packing | Chloroprene Rubber (CR) | - | | |
| ⑥ | Nut | Steel (SPCC) | Clear Zinc Chromate | | |
| ⑦ | Dead Bolt | Steel | Nickel | | |
| ⑧ | Strike Plate | Steel (SPCC) | Enamel Black | | |
| ⑨ | Cross-recessed countersunk screw M3 × 20 | Steel | Black Chrome | | |



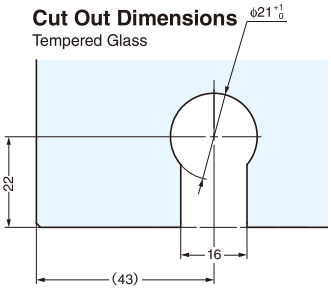



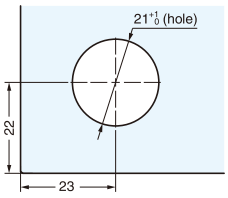

## Cut Out Dimensions

Tempered Glass



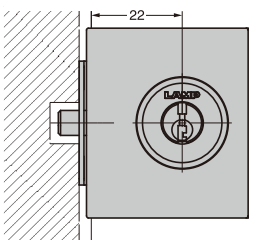

## Cut Out Dimensions

(Dead bolt direction: down)




## Installation Example

Left-side Locking




| Item Code | Item Name | Finish | Key Type | Glass Thickness | When Unlocked | Key Removal | Key Rotation Angle | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|
| 150-047-087 | GS-GL3-KF-CR-B | Chrome | Key Different | 5 - 8 | Key is removable | Two Areas | 360° | 12 | 24 |
| 150-001-169 | GS-GL3-KF-CR-D | | Key Alike | | | | | 12 | 24 |
| 150-047-088 | GS-GL3-KF-GP-B | Gold Plated (24K) | Key Different | | | | | 12 | 24 |
| 150-001-170 | GS-GL3-KF-GP-D | | Key Alike | | | | | 12 | 24 |
| 150-047-089 | GS-GL3-KF-BL-B | Black | Key Different | | | | | 12 | 24 |
| 150-001-171 | GS-GL3-KF-BL-D | | Key Alike | | | | | 12 | 24 |
| 150-047-084 | GS-GL3-KT-CR-B | Chrome | Key Different | | Key is NOT removable | One Area | 90° | 12 | 24 |
| 150-001-166 | GS-GL3-KT-CR-D | | Key Alike | | | | | 12 | 24 |
| 150-047-085 | GS-GL3-KT-GP-B | Gold Plated (24K) | Key Different | | | | | 12 | 24 |
| 150-001-167 | GS-GL3-KT-GP-D | | Key Alike | | | | | 12 | 24 |
| 150-047-086 | GS-GL3-KT-BL-B | Black | Key Different | | | | | 12 | 24 |
| 150-001-168 | GS-GL3-KT-BL-D | | Key Alike | | | | | 12 | 24 |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS

# LAMP DOORSTOP STRIKE PLATE GS-GL5HTU NEW

Latest Info

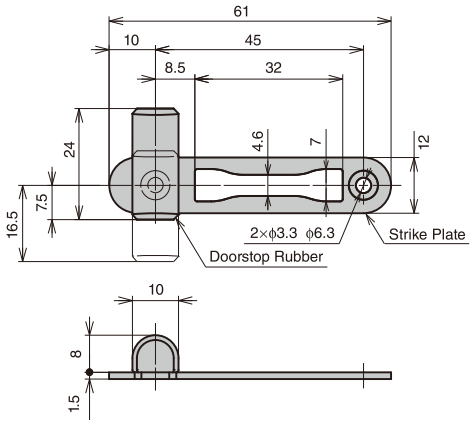


- Combines the functions of a strike plates and a door stopper. Compact and easy to install.
- Allows for 8-level depth adjustment depending on door fitting.
- Can be used with the glass door cam lock, GS-GL5 (P.1223) and GS-GL5W (P.1224). (As the GS-GL5W already includes this, there is no need to order separately in that case.)

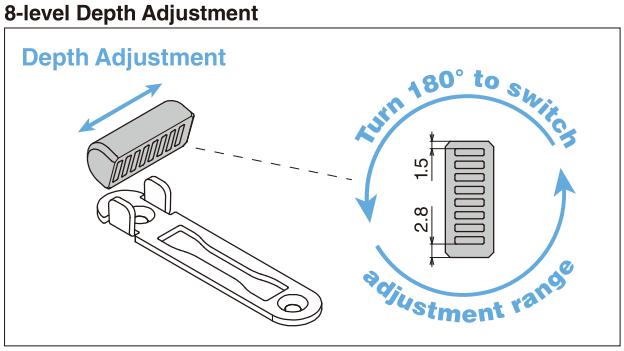
SCREW

### Remarks
- Installation direction is different for the GS-GL5 (P.1223) and GS-GL5W (P.1224).

### Parts Included
- Countersunk head wood screw 2.7 × 13




### 8-level Depth Adjustment




Allows for 4-level depth adjustment by changing the slits to insert.
When turned 180°, additional 4-level adjustment are available. (Total 8-level)

| Item Code | Item Name | Finish/Colour | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|
| 150-043-977 | GS-GL5HTU-SM | Plain | 9 | 60 | 360 |
| 150-043-978 | GS-GL5HTU-GA | Gold | | 60 | 360 |
| 150-043-979 | GS-GL5HTU-BL | Black | | 60 | 360 |

| Part Name | | Material | Finish/Colour |
|---|---|---|---|
| Strike Plate | | Stainless Steel (SUS304) | – |
| Doorstop Rubber | | EPDM | Black |
| Included Screws | -SM | Stainless Steel | Plain |
| | -GA | | Gold |
| | -BL | Steel (SWCH) | Black Chrome |

# LAMP RECESSED COUNTER PLATE GL-UU32 For Glass Door Locks

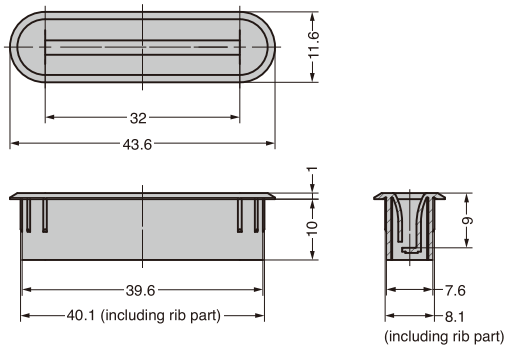
Latest Info



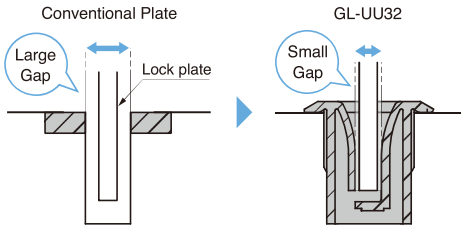
- Easy push-in installation. No screws are needed.
- Gives a subtle clean look. Processed wood surface cannot be seen through the hole.
- Has ramped wedges inside to reduce the gap and prevent doors from rattling.

### Specifications
- Can be used with GS-GL5 and 1310GL locks. In the case of the GS-GL5, please make the gap between the doors and bottom boards 5mm.

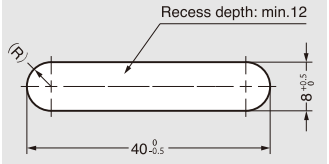
### Remarks
- If the installation is loose, please use adhesive bond to fix the plate.
- Thickness of the lock plate should be less than 3 mm.




### Rattle-free Mechanism




### Cut Out Dimensions




| Item Code | Item Name | Colour | Material | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|
| 150-047-547 | GL-UU32-WT | White | ABS | 1.4 | 150 | 1,500 |
| 150-047-548 | GL-UU32-BL | Black | | | 150 | 1,500 |


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR CAM LOCK 1300GL Million Lock Series

Latest Info



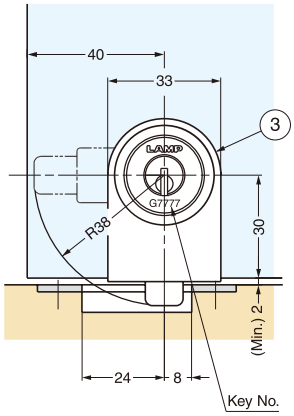
| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | Max. 1 million | –* | Key removable | Million Lock Series |

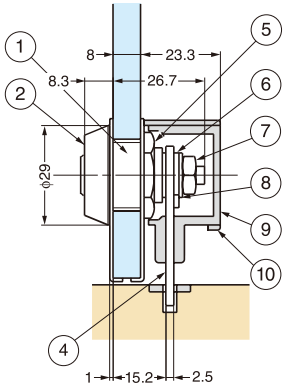
*Max. 2,520 changes per master key (made to order)

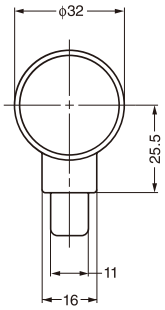
- Dimple key lock series. Ideal for showcase application.
- Reversible key. Lock and unlock to turn key 360˚ and cam turns 90˚.
- Able to remove key when locked and unlocked.

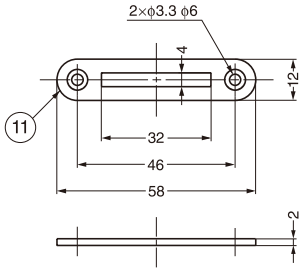
SCREW

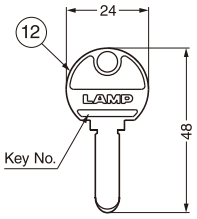
### Parts Included
- Countersunk head wood screw 2.7 × 13 (SUS)



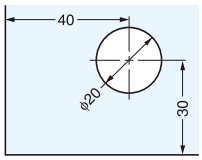



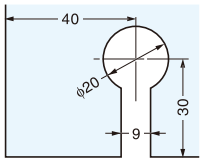




### Cut Out Dimensions

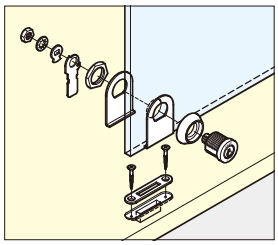



Thickness: 5 / 6 / 8 mm
* Recommended value

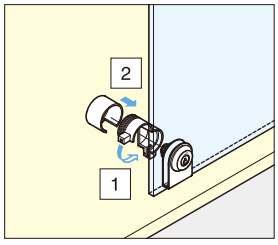



Thickness: 8 (tempered glass)

### Installation



### How to Install ⑨Cover & ⑩Ring




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | Brass | Satin Nickel |
| ② | Ring | Brass | Satin Nickel |
| ③ | Front Plate | Stainless Steel (SUS304) | Polished |
| ④ | Cam | Stainless Steel (SUS304) | Polished |
| ⑤ | Hex Nut | Steel | Special Anti Rust Paint/Silver |
| ⑥ | Small Cam | Brass | Nickel |
| ⑦ | Hex Nut | Steel | Special Anti Rust Paint/Silver |
| ⑧ | Washer | Steel | Bright Chromate (Trivalemt) |
| ⑨ | Cover | Polypropylene (PP) | Black |
| ⑩ | Ring | Polypropylene (PP) | Black |
| ⑪ | Strike | Stainless Steel (SUS304) | Polished |
| ⑫ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Glass Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-060-219 | 1300GL-B | Key Different | 5 - 8 | 140 g | 12 pcs | 60 pcs |
| 150-001-056 | 1300GL-D | Key Alike | 5 - 8 | 140 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR CAM LOCK 1310GL Million Lock Series

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | Max. 1 million | –* | Key not removable | Million Lock Series |

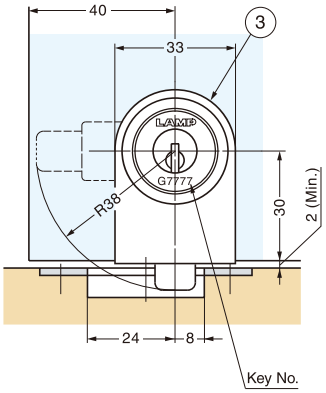
*Max. 2,520 changes per master key (made to order)

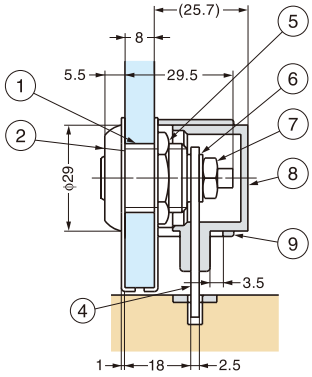
- Dimple key lock series. Ideal for showcase application.
- Reversible key can be removed when locked.

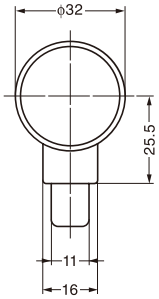
SCREW

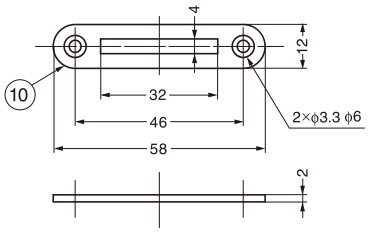
### Parts Included

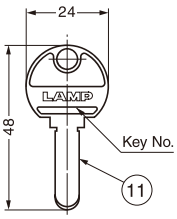
- Countersunk head wood screw 2.7 × 13 (SUS)



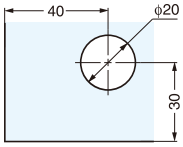



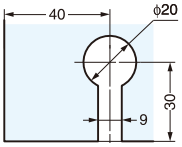




### Cut Out Dimensions




Thickness: 5 / 6 / 8 mm
* Recommended value




Thickness: 8 (tempered glass)

| No. | Part Name | Material | Finish/Colour | | | |
|---|---|---|---|---|---|---|
| | | | SN | CR | GC | BL |
| ① | Body | Brass | Satin Nickel | Chrome | Gold (24K) | Black Chrome |
| ② | Ring | Brass | Satin Nickel | Chrome | Gold (24K) | Black Chrome |
| ③ | Front Plate | Stainless Steel (SUS304) | Satin | Polished | Gold (24K) | Black Chrome |
| ④ | Cam | Stainless Steel (SUS304) | Plain | | | |
| ⑤ | Hex Nut | Steel | Special Anti Rust Painting/Silver | | | |
| ⑥ | Washer | Steel | Bright Chromate (Trivalemt) | | | |
| ⑦ | Hex Nut | Steel | Special Anti Rust Painting/Silver | | | |
| ⑧ | Cover | Polypropylene (PP) | Black | | | |
| ⑨ | Ring | Polypropylene (PP) | Black | | | |
| ⑩ | Strike | Stainless Steel (SUS304) | Polished | | Gold (24K) | Black Chrome |
| ⑪ | Key | Brass | Nickel | | | |

| Item Code | Item Name | Finish | Key Type | Glass Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-945 | 1310GL-SN-B | Satin Nickel | Key Different | 5 - 8 | 139 g | 12 pcs | 60 pcs |
| 150-001-315 | 1310GL-SN-D | Satin Nickel | Key Alike | 5 - 8 | 139 g | 12 pcs | 60 pcs |
| 150-060-947 | 1310GL-CR-B | Chrome | Key Different | 5 - 8 | 139 g | 12 pcs | 60 pcs |
| 150-001-316 | 1310GL-CR-D | Chrome | Key Alike | 5 - 8 | 139 g | 12 pcs | 60 pcs |
| 150-060-949 | 1310GL-GC-B | Gold (24K) | Key Different | 5 - 8 | 139 g | 12 pcs | 60 pcs |
| 150-001-317 | 1310GL-GC-D | Gold (24K) | Key Alike | 5 - 8 | 139 g | 12 pcs | 60 pcs |
| 150-028-535 | 1310GL-BL-B | Black Chrome | Key Different | 5 - 8 | 139 g | 12 pcs | 60 pcs |
| 150-001-248 | 1310GL-BL-D | Black Chrome | Key Alike | 5 - 8 | 139 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CYLINDER GLASS LOCK 1310GL-SQ Million Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | Max. 1 million | –* | Key not removable | Million Lock Series |

*Max. 2,520 changes per master key (made to order)

- Clean, squared-off design.
- Can be used with the square glass hinge for a unified design.
- Cylinder lock is ideal for display cases.
- Dimpled key design. Reversible key can be inserted and removed in any direction.
- Turn 90° clockwise to unlock (the lock plate also rotates 90°).

TEMPERED GLASS | SCREW

## Recommended Hinge

- Use with the following products is recommended.
  - HES3D-90 3-Way Adjustable Concealed Hinge
  - HES3D-G90BKT Glass Door Bracket
  - GH-450 Glass Hinge
  - GH-450G Glass Hinge

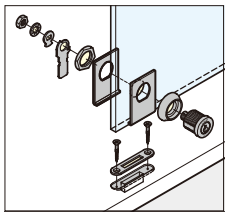
## Remarks

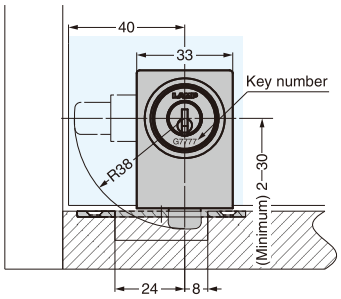
- The direction of the lock plate cannot be changed.
- Handle the black type with care, as scratches will be noticeable.
- Read the remarks on handling the lock before use.

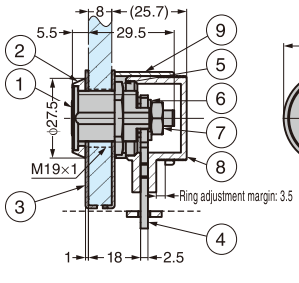
## Parts Included

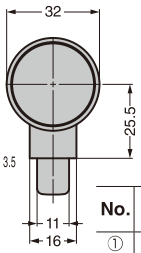
- Size 2.7 x 13 cross-recessed countersunk wooden screws (stainless steel)
- Key
- Strike

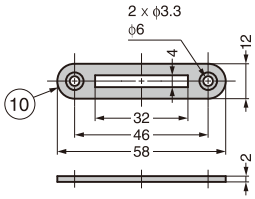
## Installation Specification Drawing

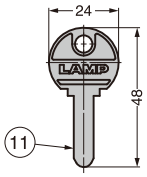




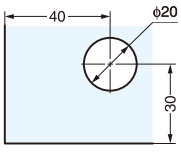



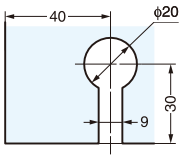




## Cut Out Dimensions




Thickness: 5 / 6 / 8 mm




Thickness: 8 (tempered glass)

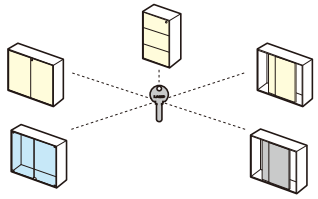
* Recommended value

| No. | Part Name | Material | Finish/Colour | | | |
|---|---|---|---|---|---|---|
| | | | SN | CR | GP | BL |
| ① | Main Body | Free-Cut Brass | Satin Nickel Plating | Chrome Plating | 24K Gold Plating | Chrome Black |
| ② | Square Decorative Ring | | | | | |
| ③ | Square Front Plate | Stainless Steel (SUS304) | Satin | Polished | | |
| ④ | Lock Plate | | Plain | | | |
| ⑤ | Hex Nut | Steel | Special Rustproof Coating/Silver | | | |
| ⑥ | Washer | | Bright Chromate (Trivalemt) | | | |
| ⑦ | Hex Nut | | Special Rustproof Coating/Silver | | | |
| ⑧ | Cover | Polypropylene (PP) | Black | | | |
| ⑨ | Ring | | | | | |
| ⑩ | Strike | Stainless Steel (SUS304) | Polished | | 24K Gold Plating | Chrome Black |
| ⑪ | Key | Brass | Nickel Plating | | | |

| Item Code | Item Name | Finish | Key Type | Compatible glass thickness (mm) | Insertion/Removal* | Rotation Angle | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|
| 150-042-262 | 1310GL-SQ-SN-B | Satin Nickel Plating | Key Different | 5 - 8 | 1 position | 90° | 147 | 12 | 60 |
| 150-001-439 | 1310GL-SQ-SN-D | | Key Alike | | | | | 12 | 60 |
| 150-042-111 | 1310GL-SQ-CR-B | Chrome Plating | Key Different | | | | | 12 | 60 |
| 150-001-362 | 1310GL-SQ-CR-D | | Key Alike | | | | | 12 | 60 |
| 150-042-113 | 1310GL-SQ-GP-B | 24K Gold Plating | Key Different | | | | | 12 | 60 |
| 150-001-363 | 1310GL-SQ-GP-D | | Key Alike | | | | | 12 | 60 |
| 150-042-115 | 1310GL-SQ-BL-B | Chrome Black | Key Different | | | | | 12 | 60 |
| 150-001-364 | 1310GL-SQ-BL-D | | Key Alike | | | | | 12 | 60 |

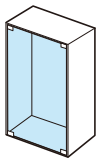
*The key is not released when unlocked, preventing doors left unlocked by accident

### Multiple cabinets can be locked and unlocked with the same key



As shown in the figure, the same key can be used to lock and unlock multiple cabinets in the Million Lock Series if the same key number is specified.

Doors supported by this product



Glass single doors

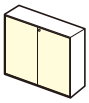
### Doors supported by other locks in the Million Lock Series



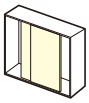
Wooden drawers



Wooden single doors



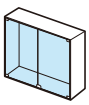
Wooden double doors



Wooden sliding doors



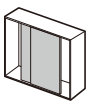
Glass single doors



Glass double doors



Sheet metal single doors



Sheet metal sliding doors

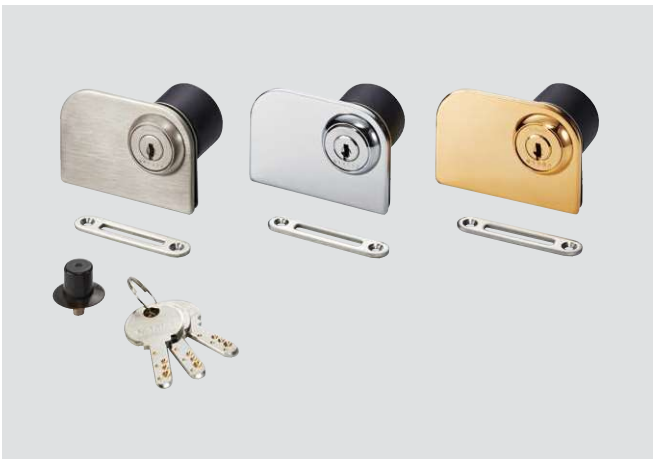


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR CAM LOCK 1310GLW Million Lock Series

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Swing Door | Glass | Max. 1 million | –* | Key not removable | Million Lock Series |

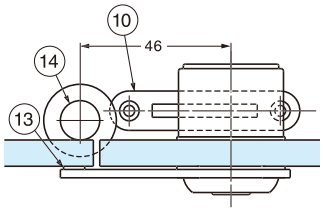
*Max. 2,520 changes per master key (made to order)

- For double door application.
- Dimple key lock series. Ideal for showcase application.
- Reversible key can be removed when locked and turn 90° rotation clockwise.

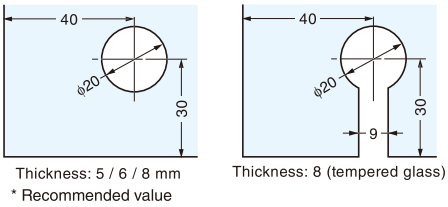
SCREW

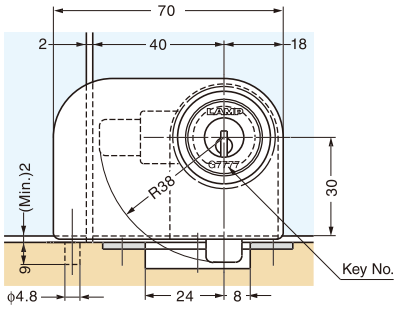
**Parts Included**

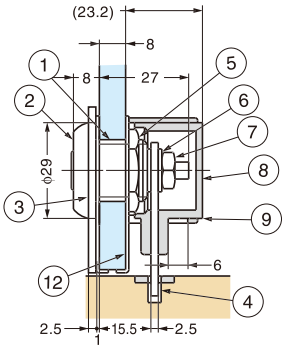
- Countersunk head wood screw 2.7 × 13 (SUS)

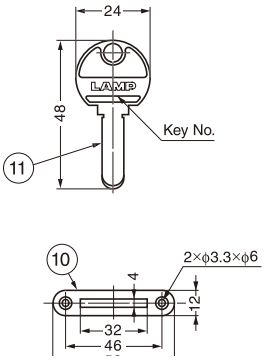



**Cut Out Dimensions**




| No. | Part Name | Material | Finish/Colour | | |
|---|---|---|---|---|---|
| | | | SN | CR | GC |
| ① | Body | Brass | Satin Nickel | Chrome | Gold |
| ② | Ring | Brass | Satin Nickel | Chrome | Gold |
| ③ | Plate | Brass | Satin Nickel | Chrome | Gold |
| ④ | Cam | Stainless Steel (SUS304) | Plain | | |
| ⑤ | Hex Nut | Steel | Special Anti Rust Painting/Silver | | |
| ⑥ | Washer | Steel | Bright Chromate (Trivalemt) | | |
| ⑦ | Hex Nut | Steel | Special Anti Rust Painting/Silver | | |
| ⑧ | Cover | Polypropylene (PP) | Black | | |
| ⑨ | Ring | Polypropylene (PP) | Black | | |
| ⑩ | Strike | Stainless Steel (SUS304) | Polished | | |
| ⑪ | Key | Brass | Nickel | | |
| ⑫ | Plate | Stainless Steel (SUS304) | Polished | | |
| ⑬ | Clear Bumper BS-40 | Polyurethane (PUR) | Clear | | |
| ⑭ | Stopper SS-324BR | Polyamide (PA) | Brown | | |

| Item Code | Item Name | Key Type | Glass Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-060-951 | 1310GLW-SN-B | Key Different | 5 - 8 | 206 g | 12 pcs | 60 pcs |
| 150-001-318 | 1310GLW-SN-D | Key Alike | 5 - 8 | 206 g | 12 pcs | 60 pcs |
| 150-060-953 | 1310GLW-CR-B | Key Different | 5 - 8 | 206 g | 12 pcs | 60 pcs |
| 150-001-319 | 1310GLW-CR-D | Key Alike | 5 - 8 | 206 g | 12 pcs | 60 pcs |
| 150-060-955 | 1310GLW-GC-B | Key Different | 5 - 8 | 206 g | 12 pcs | 60 pcs |
| 150-001-320 | 1310GLW-GC-D | Key Alike | 5 - 8 | 206 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR CAM LOCK 1330GL-MK

Latest Info




*Cylinder and key are sold separately.

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | Max. 7,800 | Max. 750 key changes | Key removable | Interchangeable Cylinder Lock Series |

- Interchangeable cylinder lock with Master Key system.
- Allows key management and cylinder replacement is easy in case key is lost.
- Key and cam rotate clockwise when locked. Key can be removed when locked and unlocked.
- Simple design for cylinder ring and hidden cam when locked.
- Keys can be shared with 1830-MK (P.1260) and 6830-30MK (P.1245).

SCREW

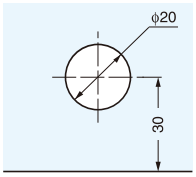
### Remarks
- Cylinder can be changed by using Change Key MD-K1

### Parts Included
- Countersunk head wood screw 2.7 × 13 (SUS)

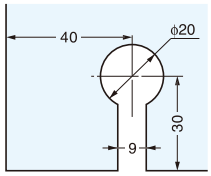
### Sold Separately
- Cylinder MD-N1 (P.1257)

### Optional Parts
- Master Key MD-MK1 (P.1257)
- Change Key MD-K1 (P.1257)

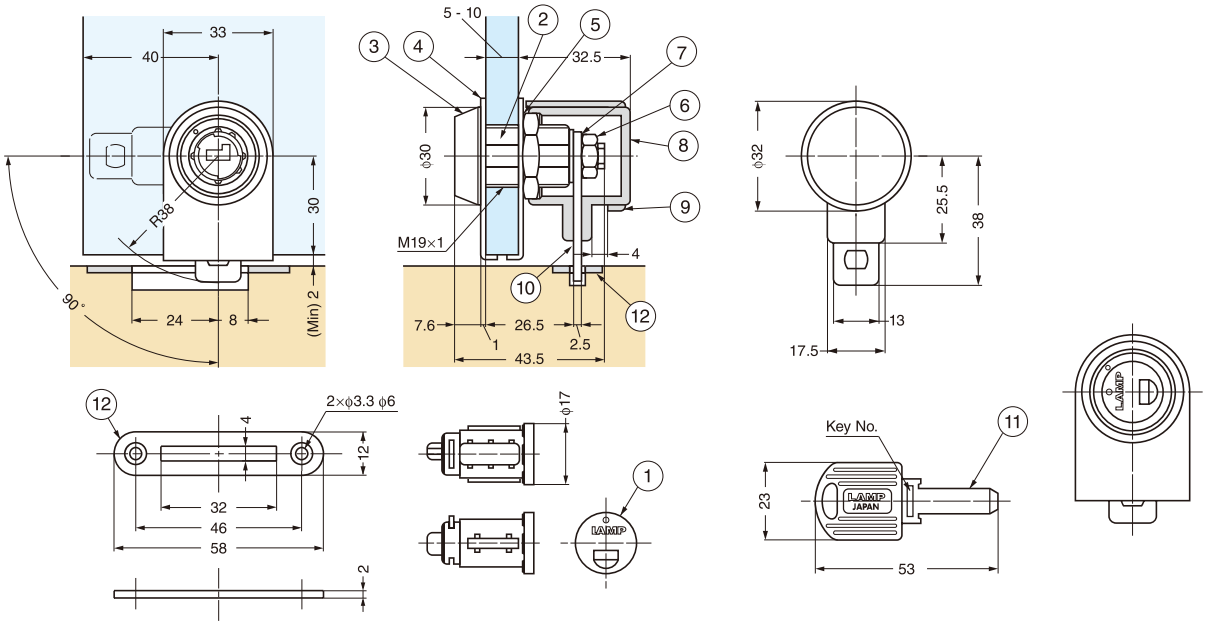
### Cut Out Dimension




Thickness: 5 / 6 / 8 mm
* Recommended value




Thickness: 8 (tempered glass)




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Cylinder (Sold Separately) | Stainless Steel (SUS304)/Zinc Alloy (ZDC) | Polished, Yellow Zinc Chromate |
| ② | Housing | Zinc Alloy (ZDC) | GA: Gold, Paint/Clear, DN: Satin Nickel |
| ③ | Ring | Brass | GA: Gold, Paint/Clear, DN: Satin Nickel |
| ④ | Front Plate | Stainless Steel (SUS304) | GA: Gold, Paint/Clear, DN: Plain |
| ⑤ | Large Hex Nut | Steel | Yellow Zinc Chromate |
| ⑥ | Small Hex Nut | Steel | Yellow Zinc Chromate |
| ⑦ | Washer | Steel | Clear Zinc Chromate |
| ⑧ | Cover | Polypropylene (PP) | Black |
| ⑨ | Ring | Polypropylene (PP) | Black |
| ⑩ | Cam | Stainless Steel (SUS304) | Polished |
| ⑪ | Key (Sold Separately) | Brass/ABS | Nickel/Black |
| ⑫ | Strike | Stainless Steel (SUS304) | Polished |

*Cylinder ① and Key ⑪ are sold separately.

| Item Code | Item Name | Finish | Glass Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-066-004 | 1330GL-MKGA | Gold, Paint/Clear | 5 - 10 | 130 g | 12 pcs | 60 pcs |
| 150-066-003 | 1330GL-MKDN | Satin Nickel | 5 - 10 | 130 g | 12 pcs | 60 pcs |



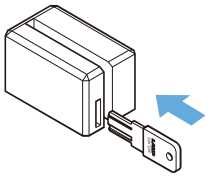
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS SHOWCASE HARDWARE XL-GC

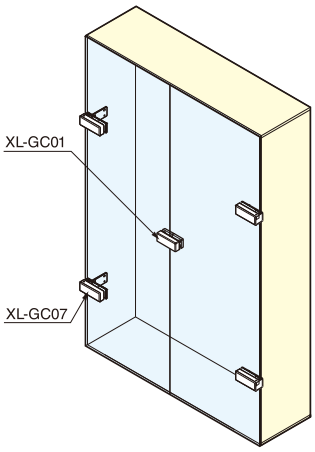




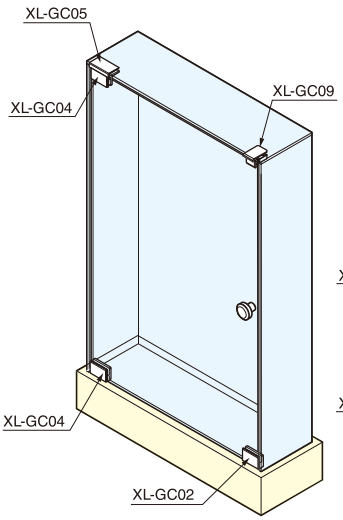
- Hinges, Locks and Sliding door hardware with integrated design.
- Swing and Sliding Doors can be operated with a single key.
- Key hole is located on the side for clean appearance.



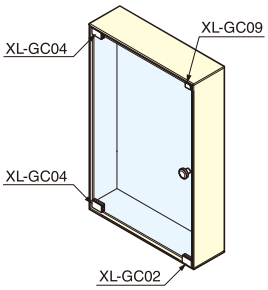
## Double Door



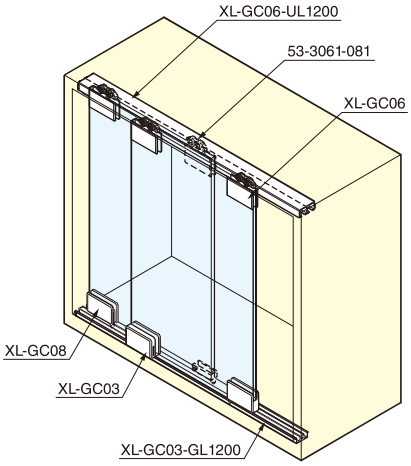

## Swing Door




Can be installed on wooden cabinet.




## Sliding Door




## Locks

| Item | Item Name | | Page |
|---|---|---|---|
| For Double Doors | XL-GC01-CR |  | P.1233 |
| For Swing Doors | XL-GC02-CR |  | |
| For Sliding Doors | XL-GC03-CR |  | |

## Hinges

| Item | Item Name | | Page |
|---|---|---|---|
| Inset Type | XL-GC04-CR |  | P.168 |
| Overlay Type | XL-GC07-CR |  | P.167 |
| Glass Bracket | XL-GC05-CR |  | P.168 |

## Sliding Door Hardware

| Item | Item Name | | Page |
|---|---|---|---|
| Upper Bracket | XL-GC06-CR |  | P.493 |
| Bottom Guide Bracket | XL-GC08-CR |  | |

## Catch

| Item | Item Name | | Page |
|---|---|---|---|
| Magnetic Catch | XL-GC09-CR |  | P.347 |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

## LAMP LOCK FOR DOUBLE SWINGING GLASS DOOR XL-GC01

Latest Info



- Non-handed. Key hole located on the right side for clean appearance and high security.
- Key works as a knob in unlocked position.
- 24 key changes available.

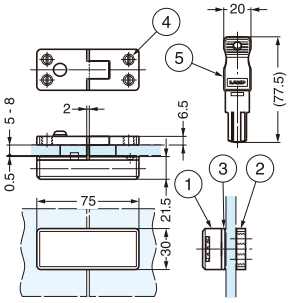
INSTRUCTION | SCREW

### Remarks
- Use with XL-GC09-CR (P.347) for inset doors.

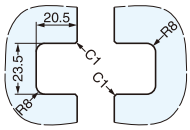
### Parts Included
- Gasket
- Transparent bumper



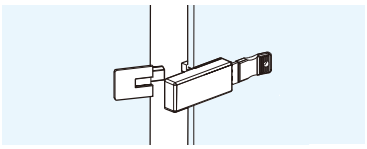
Transparent bumper (included)




### Cut Out Dimensions




### Installation



| No | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Chrome |
| ② | Strike | Zinc Alloy (ZDC) | Chrome |
| ③ | Spacer | Vinyl Chloride Resin (PVC) | Clear |
| ④ | Fixing Screw | Stainless Steel (SUS304) | Plain |
| ⑤ | Key | Brass/ABS | Nickel/Black |

| Item Code | Item Name | Key Type | Glass Thickness | Weight | Carton |
|---|---|---|---|---|---|
| 150-061-100 | XL-GC01-CR-B | Key Different | 5, 6, 8 | 400 g | 24 pcs |
| 150-001-052 | XL-GC01-CR-D | Key Alike | 5, 6, 8 | 400 g | 24 pcs |

## LAMP LOCK FOR INSET SWINGING GLASS DOOR XL-GC02

Latest Info



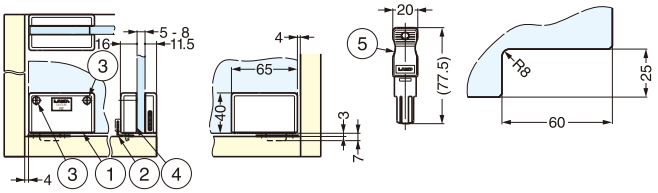
Left

- Non-handed. Key hole located on the right side for clean appearance and high security.
- 24 key changes available.

