



PRODUCT CATALOGUE



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WHAT IS MIWA?

MIWA is a true lock maker who manufacture and control quality for every aspect of every lock, from start to finish. Our emphasis on research and development ensures you of the most advanced technology and materials. Headquartered in Tokyo, Japan, MIWA is a family-owned company comprised of 1,562 employees who are dedicated to your security needs.

Since 1945, MIWA Lock Company, Ltd. has grown to become Japan's foremost provider of high-performance locks and security systems. From the first offline electronic hotel locking system, to today's flagship product, MIWA sets the global standard for programmable lock technology. Our reputation for quality and reliability has made us the choice of leading hotel chains around the world.

WHY CHOOSE MIWA?

Having projects in over 6 countries worldwide, MIWA has positioned themselves as global leaders in providing the Tourism and Hospitality Industry with reliable and innovative Locking Systems.

1. High Security Software

- Encrypted key data with MIWA's unique algorithm
- Special card with hotel code is needed for first security handshake
- No worry to be hacked from lock bottom plug

2. Superb Mechanical Construction

- Extra smooth operation
- Low noise
- High durability. The ALV2 Series has a dual hub for superior durability, with separate HUB and individual spring.

3. Advanced technology

ANSI Certified, Grade 1 and passed the UL and BSEN fire test certification

4. Environmental friendly

We are working to prevent global warming in all stages of our operations, by aiming for longer product life in the development step, and improving the product cycle, both of which will reduce CO2 emissions. We have put forth a 30% reductions target, and are promoting the concept of reduce, reuse, and recycle. Additionally, legally mandated levels for BOD and COD in waste water are 120mg/l ; however we have achieved 10mg/l, and we are striving to reach 8mg/l. Activities such as these have been recognized by our receiving ISO14001 environmental management certification.

MIWA OFFLINE SYSTEM (ALV2) CATALOGUE

 MIWA
ALV2



ALV2 is the latest in a long line of electronic locking solutions from Miwa Lock and is designed specifically for today's busy hospitality industry. Using the latest in Radio Frequency Identification (RFID) technology the new locking system is attractive yet durable and easy for guests and staff to use.

The thirty plus years of experience are easy to detect when looking at this system. A hotel lock in today's world is no longer just a means for closing the guest room door but an important part in the overall running of a busy hotel. As the only piece of technology in your property that the guest has to use multiple times it is vitally important that it does its job effectively every time, without fail.

The mechanics and electronics of this lock are second to none having passed the prestigious ANSI 156.25 grade 1 electronic lock test, this also takes in the electronics too. The system has been designed to make it easy for your staff to use yet still have the features you need to run your hotel safely and securely.

WHY RFID?

RFID or Radio Frequency Identification gives the ALV2 locks the ability of reading and writing to the guest and staff cards without them touching the lock. Simply place the card within half an inch of the reader and the lock will open. This technology has several advantages over existing magnetic strip and smart card systems.

Ease of use

Without the need to insert or swipe the key card, guests of all ages will find the ALV2 lock more intuitive, the keycard can be offered to the lock from any direction.

Read and write

When a card is used to open a lock it can now be written to as well as read.

Guest cards - if a lock does not open when a guest card is used the reason for this is written on the card. This can be read by the staff in the hotel and problem can be immediately rectified.

Staff cards - Various information is added to the staff card every time it used to open a lock. This would include the room and time the lock was opened as well as the status of the batteries in each location.

Master key structure

With the use of RFID cards the master key structure for your staff can be configured to match your operating requirements. Each staff member can be issued a card that only gives them access to areas that their job demands. Should the need arise these can be changed on an individual basis, by you without the need to reprogram any of the locks.



Batteries

ALV2 uses just four standard alkaline batteries. The ALV2 lock has three ways to warn your staff of when lock batteries are low. First, the green light will flash when a staff card is used in the lock. If this is not sufficient, the lock can be programmed to make beep in the same situation. Furthermore, each time a staff member opens a lock, data is written onto their card. At the end of each day, the data can be read and provide you information on any locks that have low batteries. ALV2 is designed to interface to both PMS and POS solutions, using RS232 or TCP/IP key data can be automatically sent to the Miwa system making the check in procedure more efficient and eliminating key stroke errors.

Interfacing

ALV2 is designed to interface to both PMS and POS solutions, using RS232 or TCP/IP key data can be automatically sent to the Miwa system making the check in procedure more efficient and eliminating key stroke errors.