INSTRUCTION | SCREW

### Parts Included
- Gasket
- Countersunk head wood screw 3.1 × 20 (SUS)

### Cut Out Dimensions




| No | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Chrome |
| ② | Strike | Stainless Steel (SUS304)/ Chloroprene Rubber (CR) | Gloss Barrel/ Black |
| ③ | Fixing Screw | Stainless Steel (SUS304) | Plain |
| ④ | Spacer | Rubber | Black |
| ⑤ | Key | Brass/ABS | Nickel/Black |

| Item Code | Item Name | Key Type | Type | Glass Thickness | Weight | Carton |
|---|---|---|---|---|---|---|
| 150-061-102 | XL-GC02-R-CR-B | Key Different | Right | 5, 6, 8 | 411 g | 24 pcs |
| 150-001-054 | XL-GC02-R-CR-D | Key Alike | Right | 5, 6, 8 | 411 g | 24 pcs |
| 150-061-101 | XL-GC02-L-CR-B | Key Different | Left | 5, 6, 8 | 411 g | 24 pcs |
| 150-001-053 | XL-GC02-L-CR-D | Key Alike | Left | 5, 6, 8 | 411 g | 24 pcs |

## LAMP LOCK FOR SLIDING GLASS DOOR XL-GC03

Latest Info



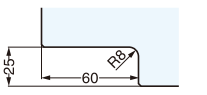
- Non-handed. Key hole located on the right side for clean appearance and high security.
- 24 key changes available.

INSTRUCTION | SCREW

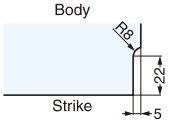
### Remarks
- Please order 1 pc for 2 doors.

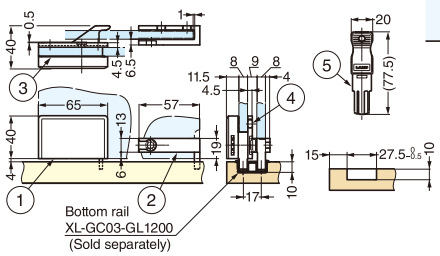
### Optional Parts
- XL-GC03-GL1200 (P.492)

### Cut Out Dimensions




Body




| No | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Chrome |
| ② | Strike | Zinc Alloy (ZDC) | Chrome |
| ③ | Spacer | Rubber | Black |
| ④ | Fixing Screw | Stainless Steel (SUS304) | Plain |
| ⑤ | Key | Brass/ABS | Nickel/Black |

| Item Code | Item Name | Key Type | Glass Thickness | Weight | Carton |
|---|---|---|---|---|---|
| 150-061-103 | XL-GC03-CR-B | Key Different | 8 | 371 g | 24 pcs |
| 150-001-055 | XL-GC03-CR-D | Key Alike | 8 | 371 g | 24 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR CAM LOCK (W/INDICATOR) 2200GL 2200 Lock Series

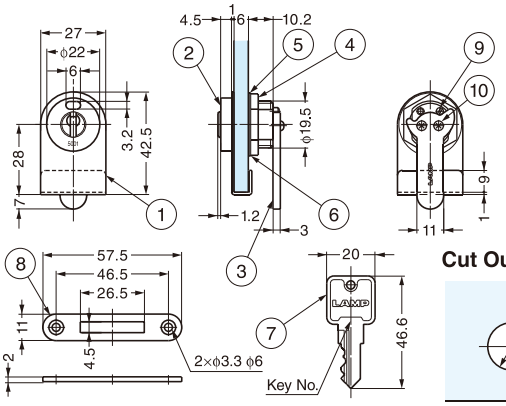
Latest Info



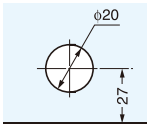
| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | 12 *1 | – *2 | Key not removable | 2200 Lock Series |

*1 Max. 300 key changes (made to order)
*2 Max. 170 changes per master key (made to order)

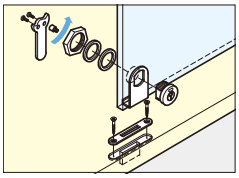
- With indicator: Unlocked - Blue, Locked - Red.
- Ideal for application of showcase or audio rack.
- Available for both right and left swing door.
- Key can be removed when locked.




## Cut Out Dimensions




## Installation



| No. | Part Name | Material | Finish/Colour/Type |
|---|---|---|---|
| ① | Front Plate | Stainless Steel (SUS304) | Polished |
| ② | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ③ | Cam | Steel | Nickel |
| ④ | Hex Nut | Brass | Nickel |
| ⑤ | Plastic Washer | Polyamide (PA) | Natural |
| ⑥ | Washer | Steel | Chrome |
| ⑦ | Key | Brass | Nickel |
| ⑧ | Strike | Steel | Chrome |
| ⑨ | Screw (Stopper for the Lock Plate) | Brass | Plain |
| ⑩ | Screw (for Installing the Lock Plate) | Steel | Nickel/Pan Head Screw M2.5×8 |

| Item Code | Item Name | Key Type | Glass Thickness | Weight | Box |
|---|---|---|---|---|---|
| 150-001-396 | 2200GL-D | Key Alike | 4 - 6 | 75 g | 12 pcs |

Please contact us for this item with Master Key system.

# LAMP GLASS DOOR CAM LOCK 2100GL 2100 Lock Series

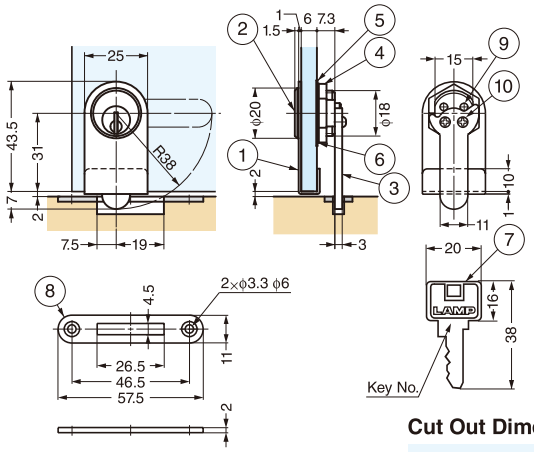
Latest Info



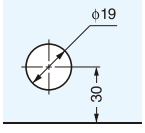
| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | 6 * | – | Key not removable | 2100 Lock Series |

*Max. 12 key changes (made to order)

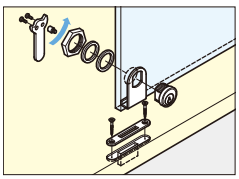
- Ideal for application of showcase or audio rack.
- Available for both right and left swing door.
- Key can be removed when locked.




## Cut Out Dimensions




## Installation



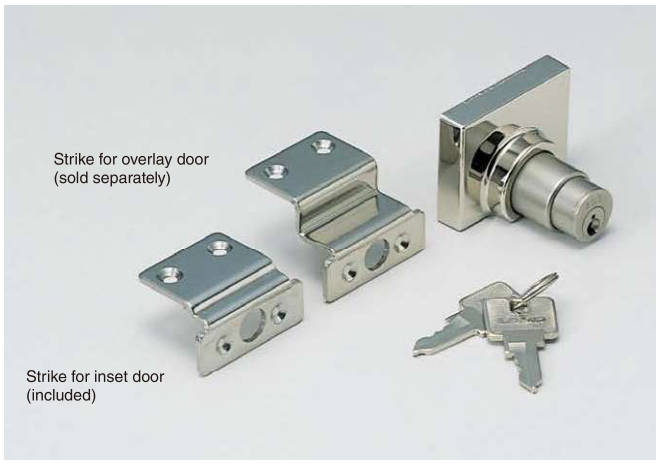
| No. | Part Name | Material | Finish/Colour/Type |
|---|---|---|---|
| ① | Front Plate | Stainless Steel (SUS304) | Polished |
| ② | Body | Brass | Satin Nickel |
| ③ | Cam | Steel | Nickel |
| ④ | Hex Nut | Brass | Nickel |
| ⑤ | Plastic Washer | Polyamide (PA) | Natural |
| ⑥ | Washer | Steel | Chrome |
| ⑦ | Key | Brass | Nickel |
| ⑧ | Strike | Steel | Chrome |
| ⑨ | Screw (Stopper for the Lock Plate) | Brass | Plain |
| ⑩ | Screw (for Installing the Lock Plate) | Steel | Nickel/Pan Head Screw M2.5×8 |

| Item Code | Item Name | Key Type | Glass Thickness | Weight | Box |
|---|---|---|---|---|---|
| 150-001-057 | 2100GL-B | Key Different | 4 - 6 | 75 g | 12 pcs |
| 150-001-058 | 2100GL-D | Key Alike | 4 - 6 | 75 g | 12 pcs |


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP GLASS DOOR LOCK MKL-2100-D 2100 Lock Series

Latest Info




| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Glass | 1 * | – | Key not removable | 2100 Lock Series |

*Only Key alike type. Key different type possible as special order (12 key changes).

- Pre-drilling on glass not required.
- For inset door.
  MKL-B mounting plate (option) is available for overlay.

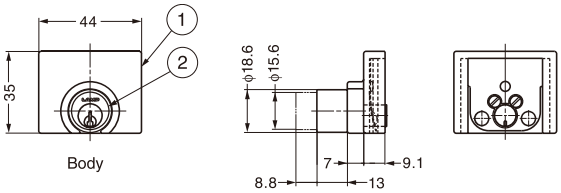
SCREW

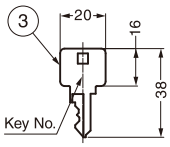
## Parts Included

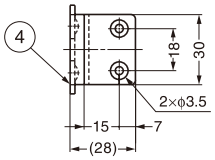
- Mounting plate for inset doors
- Flat head cross screws 3.1 × 1.6 (SUS)

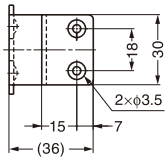
## Optional Parts

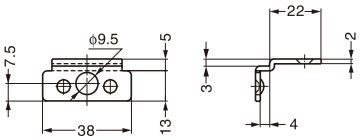
- Mounting plate for overlay door MKL-B



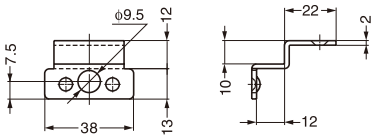



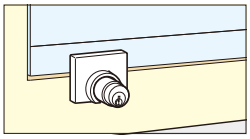



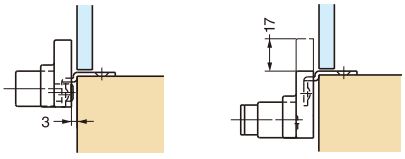

Strike for inset door (included)




Strike for overlay door (sold separately)

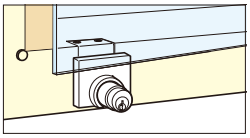
### Inset Door

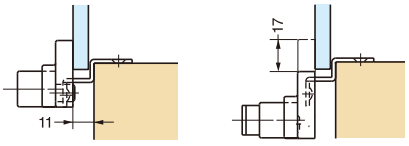





Locked Unlocked

### Overlay Door






Locked Unlocked

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Plate | Zinc Alloy (ZDC) | Nickel |
| ② | Push Lock | Zinc Alloy (ZDC) | Searchlight Chrome |
| ③ | Key | Brass | Nickel |
| ④ | Counter Plate for Inset Door | Stainless Steel (SUS304) | Polished |

## Body

| Item Code | Item Name | Key Type | Glass Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-001-411 | MKL-2100-D | Key Alike | 5 - 8 | 125 g | 12 pcs | 60 pcs |

## Counter Plate for Overlay Door (Optional Parts)

| Item Code | Item Name | Material | Finish | Box | Carton |
|---|---|---|---|---|---|
| 150-069-538 | MKL-B | Stainless Steel (SUS304) | Polished | 60 pcs | 360 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS

# LAMP GLASS DOOR CAM LOCK 2100GLK 2100 Lock Series

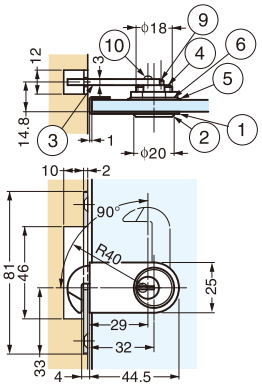
Latest Info

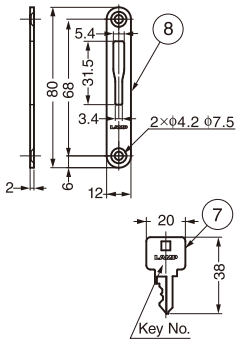


| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Sliding Door | Glass | 6 * | – | Key not removable | 2100 Lock Series |

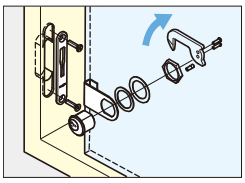
*Max. 12 key changes (made to order)

- For swinging glass doors. Ideal for showcase application.
- Available for both right and left swing door.
- The key is removable only when locked.

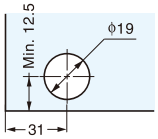



## Installation



## Cut Out Dimensions




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Front Plate | Stainless Steel (SUS304) | Satin |
| ② | Body | Brass | Satin Nickel |
| ③ | Cam | Steel | Nickel |
| ④ | Hex Nut | Brass | Nickel |
| ⑤ | Plastic Washer | Polyamide (PA) | Natural |
| ⑥ | Washer | Steel | Nickel |
| ⑦ | Key | Brass | Nickel |
| ⑧ | Strike | Steel | Nickel |
| ⑨ | Screw (Stopper for the Lock Plate) | Brass | Plain |
| ⑩ | Screw (for Installing the Lock Plate) | Steel | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Glass Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-001-147 | 2100GLK-D | Key Alike | ϕ20 | 4 - 6 | 75 g | 12 pcs | 120 pcs |

# LAMP PUSH LOCK 2150B, 2160B

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Metal-framede glass and sheet metal | 24 | – | Key removable | – |

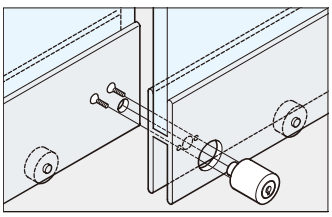
- For metal-framed glass doors and sheet metal double sliding doors.
- How to lock:
  2150B - push cylinder to lock.
  2160B - turn key to lock and unlock.

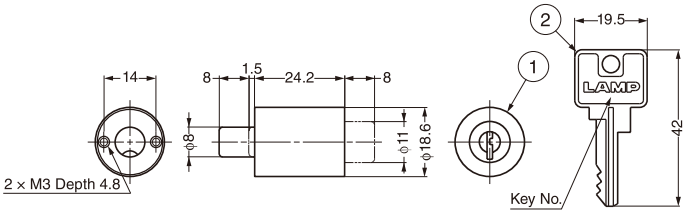
SCREW

### Parts Included

- Countersunk head screw M3 × 5

## Installation






| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Nickel |
| ② | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | How to Lock | Cylinder Diameter | Frame Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|
| 150-060-410 | 2150B-B | Key Different | Without Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |
| 150-001-388 | 2150B-D | Key Alike | Without Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |
| 150-060-069 | 2160B-B | Key Different | With Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |
| 150-001-384 | 2160B-D | Key Alike | With Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

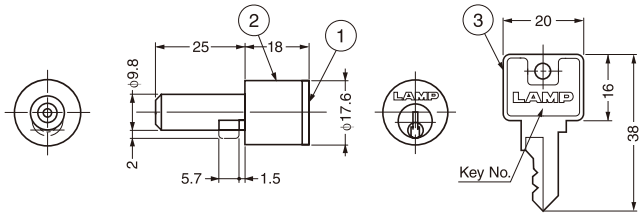
## LAMP GLASS DOOR LOCK 6300-D

Latest Info

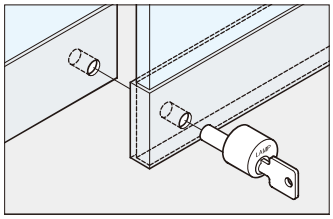


| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Metal-framede glass and sheet metal | Max. 96 | – | Key removable | – |

- For metal-framed glass doors or sheet metal double sliding doors.
- Easy installation. Just 10 mm bore required on the door.
- Remove cylinder along with key to unlock.




### Installation



| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ② | Cylinder Case | Brass | Nickel |
| ③ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Frame Thickness | Metal Sheet Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|
| 150-001-145 | 6300-D | Key Alike | ϕ9.8 | 19 | 1.2 | 50 g | 24 pcs | 240 pcs |

## LAMP PUSH LOCK 2100B 2100 Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Metal-framede glass and sheet metal | 6 * | – | Key removable | 2100 Lock Series |

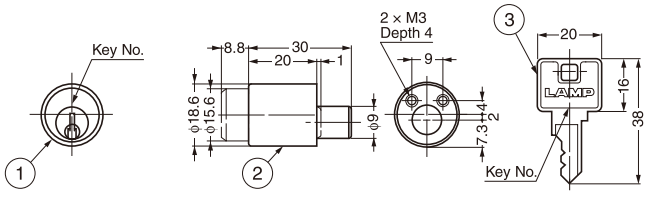
*Max. 12 key changes (made to order)

- For metal-framed glass doors or sheet metal double sliding doors.
- Push the cylinder to lock.
- Insert and turn key to unlock (60˚ rotation).

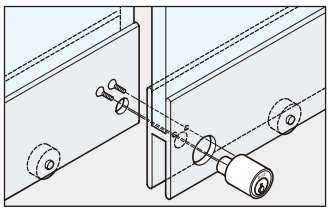
SCREW

**Parts Included**
- Countersunk head screw M3 × 5

Feature




### Installation



| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Nickel |
| ② | Cylinder Case | Brass | Nickel |
| ③ | Key | Brass | Nickel |
| - | Key Ring | Stainless Steel (SUS304) | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-001-070 | 2100B-B | Key Different | ϕ18.6 | 20 | 50 g | 40 pcs | 400 pcs |
| 150-001-071 | 2100B-D | Key Alike | ϕ18.6 | 20 | 50 g | 40 pcs | 400 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP PUSH LOCK 2110B 2100 Lock Series

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Metal-framede glass and sheet metal | 6 * | – | Key removable | 2100 Lock Series |

*Max. 12 key changes (made to order)

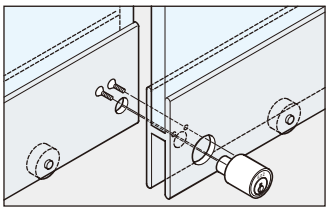
- For metal-framed glass doors or sheet metal double sliding doors.
- To Lock: Insert key and turn 60˚ clockwise. Push-in the cylinder with key and turn 60˚back.
- To Unlock: Insert key and turn 60˚ clockwise and lock will automatically disengage. Turn the key 60˚back and remove.

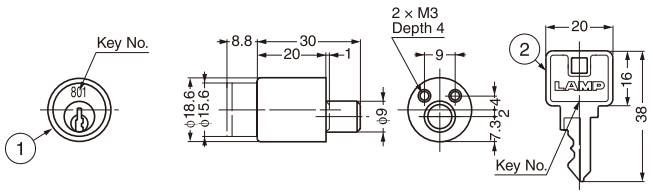
SCREW

**Parts Included**
- Countersunk head screw M3 × 5

Feature

## Installation






| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel (Core: Buffing Nickel Coating) |
| ② | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-001-072 | 2110B-B | Key Different | ϕ18.6 | 20 | 50 g | 40 pcs | 400 pcs |
| 150-001-073 | 2110B-D | Key Alike | ϕ18.6 | 20 | 50 g | 40 pcs | 400 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET RIM LOCK 8810 Easy Key Number Change

Latest Info


8810-24

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door*1 | Wood | Max. 3 million | –*2 | Key removable | Super Rim Lock Series |

*1 A version for drawers is available upon request (made to order)
*2 Max. 300 changes per master key (made to order)

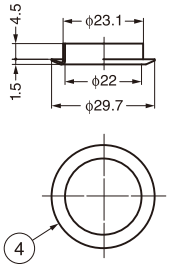
- Brass cylinder lock with stainless steel body.
- Construction Key System - Key number is changeable without replacing cylinder. (Key number can be changed twice.)
- Reversible key can be removed when locked and unlocked. (360˚ rotation)

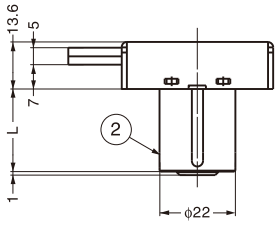
INSTRUCTION | SCREW

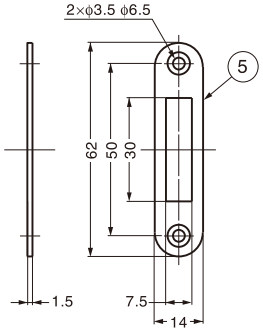
## Remarks
- Previous key and key number cannot be used again after changing key number.

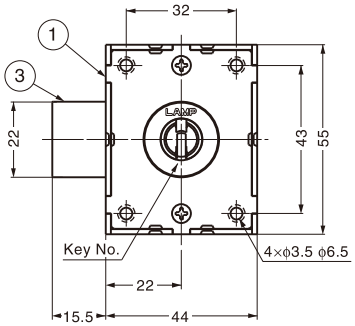
## Parts Included
- Countersunk head wood screw 3.1 × 25 (for body)
- Countersunk head wood screw 3.1 × 13 (for strike)

## Optional Parts
- Master Key (made to order)
- Spacer 6810-SP (P.1256)



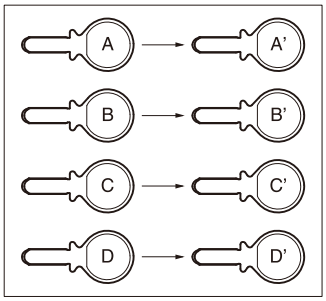



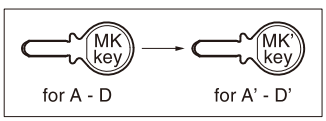

## How to Change Key
- Each lock includes keys for the original key number only.
- To change the lock's key number insert the new key and rotate 360˚.
- After changing the lock's key number, the previous used key cannot open the lock.
- 1st and 2nd change keys are sold separately.

## Combined Usage with Key and Master Key
- Changing the master keys for each key number is possible.
- Master keys must be also changed after the lock's key number is changed.
- In case only some of the locks' key numbers in Master Key system are changed, master keys for that portion should still be kept.

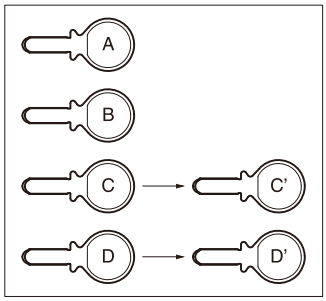
When all keys are changed...



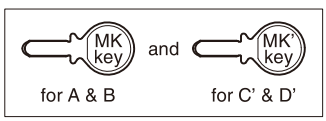

Master Key also needs to be changed.



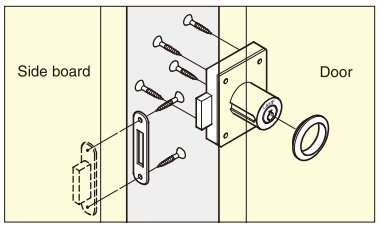

When some keys are changed...

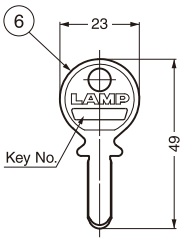



Both the current Master Key and the new Master Key should be kept.




## Installation




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | Stainless Steel (SUS304) | Satin |
| ② | Cylinder | Brass | Nickel |
| ③ | Dead Bolt | Stainless Steel (SUS304) | - |
| ④ | Ring | Brass | Satin Nickel |
| ⑤ | Strike | Stainless Steel (SUS304) | Satin |
| ⑥ | Key | Nickel Silver | Polished |

| Item Code | Item Name | Key Type | Master Key System | Cylinder Diameter | Door Thickness | L | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|
| 150-022-338 | 8810-24MK-B | Key Different | With | ϕ22 | 22 - 24 | 24 | 190 g | 12 pcs | 60 pcs |
| 150-022-337 | 8810-24-B | Key Different | Without | ϕ22 | 22 - 24 | 24 | 190 g | 12 pcs | 60 pcs |
| 150-001-221 | 8810-24-D | Key Alike | Without | ϕ22 | 22 - 24 | 24 | 190 g | 12 pcs | 60 pcs |
| 150-029-317 | 8810-36MK-B | Key Different | With | ϕ22 | 34 - 36 | 36 | 220 g | 12 pcs | 60 pcs |
| 150-029-316 | 8810-36-B | Key Different | Without | ϕ22 | 34 - 36 | 36 | 220 g | 12 pcs | 60 pcs |
| 150-001-241 | 8810-36-D | Key Alike | Without | ϕ22 | 34 - 36 | 36 | 220 g | 12 pcs | 60 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 7810 Million Lock Series

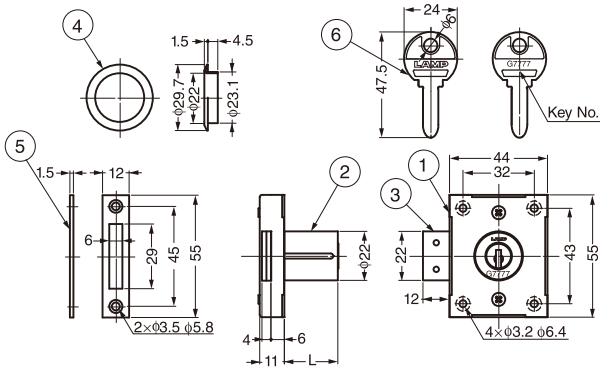
Latest Info








Dimpled key design.




| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door (for right-handed door) | Wood | Max. 1 million | –* | Key removable | Million Lock Series |
| | | | Max. 2,520 key changes | Key not removable | |

*Max. 2,520 changes per master key (made to order)

- For right-handed doors.
- High-security.
  Reversible key. Turn the key 360° to lock or unlock.
- Available in Satin Nickel (NI), Chrome (CR), Black Chrome (BL), White (WT).
- Brass cylinder lock with stainless steel body.

SCREW

Feature

## Parts Included

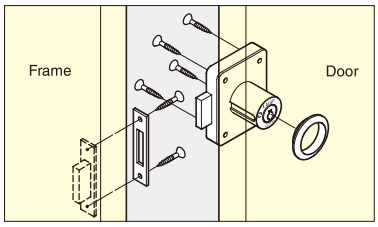
- Countersunk head wood screw 2.7 × 1.3, 3.1 × 22 (SUS)

## Optional Parts

- Spacer 6810-SP (P.1256)



## Installation




| No. | Part Name | Material | Finish | | |
|---|---|---|---|---|---|
| | | | NI | CR | BL |
| ① | Body | Stainless Steel (SUS304) | Satin | Satin | Satin |
| ② | Cylinder | Brass | Satin Nickel | Chrome | Black Chrome |
| ③ | Dead Bolt | Stainless Steel (SUS304) | Plain | Plain | Plain |
| ④ | Ring | Brass | Satin Nickel | Chrome | Black Chrome |
| ⑤ | Strike | Stainless Steel (SUS304) | Satin | Satin | Black Chrome |
| ⑥ | Key | Brass | Nickel | Nickel | Nickel |

## Removable Key when Unlocked (Without Master Key System)

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Finish | L | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|
| 150-017-504 | 7810-24NI-B | Key Different | ϕ22 | 22 - 24 | Satin Nickel | 24 | 190 g | 12 pcs | 60 pcs |
| 150-001-207 | 7810-24NI-D | Key Alike | ϕ22 | 22 - 24 | Satin Nickel | 24 | 190 g | 12 pcs | 60 pcs |
| 150-017-667 | 7810-24CR-B | Key Different | ϕ22 | 22 - 24 | Chrome | 24 | 190 g | 12 pcs | 60 pcs |
| 150-001-210 | 7810-24CR-D | Key Alike | ϕ22 | 22 - 24 | Chrome | 24 | 190 g | 12 pcs | 60 pcs |
| 150-028-531 | 7810-24BL-B | Key Different | ϕ22 | 22 - 24 | Black Chrome | 24 | 190 g | 12 pcs | 60 pcs |
| 150-001-246 | 7810-24BL-D | Key Alike | ϕ22 | 22 - 24 | Black Chrome | 24 | 190 g | 12 pcs | 60 pcs |
| 150-036-141 | 7810-24WT-B | Key Different | ϕ22 | 22 - 24 | Painted/White | 24 | 190 g | 12 pcs | 60 pcs |
| 150-001-310 | 7810-24WT-D | Key Alike | ϕ22 | 22 - 24 | Painted/White | 24 | 190 g | 12 pcs | 60 pcs |
| 150-017-513 | 7810-30NI-B | Key Different | ϕ22 | 28 - 30 | Satin Nickel | 30 | 210 g | 12 pcs | 60 pcs |
| 150-001-208 | 7810-30NI-D | Key Alike | ϕ22 | 28 - 30 | Satin Nickel | 30 | 210 g | 12 pcs | 60 pcs |
| 150-017-673 | 7810-30CR-B | Key Different | ϕ22 | 28 - 30 | Chrome | 30 | 210 g | 12 pcs | 60 pcs |
| 150-001-213 | 7810-30CR-D | Key Alike | ϕ22 | 28 - 30 | Chrome | 30 | 210 g | 12 pcs | 60 pcs |
| 150-028-533 | 7810-30BL-B | Key Different | ϕ22 | 28 - 30 | Black Chrome | 30 | 210 g | 12 pcs | 60 pcs |
| 150-001-247 | 7810-30BL-D | Key Alike | ϕ22 | 28 - 30 | Black Chrome | 30 | 210 g | 12 pcs | 60 pcs |
| 150-036-145 | 7810-30WT-B | Key Different | ϕ22 | 28 - 30 | Painted/White | 30 | 210 g | 12 pcs | 60 pcs |
| 150-001-311 | 7810-30WT-D | Key Alike | ϕ22 | 28 - 30 | Painted/White | 30 | 210 g | 12 pcs | 60 pcs |
| 150-017-520 | 7810-36NI-B | Key Different | ϕ22 | 34 - 36 | Satin Nickel | 36 | 225 g | 12 pcs | 60 pcs |
| 150-001-209 | 7810-36NI-D | Key Alike | ϕ22 | 34 - 36 | Satin Nickel | 36 | 225 g | 12 pcs | 60 pcs |
| 150-017-678 | 7810-36CR-B | Key Different | ϕ22 | 34 - 36 | Chrome | 36 | 225 g | 12 pcs | 60 pcs |
| 150-001-212 | 7810-36CR-D | Key Alike | ϕ22 | 34 - 36 | Chrome | 36 | 225 g | 12 pcs | 60 pcs |
| 150-035-833 | 7810-36BL-B | Key Different | ϕ22 | 34 - 36 | Black Chrome | 36 | 225 g | 12 pcs | 60 pcs |
| 150-001-309 | 7810-36BL-D | Key Alike | ϕ22 | 34 - 36 | Black Chrome | 36 | 225 g | 12 pcs | 60 pcs |

Please contact us for the removable key when unlocked with Master Key system.

## Non-removable Key when Unlocked (With Master Key System)

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Finish | L | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|
| 150-024-595 | 7810-24NI-MK-R-B | Key Different | ϕ22 | 22 - 24 | Satin Nickel | 24 | 190 g | 12 pcs | 60 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP MILLION LOCK CABINET LOCK 7810W FOR DOUBLE SWING DOOR / DRAWER INTERLOCKING TYPE

Latest Info




| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Swing Door and Drawer | Wood | Max. 1 million | –* | Key removable | Million Lock Series |

*Max. 2,520 changes per master key (made to order)

- With 2 dead bolts, suitable for double swing doors and drawers, etc.
- Can lock upper and lower drawers by using one lock.
- Reversible key. Turn the key 360° to lock or unlock.
- Body and dead bolt are made of stainless steel (SUS304) with excellent rust resistance.

SCREW

## Remarks

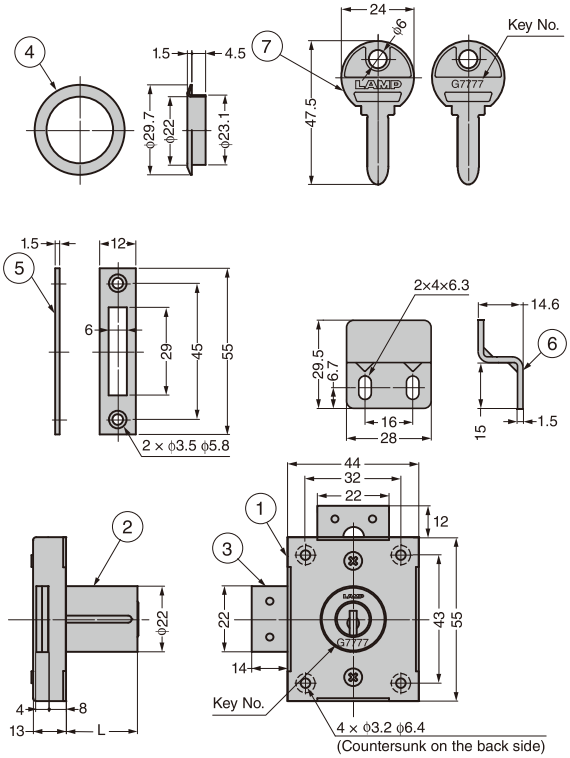
- For key numbers and their combination, please consult our sales representative.
- Be sure to read the "Cautions".

## Parts Included

- Countersunk head wood screw 2.7 × 13, 3.1 × 22 (SUS)

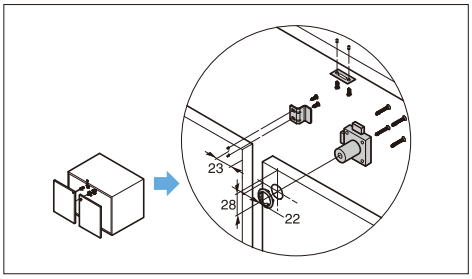
## Sold Separately

- Spacer 6810-SP

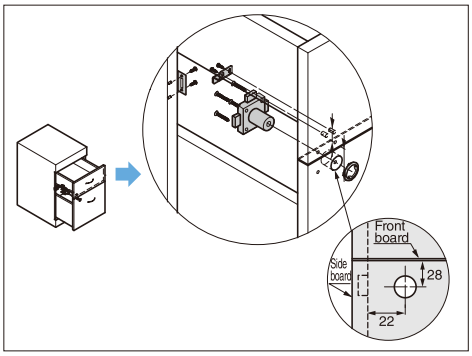



| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Stainless Steel (SUS304) | Satin |
| ② | Cylinder | Brass | Dull Nickel, Chrome |
| ③ | Dead Bolt | Stainless Steel (SUS304) | Plain |
| ④ | Ring | Brass | Dull Nickel, Chrome |
| ⑤ | Strike A | Stainless Steel (SUS304) | Satin |
| ⑥ | Strike B | | |
| ⑦ | Key | Brass | Nickel |

## Installation on Double Swing Door




## Installation on Drawer




## Body

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness (mm) | Finish | L | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|
| 150-034-439 | 7810W-24NI-B | Key Different | 22 | 22 - 24 | Dull Nickel | 24 | 170 | 12 | 60 |
| 150-001-259 | 7810W-24NI-D | Key Alike | | | | | | 12 | 60 |
| 150-034-441 | 7810W-24CR-B | Key Different | | | Chrome | | | 12 | 60 |
| 150-001-260 | 7810W-24CR-D | Key Alike | | | | | | 12 | 60 |
| 150-034-443 | 7810W-30NI-B | Key Different | | 28 - 30 | Dull Nickel | 30 | 180 | 12 | 60 |
| 150-001-261 | 7810W-30NI-D | Key Alike | | | | | | 12 | 60 |
| 150-034-445 | 7810W-30CR-B | Key Different | | | Chrome | | | 12 | 60 |
| 150-001-262 | 7810W-30CR-D | Key Alike | | | | | | 12 | 60 |
| 150-034-447 | 7810W-36NI-B | Key Different | | 34 - 36 | Dull Nickel | 36 | 195 | 12 | 60 |
| 150-001-263 | 7810W-36NI-D | Key Alike | | | | | | 12 | 60 |
| 150-034-449 | 7810W-36CR-B | Key Different | | | Chrome | | | 12 | 60 |
| 150-001-264 | 7810W-36CR-D | Key Alike | | | | | | 12 | 60 |

## Spacer

| Item Code | Item Name | Thickness |
|---|---|---|
| 150-060-206 | 6810-SP | 2 |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 7810K Million Lock Series

Latest Info





7810K-24-SNI-L　　7810K-24-CR-L

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Sliding Door and Single Swing Door | Wood | Max. 1 million | –* | Key removable | Million Lock Series |

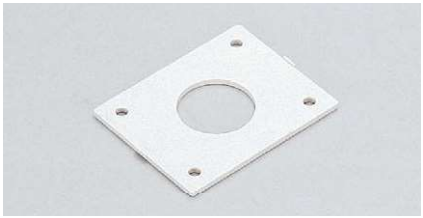
*Max. 2,520 changes per master key (made to order)

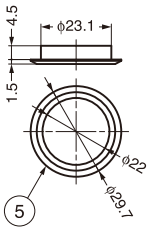
- Can be used in single sliding door and single swing door.
- Reversible key.
- Turn the key 360˚ to lock or unlock.
- Special dead bolt for high security.
- Cylinders and rings are also available with a polished clear coating finish upon request.

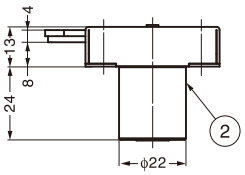
SCREW

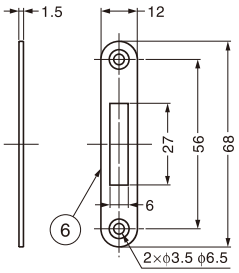
### Parts Included
- Countersunk head wood screw3.1×22, 2.7×13 (SUS)

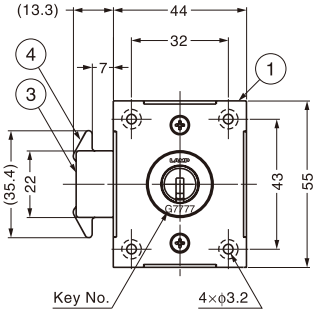
### Optional Parts
- Spacer 6810-SP (P.1256)

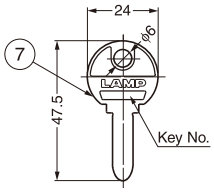


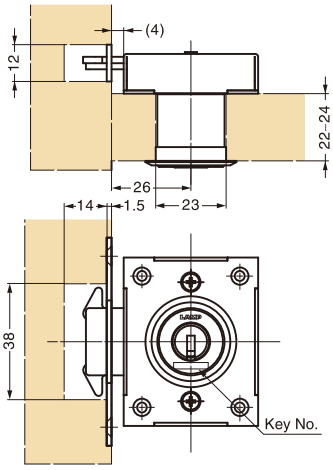


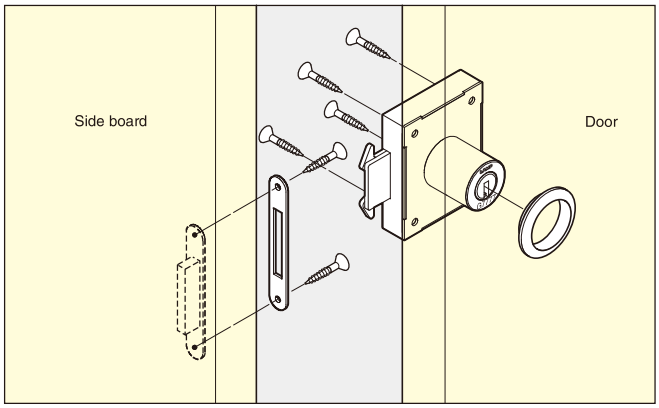




### Installation




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Stainless Steel (SUS304) | Satin |
| ② | Cylinder | Brass | Satin Nickel, Chrome |
| ③ | Dead Bolt | Stainless Steel (SUS304) | Plain |
| ④ | Latch | Stainless Steel (SUS304) | Polished |
| ⑤ | Ring | Brass | Satin Nickel, Chrome |
| ⑥ | Strike | Stainless Steel (SUS304) | Satin |
| ⑦ | Key | Brass | Nickel |

### Spacer

| Item Code | Item Name | Thickness |
|---|---|---|
| 150-060-206 | 6810-SP | 2 |

### Body

| Item Code | Item Name | Style | Cylinder Finish | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|
| 150-028-732 | 7810K-24-SNI-L-B | For right-handed door | Satin Nickel | Key Different | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |
| 150-001-242 | 7810K-24-SNI-L-D | For right-handed door | Satin Nickel | Key Alike | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |
| 150-028-734 | 7810K-24-CR-L-B | For right-handed door | Chrome | Key Different | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |
| 150-001-243 | 7810K-24-CR-L-D | For right-handed door | Chrome | Key Alike | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |
| 150-028-936 | 7810K-24-SNI-R-B | For left-handed door | Satin Nickel | Key Different | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |
| 150-001-244 | 7810K-24-SNI-R-D | For left-handed door | Satin Nickel | Key Alike | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |
| 150-028-938 | 7810K-24-CR-R-B | For left-handed door | Chrome | Key Different | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |
| 150-001-245 | 7810K-24-CR-R-D | For left-handed door | Chrome | Key Alike | ϕ22 | 22 - 24 | 160 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 7910 Million Lock series NEW

Latest Info




| Applications | Door Material | Key Changes | Master Key | When unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door*1 | Wood | Max. 1 million | – *2 | Key removable | Million Lock Series |

*1 Deadbolt downward
*2 Up to 2,520 key changes/1 master available as special order

- A cylinder lock with the same finish as the Glass Door Lock GS-GL20 (P.1222).

SCREW

## Other
- The key is a reversible type.

## Parts Included
- Cross-recessed countersunk screws 2.7×13 and 3.1×22 (stainless steel)
- Key (3 pcs)
- Ring
- Retainer

## Remarks
- Scratches on the black type may become conspicuous. Please handle with care.

## Reversible Key



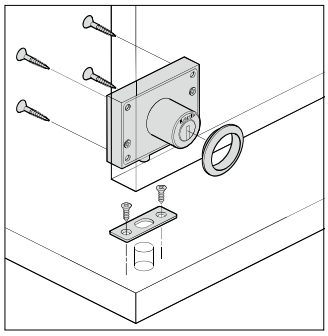
Comes with dimple key.

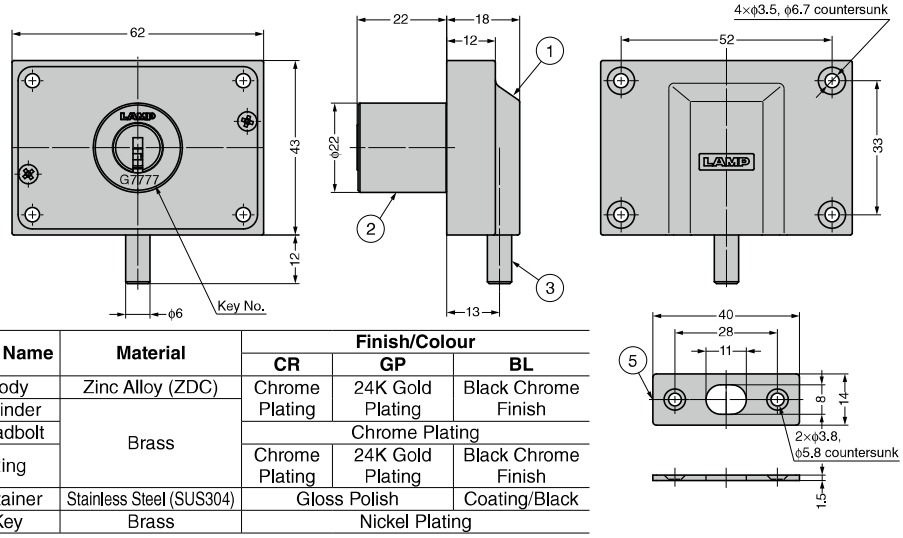
## Round Dead Bolt



Required processing for boards is drilling only.

## Installation

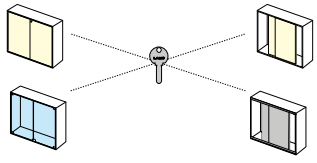





| No. | Part Name | Material | Finish/Colour | | |
|---|---|---|---|---|---|
| | | | CR | GP | BL |
| ① | Body | Zinc Alloy (ZDC) | Chrome Plating | 24K Gold Plating | Black Chrome Finish |
| ② | Cylinder | Brass | Chrome Plating | | |
| ③ | Deadbolt | | Chrome Plating | | |
| ④ | Ring | | Chrome Plating | 24K Gold Plating | Black Chrome Finish |
| ⑤ | Retainer | Stainless Steel (SUS304) | Gloss Polish | | Coating/Black |
| ⑥ | Key | Brass | Nickel Plating | | |

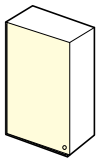
| Item Code | Item Name | Key Type | Cylinder Dia. | Door Thickness | Finish/Colour | Key Removal | Key Rotation Angle | Weight g | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|
| 150-047-117 | 7910-20CR-B | Key Different | 22 | 18 - 20 | Chrome Plating | 2 positions | 360° | 210 | 12 | 60 |
| 150-001-175 | 7910-20CR-D | Key Alike | | | | | | | 12 | 60 |
| 150-047-118 | 7910-20GP-B | Key Different | | | 24K Gold Plating | | | | 12 | 60 |
| 150-001-176 | 7910-20GP-D | Key Alike | | | | | | | 12 | 60 |
| 150-047-119 | 7910-20BL-B | Key Different | | | Black Chrome | | | | 12 | 60 |
| 150-001-177 | 7910-20BL-D | Key Alike | | | | | | | 12 | 60 |

## Multiple cabinets can be locked and unlocked with the same key.



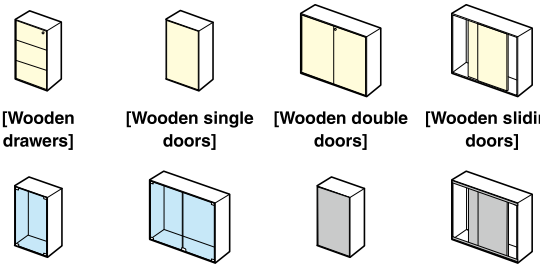
As shown in the figure, the same key can be used to lock and unlock multiple cabinets in the Million Lock Series if the same key number is specified.

## ■ Supported Doors



[Wooden single doors]

## ■ Doors Supported by Other Million Lock Series Locks



[Wooden drawers] [Wooden single doors] [Wooden double doors] [Wooden sliding doors]

[Glass single doors] [Glass double doors] [Sheet metal single doors] [Sheet metal sliding doors]

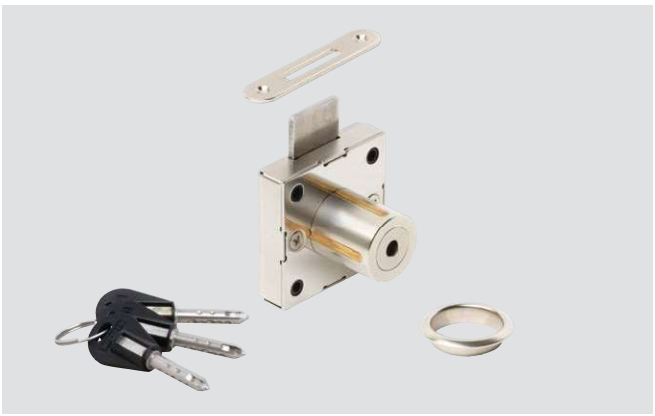


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK WITH SHAFT KEY 7110

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer / Single Swing Door | Wood | 500,000 | Available* | Key removable | – |

*Maximum 300 changes per master key

- The shaft key can be inserted at any angle.
  The round keyhole allows for use on both drawers and swing doors.
- Dimple key design makes it difficult to duplicate the keys or pick the lock.
  More effective in preventing break-ins than many other types of keys.

SCREW

Feature

## Remarks

- Read the remarks on handling the lock before use.

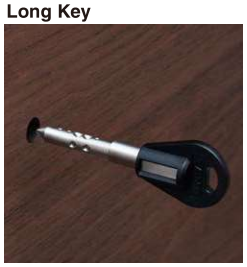
## Parts Included

- Key (3pcs)
- Strike
- Ring
- Countersunk head wood screw 3.1 × 25 (SUS)
- Countersunk head wood screw 2.1 × 10 (SUS)

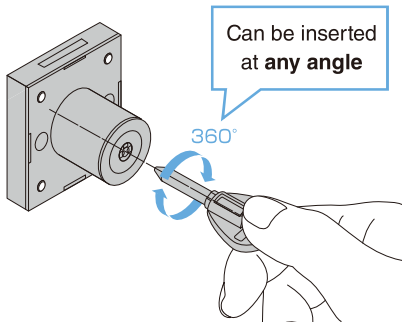
**Included Key**



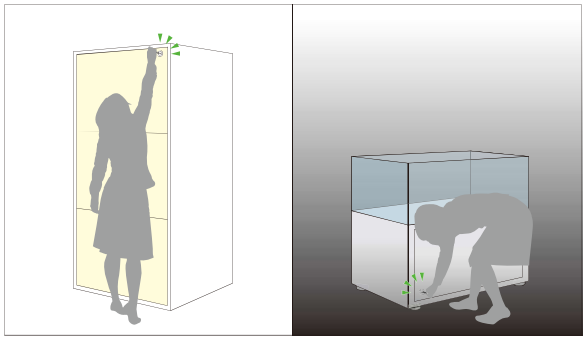
**Long Key**



The cylinder will be invisible.

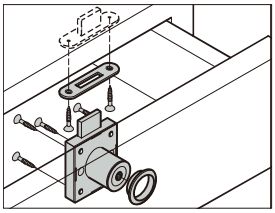



## For applications where keyholes are hard to see

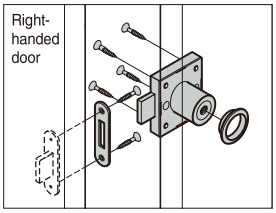


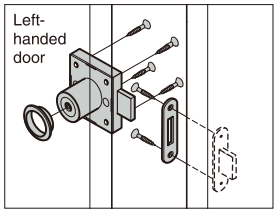
Easy to insert keys even when keyholes are high or low, or in dark places.

## Installation on Drawer

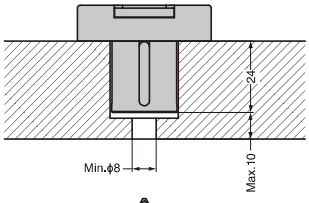


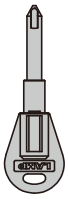
## Installation on Single Swing Door

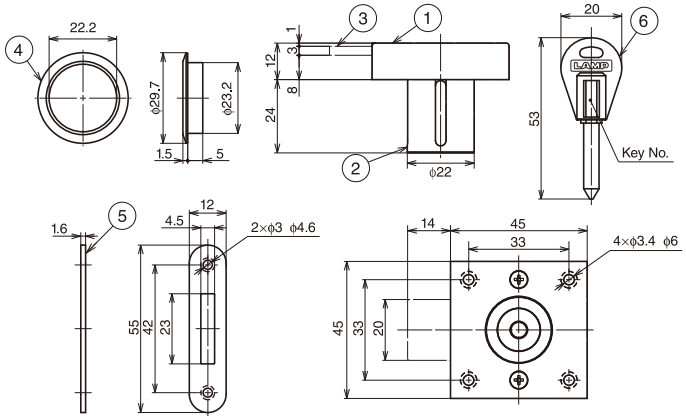



## When Using a Long Key






| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Stainless Steel (SUS304) | Plain |
| ② | Cylinder | Brass | Nickel |
| ③ | Dead Bolt | Stainless Steel (SUS304) | Plain |
| ④ | Ring | Brass | Nickel |
| ⑤ | Strike | Steel (SPCC) | Nickel |
| ⑥ | Key | Stainless Steel (SUS303/) Polyacetal (POM) | Plain |

## [Long Key] Sold Separately

| Item Code | Item Name | Key Type |
|---|---|---|
| 150-001-075 | 7110SPK-L10 | Key Alike |

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-044-383 | 7110-24-DN-B | Key Different | 22 | 22-24 | 160 g | 12 pcs | 60 pcs |
| 150-001-059 | 7110-24-DN-D | Key Alike | | | | 12 pcs | 60 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 6830-30MK

Latest Info




| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer and Sliding Door | Wood | Max. 7,800 | Max. 750 key changes | Key removable | Interchangeable Cylinder Lock Series |

- Interchangeable cylinder lock series with Master Key system.
- Easy to replace the cylinder by using the Change Key MD-K1.
- Reversible key can be removed when locked and unlocked (180˚rotation).
- Keys can be shared with 1330GL-MK (P.1231) and 1830-MK (P.1260).

SCREW

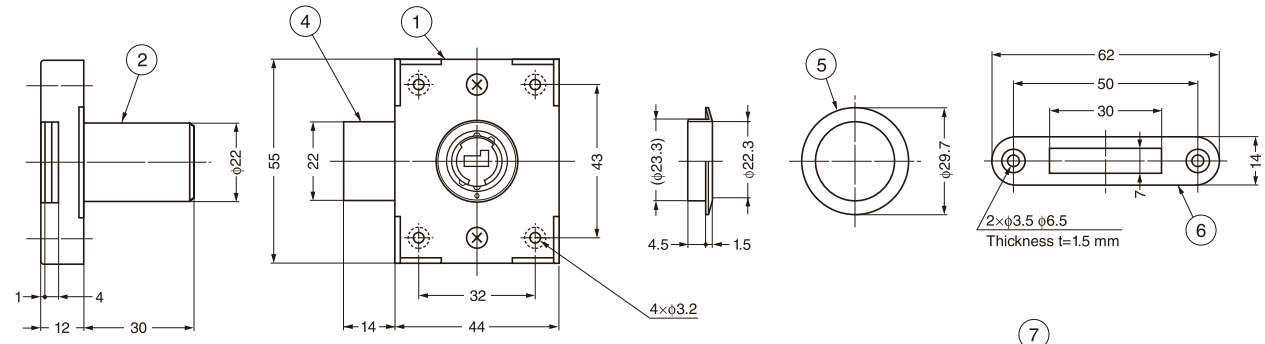
## Remarks
- Cylinder can be changed by using Change Key MD-K1.

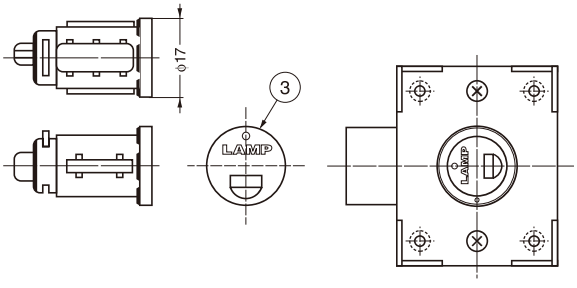
## Sold Separately
- Cylinder MD-N1 (P.1257)

## Parts Included
- Countersunk head wood screw 2.7 × 13, 3.1 × 22 mm (SUS)

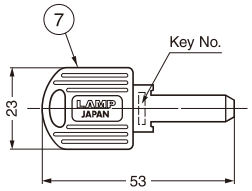
## Optional Parts
- Master Key MD-MK1 (P.1257)
- Change Key MD-K1 (P.1257)
- Spacer 6810-SP (P.1256)

SELECTION GUIDE
GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS




Installation of MD-N1 (Sold separately)




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | Stainless Steel (SUS304) | Satin |
| ② | Housing | Zinc Alloy (ZDC) | GA: Gold, Paint/Clear<br>DN: Satin Nickel |
| ③ | Cylinder (Sold Separately) | Stainless Steel (SUS304)/ Zinc Alloy (ZDC) | Polished, Yellow Zinc Chromate |
| ④ | Dead Bolt | Stainless Steel (SUS304) | – |
| ⑤ | Ring | Brass | GA: Gold, Paint/Clear<br>DN: Satin Nickel |
| ⑥ | Strike | Stainless Steel (SUS304) | Satin |
| ⑦ | Key (Sold Separately) | Brass/ABS | Nickel/Black |

| Item Code | Item Name | Finish | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-196 | 6830-30MKGA | Gold, Paint/Clear | φ22 | 30 | 180 g | 12 pcs | 60 pcs |
| 150-060-193 | 6830-30MKDN | Satin Nickel | φ22 | 30 | 180 g | 12 pcs | 60 pcs |

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 5830

Latest Info


5830-30MK

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer and Single Swing Door | Wood | Max. 3,120 | Max. 780 key changes | Key removable | – |

- Interchangeable cylinder lock with Master Key system.
- Easy to replace cylinder by using Change Key 5830-K1 (below).
- Reversible key can be removed when locked and unlocked (180˚rotation).

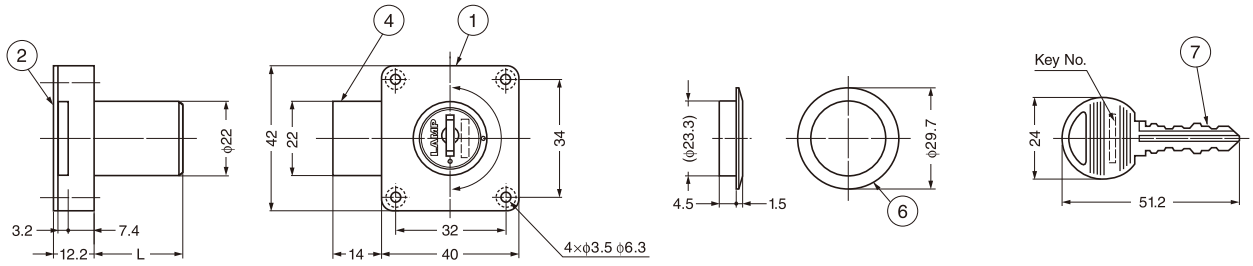
SCREW

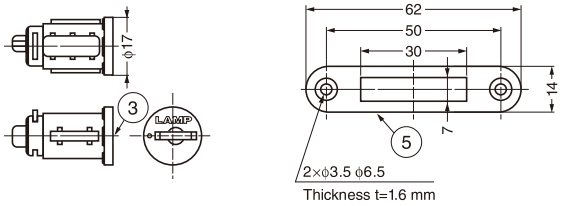
### Remarks
- Replaceable cylinder (5830-N1) is made to order.

### Parts Included
- Countersunk head wood screw 3.1 × 13, 3.1× 22 (SUS)

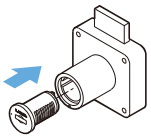
### Optional Parts
- Master Key 5830-MK1
- Change Key 5830-K1
- Spacer 5830-SP

SELECTION GUIDE
GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS

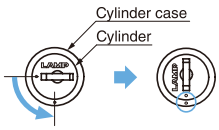



### Installation



### How to Remove




Insert the Change Key and turn the cylinder 90˚ counter clockwise.

Place two dots in the same position and remove the cylinder.

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ② | Case Cover | Steel | Nickel |
| ③ | Cylinder (Inner) | Zinc Alloy (ZDC) | Satin Nickel |
| ④ | Dead Bolt | Steel | Nickel |
| ⑤ | Strike | Steel | Nickel |
| ⑥ | Ring | Brass | Satin Nickel |
| ⑦ | Key | Brass | Nickel |

### Body

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness L | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-001-006 | 5830-24MK-B | Key Different | ϕ22 | 24 | 155 g | 12 pcs | 60 pcs |
| 150-001-382 | 5830-24MK-D | Key Alike | ϕ22 | 24 | 155 g | 12 pcs | 60 pcs |
| 150-001-007 | 5830-30MK-B | Key Different | ϕ22 | 30 | 202 g | 12 pcs | 60 pcs |
| 150-001-381 | 5830-30MK-D | Key Alike | ϕ22 | 30 | 202 g | 12 pcs | 60 pcs |

### Master Key (Optional Parts)

| Item Code | Item Name |
|---|---|
| 150-001-009 | 5830-MK1 |

### Change Key (Optional Parts)

| Item Code | Item Name |
|---|---|
| 150-001-008 | 5830-K1 |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK WITH INDICATOR 2200QL 2200 Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer | Wood | 300 | –* | Key removable | 2200 Lock Series |

*Max. 170 changes per master key (made to order)

- For drawer and cabinet door application.
- Only 45˚rotation is needed to unlock/lock the door.
- Key automatically returns to original position.
- With indicator: Unlocked - Blue, Locked - Red.

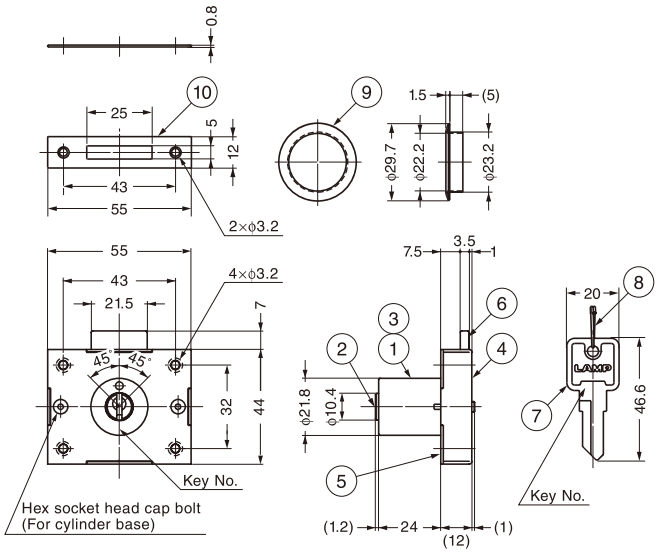
SCREW

Feature

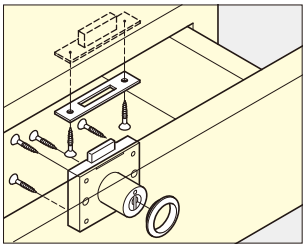
## Parts Included
- Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

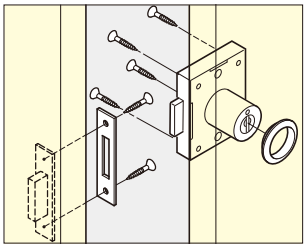
## Optional Parts
- Spacer 6810-SP (P.1256)





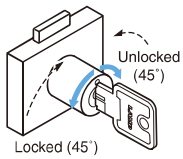

## Installation





(This application is available at surcharge.)

## Lock/Unlock




Key automatically returns to original position.

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder (Outer) | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ② | Cylinder (Inner) | Zinc Alloy (ZDC) | Satin Nickel |
| ③ | Body Pipe | Brass | Satin Nickel |
| ④ | Body | Stainless Steel (SUS304) | Plain |
| ⑤ | Cylinder Base | Stainless Steel (SUS304) | Plain |
| ⑥ | Dead Bolt | Zinc Alloy (ZDC) | Nickel |
| ⑦ | Key | Brass | Nickel |
| ⑧ | Key Ring | Stainless Steel (SUS304) | Plain |
| ⑨ | Surface Ring | Brass | Satin Nickel |
| ⑩ | Strike | Stainless Steel (SUS304) | Plain |

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-012-927 | 2200QL-24-B | Key Different | ϕ21.8 | 24 | 200 g | 12 pcs | 60 pcs |
| 150-001-371 | 2200QL-24-D | Key Alike | ϕ21.8 | 24 | 200 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 2550

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer and Single Swing Door | Wood | 300 | 80 key changes | Key removable | – |

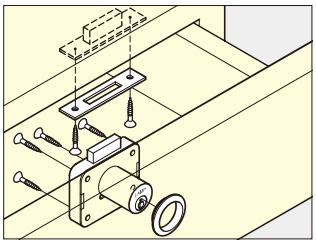
- For drawers and cabinet door application.
- Keys can be shared with the previous 2520 model.
- Gold finish is available at surcharge.

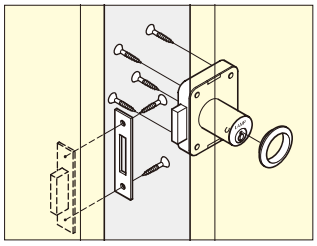
SCREW

### Parts Included
- Countersunk head wood screw 3.1 × 20, 2.1 × 10

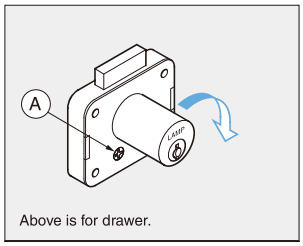
### Optional Parts
- Master Key 2550MK
- Spacer 2550-SP (below)

### Installation

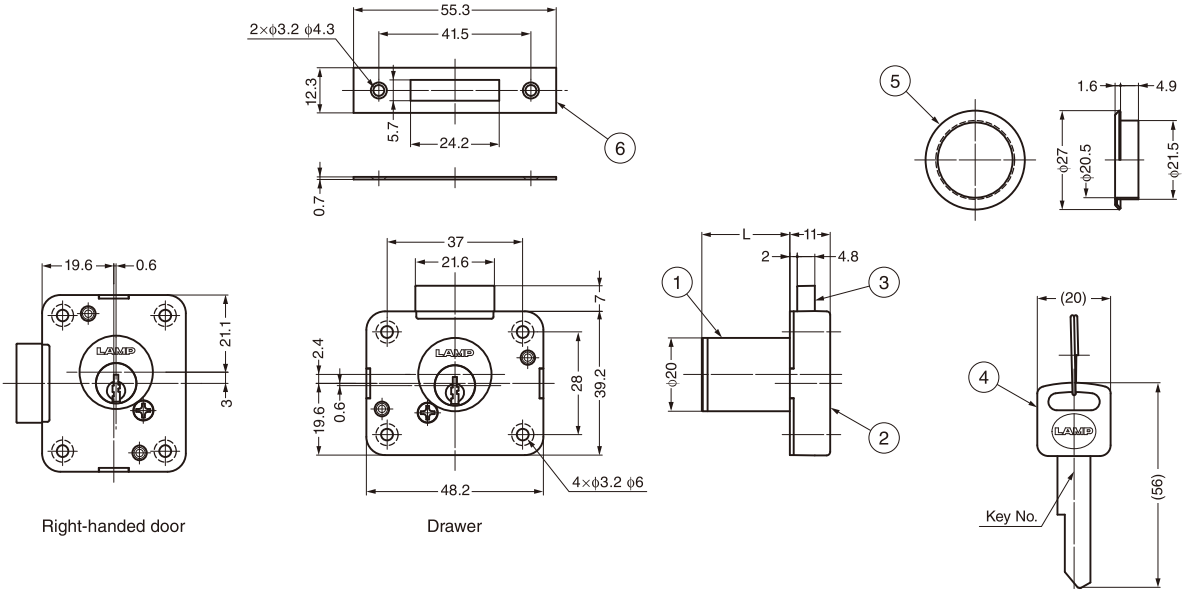




### How to Switch: for Drawer/Right-handed Door Application




① Remove the screw Ⓐ.
② Turn the lock cylinder 90°(clockwise for door application).
③ Fix the screw.
④ The logo "LAMP" is to be forwarded upside.




Right-handed door

Drawer

### Body

| Item Code | Item Name | Key Type | Master Key System | Cylinder Diameter | Door Thickness | L | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|
| 150-001-216 | 2550-24-DN-MK-B | Key Different | With | ϕ20 | 24 | 24 | 140 g | 12 pcs | 120 pcs |
| 150-022-051 | 2550-24-DN-B | Key Different | Without | ϕ20 | 24 | 24 | 140 g | 12 pcs | 120 pcs |
| 150-001-214 | 2550-24-DN-D | Key Alike | Without | ϕ20 | 24 | 24 | 140 g | 12 pcs | 120 pcs |
| 150-001-217 | 2550-36-DN-MK-B | Key Different | With | ϕ20 | 36 | 36 | 170 g | 12 pcs | 120 pcs |
| 150-022-054 | 2550-36-DN-B | Key Different | Without | ϕ20 | 36 | 36 | 170 g | 12 pcs | 120 pcs |
| 150-001-215 | 2550-36-DN-D | Key Alike | Without | ϕ20 | 36 | 36 | 170 g | 12 pcs | 120 pcs |

### Master Key (Sold Separately)

| Item Code | Item Name |
|---|---|
| 150-001-025 | 2550MK |

### Spacer (Sold Separately)

| Item Code | Item Name | Material | Colour | Thickness |
|---|---|---|---|---|
| 150-029-319 | 2550-SP | Polyamide (PA) | White | 2 |

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder | Brass | Nickel |
| ② | Body | Zinc Alloy (ZDC) | Nickel |
| ③ | Dead Bolt | Zinc Alloy (ZDC) | Nickel |
| ④ | Key | Brass/Resin | Nickel/Black |
| ⑤ | Ring | Brass | Nickel |
| ⑥ | Strike | Brass | Nickel |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 3350 Total Lock 3310 series NEW

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer<br>Single Swing Door (right-handed) | Wood | 156 | - | Key removable | 3310 Series |

- Rotate and position the cylinder for either drawer or right-handed door use.
- The lock is surface-mountable making it suitable for overlay doors.
- An updated version of the 3310 model. Keys can be shared within the 3310 series with the same key number.
- A new black colour option for the 24mm type is now available.

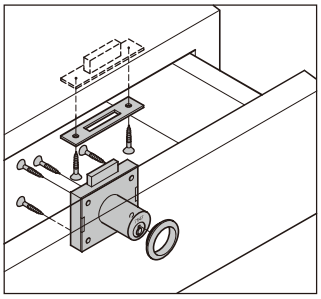
SCREW

## Other
- Gold finishing is also available on request.

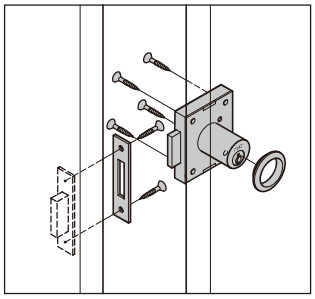
## Parts Included
- Cross-recessed countersunk screws 3.1 x 20, 2.1 x 10 (stainless steel)
- Key
- Ring
- Strike plate

## Remarks
- Do not rotate the cylinder more than necessary when switching drawer/door applications. This may cause damage. Unlike the 3310 model, it cannot rotate without removing the Ⓐ screw shown in the drawing.

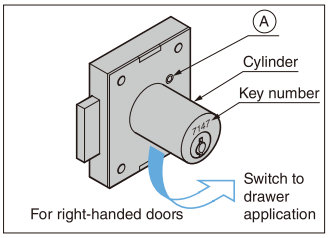
## For Drawers



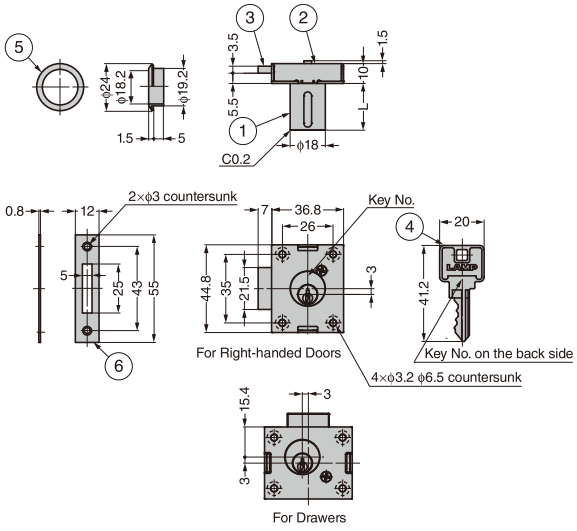
## For Right-handed Doors



## Switching Drawer/Door Applications




Remove the screw Ⓐ, rotate the cylinder 90°, and retighten screw Ⓐ. (The rotation direction will be to the left when switching from door to drawer application.)
Make sure the key number is centered and in the upright position.