Other Systems

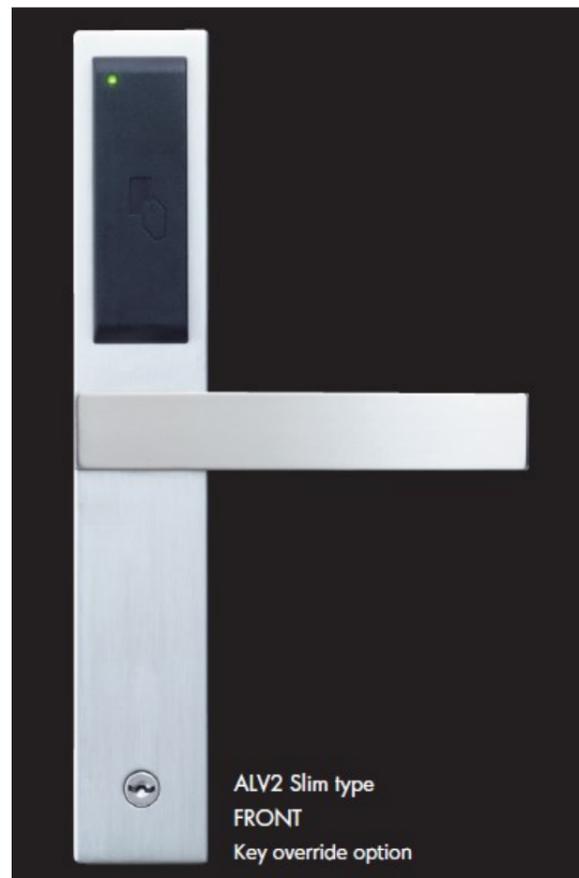
Miwa has a flexible software which allows user to share the cards used with ALV2 with other systems in your property. These could include systems such as time and attendance or even other access control systems.

Auditable Security

ALV2 can be audited from every angle. The system has been designed to enable your security and operations personnel complete control over the access to your property. The front desk system can be audited to see who has made staff or guest keys in the last 600 transactions and the staff keys also hold data on the last 140 locks they have been used in.

Other Systems

Whether your property is large or small the cost of a new locking system is still substantial. At Miwa we take this very seriously thus we build systems that last. We also realize that technology changes and advances, hence we have built a new system that can be used to upgrade our existing AL5H locks without the need to replace everything. The new ALV2 P type front escutcheons retro fit directly onto the existing lock case.



Card Control

As with all previous Miwa systems, new guest cards cancel old guest cards and each staff card can be cancelled should it become lost or stolen.

Key Types

Unlike magnetic cards, ALV2 offers several different options for keys as the proximity chip can be installed into several different forms. For example we are able to offer wrist bands for guests; these are worn and are useful in resort hotels where carrying a card is not always easy. Key fobs are also available which can be added to standard key rings or attached by a cord to the staff member's uniform.

BASIC FUNCTION OF ALV2 SYSTEM LOCK

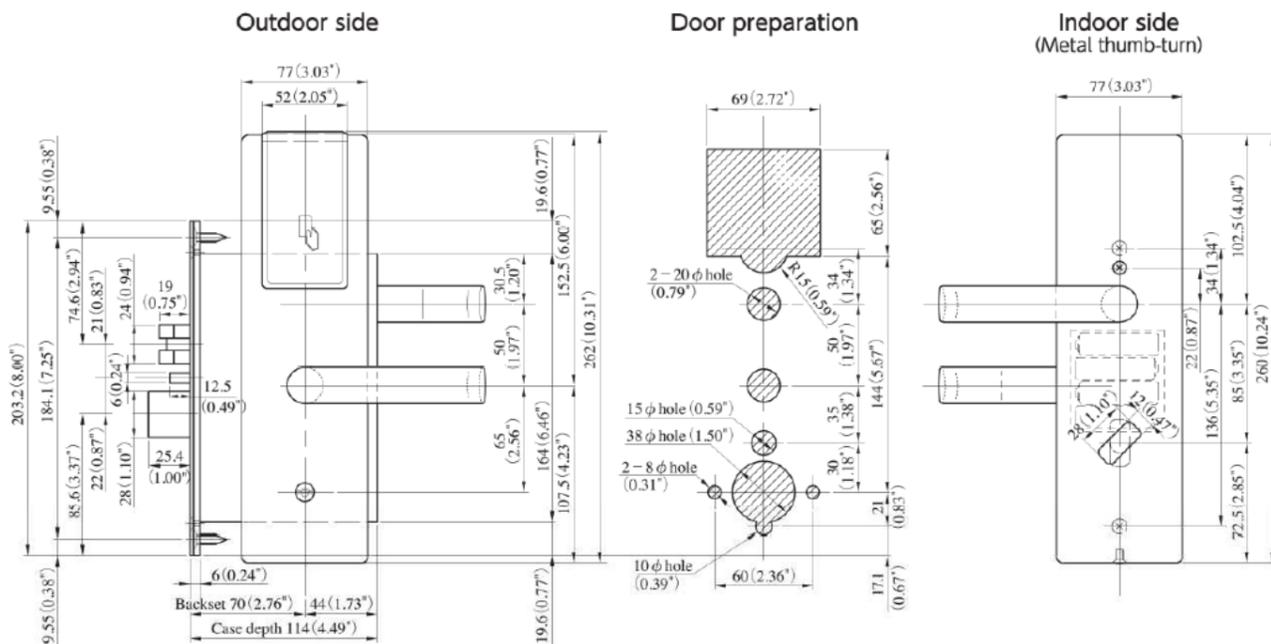
Reader Technology	RFID (Compatible with Near Field Communication (NFC))
Available Card	ISO 1443 (RFID) Type-A Mifare Standard (Classic) 4KB/1KB Miifare Ultralight 64B
Standard Handles	4 types
Escutcheon design	2 types
Finishes	5 finishes
Power Supply	4 AA Alkaline batteries
Interrogation logs (Audit trail lock events)	600 events (can be downloaded by DTU or IR card)
Mechanical key override	Optional (Can be recorded in interrogation logs)