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder | Zinc Alloy (ZDC) | Satin Nickel Plating / Black Colour Chromate |
| ② | Body | Stainless Steel (SUS304) | Plain |
| ③ | Deadbolt | Zinc Alloy (ZDC) | Nickel Plating |
| ④ | Key | Brass | |
| ⑤ | Ring | | Satin Nickel Plating / Black Colour Chromate |
| ⑥ | Strike Plate | Stainless Steel (SUS304) | Plain, Baked Enamel Paint/Black |

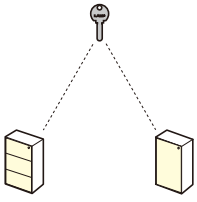
## Body

| Item Code | Item Name | Key Type | Finish/Colour | Cylinder Dia. | Door Thickness | L | Key Removal | Key Rotation Angle | Weight (g) |
|---|---|---|---|---|---|---|---|---|---|
| 150-049-461 | 3350-24DN-B | Key Different | Silver | 18 | 24 | 24 | 2 positions | 360° | 120 |
| 150-001-178 | 3350-24DN-D | Key Alike | | | | | | | |
| 150-055-212 | 3350-24BL-B | Key Different | Black | | | | | | |
| 150-001-105 | 3350-24BL-D | Key Alike | | | | | | | |
| 150-049-462 | 3350-30DN-B | Key Different | Silver | | 30 | 30 | | | 130 |
| 150-001-179 | 3350-30DN-D | Key Alike | | | | | | | |

## Adjustment Spacer Sold Separately (P.1256)

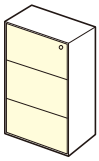
| Item Code | Item Name | Colour | Thickness |
|---|---|---|---|
| 150-060-148 | TSSP-W | White | 4 |
| 150-060-149 | TSSP-B | Black | |

**Multiple cabinets can be operated with the same key.**

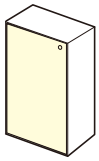


The key can be shared in the Total Lock 3310 series when the same key number is used. The same key can be used to operate multiple cabinets.

**Supported Doors**

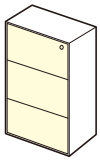


[Wooden Drawers]

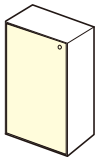


[Wooden Single Doors]

**Doors Supported by the 3310 Series**



[Wooden Drawers]



[Wooden Single Doors]



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 3360 Total Lock 3310 series NEW

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer<br>Single Swing Door<br>(right-handed) | Wood | 156 | - | Key not removable | 3310 Series |

- Rotate and position the cylinder for either drawer or right-handed door use.
- Ideal for wardrobes. The lock is surface-mountable making it suitable for overlay doors.
- An updated version of the 3320 model. Keys can be shared within the 3310 series with the same key number.
- A new black colour option for the 24mm type is now available.

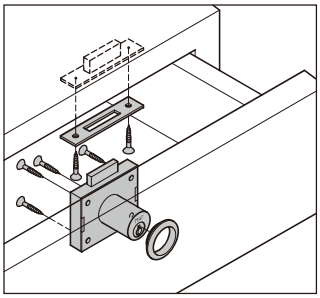
SCREW

## Other
- Gold finishing is also available on request.

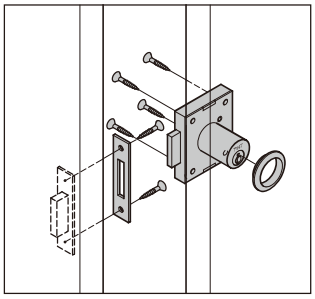
## Parts Included
- Cross-recessed countersunk screws 3.1 x 20, 2.1 x 10 (stainless steel)
- Key
- Ring
- Strike plate

## Remarks
- Do not rotate the cylinder more than necessary when switching drawer/door applications. This may cause damage. Unlike the 3320 model, it cannot rotate without removing the Ⓐ screw shown in the drawing.

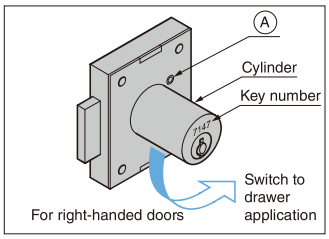
## For Drawers



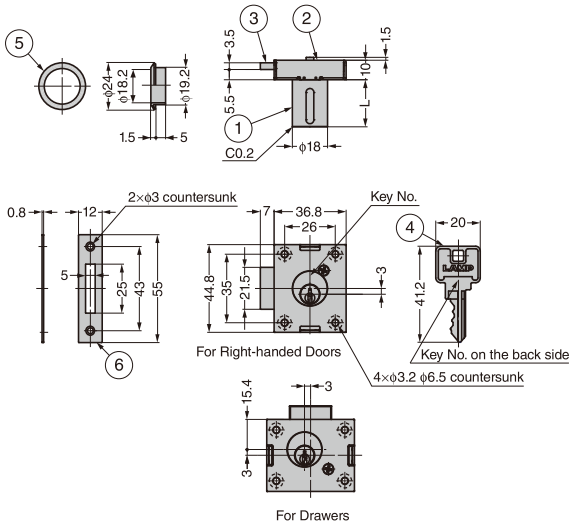
## For Right-handed Doors



## Switching Drawer/Door Applications




Remove the screw Ⓐ, rotate the cylinder 90°, and retighten screw Ⓐ. (The rotation direction will be to the left when switching from door to drawer application.)
Make sure the key number is centered and in the upright position.




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder | Zinc Alloy (ZDC) | Satin Nickel Plating / Black Colour Chromate |
| ② | Body | Stainless Steel (SUS304) | Plain |
| ③ | Deadbolt | Zinc Alloy (ZDC) | Nickel Plating |
| ④ | Key | Brass | |
| ⑤ | Ring | | Satin Nickel Plating / Black Colour Chromate |
| ⑥ | Strike Plate | Stainless Steel (SUS304) | Plain, Baked Enamel Paint/Black |

## Body

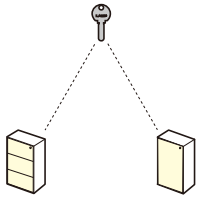
| Item Code | Item Name | Key Type | Finish/Colour | Cylinder Dia. | Door Thickness | L | Key Removal* | Key Rotation Angle | Weight (g) |
|---|---|---|---|---|---|---|---|---|---|
| 150-049-463 | 3360-24DN-B | Key Different | Silver | 18 | 24 | 24 | 1 position | 270° | 120 |
| 150-001-180 | 3360-24DN-D | Key Alike | | | | | | | |
| 150-055-245 | 3360-24BL-B | Key Different | Black | | | | | | |
| 150-001-106 | 3360-24BL-D | Key Alike | | | | | | | |
| 150-049-464 | 3360-30DN-B | Key Different | Silver | | 30 | 30 | | | 130 |
| 150-001-181 | 3360-30DN-D | Key Alike | | | | | | | |

*Key cannot be removed when unlocked

## Adjustment Spacer Sold Separately (P.1256)

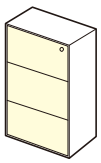
| Item Code | Item Name | Colour | Thickness |
|---|---|---|---|
| 150-060-148 | TSSP-W | White | 4 |
| 150-060-149 | TSSP-B | Black | |

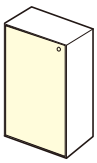
**Multiple cabinets can be operated with the same key.**



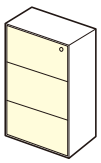
The key can be shared in the Total Lock 3310 series when the same key number is used. The same key can be used to operate multiple cabinets.

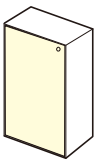
**Supported Doors**


[Wooden Drawers]


[Wooden Single Doors]

**Doors Supported by the 3310 Series**


[Wooden Drawers]


[Wooden Single Doors]


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 2650

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer and Single Swing Door | Wood | 48/120 | – | Key removable | 2650 Lock Series |

- For drawers and cabinet door application.
- 2650-16 : 48 key changes / 2650-22, 2650-30 : 120 key changes.
- Gold finish is available at surcharge.

SCREW

## Parts Included

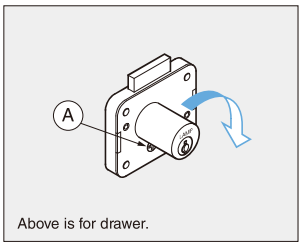
- Countersunk head wood screw 3.1 × 20, 2.1 × 10

## Optional Parts

- Spacer TSSP (P.1256)

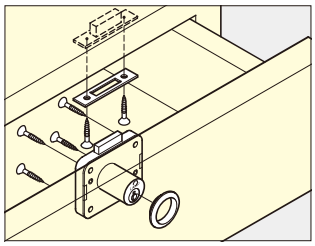


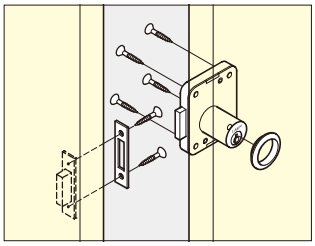
## How to Switch: for Drawer/Right-handed Door Application

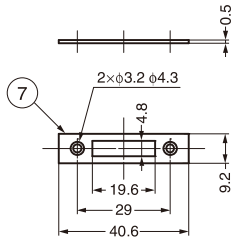


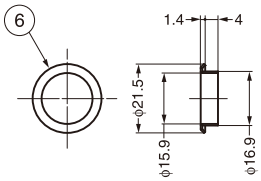

① Remove the screw Ⓐ.
② Turn the lock cylinder 90˚(clockwise for door application).
③ Fix the screw.
④ The logo "LAMP" is to be forwarded upside.

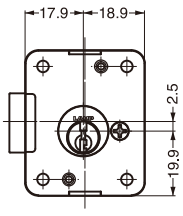
## Installation



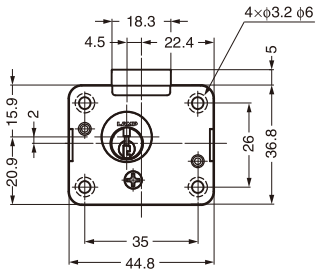




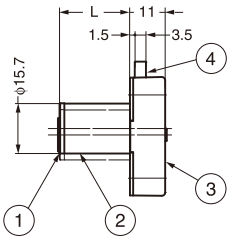



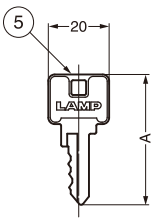




Right-handed door




Drawer




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder (Inner) | Zinc Alloy (ZDC) | Nickel |
| ② | Cylinder (Outer) | Brass | Nickel |
| ③ | Body | Zinc Alloy (ZDC) | Nickel |
| ④ | Dead Bolt | Zinc Alloy (ZDC) | Nickel |
| ⑤ | Key | Brass | Nickel |
| ⑥ | Ring | Brass | Nickel |
| ⑦ | Strike | Brass | Plain |

| Item Code | Item Name | Key Type | Cylinder Diameter | Sheet Metal Thickness | L | A | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|
| 150-022-061 | 2650-16-DN-B | Key Different | ϕ15.7 | 16 | 16 | 38 | 81.5 g | 12 pcs | 120 pcs |
| 150-001-218 | 2650-16-DN-D | Key Alike | ϕ15.7 | 16 | 16 | 38 | 81.5 g | 12 pcs | 120 pcs |
| 150-022-064 | 2650-22-DN-B | Key Different | ϕ15.7 | 22 | 22 | 42 | 89.5 g | 12 pcs | 120 pcs |
| 150-001-219 | 2650-22-DN-D | Key Alike | ϕ15.7 | 22 | 22 | 42 | 89.5 g | 12 pcs | 120 pcs |
| 150-022-067 | 2650-30-DN-B | Key Different | ϕ15.7 | 30 | 30 | 42 | 98 g | 12 pcs | 120 pcs |
| 150-001-220 | 2650-30-DN-D | Key Alike | ϕ15.7 | 30 | 30 | 42 | 98 g | 12 pcs | 120 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP STAINLESS STEEL CABINET LOCK 3810S

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer and Single Swing Door | Wood | 12*1 | –*2 | Key removable | – |

*1 Max. 300 key changes (made to order)
*2 Max. 300 changes per master key (made to order)

- For drawer and cabinet door application.
- Keys can be shared with 3800S (P.1272).
- Reversible key can be removed when locked and unlocked (360˚ rotation).

SUS SCREW

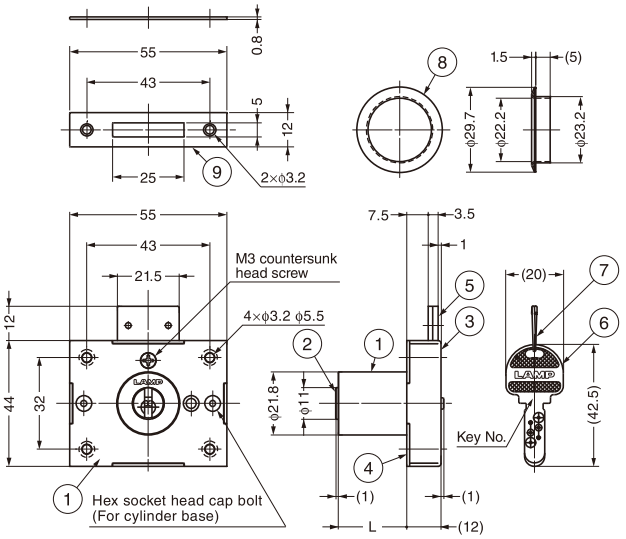
## Parts Included

- Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

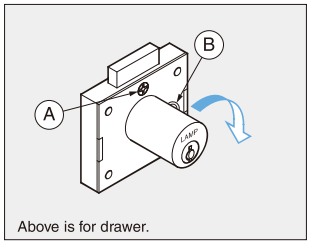
## Optional Parts

- Spacer 6810-SP (P.1256)



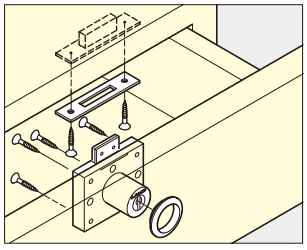


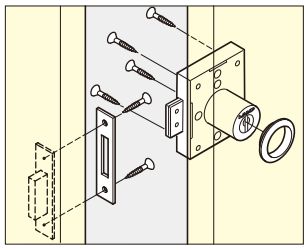

## How to Switch: for Drawer/Right-handed Door Application




① Remove screw Ⓐ.
② Turn lock cylinder 90˚(clockwise for door application).
③ Fix screw in Ⓑ.
④ The logo "LAMP" is to be forwarded upside.

## Installation





| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder (Outer) | Stainless Steel (SUS303) | Satin |
| ② | Cylinder (Inner) | Stainless Steel (SUS303) | Plain |
| ③ | Body | Stainless Steel (SUS304) | Plain |
| ④ | Cylinder Base | Stainless Steel (SUS304) | Plain |
| ⑤ | Dead Bolt | Stainless Steel (SUS304) | Plain |
| ⑥ | Key | Nickel Silver | Plain |
| ⑦ | Key Ring | Stainless Steel (SUS304) | Plain |
| ⑧ | Surface Ring | Stainless Steel (SUS304) | Plain |
| ⑨ | Strike | Stainless Steel (SUS304) | Plain |

*Cylinder pin is made of brass.

| Item Code | Item Name | Key Type | Cylinder Diameter | L | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|
| 150-012-923 | 3810S-24-B | Key Different | ϕ21.8 | 24 | 24 | 180 g | 12 pcs | 60 pcs |
| 150-001-369 | 3810S-24-D | Key Alike | ϕ21.8 | 24 | 24 | 180 g | 12 pcs | 60 pcs |
| 150-012-925 | 3810S-30-B | Key Different | ϕ21.8 | 30 | 30 | 195 g | 12 pcs | 60 pcs |
| 150-001-370 | 3810S-30-D | Key Alike | ϕ21.8 | 30 | 30 | 195 g | 12 pcs | 60 pcs |


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK WITH INDICATOR 2250 Total Lock 2200 series NEW

Latest Info




| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer<br>Single Swing Door (right-handed) | Wood | 12 *1 | – *2 | Key removable | 2200 Series |

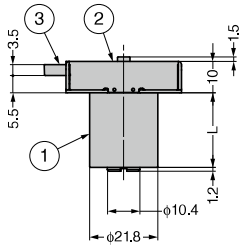
*1 Max. 300 key changes as special order
*2 Max. 170 key changes as special order (1 Master Key only)

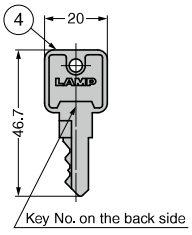
- With indicator: Unlocked - Blue, Locked - Red.
- For drawer and cabinet door application.
- An updated version of the 2200 model. Keys within the 2200 series can be shared using the same key number.

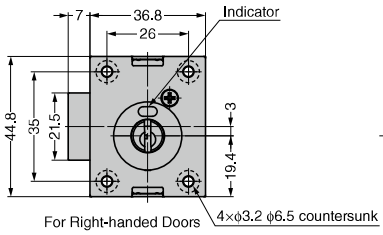
SCREW

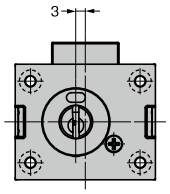
## Parts Included

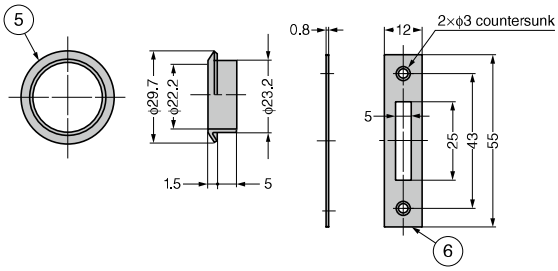
- Cross-recessed countersunk screws 3.1 x 20, 2.1 x 10 (stainless steel)
- Key
- Ring
- Strike plate



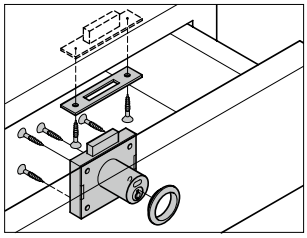



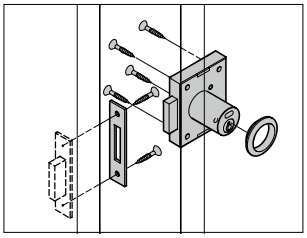



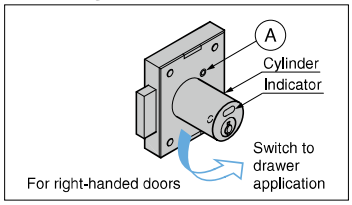

## For Drawers



## For Right-handed Doors



## Switching Drawer/Door Applications




Remove the screw Ⓐ, rotate the cylinder 90°, and retighten screw Ⓐ. (The rotation direction will be to the left when switching from door to drawer application.)
Make sure the key number is centered and in the upright position.

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder | Zinc Alloy (ZDC) | Satin Nickel Plating |
| ② | Body | Stainless Steel (SUS304) | Plain |
| ③ | Deadbolt | Zinc Alloy (ZDC) | Nickel Plating |
| ④ | Key | Brass | |
| ⑤ | Ring | | Satin Nickel Plating |
| ⑥ | Strike Plate | Stainless Steel (SUS304) | Plain |

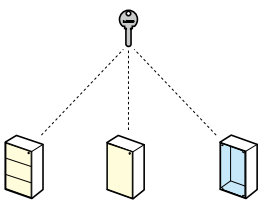
## Body

| Item Code | Item Name | Key Type | Cylinder Dia. | Door Thickness | L | Key Removal | Key Rotation Angle | Weight (g) |
|---|---|---|---|---|---|---|---|---|
| 150-049-467 | 2250-24-B | Key Different | 22 | 24 | 24 | 2 positions | 180° | 140 |
| 150-001-184 | 2250-24-D | Key Alike | | | | | | |
| 150-049-468 | 2250-30-B | Key Different | | 30 | 30 | | | 150 |
| 150-001-185 | 2250-30-D | Key Alike | | | | | | |

## Spacer for door thickness/cylinder length adjustment Sold Separately (P.1256)

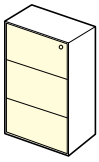
| Item Code | Item Name | Colour | Thickness |
|---|---|---|---|
| 150-060-148 | TSSP-W | White | 4 |
| 150-060-149 | TSSP-B | Black | |

## Multiple cabinets can be operated with the same key.

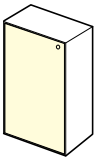


The key can be shared in the Total Lock 2200 series when the same key number is used. The same key can be used to operate multiple cabinets.

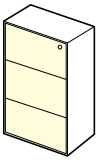
■Supported Doors



[Wooden Drawers]

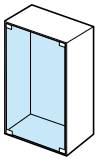


[Wooden Single Doors]



[Wooden Drawers]

■Doors Supported by the 2200 Series (P.1214, P.1215)



[Glass single door]

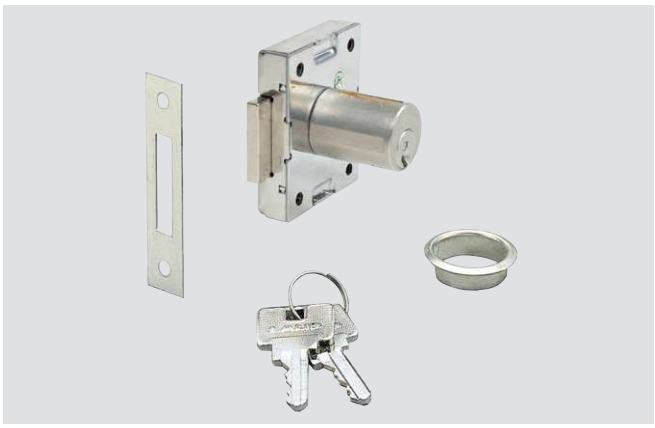


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK 2170 Total Lock 2100 series NEW

Latest Info





*Actual finish may differ from photo. Confirm with the actual product.

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer Single Swing Door (right-handed) | Wood | 6 | - | Key removable | 2100 Series |

- Rotate and position the cylinder for either drawer or right-handed door use.
- The lock is surface-mountable making it suitable for overlay doors.
- An updated version of the 2100 model. Keys within the 2100 series can be shared using the same key number.

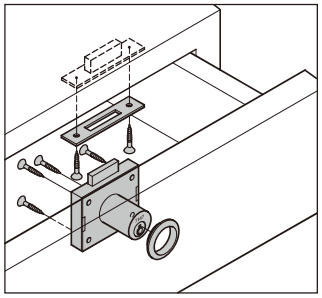
SCREW

## Other
- Gold finishing is also available on request.

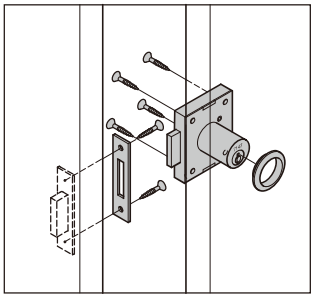
## Parts Included
- Cross-recessed countersunk screws 3.1 x 20, 2.1 x 10 (stainless steel)
- Key
- Ring
- Strike plate

## Remarks
- Do not rotate the cylinder more than necessary when switching drawer/door applications. This may cause damage. Unlike the 2100 model, it cannot rotate without removing the Ⓐ screw shown in the drawing.

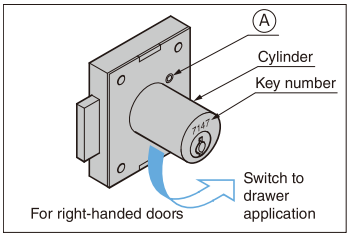
## For Drawers



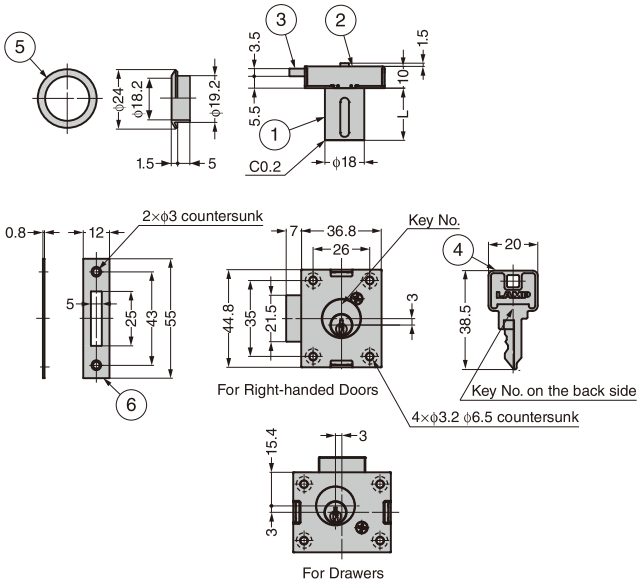
## For Right-handed Doors



## Switching Drawer/Door Applications




Remove the screw Ⓐ, rotate the cylinder 90°, and retighten screw Ⓐ. (The rotation direction will be to the left when switching from door to drawer application.)
Make sure the key number is centered and in the upright position.




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder | Zinc Alloy (ZDC) | Satin Nickel Plating |
| ② | Body | Stainless Steel (SUS304) | Plain |
| ③ | Deadbolt | Zinc Alloy (ZDC) | Nickel Plating |
| ④ | Key | Brass | |
| ⑤ | Ring | | Satin Nickel Plating |
| ⑥ | Strike Plate | Stainless Steel (SUS304) | Plain |

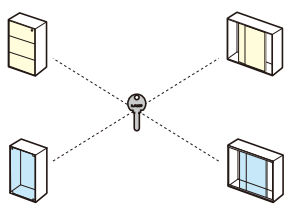
## Spacer for door thickness/cylinder length adjustment Sold Separately (P.1256)

| Item Code | Item Name | Colour | Thickness |
|---|---|---|---|
| 150-060-148 | TSSP-W | White | 4 |
| 150-060-149 | TSSP-B | Black | |

## Body

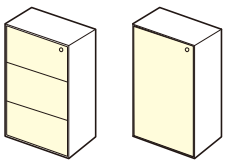
| Item Code | Item Name | Key Type | Cylinder Dia. | Door Thickness | L | Key Removal | Key Rotation Angle | Weight (g) |
|---|---|---|---|---|---|---|---|---|
| 150-049-465 | 2170-24-B | Key Different | 18 | 24 | 24 | 2 positions | 360° | 120 |
| 150-001-182 | 2170-24-D | Key Alike | | | | | | |
| 150-049-466 | 2170-30-B | Key Different | | 30 | 30 | | | 130 |
| 150-001-183 | 2170-30-D | Key Alike | | | | | | |

**Multiple cabinets can be operated with the same key.**



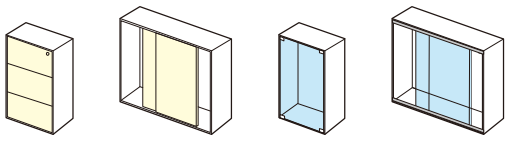
The key can be shared in the Total Lock 2100 series when the same key number is used. The same key can be used to operate multiple cabinets.

**■Supported Doors**



[Wooden Drawers] [Wooden Single Doors]

**■Doors Supported by the 2100 Series (P.1214, P.1215)**



[Wooden Drawers] [Wooden double sliding doors] [Glass single door] [Glass double sliding doors (fixture)]



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

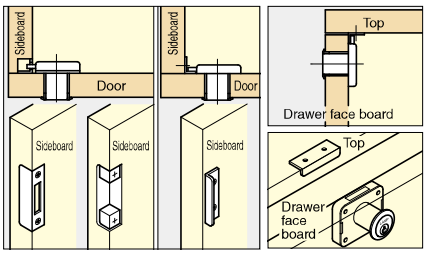
# LAMP. STRIKE LA

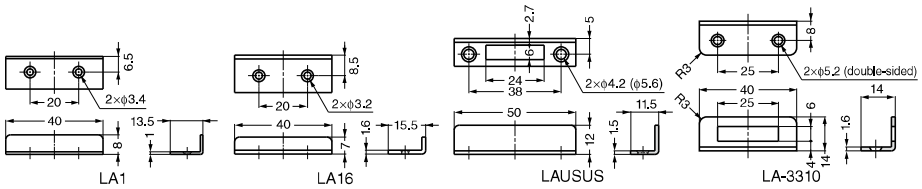
Latest Info




- Optional strike plates (for the place, dead bolt is close to the cabinet edge, or for inset door).
- LA-3310 is for double door application of 3310 series and 3320 series.

## Installation

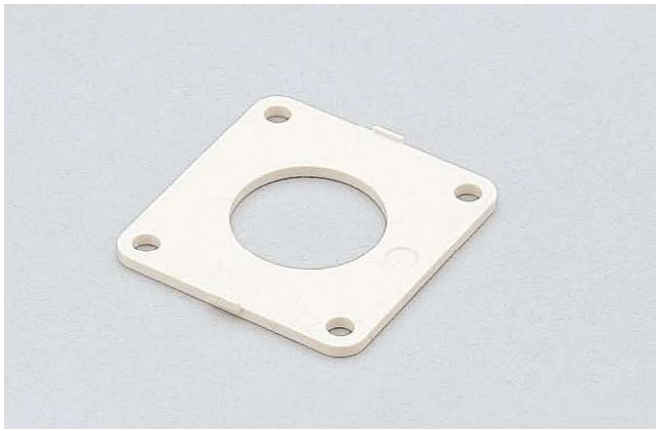



| Item Code | Item Name | Material | Finish | Weight | Box |
|---|---|---|---|---|---|
| 150-060-204 | LA1 | Steel | Nickel | 6 g | 400 pcs |
| 150-069-115 | LA16 | Steel | Nickel | 9 g | 400 pcs |
| 150-069-023 | LAUSUS | Stainless Steel (SUS304) | Satin | 10 g | 250 pcs |
| 150-060-669 | LA-3310 | Steel | Nickel | 11 g | 100 pcs |

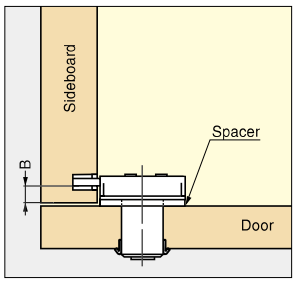
# LAMP. SPACER 5830-SP

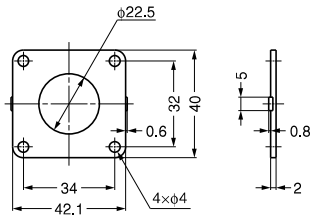
Latest Info



## Remarks

- Distance spacer for 5830 cabinet lock.




| Item Code | Item Name | Material | Colour | Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-569 | 5830-SP | ABS | White | 2 | 2.7 g | 200 pcs | 2,000 pcs |

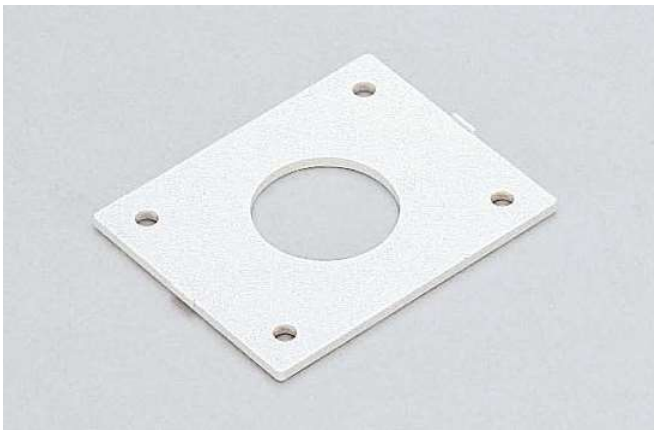


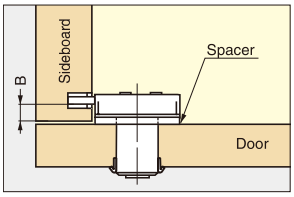
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

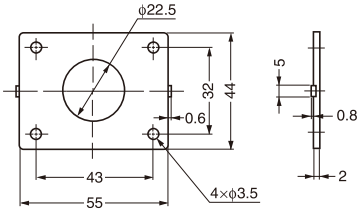
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## LAMP. SPACER 6810-SP

Latest Info





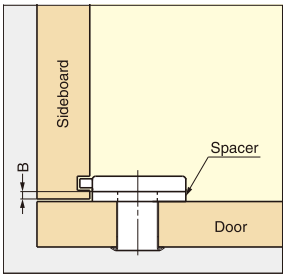

| Item Code | Item Name | Material | Colour | Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-206 | 6810-SP | ABS | White | 2 | 4.5 g | 150 pcs | 1,500 pcs |

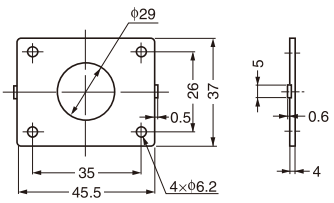
## LAMP. SPACER TSSP

Latest Info




- Use when the additional distance on dimension B is required. (Multiple spacers can be used if needed)




| Item Code | Item Name | Material | Colour | Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-148 | TSSP-W | ABS | White | 4 | 14 g | 150 pcs | 1,500 pcs |
| 150-060-149 | TSSP-B | ABS | Black | 4 | 14 g | 150 pcs | 1,500 pcs |


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## LAMP. INTERCHANGEABLE CYLINDER MD-N1

Latest Info



- For 6830-30MK, 1830-MK and 1330GL-MK.
- 7,800 key changes available. (Max. 750 key changes/Master Key)

| Item Code | Item Name | Key Type | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-001-003 | MD-N1-B | Key Different | Stainless Steel (SUS304)/Zinc Alloy (ZDC) | Bright Chromate (Trivalemt) | 50 g | 12 pcs | 60 pcs |
| 150-001-126 | MD-N1-D | Key Alike | Stainless Steel (SUS304)/Zinc Alloy (ZDC) | Bright Chromate (Trivalemt) | 50 g | 12 pcs | 60 pcs |

## LAMP. MASTER KEY & CHANGE KEY MD-MK1, MD-K1

Latest Info



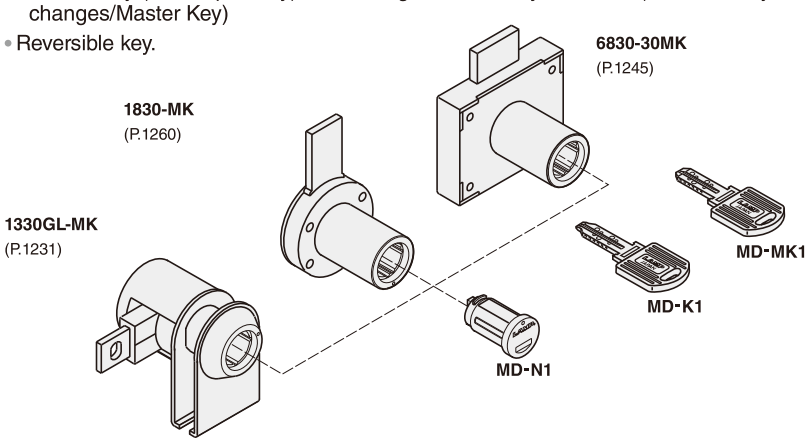
- MD-MK1 - Master Key for easy key management.
- MD-K1 - Change Key to remove existing cylinder.

| Item Code | Item Name | Type | Material | Finish/Colour | Weight | Box |
|---|---|---|---|---|---|---|
| 150-001-002 | MD-MK1 | Master Key | Brass/Polypropylene (PP) | Nickel/Black | 13 g | 1 pc |
| 150-001-001 | MD-K1 | Change Key | Brass/Polypropylene (PP) | Nickel/Black | 13 g | 1 pc |

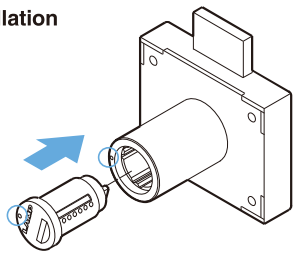
**Series Overview**

## LAMP. INTERCHANGEABLE LOCK SERIES

- Cylinder changeable type with Master Key system.
- Interchangeable system allows easy key management.
- 7,800 key changes available.
  - Master Key (sold separately) can manage different key numbers. (Max. 750 key changes/Master Key)
- Reversible key.

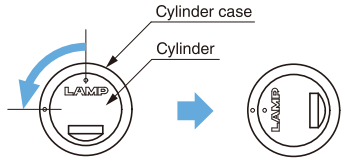



**Installation**



Place two dots in the same position and insert the cylinder.

**How to Remove the Cylinder**




Turn cylinder by using the Change Key (optional parts)

Place two dots in the same position

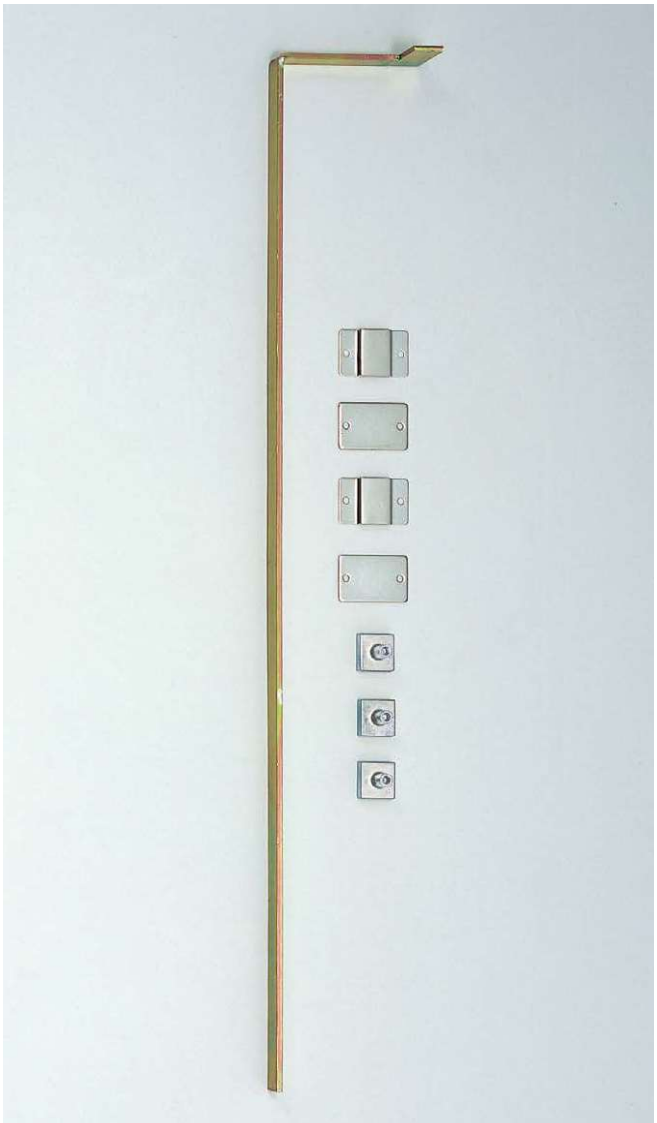
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CENTRAL LOCKING SYSTEM FOR FURNITURE ALF1800 Million Lock Series

Latest Info







Parts set ALFL (sold separately)

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| **Drawer** | Wood | Max. 1 million | –* | Key removable | Million Lock Series |

*Max. 2,520 changes per master key (made to order)

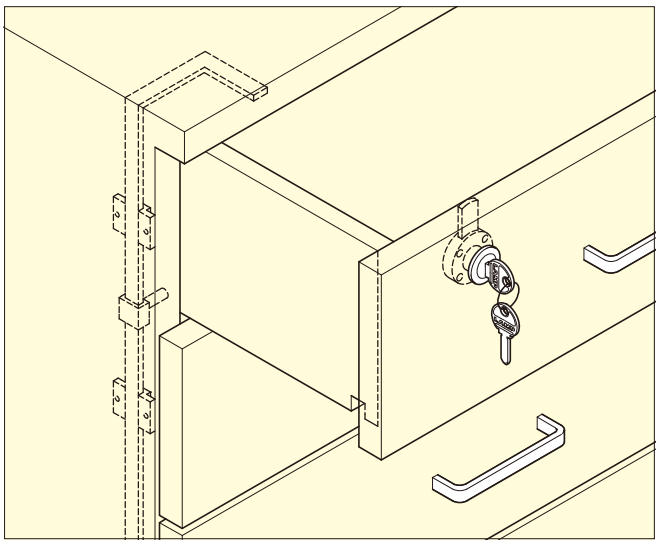
- Locks all drawers on one side simultaneously.
- Reversible key.
- Able to detach the key at any angle within 360˚.
- Cylinder to be applied to the top shelf, front or back of board.
- 4 or more lock parts are sold separately.
- The depth of the shelf can be adjusted according to the position of the lock pin.
- Right-handed / left-handed bar is available.

SCREW

### Parts Included
- Countersunk head wood screw 2.7 × 16
- Pan head wood screw 2.7 × 13

### Sold Separately
- Parts set ALFR, ALFL
- Separate parts ALS-LP, ALS-G, ALS-GP

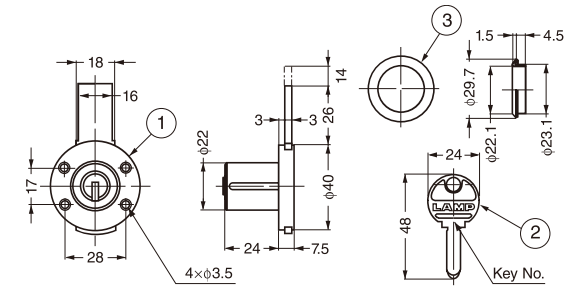
### Optional Parts
- Locking peg ALS=KP
- Bar ALFBAR1000

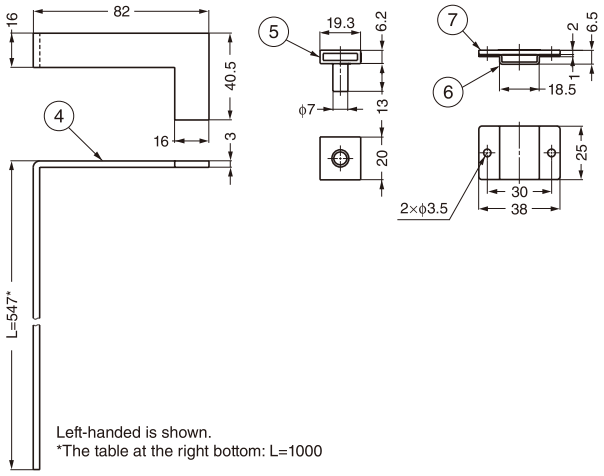




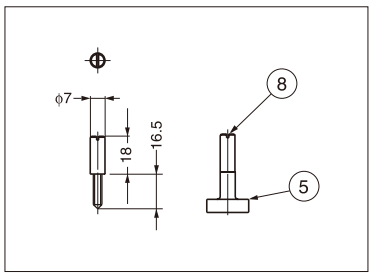
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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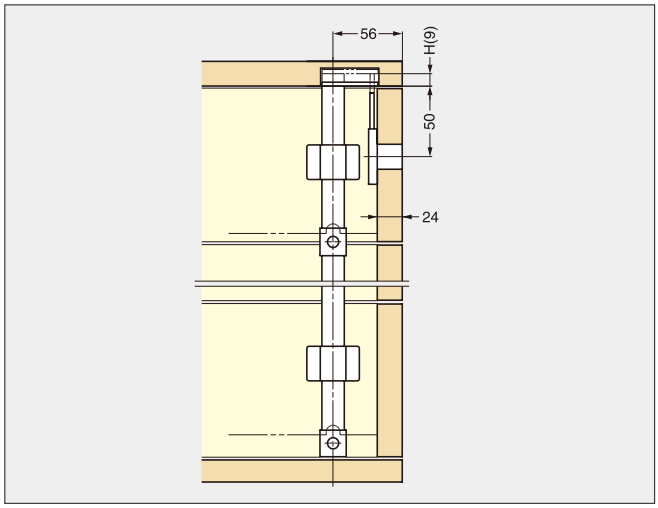




Left-handed is shown.
*The table at the right bottom: L=1000

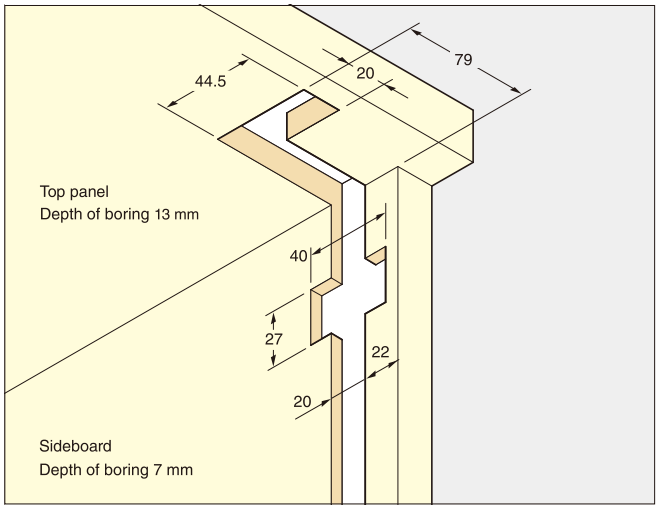



Use Locking Peg inserted into ⑤ for the application with drawer slides.

## Installation




## Cut Out Dimensions




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Satin Nickel |
| ② | Key | Brass | Nickel |
| ③ | Ring | Brass | Satin Nickel |
| ④ | Guide Bar (Sold Separately) | Steel | Yellow Zinc Chromate |
| ⑤ | Lock Pin (Sold Separately) | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ⑥ | Guide (Sold Separately) | Steel | Nickel |
| ⑦ | Guide Plate (Sold Separately) | Steel | Nickel |
| ⑧ | Locking Peg (Option) | Steel | Nickel |

### Cylinder Lock (① - ③)

| Item Code | Item Name | Key Type | Cylinder Diameter | Stroke of Bar | Door Thickness | Weight | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-253 | ALF1800-B | Key Different | ϕ22 | 14 | 24 | 194 g | 60 pcs |
| 150-001-033 | ALF1800-D | Key Alike | ϕ22 | 14 | 24 | 194 g | 60 pcs |

Please contact our sales exectives for this item with master function.

### Parts Set (④ - ⑦) (Sold Separately)

| Item Code | Item Name | Left/Right | Weight | Carton |
|---|---|---|---|---|
| 150-060-520 | ALFR | Right | 328 g | 50 sets |
| 150-060-521 | ALFL | Left | 328 g | 50 sets |

For the drawers over 4.

### Parts (⑤ - ⑦) (Optional Parts)

| Item Code | Item Name | Part Name | No. | Weight |
|---|---|---|---|---|
| 150-060-134 | ALS-LP | Lock Pin for Auto-Lock | ⑤ | 11.5 g |
| 150-945-903 | ALS-G | Guide for Auto-Lock | ⑥ | 8 g |
| 150-945-902 | ALS-GP | Guide Plate for Auto-Lock | ⑦ | 14.5 g |

### Locking Peg for All-Lock (⑧) (Optional Parts)

| Item Code | Item Name | Weight | Box | Carton |
|---|---|---|---|---|
| 150-060-117 | ALS-KP | 6.5 g | 400 pcs | 2,000 pcs |

### Guide Bar (④L=1000) (Optional Parts)

| Item Code | Item Name | Left/Right | Weight | Box | Carton |
|---|---|---|---|---|---|
| 150-028-521 | ALFBAR1000R | Right | 407 g | 10 pcs | 50 pcs |
| 150-028-522 | ALFBAR1000L | Left | 407 g | 10 pcs | 50 pcs |

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP. CENTRAL LOCKING SYSTEM FOR FURNITURE 1830-MK

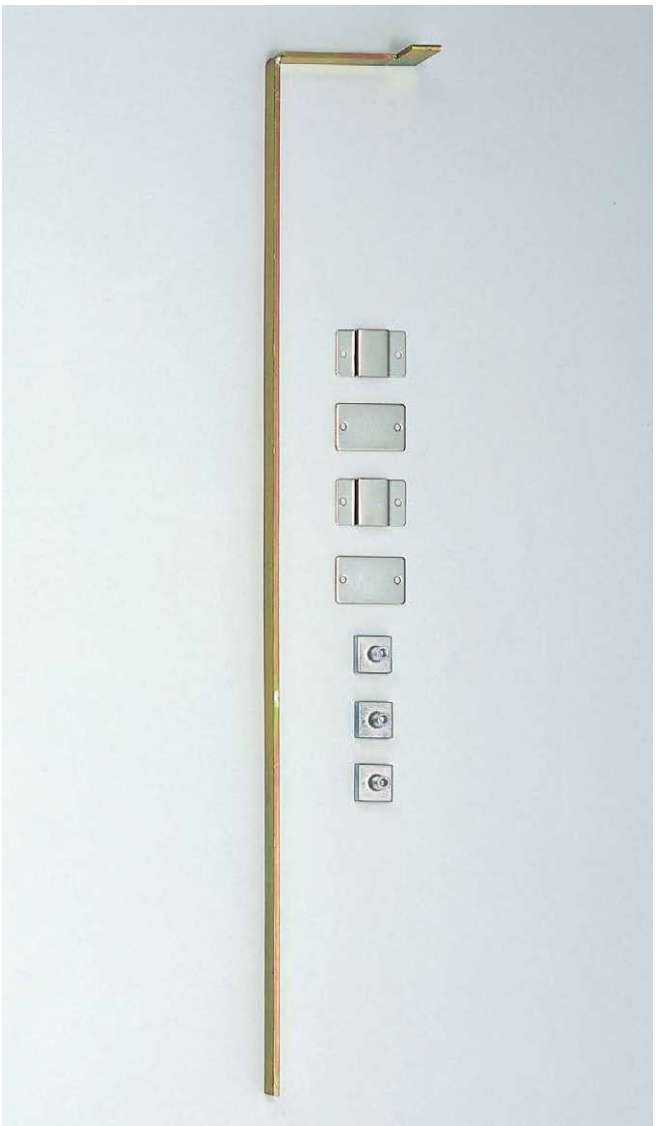
Latest Info





1830-MKGA　　1830-MKDN

*Cylinder and key are sold separately.



Parts set ALFL (sold separately)

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer | Wood | Max. 7,800 | Max. 750 key changes | Key removable | Interchangeable Cylinder Lock Series |

- Interchangeable cylinder lock with Master Key system.
- Locks all drawers on one side simultaneously.
- Keys can be shared with 1330GL-MK (P.1231) and 6830-30MK (P.1245).
- Cylinder lock needs to be installed on the front panel of the top drawer.
- 4 or more lock parts are sold separately.
- The depth of the drawer can be adjusted according to the position of the lock pin.
- Right-handed / left-handed bar available.

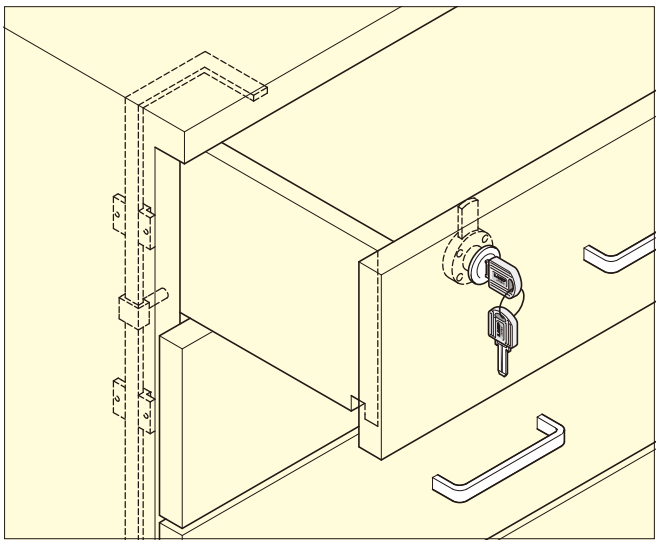
SCREW

### Remarks
- Cylinder can be changed by using Change Key MD-K1.

### Parts Included
- Countersunk head wood screw 2.7 × 16
- Pan head wood screw 2.7 × 13

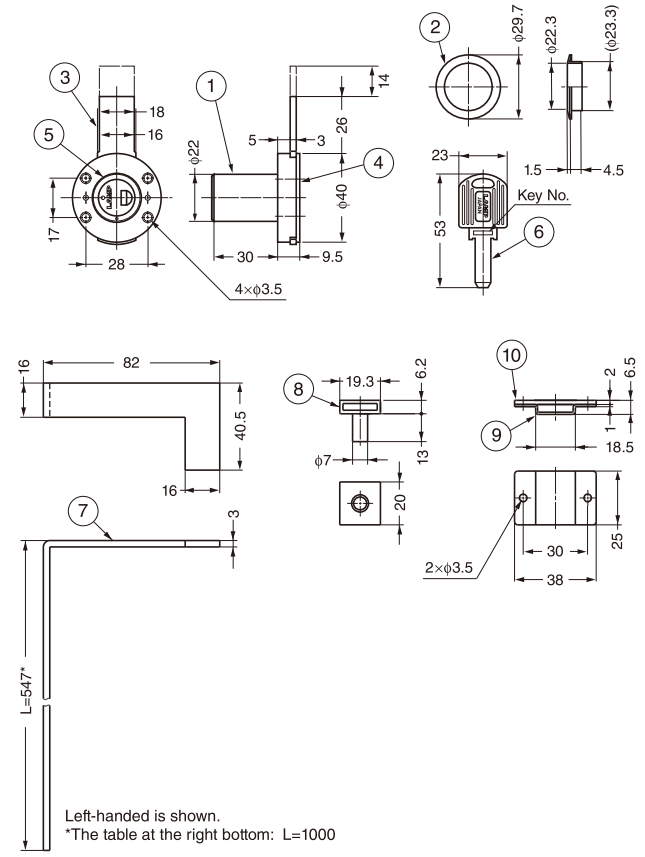
### Sold Separately
- Cylinder MD-N1 (P.1257)
- Master Key MD-MK1 (P.1257), change key MD-K1 (P.1257)
- Parts set ALFR, ALFL

### Optional Parts
- Parts (⑧ - ⑩)
- Locking peg ALS-KP
- Bar ALFBAR1000

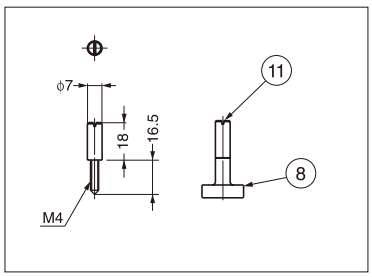




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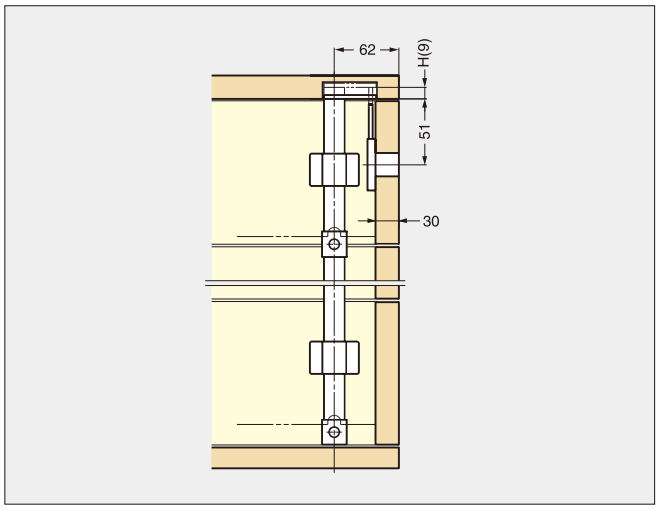



Left-handed is shown.
*The table at the right bottom: L=1000

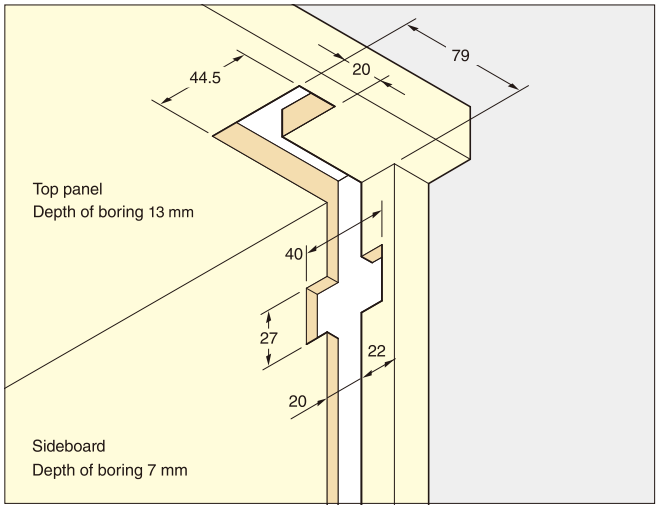



Use Locking Peg inserted into ⑧
for the application with drawer slides.

## Installation




## Cut Out Dimensions




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Housing | Zinc Alloy (ZDC) | GA: Gold, Paint/Clear DN: Satin Nickel |
| ② | Ring | Brass | GA: Gold, Paint/Clear DN: Satin Nickel |
| ③ | Dead Bolt | Stainless Steel (SUS304) | Polished |
| ④ | Cover | Stainless Steel (SUS304) | Polished |
| ⑤ | Cylinder (Sold Separately) | Stainless Steel (SUS304)/Zinc Alloy (ZDC) | Polished/Yellow Zinc Chromate |
| ⑥ | Key (Sold Separately) | Brass/ABS | Nickel/Black |
| ⑦ | Guide Bar (Sold Separately) | Steel | Yellow Zinc Chromate |
| ⑧ | Lock Pin (Sold Separately) | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ⑨ | Guide (Sold Separately) | Steel | Nickel |
| ⑩ | Guide Plate (Sold Separately) | Steel | Nickel |
| ⑪ | Locking Peg (Option) | Steel | Nickel |

### Cylinder Housing (① - ④) *Cylinder ⑤ and Key ⑥ are sold separately.

| Item Code | Item Name | Finish | Cylinder Diameter | Stroke of Bar | Door Thickness | Weight | Carton |
|---|---|---|---|---|---|---|---|
| 150-066-006 | 1830-MKGA | Gold, Paint/Clear | ϕ22 | 14 | 30 | 143 g | 60 pcs |
| 150-066-005 | 1830-MKDN | Satin Nickel | ϕ22 | 14 | 30 | 143 g | 60 pcs |

### Parts Set (⑦ - ⑩) (Sold Separately)

| Item Code | Item Name | Left/Right | Weight | Carton |
|---|---|---|---|---|
| 150-060-520 | ALFR | Right | 328 g | 50 sets |
| 150-060-521 | ALFL | Left | 328 g | 50 sets |

For the drawers over 4.

### Parts (⑧ - ⑩) (Optional Parts)

| Item Code | Item Name | Part Name | No. | Weight |
|---|---|---|---|---|
| 150-060-134 | ALS-LP | Lock Pin for Auto-Lock | ⑧ | 11.5 g |
| 150-945-903 | ALS-G | Guide for Auto-Lock | ⑨ | 8 g |
| 150-945-902 | ALS-GP | Guide Plate for Auto-Lock | ⑩ | 14.5 g |

### Locking Peg (⑪) (Optional Parts)

| Item Code | Item Name | Weight | Box | Carton |
|---|---|---|---|---|
| 150-060-117 | ALS-KP | 6.5 g | 400 pcs | 2,000 pcs |

### Guide Bar (⑦L=1000) (Optional Parts)

| Item Code | Item Name | Left/Right | Weight | Box | Carton |
|---|---|---|---|---|---|
| 150-028-521 | ALFBAR1000R | Right | 407 g | 10 pcs | 50 pcs |
| 150-028-522 | ALFBAR1000L | Left | 407 g | 10 pcs | 50 pcs |



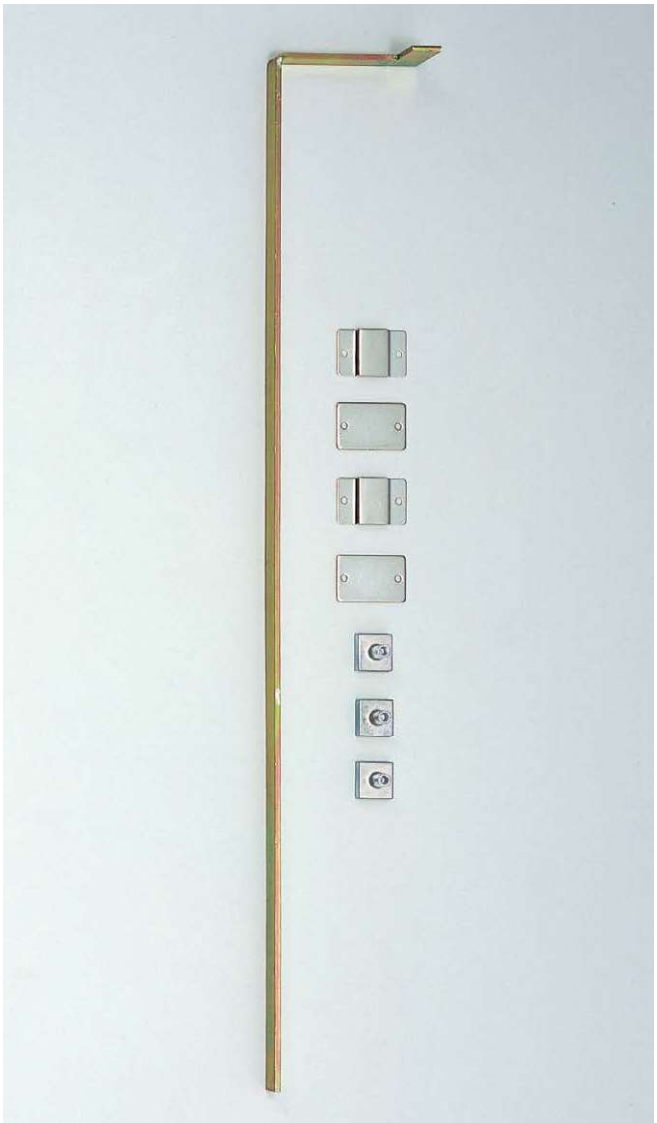
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# LAMP CENTRAL LOCKING SYSTEM FOR FURNITURE ALF1600 3310 Lock Series

Latest Info







Parts set ALS-LP, ALS-G, ALS-GP (sold separately)

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| **Drawer** | Wood | 100 | – | Key removable | 3310 Lock Series |

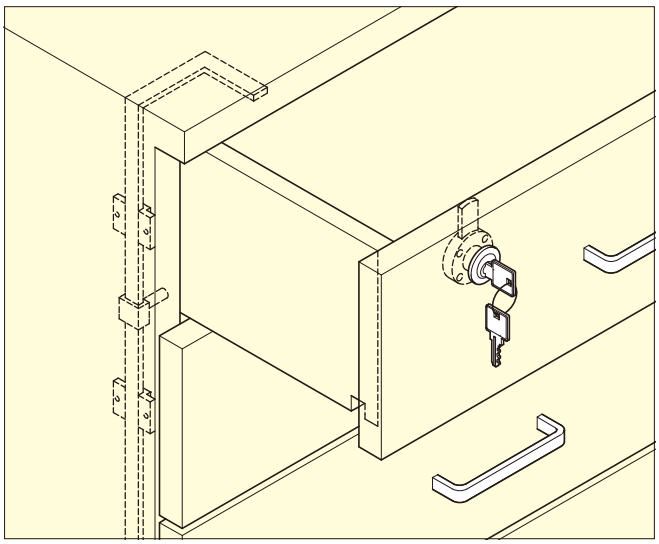
- Locks all drawers on one side simultaneously.
- Cylinder lock needs to be installed on the front panel of the top drawer.
- 4 or more lock parts are sold separately.
- The depth of the shelf can be adjusted according to the position of the lock pin.
- Right-handed / left-handed bar is available.
- Body can be made black chromate finish as special order.
- The cylinder of ALF1800 (P.1258) can be applied to this system for 1 million key changes at maximum.

SCREW

### Parts Included
- Countersunk head wood screw 2.7 × 16
- Pan head wood screw 2.7 × 13

### Sold Separately
- Parts set ALFR, ALFL
- Separate parts ALS-LP, ALS-G, ALS-GP

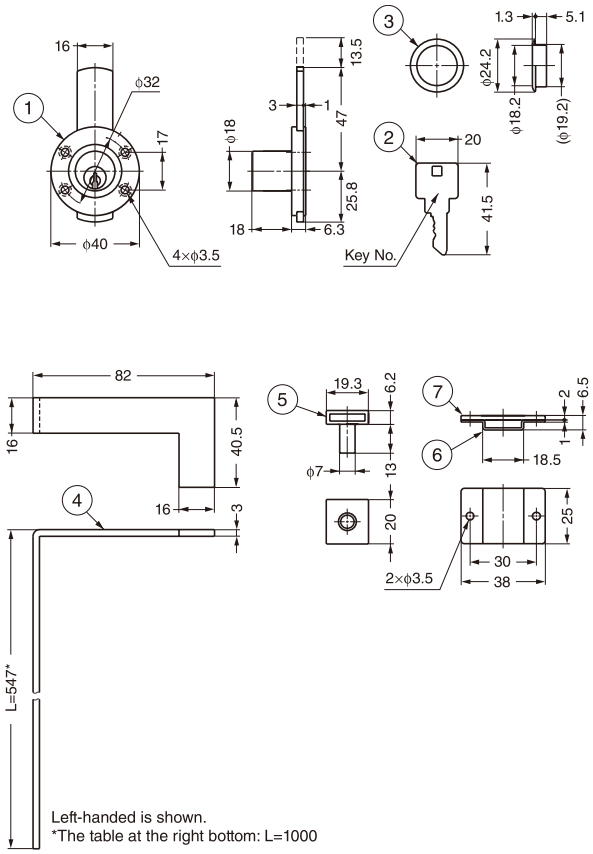
### Optional Parts
- Locking peg ALS-KP
- Bar ALFBAR1000



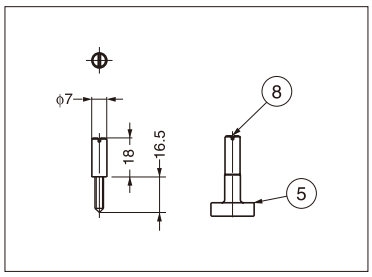


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS

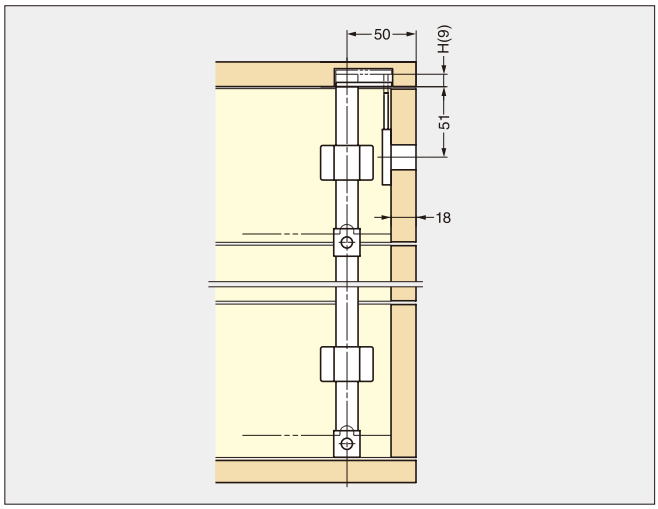



Left-handed is shown.
*The table at the right bottom: L=1000

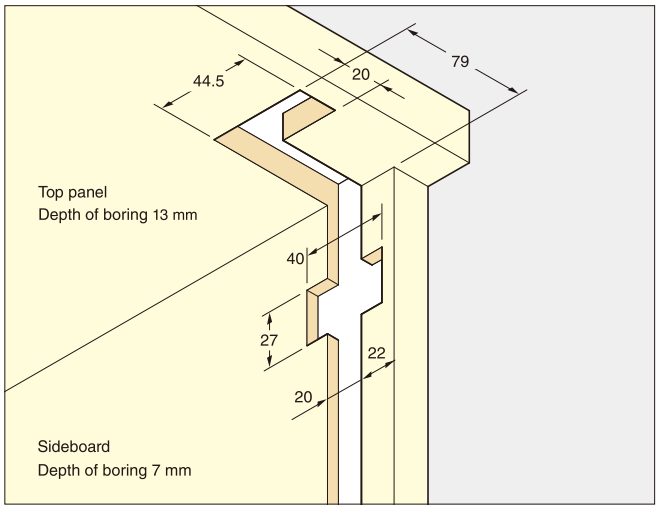



Use Locking Peg inserted into ⑤ for the application with drawer slides.

## Installation




## Cut Out Dimensions




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ② | Key | Brass | Nickel |
| ③ | Ring | Brass | Satin Nickel |
| ④ | Guide Bar (Sold Separately) | Steel | Yellow Zinc Chromate |
| ⑤ | Lock Pin (Sold Separately) | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ⑥ | Guide (Sold Separately) | Steel | Nickel |
| ⑦ | Guide Plate (Sold Separately) | Steel | Nickel |
| ⑧ | Locking Peg (Option) | Steel | Nickel |

### Cylinder Lock (① - ③)

| Item Code | Item Name | Key Type | Cylinder Diameter | Stroke of Bar | Door Thickness | Weight | Carton |
|---|---|---|---|---|---|---|---|
| 150-061-251 | ALF1600-B | Key Different | ϕ18 | 13.5 | 18 | 84 g | 50 pcs |
| 150-001-034 | ALF1600-D | Key Alike | ϕ18 | 13.5 | 18 | 84 g | 50 pcs |

### Parts Set (④ - ⑦) (Sold Separately)

| Item Code | Item Name | Left/Right | Weight | Carton |
|---|---|---|---|---|
| 150-060-520 | ALFR | Right | 328 g | 50 sets |
| 150-060-521 | ALFL | Left | 328 g | 50 sets |

For the drawers over 4.

### Parts (⑤ - ⑦) (Optional Parts)

| Item Code | Item Name | Part Name | No. | Weight |
|---|---|---|---|---|
| 150-060-134 | ALS-LP | Lock Pin for Auto-Lock | ⑤ | 11.5 g |
| 150-945-903 | ALS-G | Guide for Auto-Lock | ⑥ | 8 g |
| 150-945-902 | ALS-GP | Guide Plate for Auto-Lock | ⑦ | 14.5 g |

### Locking Peg for All-Lock (⑧) (Optional Parts)

| Item Code | Item Name | Weight | Box | Carton |
|---|---|---|---|---|
| 150-060-117 | ALS-KP | 6.5 g | 400 pcs | 2,000 pcs |

### Guide Bar (④L=1000) (Optional Parts)

| Item Code | Item Name | Left/Right | Weight | Box | Carton |
|---|---|---|---|---|---|
| 150-028-521 | ALFBAR1000R | Right | 407 g | 10 pcs | 50 pcs |
| 150-028-522 | ALFBAR1000L | Left | 407 g | 10 pcs | 50 pcs |

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# LAMP CENTRAL LOCKING SYSTEM FOR FURNITURE ALS3310 3310 Lock Series

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer | Wood | 100 | – | Key removable | 3310 Lock Series |

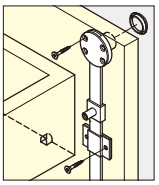
- Locks all drawers on one side simultaneously.
- The depth of the shelf can be adjusted according to the position of the lock pin.

SCREW

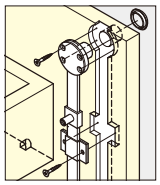
### Parts Included
- Countersunk head wood screw 2.7 × 16, Pan head wood screw 2.7 × 13

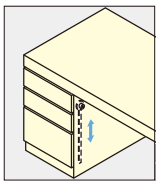
### Sold Separately
- Separate parts ALS-LP, ALS-G, ALS-GP
- Locking peg ALS-KP (optional parts)

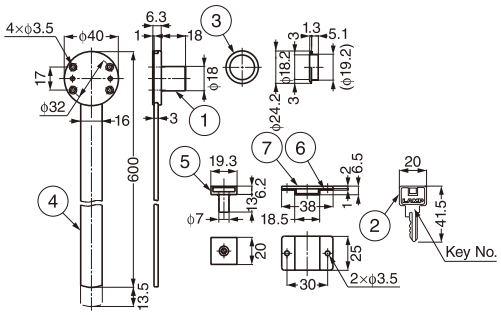
### Surface Mounting

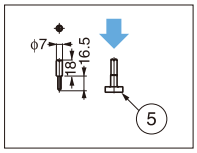


### Mortise Mounting








Use Locking Peg inserted into ⑤
for the application with drawer slides.

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ② | Key | Brass | Nickel |
| ③ | Ring | Brass | Satin Nickel |
| ④ | Guide Bar | Aluminum Alloy | – |
| ⑤ | Lock Pin | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ⑥ | Guide | Steel | Nickel |
| ⑦ | Guide Plate | Steel | Nickel |

### Lock Set (① - ⑦)

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-001-041 | ALS3310-B | Key Different | ϕ18 | 18 | 260 g | 1 set | 20 sets |
| 150-001-042 | ALS3310-D | Key Alike | ϕ18 | 18 | 260 g | 1 set | 20 sets |

### Parts Set (⑤ - ⑦) (Sold Separately)

| Item Code | Item Name | Part Name | No. | Weight |
|---|---|---|---|---|
| 150-060-134 | ALS-LP | Lock Pin | ⑤ | 11.5 g |
| 150-945-903 | ALS-G | Guide | ⑥ | 8 g |
| 150-945-902 | ALS-GP | Guide Plate | ⑦ | 14.5 g |

### Locking Peg (Optional Parts)

| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-060-117 | ALS-KP | Steel | Nickel | 6.5 g | 400 pcs | 2,000 pcs |


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# LAMP CENTRAL LOCKING SYSTEM FOR FURNITURE (WITH INDICATOR) ALS2200 2200 Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer | Wood | 12*1 | –*2 | Key removable | 2200 Lock Series |

*1 Max. 300 key changes (made to order)
*2 Max. 170 changes per master key (made to order)

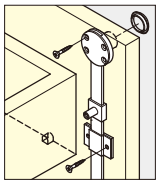
- Locks all drawers on one side simultaneously.
- With indicator: Unlocked - Blue, Locked - Red.
- The depth of the shelf can be adjusted according to the position of the lock pin.

SCREW

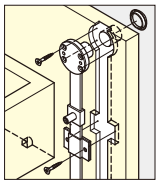
### Parts Included
- Countersunk head wood screw 2.7 × 16
- Pan head wood screw 2.7 × 13

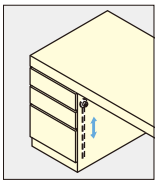
### Sold Separately
- Separate parts ALS-LP, ALS-G, ALS-GP
- Locking peg ALS-KP (optional parts)

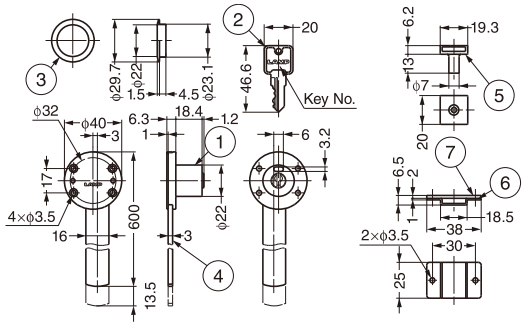
**Surface Mounting**

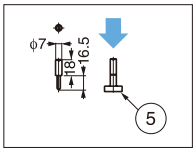


**Mortise Mounting**








Use Locking Peg inserted into ⑤
for the application with drawer slides.

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ② | Key | Brass | Nickel |
| ③ | Ring | Brass | Satin Nickel |
| ④ | Guide Bar | Aluminum Alloy | – |
| ⑤ | Lock Pin | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ⑥ | Guide | Steel | Nickel |
| ⑦ | Guide Plate | Steel | Nickel |

### Lock Set (① - ⑦)

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-920 | ALS2200-D | Key Alike | φ22 | 18 | 253 g | 1 set | 20 sets |

Please contact our sales executives for master function.

### Parts (⑤ - ⑦) (Sold Separately)

| Item Code | Item Name | Part Name | No. | Weight |
|---|---|---|---|---|
| 150-060-134 | ALS-LP | Lock Pin for All-Lock | ⑤ | 11.5g |
| 150-945-903 | ALS-G | Guide for All-Lock | ⑥ | 8 g |
| 150-945-902 | ALS-GP | Guide Plate for All-Lock | ⑦ | 14.5g |

### Locking Peg (Optional Parts)

| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-060-117 | ALS-KP | Steel | Nickel | 6.5 g | 400 pcs | 2,000 pcs |

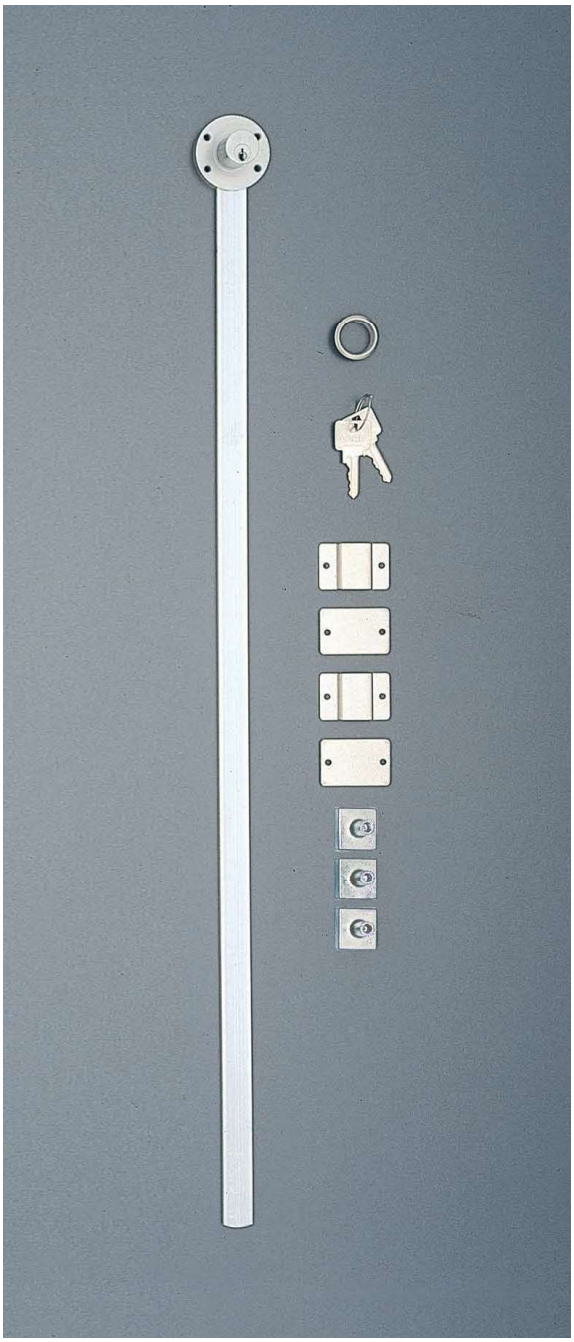


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# LAMP CENTRAL LOCKING SYSTEM FOR FURNITURE ALS2100 2100 Lock Series

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Drawer | Wood | 6* | – | Key removable | 2100 Lock Series |

*Max. 12 key changes (made to order)

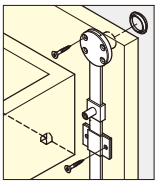
- Locks all drawers on one side simultaneously.
- The depth of the shelf can be adjusted according to the position of the lock pin.

SCREW

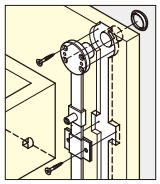
### Parts Included
- Countersunk head wood screw 2.7 × 16, Pan head wood screw 2.7 × 13

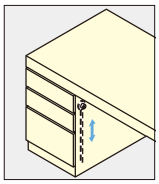
### Optional Parts
- Separate parts ALS-LP, ALS-G, ALS-GP
- Locking peg ALS-KP (optional parts)

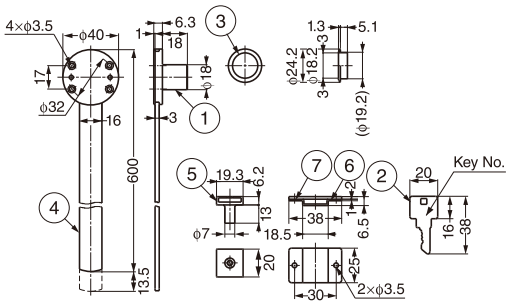
### Surface Mounting

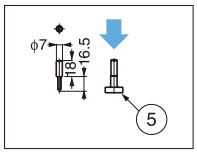


### Mortise Mounting








Use Locking Peg inserted into ⑤
for the application with drawer slides.

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ② | Key | Brass | Nickel |
| ③ | Ring | Brass | Satin Nickel |
| ④ | Guide Bar | Aluminum Alloy | – |
| ⑤ | Lock Pin | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ⑥ | Guide | Steel | Nickel |
| ⑦ | Guide Plate | Steel | Nickel |

### Lock Set (① - ⑦)

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-001-039 | ALS2100-B | Key Different | ϕ18 | 18 | 267 g | 1 set | 12 sets |
| 150-001-040 | ALS2100-D | Key Alike | ϕ18 | 18 | 267 g | 1 set | 12 sets |

### Parts (⑤ - ⑦) (Sold Separately)

| Item Code | Item Name | Part Name | No. | Weight |
|---|---|---|---|---|
| 150-060-134 | ALS-LP | Lock Pin | ⑤ | 11.5g |
| 150-945-903 | ALS-G | Guide | ⑥ | 8 g |
| 150-945-902 | ALS-GP | Guide Plate | ⑦ | 14.5g |

### Locking Peg (Optional Parts)

| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-060-117 | ALS-KP | Steel | Nickel | 6.5 g | 400 pcs | 2,000 pcs |


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# LAMP PUSH LOCK 2300M Million Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Wood and sheet metal | Max. 1 million | –* | Key removable | Million Lock Series |

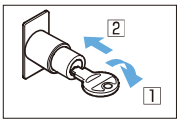
*Max. 2,520 changes per master key (made to order)

- For sliding doors.

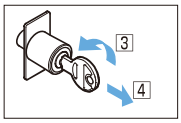
SCREW

**Parts Included**
- Countersunk head wood screw 2.7 × 16 (SUS)

**Lock**

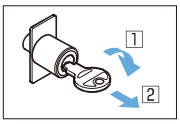


Turn key 90° to the right, push in.

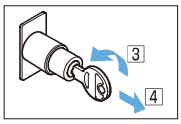


Turn key 90° to the left, and remove.

**Unlock**

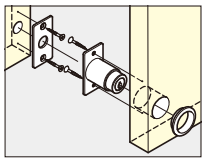


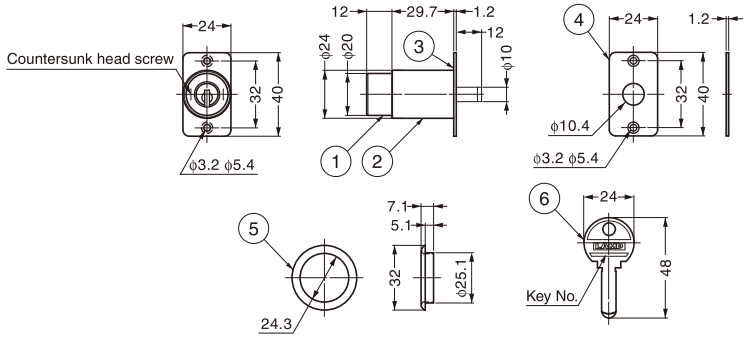
Turn key 90° to the right and lock will automatically disengage.



Turn the key 90° back and remove.

**Installation**






| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Chrome |
| ② | Cylinder Case | Zinc Alloy (ZDC) | Chrome |
| ③ | Mounting Plate | Stainless Steel (SUS304) | Polished |
| ④ | Strike | Stainless Steel (SUS304) | Polished |
| ⑤ | Ring | Brass | Chrome |
| ⑥ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-022-924 | 2300M-B | Key Different | ϕ24 | 30 | 100 g | 12 pcs | 60 pcs |
| 150-001-232 | 2300M-D | Key Alike | ϕ24 | 30 | 100 g | 12 pcs | 60 pcs |

# LAMP PUSH LOCK 2400M

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Wood, Metal-framede glass and sheet metal | Max. 47,000 | –* | Key removable | – |

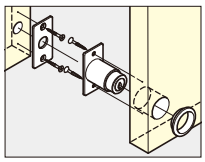
*Max. 1,000 changes per master key (made to order)

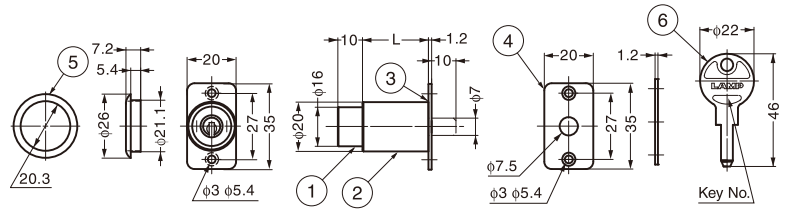
- For sliding doors.
- Push the cylinder to lock without the using key.
- Turn key 45° to the right to unlock. Turn key 45° to the left to lock and remove the key.

SCREW

**Parts Included**
- Countersunk head wood screw 2.7 × 16 (SUS)

**Installation**






| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Chrome |
| ② | Cylinder Case | Zinc Alloy (ZDC) | Chrome |
| ③ | Mounting Plate | Stainless Steel (SUS304) | Polished |
| ④ | Strike | Stainless Steel (SUS304) | Polished |
| ⑤ | Ring | Brass | Chrome |
| ⑥ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | L | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|
| 150-022-926 | 2400M-20-B | Key Different | ϕ20 | 20 | 22 | 65 g | 12 pcs | 60 pcs |
| 150-001-230 | 2400M-20-D | Key Alike | ϕ20 | 20 | 22 | 65 g | 12 pcs | 60 pcs |
| 150-022-925 | 2400M-25-B | Key Different | ϕ20 | 25 | 27 | 70 g | 12 pcs | 60 pcs |
| 150-001-231 | 2400M-25-D | Key Alike | ϕ20 | 25 | 27 | 70 g | 12 pcs | 60 pcs |



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CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS

# LAMP PUSH LOCK 2150M, 2160M

Latest Info



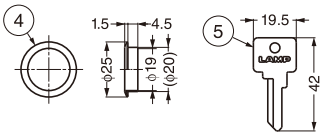
| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Wood | 24 | – | Key removable | – |

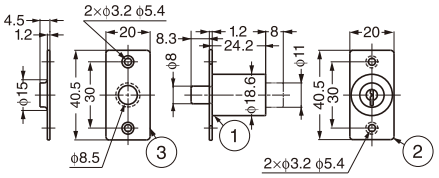
- For sliding doors.
- 2150M - Lock to push the cylinder.
  2160M - Lock to insert key and push the cylinder.
- For metal sheet: 2150B and 2160B (P.1236).
- Keys can be shared with 2150M, 2160M, 2150B and 2160B Lock Series.

SCREW

### Parts Included

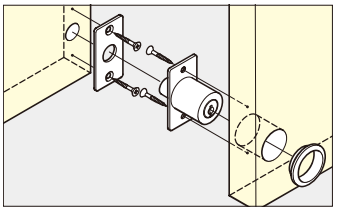
- Countersunk head wood screw 2.7 × 16




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Nickel |
| ② | Mounting Plate | Brass | Nickel |
| ③ | Strike | Brass | Nickel |
| ④ | Ring | Brass | Nickel |
| ⑤ | Key | Brass | Nickel |

### Installation



| Item Code | Item Name | Key Type | How to Lock | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|
| 150-060-067 | 2150M-B | Key Different | Without Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |
| 150-001-383 | 2150M-D | Key Alike | Without Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |
| 150-060-071 | 2160M-B | Key Different | With Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |
| 150-001-385 | 2160M-D | Key Alike | With Key | ϕ18.6 | 24 | 50 g | 24 pcs | 240 pcs |

# LAMP PUSH LOCK 2100M 2100 Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Wood | 6* | – | Key removable | 2100 Lock Series |

*Max. 12 key changes (made to order)

- For sliding doors.
- Push the cylinder to lock without using the key.

SCREW

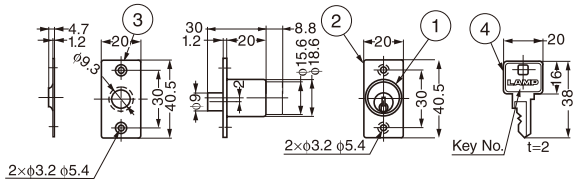
Feature

### Remarks

- Master Key is not available.

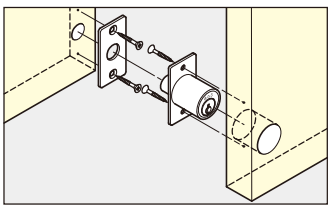
### Parts Included

- Countersunk head wood screw 2.7 × 16




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel |
| ② | Mounting Plate | Brass | Nickel |
| ③ | Strike | Brass | Nickel |
| ④ | Key | Brass | Nickel |

### Installation



| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-812 | 2100M-B | Key Different | ϕ18.6 | 20 | 60 g | 12 pcs | 240 pcs |
| 150-001-044 | 2100M-D | Key Alike | ϕ18.6 | 20 | 60 g | 12 pcs | 240 pcs |
| 150-063-742 | 2100M-25-B | Key Different | ϕ18.6 | 25 | 70 g | 12 pcs | 240 pcs |
| 150-001-043 | 2100M-25-D | Key Alike | ϕ18.6 | 25 | 70 g | 12 pcs | 240 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP PUSH LOCK 2110M 2100 Lock Series

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Wood | 6* | – | Key removable | 2100 Lock Series |

*Max. 12 key changes (made to order)

- For sliding doors.
- To Lock: Insert the key and turn 60˚ clockwise. Push-in the cylinder and turn the key 60˚ back.
- Key is removable in both locked and un-locked position.
- To Unlock: Insert the key and turn 60˚ clockwise. Push-out the cylinder and turn the key 60˚ back.

SCREW

Feature

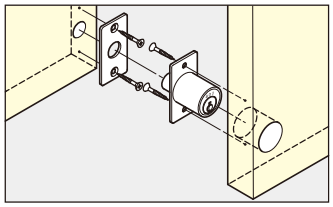
## Remarks

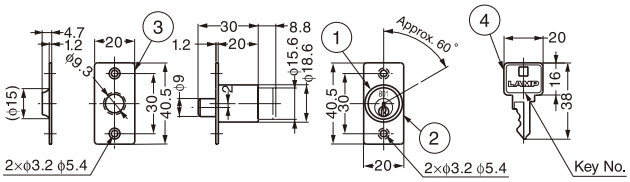
- Master Key not available.

## Parts Included

- Countersunk head wood screw 2.7 × 16

## Installation






| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy (ZDC) | Satin Nickel (Core: Buffing Coated with Nickel) |
| ② | Mounting Plate | Brass | Nickel |
| ③ | Strike | Brass | Nickel |
| ④ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-060-889 | 2110M-B | Key Different | ϕ18.6 | 20 | 60 g | 12 pcs | 240 pcs |
| 150-001-045 | 2110M-D | Key Alike | ϕ18.6 | 20 | 60 g | 12 pcs | 240 pcs |



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# LAMP CAM LOCK 900 Million Lock Series

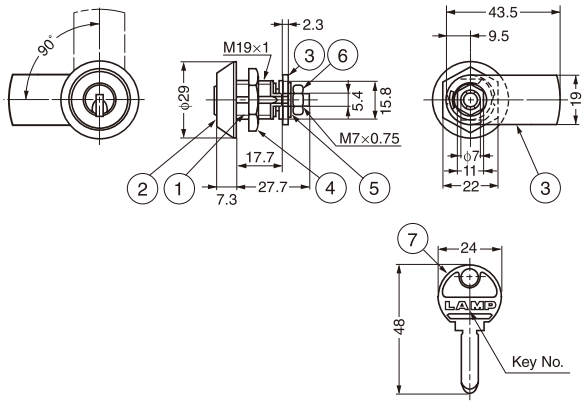
Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Sheet metal | Max. 1 million | –* | Key not removable | Million Lock Series |

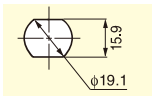
*Max. 2,520 changes per master key (made to order)

- Suitable for vending machine, ATM and coin locker.
- Reversible key can be removed when locked (90˚ rotation).

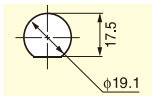



## Cut Out Dimensions

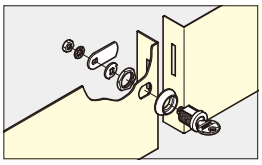
(Standard type)




(Master Key system type)




## Installation



| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Chrome |
| ② | Ring | Brass | Chrome |
| ③ | Cam | Steel | Yellow Zinc Chromate |
| ④ | Hex Nut | Steel | Yellow Zinc Chromate |
| ⑤ | Washer | Steel | Nickel |
| ⑥ | Hex Nut | Steel | Yellow Zinc Chromate |
| ⑦ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-060-247 | 900-B | Key Different | 0.8 - 8 | 120 g | 12 pcs | 60 pcs |
| 150-001-080 | 900-D | Key Alike | 0.8 - 8 | 120 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.

# LAMP CAM LOCK 910MS

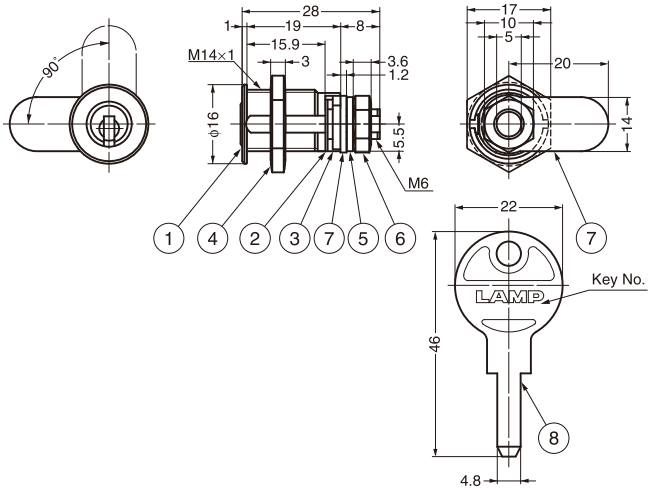
Latest Info



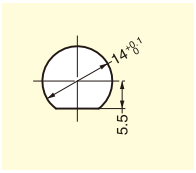
| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Sheet metal | Max. 47,000 | –* | Key not removable | – |

*Max. 1,000 changes per master key (made to order)

- Small cylinder lock with dimple key.
- Reversible key can be removed when locked (90˚ rotation).




## Cut Out Dimensions




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Chrome |
| ② | Ring | Steel | Phosphated Treatment |
| ③ | Cam | Steel (SPCC) | Yellow Zinc Chromate |
| ④ | M14 Hex Nut | Steel (S20C) | Yellow Zinc Chromate |
| ⑤ | Washer | Steel | Yellow Zinc Chromate |
| ⑥ | M6 Hex Nut | Steel (S20C) | Yellow Zinc Chromate |
| ⑦ | Cam | Steel (SPCC) | Yellow Zinc Chromate |
| ⑧ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-025-141 | 910MS-B | Key Different | 0.8 - 12 | 25.5 g | 12 pcs | 60 pcs |
| 150-001-238 | 910MS-D | Key Alike | 0.8 - 12 | 25.5 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CAM LOCK WITH HOLE SHUTTER 920BS

Latest Info



| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Sheet metal | Max. 3,200 | –* | Key not removable | – |

*Max. 120 changes per master key (made to order)

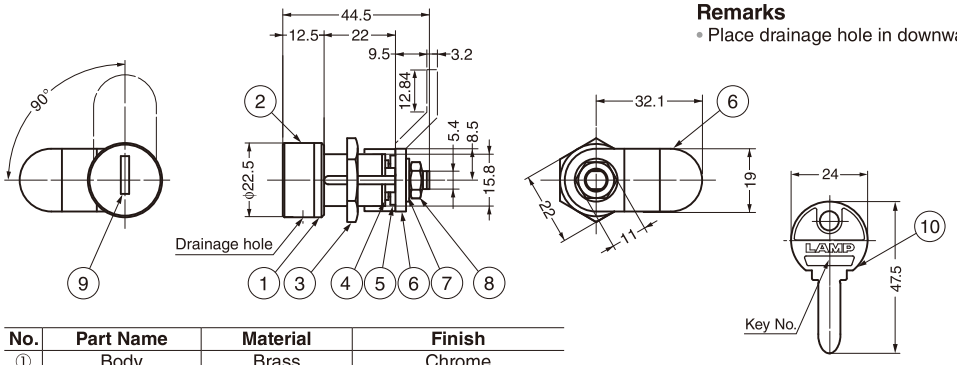
- Cylinder lock with key hole shutter.
- Reversible key can be removed when locked (90˚ rotation).
- Cam can be changed to straight type at surcharge.

## Application Example

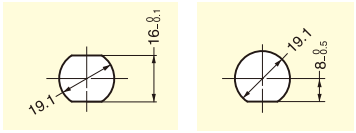
- Mailbox

## Remarks

- Place drainage hole in downward.




## Cut Out Dimensions




Standard type

Master Key system type

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Chrome |
| ② | Cover | Brass | Chrome |
| ③ | M19 Hex Nut | Steel (SS) | Yellow Zinc Chromate |
| ④ | Ring | Stainless Steel | - |
| ⑤ | Revolving Part | Steel (SPCC) | Yellow Zinc Chromate |
| ⑥ | Cam | Steel (SPCC) | Yellow Zinc Chromate |
| ⑦ | Washer | Steel | Yellow Zinc Chromate |
| ⑧ | M7 Hex Nut | Steel (SS) | Yellow Zinc Chromate |
| ⑨ | Shutter | Stainless Steel | - |
| ⑩ | Key | Brass | Nickel |

| Item Code | Item Name | Key Type | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-025-144 | 920BS-B | Key Different | 0.8 - 12 | 97.4 g | 12 pcs | 60 pcs |
| 150-001-237 | 920BS-D | Key Alike | 0.8 - 12 | 97.4 g | 12 pcs | 60 pcs |

Please contact us for this item with Master Key system.

# LAMP CAM LOCK NAL

Latest Info

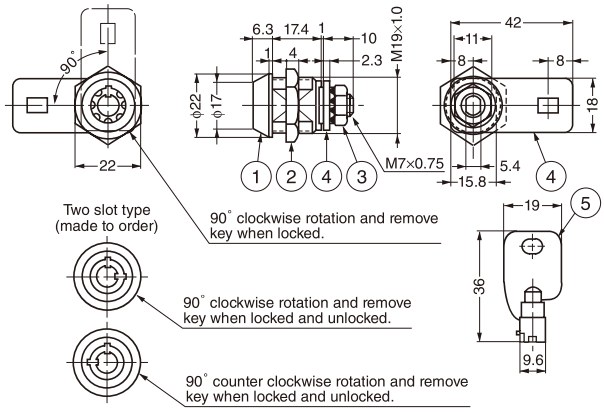


| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Sheet metal | 5000 | – | Key not removable | – |

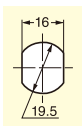
- 90 degree cam rotation.
- Key is removable in locked position only.

## Remarks

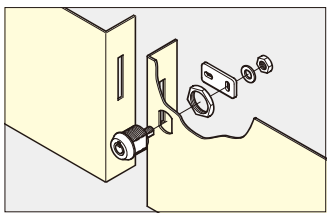
- Spring works key to pull back. Push the key tightly and turn to lock and unlocked.




## Cut Out Dimensions




## Installation



| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Chrome |
| ② | Hex Nut | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ③ | Hex Nut | Steel (SWRCH) | Yellow Zinc Chromate |
| ④ | Cam | Steel (SPCC) | Yellow Zinc Chromate |
| ⑤ | Key | Steel (SPCC) | Nickel |

| Item Code | Item Name | Key Type | Cylinder Diameter | Door Thickness | Weight | Box |
|---|---|---|---|---|---|---|
| 150-061-067 | NAL-B | Key Different | ϕ19 (width: 15.8) | Max. 10 | 55 g | 100 pcs |
| 150-001-399 | NAL-D | Key Alike | ϕ19 (width: 15.8) | Max. 10 | 55 g | 100 pcs |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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# LAMP STAINLESS STEEL CAM LOCK 3800S

Latest Info



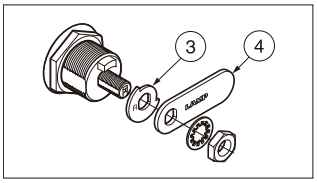
| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Sheet metal | 300 | –* | Key not removable | – |

*Max. 300 changes per master key (made to order)

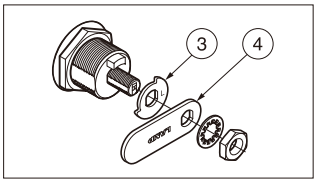
- High corrosion with stainless steel.
- Non-handed.
- Durability with thick cam.
- Reversible key can be removed when locked (90˚ rotation).
- Key works as a knob in unlocked position.
- Keys can be shared with 3810S (P.1252).

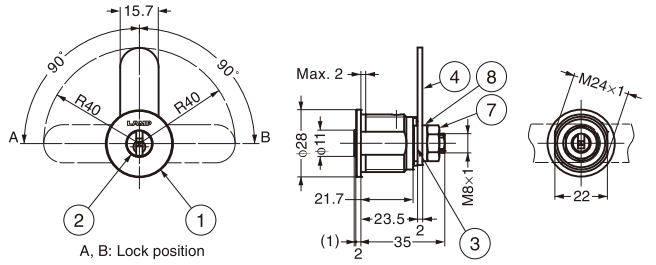
SUS

**Installation for Right-handed Door**



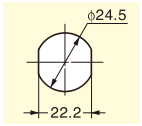

**Installation for Left-handed Door**



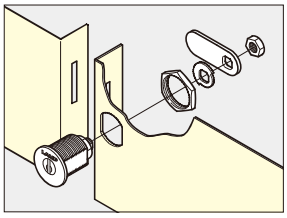



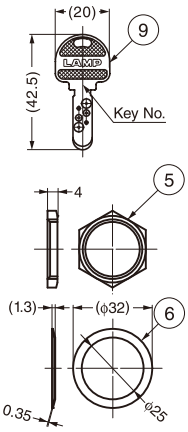

A, B: Lock position

**Cut Out Dimensions**




**Installation**






| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Cylinder (Outer) | Stainless Steel (SUS303) | Satin |
| ② | Cylinder (Inner) | Stainless Steel (SUS303) | 2B Finish |
| ③ | Cylinder Cam | Stainless Steel (SUS304) | 2B Finish |
| ④ | Cam | Stainless Steel (SUS304) | Plain |
| ⑤ | Nut (for Installing the Body) | Stainless Steel (SUS303) | Plain |
| ⑥ | Washer (for Body) | Stainless Steel (SUS304) | Plain |
| ⑦ | Nut (for Installing the Lock Plate) | Stainless Steel | Plain |
| ⑧ | Washer | Stainless Steel (SUS304) | Plain |
| ⑨ | Key | Nickel | Plain |
| - | Key Ring | Stainless Steel (SUS304) | Plain |

*Cylinder pin is made of brass.

| Item Code | Item Name | Key Type | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-012-921 | 3800S-B | Key Different | 2 - 10 | 120 g | 12 pcs | 60 pcs |
| 150-001-368 | 3800S-D | Key Alike | 2 - 10 | 120 g | 12 pcs | 60 pcs |

Please contact us for this item with master function.

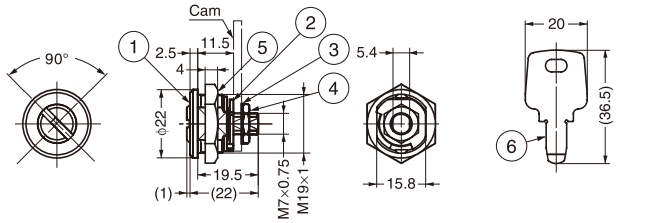
# CAM LOCK DIS-022R-D

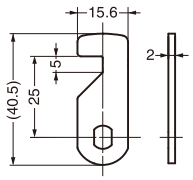
Latest Info



- Thin cylinder lock with dimple key.
- Reversible key can be removed when locked and unlocked (90˚ rotation).

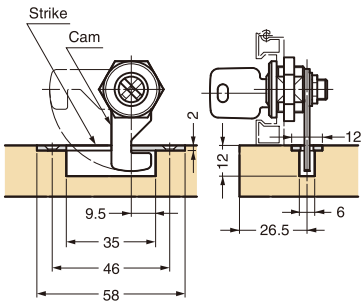
**Sold Separately**
- Stainless cam DIS-010
- Stainless strike DIS-011




Cam (sold separately)

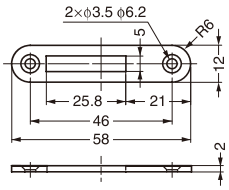
**Installation**




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Brass | Chrome |
| ② | Cam | Steel (SPCC) | Yellow Zinc Chromate |
| ③ | Washer | Steel | Yellow Zinc Chromate |
| ④ | M7 Hex Nut | Steel | Yellow Zinc Chromate |
| ⑤ | M19 Hex Nut | Zinc Alloy (ZDC) | Yellow Zinc Chromate |
| ⑥ | Key | Brass | Nickel |



Strike (sold separately)




**Body**

| Item Code | Item Name | Key Type | Door Thickness | Weight | Box |
|---|---|---|---|---|---|
| 150-001-374 | DIS-022R-D | Key Alike | Max. 5 | 50 g | 50 pcs |

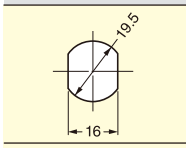
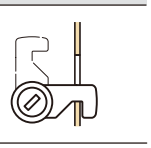
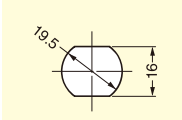
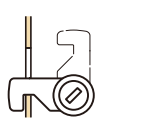
**Cam (Sold Separately)**

| Item Code | Item Name | Material | Finish | Weight |
|---|---|---|---|---|
| 180-018-598 | DIS-010 | Stainless Steel (SUS304) | Polished | 7 g |

**Strike (Sold Separately)** Recommended screw: cross-recessed countersunk wood screw 2.7×13 (stainless steel)

| Item Code | Item Name | Material | Finish | Weight |
|---|---|---|---|---|
| 180-018-599 | DIS-011 | Stainless Steel (SUS304) | Polished | 7 g |

Parts included: Countersunk head wood screw 2.7×13 (SUS)

| Cut Out Dimensions | Lock Position |
|---|---|
|  |  |
|  |  |





This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

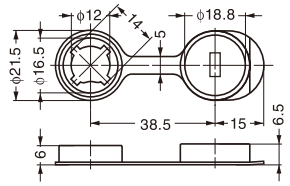
# MINI CAM LOCK NAL-S

Latest Info




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Zinc Alloy | Chrome |
| ② | Hex Nut | Steel | Clear Zinc Chromate |
| ③ | Cam | Steel | Chrome |
| ④ | Screw for Installing Lock Plate | Steel | Clear Zinc Chromate |
| ⑤ | Key | Steel | Chrome |
| ⑥ | Key Ring | Stainless Steel (SUS304) | – |





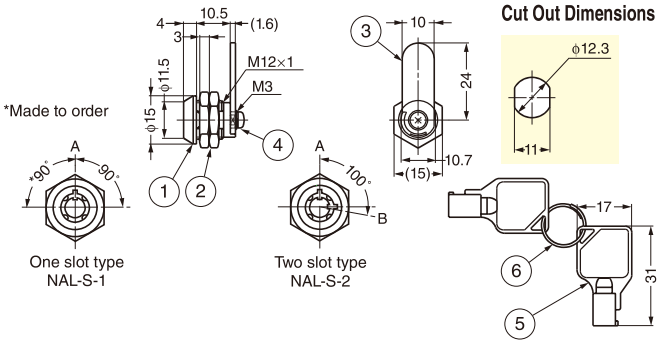

| Item Code | Item Name | Material | Colour | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 150-039-050 | NAL-SCAP | Polyethylene (PE) | Black | 1.5 g | 500 pcs | 2,000 pcs |

| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Single Swing Door | Sheet metal | 25 | – | Key not removable(NAL-S-1)/ removable(NAL-S-2) | – |

- NAL-S-1: Key is removable in locked position only. (Avoids to forget to lock.)
  NAL-S-2: Key is removable in both locked and unlocked positions.
- Cam is reversible.
- Keyed alike only. Key different available as special order.

## Optional Parts

- Cap (NAL-S CAP)




| Item Code | Item Name | Slots | Key Type | Door Thickness | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 150-034-274 | NAL-S-1-B | One | Key Diffrent | Max. 2 | 25 g | 100 pcs | 500 pcs |
| 150-001-393 | NAL-S-1-D | One | Key Alike | Max. 2 | 25 g | 100 pcs | 500 pcs |
| 150-034-275 | NAL-S-2-B | Two | Key Diffrent | Max. 2 | 25 g | 100 pcs | 500 pcs |
| 150-001-392 | NAL-S-2-D | Two | Key Alike | Max. 2 | 25 g | 100 pcs | 500 pcs |

Please confirm the item in case of changing the specification.



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP CABINET LOCK WITH DIAL DIT-19

Latest Info

SELECTION GUIDE
GLASS DOOR LOCKS
CABINET LOCKS
CENTRAL LOCKING SYSTEMS
PUSH LOCKS
CAM LOCKS
OTHERS




Search key DIT-SK

- Turn the dial to lock/unlock.
- One-touch installation.
- Able to switch to Changing Mode or Fixing Mode:
  Changing Mode - Changing the key number according to users.
  Fixing Mode - Applied the same number as registered.
- Possible to search the number to unlock with Search Key (sold separately).
- Without-latch type also available as special order.
- Possible to engrave any number on body above the dial.

## Application

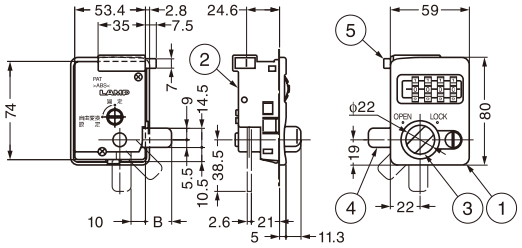
- Lockers in public space

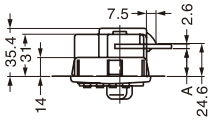
## Remarks

- Use bracket when applying to wood board (available at surcharge).
- First dial number is "0000".
- Adjust number along the centre line to avoid malfunction.

## Optional Parts

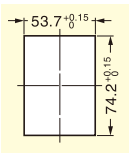
- Search Key DIT-SK



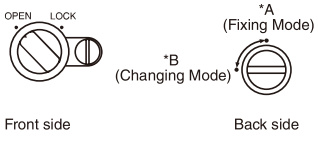

| A | B |
|---|---|
| 21 | 19.5 |

## Cut Out Dimensions

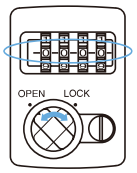



| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | ABS | White |
| ② | Case | ABS | White |
| ③ | Knob | ABS | White |
| ④ | Cam | Steel | Yellow Zinc Chromate |
| ⑤ | Latch | Polyacetal (POM) | White |

## Changing Mode

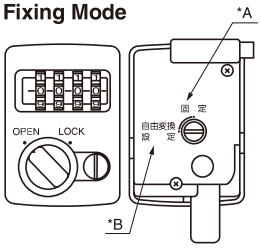



1. Turn the knob to "OPEN" on front side.
   Turn the slot to *B on back side.

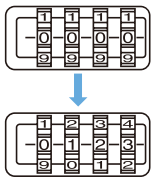



2. Set new number and turn the knob to "LOCK" on front side.

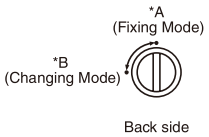
## Fixing Mode




1. Turn the knob to "OPEN" on front side.
   Turn the slot to *B on back side.
   *Before setting new number, please open the door.

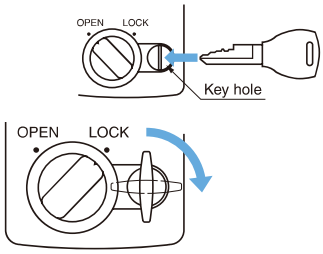


2. Set new number.

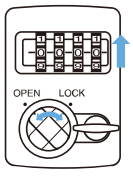



3. Turn the slot to *A on back side.

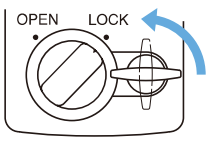
## How to Search Dial Number



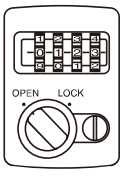

1. Insert Search Key and turn clockwise.




2. Turn each dials till click (the number clicked is your dial number).




3. Turn Search Key counter-clockwise and remove.




4. Turn the knob to "OPEN" to unlock.

## Body

| Item Code | Item Name | Door Thickness | Weight | Carton |
|---|---|---|---|---|
| 150-014-156 | DIT-19 | 0.8 | 162 g | 80 pcs |

## Search Key (Sold Separately)

| Item Code | Item Name | Weight |
|---|---|---|
| 150-014-157 | DIT-SK | 11 g |



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP DOUBLE SLIDING DOOR LOCK 0650N NEW

Latest Info





| Application | Door Material | Key Changes | Master Key | When Unlocked | Total Lock |
|---|---|---|---|---|---|
| Double Sliding Door | Wood | 96 | –* | Key removable | – |

*Special order

- The door can be locked by turning the deadbolt with the key.
- Designed with a subtle appearance when viewed from the front.
- Installed on the rear side of the door, making it compatible even with thicker doors.

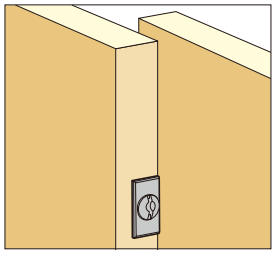
## Recommended Screws

- Cross recessed countersunk tapping screw nominal 3

## Remarks

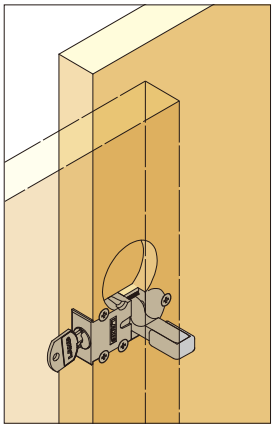
- Plywood is recommended for the door material.

## Installation Image

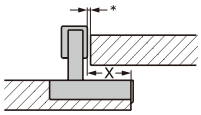


Subtle design

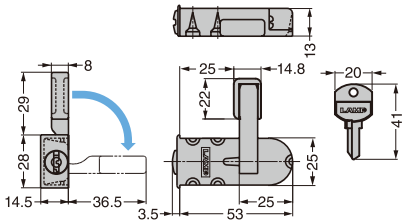
## Backside



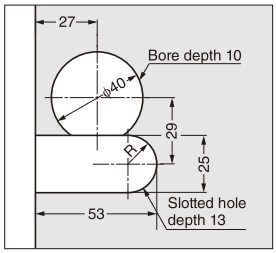
## Application Example




X = Bolt dimension
* = Play dimension (2 - 3mm is suitable)




## Cut Out Dimensions for Back of Door




| Item Code | Item Name | Key Type | Finish | X |
|---|---|---|---|---|
| 150-050-794 | 0650N-53R-B | Key Different | Nickel | 25 |
| 150-001-085 | 0650N-53R-D | Key Alike | | |



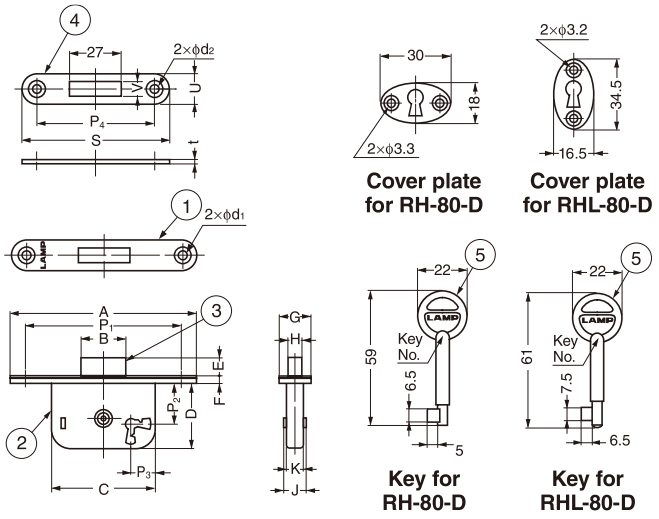
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP DEAD BOLT LOCK RH-80-D, RHL-80-D Rounded Edge

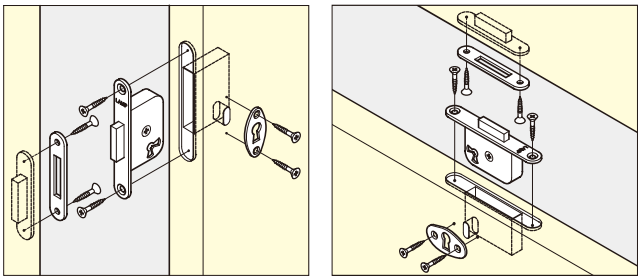
Latest Info




- Front plate material: RH-80 - SUS304, RH-80-D - brass.
- 3 key changes available.
- Able to lock from both sides of the door.
- Direction of the key hole on cover plate can be changed at surcharge.




## Installation



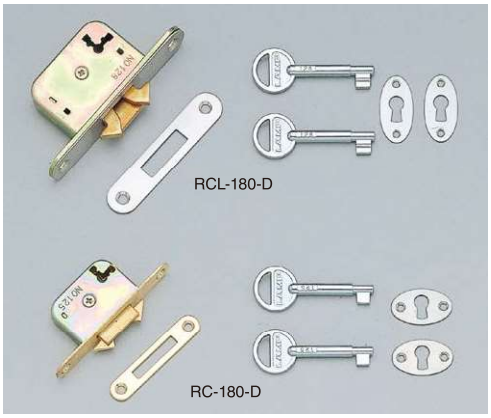
| Item Code | Item Name | Key Type | Weight | Box | Carton |
|---|---|---|---|---|---|
| 150-001-129 | RH-80-D | Key Alike | 41 g | 12 pcs | 204 pcs |
| 150-001-131 | RHL-80-D | Key Alike | 92 g | 12 pcs | 120 pcs |

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Front Plate | Stainless Steel (SUS304) (RHL-80-D) | Satin |
| ① | Front Plate | Brass (RH-80-D) | Satin |
| ② | Body | Steel | Yellow Zinc Chromate |
| ③ | Dead Bolt | Brass | – |
| ④ | Strike | Stainless Steel (SUS304) (RHL-80-D) | Satin |
| ④ | Strike | Steel (RH-80-D) | Brass |
| ⑤ | Key | Zinc Alloy (ZDC) | Chrome |

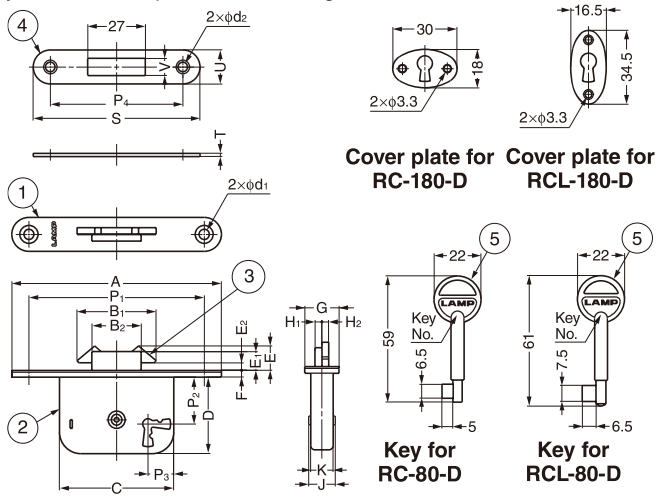
| | A | B | C | D | E | F | G | H | J | K | $P_1$ | $P_2$ | $P_3$ | $d_1$ | S | t | U | V | $P_4$ | $d_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH-80-D | 78.3 | 22 | 40.4 | 26.5 | 6 | 1.5 | 11 | 4 | 9.5 | 9 | 67 | 16.5 | 8.5 | 3.5 | 57 | 1.6 | 11 | 5 | 46 | 3.5 |
| RHL-80-D | 98 | 23 | 53.4 | 35 | 9 | 3.1 | 16 | 6.5 | 11.5 | 10.5 | 82 | 22 | 12.5 | 4.7 | 78 | 1.5 | 16 | 8 | 62 | 4.5 |

# LAMP DEAD BOLT LOCK RC-180-D, RCL-180-D Rounded Edge

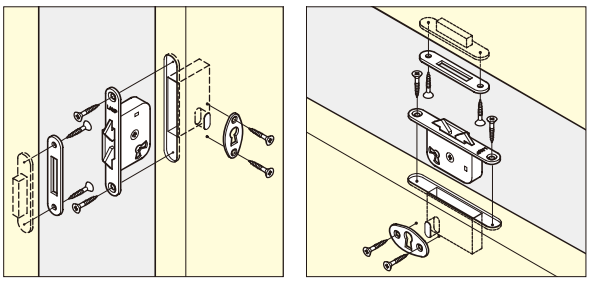
Latest Info




- Front plate material: RC-180-D - SUS304, RC-180-D - brass.
- Ideal for sliding door.
- 3 key changes available.
- Able to lock from both sides of the door.
- Direction of the key hole on cover plate can be changed at surcharge.




## Installation



| Item Code | Item Name | Key Type | Weight | Box | Carton |
|---|---|---|---|---|---|
| 150-001-137 | RC-180-D | Key Alike | 42 g | 12 pcs | 204 pcs |
| 150-001-139 | RCL-180-D | Key Alike | 93 g | 12 pcs | 120 pcs |

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Front Plate | Stainless Steel (SUS304) (RCL-180-D) | Satin |
| ① | Front Plate | Brass (RC-180-D) | Satin |
| ② | Body | Steel | Yellow Zinc Chromate |
| ③ | Dead Bolt | Brass | – |
| ④ | Strike | Stainless Steel (SUS304) (RCL-180-D) | Satin |
| ④ | Strike | Steel (RC-180-D) | Brass |
| ⑤ | Key | Zinc Alloy (ZDC) | Chrome |

| | A | $B_1$ | $B_2$ | C | D | E | $E_1$ | $E_2$ | F | G | $H_1$ | $H_2$ | J | K | $P_1$ | $P_2$ | $P_3$ | $d_1$ | S | T | U | V | $P_4$ | $d_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RC-180-D | 78 | 35 | 22 | 40.4 | 26.5 | 9 | 6 | 2 | 1.5 | 11 | 2 | 2 | 9.5 | 9 | 67 | 16.5 | 8.5 | 3.5 | 57 | 1.6 | 11 | 5 | 46 | 3.5 |
| RCL-180-D | 98 | 37 | 23 | 53.4 | 35.8 | 11.4 | 8.8 | 3.5 | 3.1 | 16 | 3.2 | 3.2 | 11.2 | 10.5 | 82 | 22 | 12 | 4.7 | 78 | 1.5 | 16 | 8 | 62 | 4.5 |


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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PUSH LOCKS
CAM LOCKS
OTHERS

# Lock

## Surface mount

7810K (P.1242)



## Recessed mount with handle

HC-3051-CLD (P.418)



# Latch

## Surface mount

HC-70 (P.415)



HHC-85 (P.416)



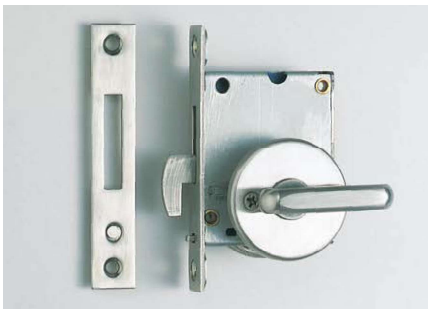


## Recessed mount

HC-30R (P.413)



HC-30HL (P.415)









## Recessed mount with handle

HC-3051-PRV·IND·DSL (P.418)









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- New Product Information
- CAD Data (2D, 3D)
- Customer Solution Case Studies
- Product Videos
- Hardware Basics
- Selection Tools

# Technical Information

1364 | TEST METHODS
1366 | SURFACE TREATMENT
1367 | MATERIALS
1368 | DOOR WEIGHT TABLE

September 2024

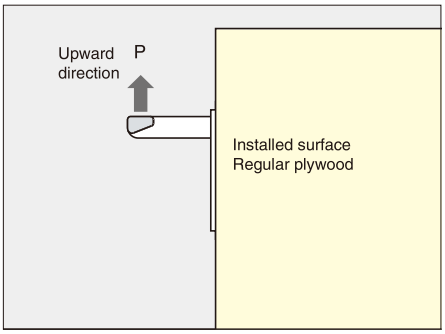
# TEST METHODS

## ■Test Methods

In this catalogue, various values about products with TEST METHOD icon in the product specification columns are determined by the tests as described below. Values are to provide guidance for the safe use of our products.

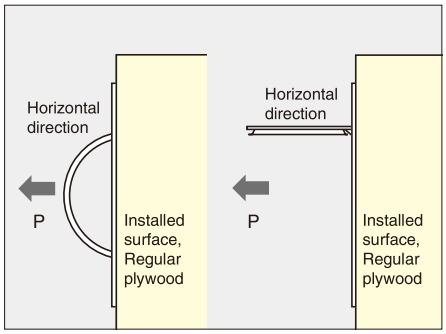
Product without TEST METHOD icon may not be based on these criteria in some cases.

### TEST METHOD 1 HANDLE LOAD CAPACITY TEST



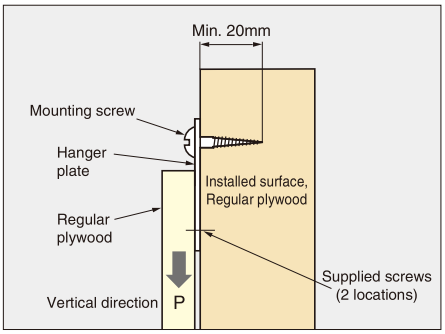

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

### TEST METHOD 2 HANDLE, PULL, HOOK LOAD CAPACITY TEST



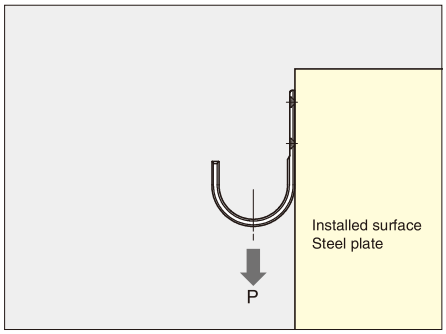

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
Product may fail or distort if the force is applied in a direction other than the frontal direction. Please do not use on application other than in the pull direction.

### TEST METHOD 3 HANGING-LOAD CAPACITY TEST



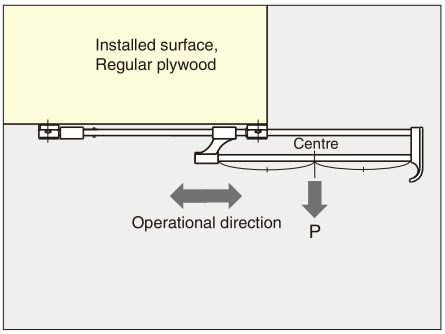

The hanging-load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure. This value will vary according to the diameter / length of the screw(s) used and strength of the installed surface.
Hanging load of 10 kgf, in case of using round head wood screw 3.8 x 25.

### TEST METHOD 4 HOOK LOAD CAPACITY TEST



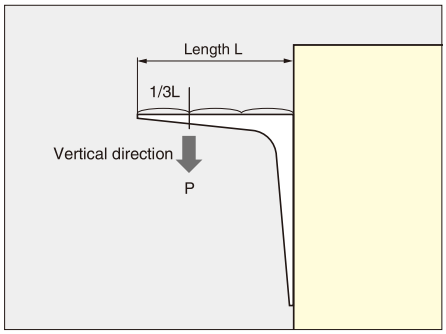

Under the conditions shown in the figure, a force (P) is gently applied to the centre of the hanging part in the vertical direction. The indicated load capacity value is about one-third of the limit load value (safety factor: 3). Therefore, this safety factor changes depending on the usage conditions. If you use it under adverse conditions, please be sure to check the actual product.

### TEST METHOD 5 MAXIMUM HANGING-LOAD TEST



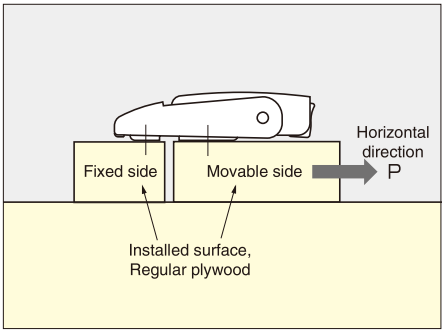

The maximum hanging-load capacity is measured when the force (P) is gently applied in the direction of the arrow and operated under the condition indicated by the figure. If the load is concentrated at the front tip of the hanger, the front tip may sag or the movement may become heavy.

### TEST METHOD 6 BRACKET LOAD CAPACITY TEST



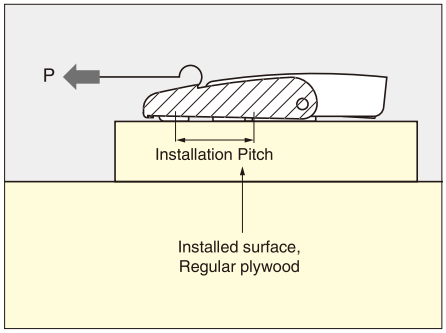

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
(This is based on the force (W) applied at the centre of the shelf board with its length 4/3 times longer than the shelf bracket or angle bracket.)

### TEST METHOD 7 FASTENER LOAD CAPACITY TEST



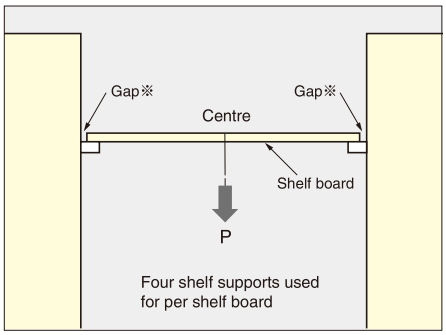

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

### TEST METHOD 8 CLAMPING FORCE TEST UNDER STANDARD INSTALLATION




The capacity of the clamping force under standard installation is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure, and when the shaded portion begins to slide.

## TEST METHOD 9 DOWEL, SHELF STANDARD LOAD CAPACITY TEST



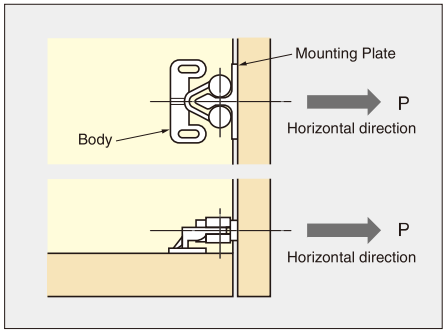

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
Follow the conditions below to prevent the shelf supports or shelf board from falling off.

Condition 1 The gap (※) between the shelf board and the side board shall be 1mm or less.
※ The gap between the shelf board and the shelf standard if shelf support is installed on a shelf standard.

Condition 2 Use shelf board which has sufficient durability.

Condition 3 The mounting hole processing dimension of the shelf dowel shall be less than the recommended mounting hole dimension.
(The processing dimension may vary depending on the material of the side board.

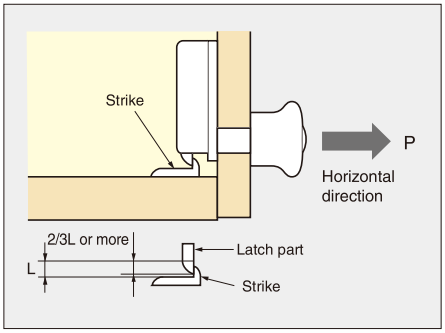
## TEST METHOD 10 CATCH FORCE TEST




The catch force is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

Note: Misalignment of the mounting plate and body parts may cause the catch force to decrease or parts failure.

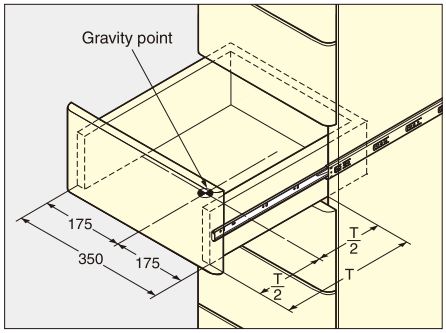
## TEST METHOD 11 RETAINING FORCE TEST




The retaining force is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

Note: Latch and strike must be engaged at least 2/3L or more (see the figure).

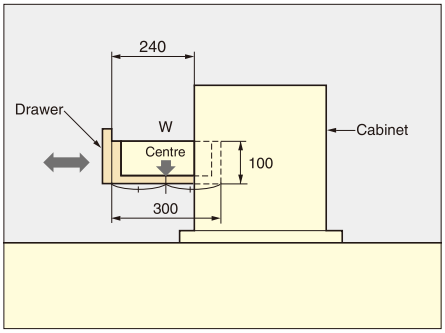
## TEST METHOD 12 DRAWER SLIDE LOAD CAPACITY TEST




Calculation of slide centre of gravity

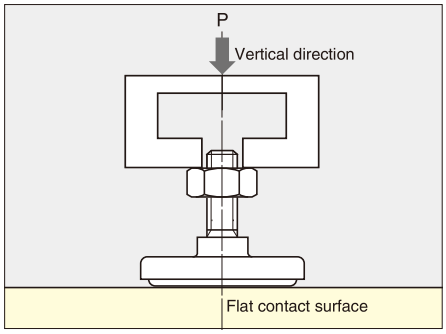
The load capacity is measured based on the condition:
- Continuous open-close: 50,000 cycles
- Speed: 10 cycles per minute
- Load is applied on the gravity point. The figure of load capacity includes drawer itself.
- Drawer width: 350mm

## TEST METHOD 13 DRAWER SLIDE LOAD CAPACITY TEST



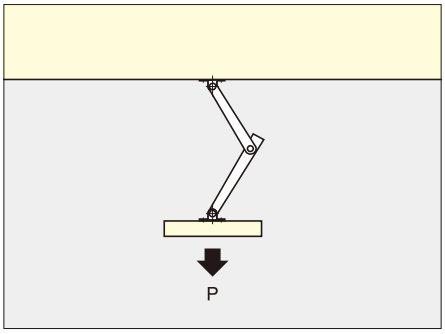

The load capacity is measured when the weight (W) is applied at the centre of the drawer under the condition indicated by the figure and the operation to pull out the drawer by 240mm is repeated. The gap between drawer and cabinet shall be 1 mm or less.

## TEST METHOD 14 LEVELLING GLIDE LOAD CAPACITY TEST



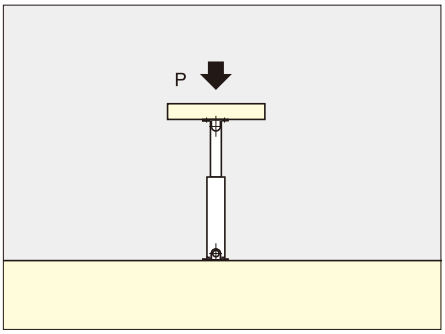

The load capacity is measured when the force (P) is applied in the direction of the arrow under the condition indicated in the figure.
Product may break or distort if the contact surface is not flat.

## TEST METHOD 15 PULL LOAD TEST




The pull load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

## TEST METHOD 16 COMPRESSION LOAD TEST



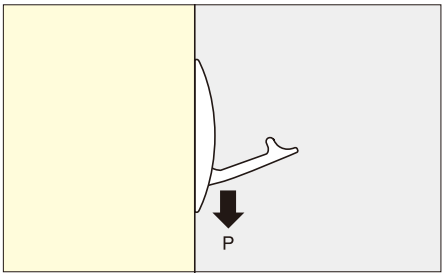

The compression load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

## TEST METHOD 17 PERMISSIBLE LOAD OF FASTENER

Permissible load kgf = Ultimate Load ÷ 3

The safety factor will vary depending on the conditions of use.
When used under adverse conditions, please test the fastener in intended application.

## TEST METHOD 18 HOOK LOAD CAPACITY TEST

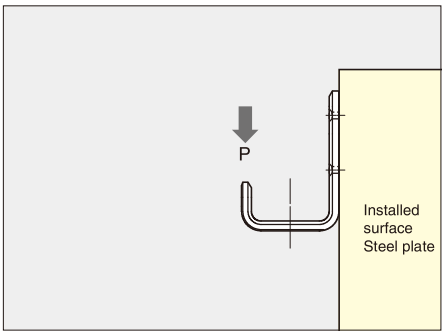



The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

Load capacity kgf = Ultimate Load ÷ 3

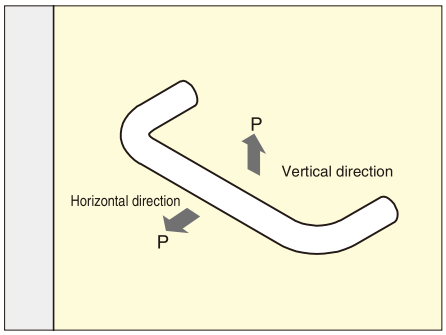
However, the safety factor will vary depending on the conditions of use.
When used under adverse conditions, please test the hook in intended application.

## TEST METHOD 19 HOOK LOAD CAPACITY TEST




Under the conditions shown in the figure, a force (P) is gently applied in the vertical direction. The indicated load capacity value is one-third of the limit load value (safety factor: 3). Therefore, this safety factor changes depending on the usage conditions. If you use it under adverse conditions, please be sure to check the actual product.

## TEST METHOD 20 HANDLE LOAD CAPACITY TEST




Under the conditions shown in the figure, a force (P) is gently applied in the vertical and horizontal directions. The load capacity is a value that indicates the strength of the handle itself. Install it on something with sufficient strength or reinforcement.

# SURFACE TREATMENT

| Finish | Characteristics |
|---|---|
| Zinc Plating | Zinc plating is commonly used on steel to prevent oxidation. Chromate is generally applied over zinc to enhance corrosion resistance. |
| Chromate Conversion Coating | Major coating mainly applied on parts after zinc plated or cadmium plated. Parts are immersed in a solution mainly consisting of chromic acid or heavy chromic acid to create the coating. This is used to improve corrosion resistance and appearance of metals, metal colouration, and is also used as a pre-treatment for painting. Various chromate coatings are developed such as yellow chromate (rainbow colour), clear chromate, black chromate, green chromate, etc. |
| Chrome Plating | Common electroplating for various industrial purposes. Reflective finish can be achieved by polishing. High hardness and good corrosion resistance along with thermal resistance, abrasion resistance and good adhesion characteristics. Generally used as final finish for various decorative parts and products due to its uniquely deep colouration. |
| Nickel Plating | Nickel is commonly used for decorative and anti-corrosion purpose because of its stability against air or humidity compared to iron. However, since the surface of the nickel plating will slightly discolour through exposure to air, chrome is often used after nickel to keep the finish/colour. Nickel plating has moderate hardness / corrosion-resistance and widely used on industrial application. |
| Alumite or Anodising (Anodic Oxidation Film Processing) | Also called the “anodic oxidation film processing”. This process thickens and toughens natural oxide layer on metal, commonly applied to aluminium for corrosion resistance and dyeing. In aluminium anodising, aluminium object serves as the anode (the positive electrode) when electrolysed in the sulfuric acid. This will create a layer of porous oxide film which has high electric insulation and abrasion resistance. The film is normally transparent when it is thin, although it becomes dull as the thickness increases.The pores produced by anodising are closed by a process called sealing, which is done by high-pressurised or boiling-hot deionised water. This process fills the pores and creates a thin layer that is corrosion resistant, suitable for various aluminium parts / products. |

※Hexavalent-Chromium (CR6) Free

Sugatsune is strictly controlling the use of chemicals that would adversely impact the environment. We are designing and developing products with minimum use of materials which has adverse environmental impact. Hexavalent chromium compound is especially known for its adverse effects on the human body. We are actively substituting this Hexavalent-chromium (CR6) with the environment friendly Trivalent-chromium (CR3).

# MATERIALS

In this catalogue, materials are indicated below. (For some items, only the materials of main parts are shown due to space limitations)

## Irons and Steels

| Material | Name |
|---|---|
| Steel | Iron-based screw, washer, etc. |
| Steel (SS) | Rolled steel for general structure |
| Steel (S※※C) | Carbon steel for machine structural use (Enter number for ※) |
| Steel (SECC) | Electrogalvanised steel sheet and steel strip |
| Steel (SF) | Carbon steel forging |
| Steel (SGCC) | Hot-dip galvanised steel sheet and steel strip |
| Steel (SK) | Carbon tool steel |
| Steel (SPCC) | Cold-rolled steel sheet and steel strip |
| Steel (SPHC) | Hot-rolled mild steel sheet and steel strip |
| Steel (SUM) | Sulfur and sulfur-composite free cutting steel |
| Steel (SUP) | Spring steel |
| Steel (SW) | Hard steel wire |
| Steel (SWP) | Piano wire |
| Steel (SWRH) | High carbon steel wire rod |
| Steel (SWRM) | Low carbon steel wire rod |
| Steel (SWCH) | Carbon steel for cold heading |
| Cast Iron (FC) | Grey iron casting |
| Stainless Steel | Stainless steel screw, washer, etc. |
| Stainless Steel (SUS301) | Austenitic stainless steel |
| Stainless Steel (SUS303) | Austenitic stainless steel |
| Stainless Steel (SUS304) | Austenitic stainless steel |
| Stainless Steel (SUS316, SUS316L) | Austenitic stainless steel |
| Stainless Steel (SUS420) | Martensitic stainless steel |
| Stainless Steel (SUS430) | Ferritic stainless steel |
| Stainless Steel (SUS440) | Martensitic stainless steel |
| Stainless Steel (SUS631) | Precipitation hardening stainless steel |
| Stainless Steel (SCS13) | Stainless steel casting |
| Stainless Steel (SCS14) | Stainless steel casting |

## Non-ferrous Metals

| Material | Name |
|---|---|
| Aluminium Alloy | — |
| Aluminium Alloy (ADC) | Aluminium alloy die casting |
| Aluminium Alloy (AC) | Aluminium alloy casting |
| Zinc Alloy | — |
| Zinc Alloy (ZDC) | Zinc alloy die casting |
| Zinc Alloy (BRIC) | A kind of zinc alloy die casting |
| Brass | — |
| Free Cutting Brass | — |
| Phosphor Bronze | — |
| Phosphor Bronze for Spring | — |
| Nickel Silver | — |
| Copper Alloy Casting (CAC) | — |
| Magnesium Alloy (MDC) | Magnesium alloy die casting |
| Titanium Alloy | — |

## Magnets

| Material | Name |
|---|---|
| Ferrite | — |
| Neodymium | — |
| Samarium Cobalt | Samarium-cobalt |
| Alnico | — |

## Plastics

| Material | Name |
|---|---|
| ABS Resin | Acrylonitrile butadiene styrene |
| AES Resin | Acrylonitrile ethylene propylene rubber styrene |
| AS Resin | Acrylonitrile styrene |
| Cellulose Acetate (CA) | — |
| Casein (CS) | — |
| Epoxy Resin (EP) | — |
| Ethylene Vinyl Acetate (EVA) | — |
| EVOH Resin | Ethylene vinyl alcohol |
| FRP | Unsaturated polyester + glass fibre |
| Melamine Resin (MF) | Melamine formaldehyde resin |
| Polyamide (PA) | — |
| Polycarbonate (PC) | — |
| Polyethylene (PE) | — |
| PEEK Resin | Polyether ether ketone |
| High Density Polyethylene (HDPE) | — |
| Chlorinated Polyethylene (CPE) | — |
| PBT Resin | Polybutylene terephthalate |
| PET Resin | Polyethylene terephthalate |
| Phenol resin (PF) | Phenol formaldehyde resin |
| Methacrylic Resin (PMMA) | Polymethyl methacrylate |
| Polyacetal (POM) | — |
| Polypropylene (PP) | — |
| PPO Resin | Polypropylene oxide |
| PPS Resin | Polyphenylene sulfide |
| PPE Resin | Polyphenylene ether |
| Polystyrene (PS) | — |
| High Impact Polystyrene (HIPS) | — |
| Polytetrafluoroethylene (PTFE) | Polytetrafluoroethylene |
| Polyvinyl Chloride (PVC) | Polyvinyl chloride |
| Polyimide (PI) | — |
| Polyamideimide (PAI) | — |
| Polyetherimide (PEI) | — |
| Silicone Resin (SI) | Silicone plastic |
| Urea Resin (UF) | Urea formaldehyde resin |
| Unsaturated polyester Resin (UP) | — |
| ~Elastomer | Elastomer |

## Rubbers

| Material |
|---|
| Natural Rubber (NR) |
| Styrene Butadiene Rubber (SBR) |
| Butadiene Rubber (BR) |
| Isoprene Rubber (IR) |
| Nitrile Rubber (NBR) |
| Chloroprene Rubber (CR) |
| Ethylene Propylene Rubber (EPDM) |
| Isobutylene Isoprene Rubber (IIR) |
| Urethane Rubber (UR) |
| Polyurethane Rubber (PUR) |
| Silicone Rubber (Q) |
| Fluoro Rubber (FKM) |
| Synthetic Rubber |

# DOOR WEIGHT TABLE

Door Weight Calculator

The below density is only for reference and it may differ depending on their material and specification.
For door sizes not listed in the table below, please use the Door Weight Calculator.

Calculation: Door Weight (kg) = Density (Specific Gravity) × Door Height (mm) × Door Width (mm) × Door Thickness (mm) ÷ 1,000,000

## Wooden Door Weight (kg)

| Door Type | MDF (Density 0.8) | | | | | Particle Board (Density 0.6) | | | | | Plywood (Density 0.6) | | | | | Flush (Density 0.5) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Door Thickness mm / Door Size mm | 16 | 19 | 22 | 25 | 35 | 16 | 19 | 22 | 25 | 35 | 16 | 19 | 22 | 25 | 35 | 16 | 19 | 22 | 25 | 35 |
| 300× 400 | 1.5 | 1.8 | 2.1 | 2.4 | 3.4 | 1.2 | 1.4 | 1.6 | 1.8 | 2.5 | 1.2 | 1.4 | 1.6 | 1.8 | 2.5 | 1.0 | 1.1 | 1.3 | 1.5 | 2.1 |
| 300× 500 | 1.9 | 2.3 | 2.6 | 3.0 | 4.2 | 1.4 | 1.7 | 2.0 | 2.3 | 3.2 | 1.4 | 1.7 | 2.0 | 2.3 | 3.2 | 1.2 | 1.4 | 1.7 | 1.9 | 2.6 |
| 300× 600 | 2.3 | 2.7 | 3.2 | 3.6 | 5.0 | 1.7 | 2.1 | 2.4 | 2.7 | 3.8 | 1.7 | 2.1 | 2.4 | 2.7 | 3.8 | 1.4 | 1.7 | 2.0 | 2.3 | 3.2 |
| 300× 700 | 2.7 | 3.2 | 3.7 | 4.2 | 5.9 | 2.0 | 2.4 | 2.8 | 3.2 | 4.4 | 2.0 | 2.4 | 2.8 | 3.2 | 4.4 | 1.7 | 2.0 | 2.3 | 2.6 | 3.7 |
| 300× 800 | 3.1 | 3.6 | 4.2 | 4.8 | 6.7 | 2.3 | 2.7 | 3.2 | 3.6 | 5.0 | 2.3 | 2.7 | 3.2 | 3.6 | 5.0 | 1.9 | 2.3 | 2.6 | 3.0 | 4.2 |
| 300× 900 | 3.5 | 4.1 | 4.8 | 5.4 | 7.6 | 2.6 | 3.1 | 3.6 | 4.1 | 5.7 | 2.6 | 3.1 | 3.6 | 4.1 | 5.7 | 2.2 | 2.6 | 3.0 | 3.4 | 4.7 |
| 300×1000 | 3.8 | 4.6 | 5.3 | 6.0 | 8.4 | 2.9 | 3.4 | 4.0 | 4.5 | 6.3 | 2.9 | 3.4 | 4.0 | 4.5 | 6.3 | 2.4 | 2.9 | 3.3 | 3.8 | 5.3 |
| 400× 500 | 2.6 | 3.0 | 3.5 | 4.0 | 5.6 | 1.9 | 2.3 | 2.6 | 3.0 | 4.2 | 1.9 | 2.3 | 2.6 | 3.0 | 4.2 | 1.6 | 1.9 | 2.2 | 2.5 | 3.5 |
| 400× 600 | 3.1 | 3.6 | 4.2 | 4.8 | 6.7 | 2.3 | 2.7 | 3.2 | 3.6 | 5.0 | 2.3 | 2.7 | 3.2 | 3.6 | 5.0 | 1.9 | 2.3 | 2.6 | 3.0 | 4.2 |
| 400× 700 | 3.6 | 4.3 | 4.9 | 5.6 | 7.8 | 2.7 | 3.2 | 3.7 | 4.2 | 5.9 | 2.7 | 3.2 | 3.7 | 4.2 | 5.9 | 2.2 | 2.7 | 3.1 | 3.5 | 4.9 |
| 400× 800 | 4.1 | 4.9 | 5.6 | 6.4 | 9.0 | 3.1 | 3.6 | 4.2 | 4.8 | 6.7 | 3.1 | 3.6 | 4.2 | 4.8 | 6.7 | 2.6 | 3.0 | 3.5 | 4.0 | 5.6 |
| 400× 900 | 4.6 | 5.5 | 6.3 | 7.2 | 10.1 | 3.5 | 4.1 | 4.8 | 5.4 | 7.6 | 3.5 | 4.1 | 4.8 | 5.4 | 7.6 | 2.9 | 3.4 | 4.0 | 4.5 | 6.3 |
| 400×1000 | 5.1 | 6.1 | 7.0 | 8.0 | 11.2 | 3.8 | 4.6 | 5.3 | 6.0 | 8.4 | 3.8 | 4.6 | 5.3 | 6.0 | 8.4 | 3.2 | 3.8 | 4.4 | 5.0 | 7.0 |
| 400×1100 | 5.6 | 6.7 | 7.7 | 8.8 | 12.3 | 4.2 | 5.0 | 5.8 | 6.6 | 9.2 | 4.2 | 5.0 | 5.8 | 6.6 | 9.2 | 3.5 | 4.2 | 4.8 | 5.5 | 7.7 |
| 400×1200 | 6.1 | 7.3 | 8.4 | 9.6 | 13.4 | 4.6 | 5.5 | 6.3 | 7.2 | 10.1 | 4.6 | 5.5 | 6.3 | 7.2 | 10.1 | 3.8 | 4.6 | 5.3 | 6.0 | 8.4 |
| 500× 600 | 3.8 | 4.6 | 5.3 | 6.0 | 8.4 | 2.9 | 3.4 | 4.0 | 4.5 | 6.3 | 2.9 | 3.4 | 4.0 | 4.5 | 6.3 | 2.4 | 2.9 | 3.3 | 3.8 | 5.3 |
| 500× 700 | 4.5 | 5.3 | 6.2 | 7.0 | 9.8 | 3.4 | 4.0 | 4.6 | 5.3 | 7.4 | 3.4 | 4.0 | 4.6 | 5.3 | 7.4 | 2.8 | 3.3 | 3.9 | 4.4 | 6.1 |
| 500× 800 | 5.1 | 6.1 | 7.0 | 8.0 | 11.2 | 3.8 | 4.6 | 5.3 | 6.0 | 8.4 | 3.8 | 4.6 | 5.3 | 6.0 | 8.4 | 3.2 | 3.8 | 4.4 | 5.0 | 7.0 |
| 500× 900 | 5.8 | 6.8 | 7.9 | 9.0 | 12.6 | 4.3 | 5.1 | 5.9 | 6.8 | 9.5 | 4.3 | 5.1 | 5.9 | 6.8 | 9.5 | 3.6 | 4.3 | 5.0 | 5.6 | 7.9 |
| 500×1000 | 6.4 | 7.6 | 8.8 | 10.0 | 14.0 | 4.8 | 5.7 | 6.6 | 7.5 | 10.5 | 4.8 | 5.7 | 6.6 | 7.5 | 10.5 | 4.0 | 4.8 | 5.5 | 6.3 | 8.8 |
| 500×1100 | 7.0 | 8.4 | 9.7 | 11.0 | 15.4 | 5.3 | 6.3 | 7.3 | 8.3 | 11.6 | 5.3 | 6.3 | 7.3 | 8.3 | 11.6 | 4.4 | 5.2 | 6.1 | 6.9 | 9.6 |
| 500×1200 | 7.7 | 9.1 | 10.6 | 12.0 | 16.8 | 5.8 | 6.8 | 7.9 | 9.0 | 12.6 | 5.8 | 6.8 | 7.9 | 9.0 | 12.6 | 4.8 | 5.7 | 6.6 | 7.5 | 10.5 |
| 500×1300 | 8.3 | 9.9 | 11.4 | 13.0 | 18.2 | 6.2 | 7.4 | 8.6 | 9.8 | 13.7 | 6.2 | 7.4 | 8.6 | 9.8 | 13.7 | 5.2 | 6.2 | 7.2 | 8.1 | 11.4 |
| 500×1400 | 9.0 | 10.6 | 12.3 | 14.0 | 19.6 | 6.7 | 8.0 | 9.2 | 10.5 | 14.7 | 6.7 | 8.0 | 9.2 | 10.5 | 14.7 | 5.6 | 6.7 | 7.7 | 8.8 | 12.3 |
| 500×1500 | 9.6 | 11.4 | 13.2 | 15.0 | 21.0 | 7.2 | 8.6 | 9.9 | 11.3 | 15.8 | 6.0 | 7.1 | 8.3 | 9.4 | 13.1 | 7.2 | 8.6 | 9.9 | 11.3 | 15.8 |
| 500×1600 | 10.2 | 12.2 | 14.1 | 16.0 | 22.4 | 7.7 | 9.1 | 10.6 | 12.0 | 16.8 | 7.7 | 9.1 | 10.6 | 12.0 | 16.8 | 6.4 | 7.6 | 8.8 | 10.0 | 14.0 |
| 500×1700 | 10.9 | 12.9 | 15.0 | 17.0 | 23.8 | 8.2 | 9.7 | 11.2 | 12.8 | 17.9 | 8.2 | 9.7 | 11.2 | 12.8 | 17.9 | 6.8 | 8.1 | 9.4 | 10.6 | 14.9 |
| 500×1800 | 11.5 | 13.7 | 15.8 | 18.0 | 25.2 | 8.6 | 10.3 | 11.9 | 13.5 | 18.9 | 8.6 | 10.3 | 11.9 | 13.5 | 18.9 | 7.2 | 8.6 | 9.9 | 11.3 | 15.8 |

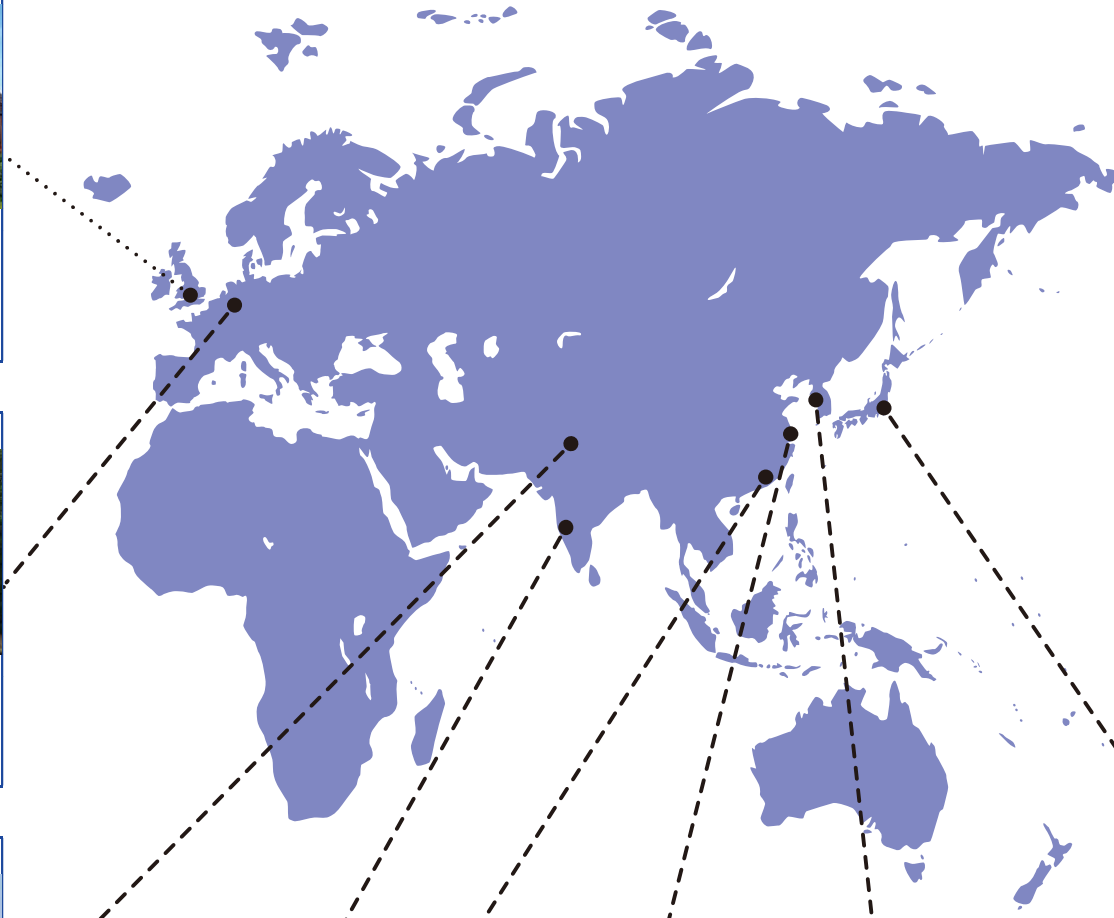
## Glass Door Weight (kg)

| Glass Door Thickness mm | 4 (Density 2.5) | | | | | | | 5 (Density 2.5) | | | | | | | 6 (Density 2.5) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Door Width mm / Door Height mm | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| 300 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 1.1 | 1.5 | 1.9 | 2.3 | 2.6 | 3.0 | 3.4 | 1.4 | 1.8 | 2.3 | 2.7 | 3.2 | 3.6 | 4.1 |
| 350 | 1.1 | 1.4 | 1.8 | 2.1 | 2.5 | 2.8 | 3.2 | 1.3 | 1.8 | 2.2 | 2.6 | 3.1 | 3.5 | 3.9 | 1.6 | 2.1 | 2.6 | 3.2 | 3.7 | 4.2 | 4.7 |
| 400 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 |
| 450 | 1.4 | 1.8 | 2.3 | 2.7 | 3.2 | 3.6 | 4.1 | 1.7 | 2.3 | 2.8 | 3.4 | 3.9 | 4.5 | 5.1 | 2.0 | 2.7 | 3.4 | 4.1 | 4.7 | 5.4 | 6.1 |
| 500 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 1.9 | 2.5 | 3.1 | 3.8 | 4.4 | 5.0 | 5.6 | 2.3 | 3.0 | 3.8 | 4.5 | 5.3 | 6.0 | 6.8 |
| 550 | 1.7 | 2.2 | 2.8 | 3.3 | 3.9 | 4.4 | 5.0 | 2.1 | 2.8 | 3.4 | 4.1 | 4.8 | 5.5 | 6.2 | 2.5 | 3.3 | 4.1 | 5.0 | 5.8 | 6.6 | 7.4 |
| 600 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 | 2.3 | 3.0 | 3.8 | 4.5 | 5.3 | 6.0 | 6.8 | 2.7 | 3.6 | 4.5 | 5.4 | 6.3 | 7.2 | 8.1 |
| 650 | 2.0 | 2.6 | 3.3 | 3.9 | 4.6 | 5.2 | 5.9 | 2.4 | 3.3 | 4.1 | 4.9 | 5.7 | 6.5 | 7.3 | 2.9 | 3.9 | 4.9 | 5.9 | 6.8 | 7.8 | 8.8 |
| 700 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.6 | 6.3 | 2.6 | 3.5 | 4.4 | 5.3 | 6.1 | 7.0 | 7.9 | 3.2 | 4.2 | 5.3 | 6.3 | 7.4 | 8.4 | 9.5 |
| 750 | 2.3 | 3.0 | 3.8 | 4.5 | 5.3 | 6.0 | 6.8 | 2.8 | 3.8 | 4.7 | 5.6 | 6.6 | 7.5 | 8.4 | 3.4 | 4.5 | 5.6 | 6.8 | 7.9 | 9.0 | 10.1 |
| 800 | 2.4 | 3.2 | 4.0 | 4.8 | 5.6 | 6.4 | 7.2 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 3.6 | 4.8 | 6.0 | 7.2 | 8.4 | 9.6 | 10.8 |
| 850 | 2.6 | 3.4 | 4.3 | 5.1 | 6.0 | 6.8 | 7.7 | 3.2 | 4.3 | 5.3 | 6.4 | 7.4 | 8.5 | 9.6 | 3.8 | 5.1 | 6.4 | 7.7 | 8.9 | 10.2 | 11.5 |
| 900 | 2.7 | 3.6 | 4.5 | 5.4 | 6.3 | 7.2 | 8.1 | 3.4 | 4.5 | 5.6 | 6.8 | 7.9 | 9.0 | 10.1 | 4.1 | 5.4 | 6.8 | 8.1 | 9.5 | 10.8 | 12.2 |
| 950 | 2.9 | 3.8 | 4.8 | 5.7 | 6.7 | 7.6 | 8.6 | 3.6 | 4.8 | 5.9 | 7.1 | 8.3 | 9.5 | 10.7 | 4.3 | 5.7 | 7.1 | 8.6 | 10.0 | 11.4 | 12.8 |
| 1000 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 3.8 | 5.0 | 6.3 | 7.5 | 8.8 | 10.0 | 11.3 | 4.5 | 6.0 | 7.5 | 9.0 | 10.5 | 12.0 | 13.5 |
| 1050 | 3.2 | 4.2 | 5.3 | 6.3 | 7.4 | 8.4 | 9.5 | 3.9 | 5.3 | 6.6 | 7.9 | 9.2 | 10.5 | 11.8 | 4.7 | 6.3 | 7.9 | 9.5 | 11.0 | 12.6 | 14.2 |
| 1100 | 3.3 | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 9.9 | 4.1 | 5.5 | 6.9 | 8.3 | 9.6 | 11.0 | 12.4 | 5.0 | 6.6 | 8.3 | 9.9 | 11.6 | 13.2 | 14.9 |
| 1150 | 3.5 | 4.6 | 5.8 | 6.9 | 8.1 | 9.2 | 10.4 | 4.3 | 5.8 | 7.2 | 8.6 | 10.1 | 11.5 | 12.9 | 5.2 | 6.9 | 8.6 | 10.4 | 12.1 | 13.8 | 15.5 |

# About Us

September 2024

# Global Network



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Montreal, Canada



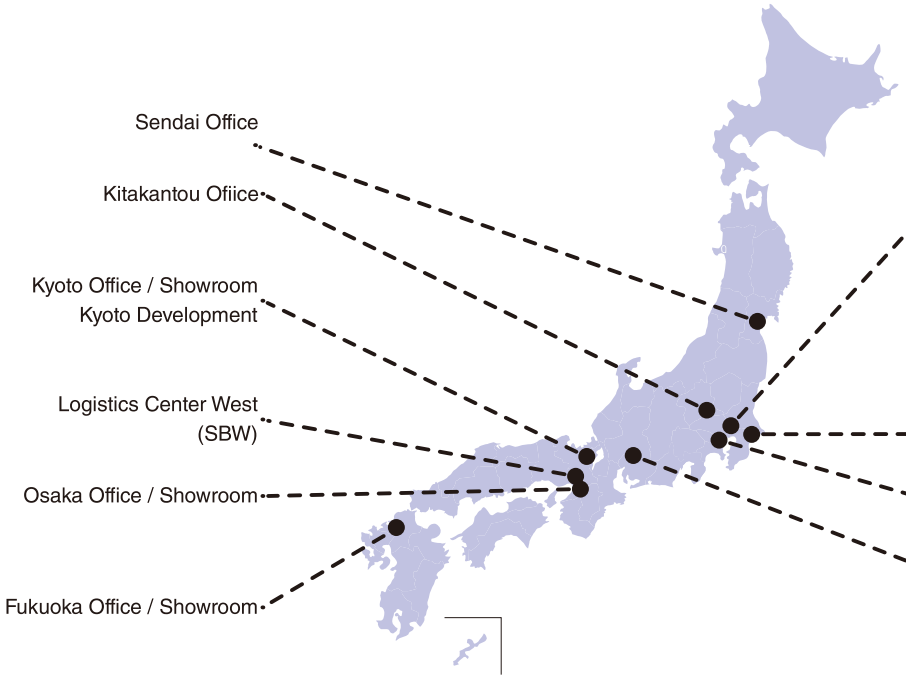
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1790 W Cortland Court, Addison,
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Fax : +1-630-519-4107

## Japan



Sendai Office
Kitakantou Ofiice
Kyoto Office / Showroom
Kyoto Development
Logistics Center West
(SBW)
Osaka Office / Showroom
Fukuoka Office / Showroom

Tokyo Head Office / Showroom
Tokyo Development

Export Department
1-8-11 Higashikanda, Chiyoda-ku
Tokyo 101-8633,Japan
Tel : +81-3-3866-2260
Fax : +81-3-3866-4447
E-mail : export@sugatsune.co.jp

Chiba Factory,
Chiba Development
Logistics Center(SBC)
Kanagawa Office
Nagoya Office / Showroom

# Sugatsune's History



The first home shop after the war (1946)

| | |
|---|---|
| 1930 | “Sugatsune Shoten” is founded by Tsunesaburo Sugasawara.Sells European style furniture hardware. |
| 1943 | The company changes its name to “Sugatsune Kogyo Co., Ltd.”, manufacturing metal accessories for communication until the end of the war. |
| 1949 | The company starts manufacture furniture hardware and architectural hardware. |
| 1968 | Capital is increased to 50 million yen. Shin-ohashi Sales Office is moved to the site of Tokyo Factory (Adachi-ku, Tokyo), and Adachi Sales Office is set up. |
| 1969 | Chiba Factory is constructed on the Trading Estate at Matsuo-cho in Chiba. This marked the beginning of mass production. |
| 1975 | Osaka Sales Office (current Osaka Branch) is opened. |
| 1982 | A logistics centre (S.B.C) with a floor area of 4,026m$^2$ is completed at the site of Chiba Factory.<br>Sugatsune America Inc. is established in the United States. |
| 1987 | Sugatsune Kogyo comes up with an original damper technology “Lapcon”. |
| 1992 | Sugatsune Kogyo’s President Sugasawara is presented with a Medal with a Blue Ribbon by the government of Japan.<br>A new logistics centre (S.B.C) with modern facilities is completed. (Floor area of 8,884m$^2$) |
| 1998 | Sugatsune Kogyo’s President Sugasawara receives Gold and Silver Rays, an Order of the Sacred Treasure.<br>A technical centre is built at the site of Chiba Factory.<br>Nagoya Sales Office is opened. The company registers for ISO 9001 certification. |
| 2004 | Sendai and Fukuoka sales offices are opened. An office and showroom are established in Shanghai, China. |
| 2005 | The largest showroom in the industry in Japan is opened at Iwamoto-cho, Chiyoda-ku, Tokyo. A large exhibition is held to commemorate the opening of the new showrooms in Tokyo and Osaka, and a new product presentation is held in Fukuoka and Sendai. Sugatsune UK is established in Great Britain.<br>Shanghai Office is changed to Sugatsune Shanghai. |
| 2006 | A showroom is opened in Nagoya, and an exhibition is held to commemorate the opening of the new showroom.<br>New head office building No.4 and No.5 are completed. |
| 2007 | A new building at logistics centre (S.B.C) is completed. (Floor area of 7,413m$^2$)<br>Nagoya Sales Office is moved from Naka-ku to Kita-ku. |
| 2009 | The product concept “Motion Design Tech” is presented for giving further motion functions to the “opening and closing of doors or lids”. |
| 2011 | Kanagawa Sales Office is opened.<br>Fukuoka Sales Office is moved and a showroom is opened.<br>A showroom and sales office are opened in Chicago by Sugatsune America. |
| 2012 | Kyoto Sales Office is opened. |
| 2013 | Kyoto showroom is opened. |
| 2015 | Sugatsune Kogyo India Private Limited is established in India. A showroom is opened in Mumbai, India.<br>A new logistics centre (SBW) is established in Osaka. |
| 2016 | Sugatsune Europe GmbH is established in Germany.<br>Sugatsune Canada, Inc is established in Canada. |
| 2017 | The Monoflat LIN-X1000 wins a Reddot award. |
| 2018 | Sugatsune UK changes locations. Private exhibitions displaying new products are held in Tokyo, Osaka and Nagoya. In total, exhibitions are held in 13 cities across Japan. Sugatsune EU opens a showroom in Düsseldorf. |
| 2019 | Sales office opens in Northern Kanto. The LDD-V100 door damper wins both the Red Dot design award and also the iF design award. The head office moves to a new location. |
| 2020 | Sugatsune Kogyo celebrated its 90th anniversary. |
| 2022 | Sugatsune Korea is established as a local subsidiary in South Korea. |

# Company Profile

| | |
|---|---|
| **Company Name** | Sugatsune Kogyo Co., Ltd. |
| **President** | Jun Sugasawara |
| **Headquarters** | Tokyo, Japan |
| **Founded** | February 11, 1930 |
| **Established** | November 20, 1943 |
| **Capital** | ¥400,000,000 |
| **Number of Employees** | 497 (January, 2024) |
| **Business Segment** | Furniture fittings, Architectural hardware, Decorative hardware, Various import hardware, Industrial components hardware, IT industrial components, Custom-made items, Lighting part metal, Furniture metal, Fixtures furniture |

**Business Partner Countries & Regions**

Sweden/Netherlands/Belgium/Spain/Portugal/France/Maltese/Monaco/Denmark/Sweden/Finland/Norway/Cyprus/Greece/Brazil/Argentina/Brazil/Argentina/Chile/Britain/Ireland/Germany/Italy/Austria/Oman/Bahrain/Jordan/Iran/Egypt/Qatar/India/Pakistan/SriLanka/Bangladesh/South Africa/Russia/Poland/Romania/Bulgaria/Estonia/Lithuania/Turkey/Israel/Lebanon/SaudiArabia/Kuwait/Australia/NewZealand/Indonesia/Singapore/Malaysia/Thailand/Myanmar/Vietnam/Philippines/Mongolia/China/HongKong/Taiwan/Korea

**Registration**

ISO 9001 : JSAQ384

ISO 14001 : JSAE597

(ISO 9001 : Sugatsune's bases in Japan,
ISO 14001 : Chiba Factory of Chiba Production Division and Logistics Centre of Logistics Division)

General Construction Business Licence No. :
Tokyo Metropolitan Governor Licence (General –25) No.140997

## The Origin of LAMP Brand

The initial trademark for LAMP goods was derived by the company's founder, Tsunezaburo Sugasawara, from the Japanese symbol for "ordinary" (常). By separating this character into its component pieces, he took this to symbolize "the use of fire," which he chose to designate as a metaphor for wisdom and courage. He visualized this concept as a lamp. He thought that Sugatsune goods may, even if only a little, "brighten" society. Sugatsune's reliable quality is still represented by the logo to this day.

HAND_LAMP Mark
Founding time ~ Around 1990

LAMP Mark
Around 1990 ~ Now

# Commitment to Quality and the Environment

All departments from planning, manufacturing to sales have a high awareness of quality, and through unremitting efforts, all the domestic bases in Japan have achieved ISO 9001 certification (registration No.: JSAQ384). We also actively engaged in environmental conservation activities, and achieved ISO 14001 certification (registration No.: JSAE597) at our development bases, namely Chiba Factory of Chiba Production Division and Logistics Centre of Logistics Division.

## Quality Management System ISO 9001 certification (certification/registration) approved

Quality Policy: I consider the fundamentals and pursue the essential and ideal.

Sugatsune America, Sugatsune Europe, and Sugatsune Shanghai are also ISO 9001 certified.

## Environmental Management System ISO 14001 certification (certification/registration) approved

# Connect with Us on Social Media

Watch our product videos, including instructional guides on our YouTube channel.

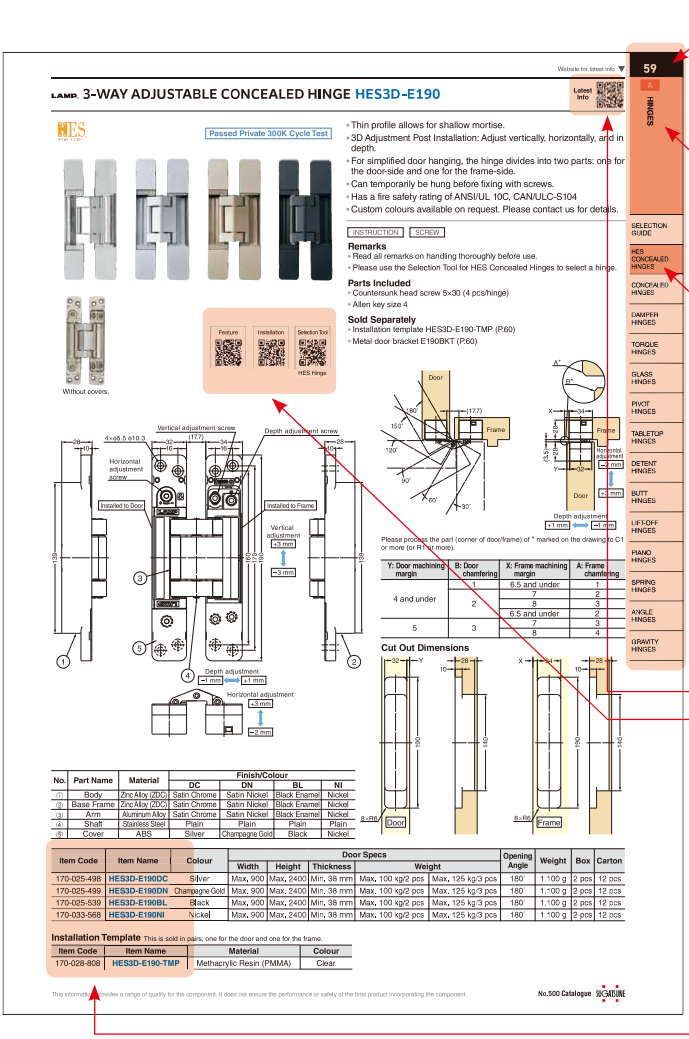
Sugatsune Global

Explore our product applications and stay updated on Instagram and Facebook.

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# Description of Main Text

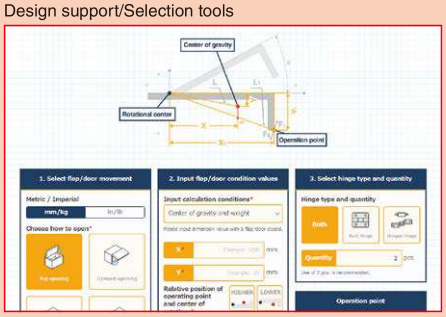



Viewable from the QR code.

Access website, videos and selection tools



Design support/Selection tools



With the selection tool Sasuga-kun, you can select the “Motion Design Tech” products meeting your requirements simply by entering values such as the size and weight of the lid or door. You can use it on our website.

| Item Code | Item Name | Col |
|---|---|---|
| 170-025-498 | HES3D-E190DC | Silv |
| 170-025-499 | HES3D-E190DN | Champag |
| 170-025-539 | HES3D-E190BL | Bla |
| 170-033-568 | HES3D-E190NI | Nic |

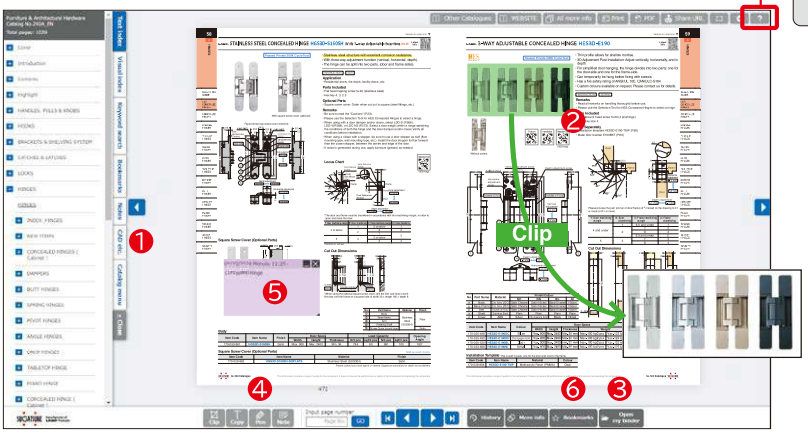
• Please specify the Item Name. and quantity when ordering.

## Online Catalogue Functions

**❶ CAD etc.**
Access product information easily.

**❷ Clip**
Download images within the dragged area.

**❸ MyBinder**
Register favourites to MyBinder to download multiple catalogues together as a single PDF.




*Screens may be changed.

See Help for other functions and operation methods.

**❹ Pen**
Draw arrows, add frames, or take notes on the catalogue as desired.

**❺ Note**
Enter notes. Display only pages with sticky notes affixed.

**❻ Bookmarks**
Register favourite pages for easier reference later.

## How to Use This Catalogue

- All items, unless specified, are made to exact metric dimension.
- Changes in dimensions, finishes, packing, etc., and suspension of production may occur without notice.
- Our liability is limited to the replacement of the merchandise.

## Defective Products

- While great care is taken in the manufacturing of our products, should a defect arise, contact the dealer. The warranty period is one year from the date of our invoice. Should a defect arise during the warranty period, we will replace the product in question with a functioning product within the range of our responsibility.

## Returns/Replacements/Post-Order Changes

- Returns and replacements will be handled upon confirming the actual product after customer consultation with a Sugatsune sales representative. Requests for returns or replacements must be made within 30 days of the date of our invoice.
  Please note that customers will be asked to cover handling charges for returns or replacements made at customer convenience.
- Please note that we may not be able to accommodate changes made after placing orders.

## Precautions for Mounting

- Improper installation may not only cause the product to malfunction but could also result in damage. Handle with care.
  For some products, installation manuals are included or available online. Read the manual thoroughly to ensure correct installation.
- Pay attention to any loosened mounting screws or fastening parts. Screws or fastening parts may loosen due to the mounting conditions or the usage environment. Such loosening may result in decreased functionality or damage to the mounted product, as well as potential injuries. To ensure safe usage, retighten periodically, even if thread-locker is applied to the screws. Generally, retighten one month after initial use, again six months thereafter, and approximately every year subsequently. Note that these guidelines apply to specific conditions and do not guarantee product quality or safety. Their applicability to the product is to be judged by the customer.

## Screws

- The included and recommended screws listed with the product conform to the former JIS standards.

## CAD Data (3D & 2D)

- Register as a member on our website to download CAD data. Additionally, we will verify the registered data, as membership is intended for designers.

## Product Information

- The information listed in this catalogue is current as of September 2024. Product prices, specifications, dimensions, colours, and other details may change without notice due to improvements or material price fluctuations; products may also be discontinued without notice. For the latest information, see our website.
- Due to the hard copy format, some specifications such as details of dimensions and shapes have been omitted.
  For more detailed information, please contact us.
- Many of the listed products include registered or pending designs, patents, and utility models.
- Due to the hard copy format, product colours may differ slightly from the actual products. Please refer to the actual product for accurate colour representation.
- The photographs and computer graphics in the catalogue are visualisations. Depending on the conditions, installation as shown may not be possible. Confirm before purchase.
- Data on specifications and performance, such as loads, weight, force, is listed for use as a guideline to product selection. The values shown are not guaranteed under all conditions.
- Product content listed in this catalogue indicates the quality range as parts. It does not guarantee the functionality, performance, or safety of the final product using these parts.
- Data when using our products with customer products may involve different figures depending on elements such as mounting accuracy, mounting method, temperature, humidity, dust, indoors/outdoors conditions, target product structure, material, size, installation conditions, and individual operation.
- For test content details, request a test report and confirm as needed.
- When using our products near the limits of the listed data, or when confirmation of safety or durability is required in order to prevent accidents, mount the actual product and confirm, or provide the most detailed possible explanation of the usage conditions to consult with us.
- With some exceptions, our products are furniture and architectural fittings for indoor use. Consult with a sales representative concerning use outdoors, near water, or in severe environments.
- Unauthorized reproduction of this catalogue is strictly prohibited.

## Display Content

### Material

For material notation, please see “Materials” on P.1367.

### Finish (surface treatment)

Finish notations are displayed with the following abbreviations due to limitations of space.

| Display | Finish |
|---|---|
| Bright Chromate | Zinc Plated Bright Chromate |
| Coloured Chromate | Zinc Plated Coloured Chromate |

Coloured chromate is characterized by sharply varying hues; this is not a defect.

#### ■Paint

Paint is displayed as follows. (e.g.) Powder Baked Enamel Paint/White

#### ■Colour Display

There may be multiple display methods for a single colour.

(e.g.) White may be indicated as W, WT, or WH.
Black may be indicated as B or BL.
Silver may be indicated as S or SL.

### Dimensional Units

The units for the listed dimensions are millimetres (mm) (unless otherwise stated).

### Dimensional Error

The machining process inevitably results in a degree of product error. Be sure to confirm with the actual product before use.

### Drawings

With some exceptions, drawings employ the third angle projection method. Due to limitations of space, some detailed dimensions, etc. may been omitted.

### Weight

Notations indicate the weight for one product or one set only.

### Load Capacity

The figures displayed for load capacity are examples of data we considered reliable and measured values in tests under conditions specified by us; they are not guaranteed values. As the values may vary depending on the usage method and application, be sure to make a selection upon confirmation of suitability for the application before use.

Units are shown in SI units based on the new measuring method, with MKS units also provided.

### Quantity

Quantity, when notated, is shown as below.

1 box: Quantity in one small box displayed.
1 carton: Quantity in one cardboard box displayed.


SUGATSUNE





September 2024