Software

OS	Windows 7 Professional 32Bit
Auto backup function	Available
Staff ID	Up to 500 ID
Card encoder	Up to 30 encoders can be connected to one PC
PMS Interface/POS Interface	Available

MIWA OFFLINE SYSTEM PRODUCT RANGE

ALV2-P SERIES

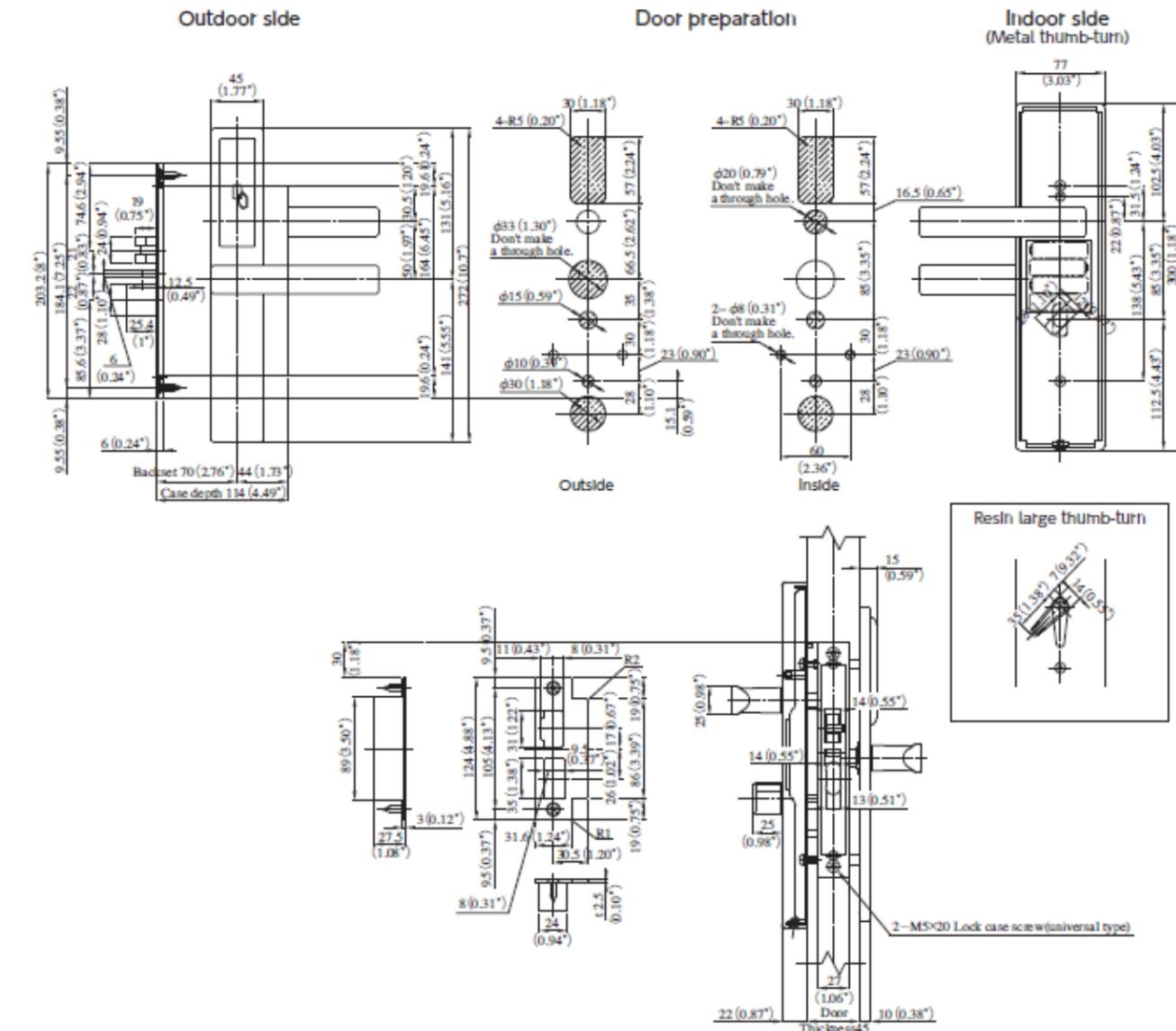


FEATURES AND SPECIFICATION

- Compatible with ALV2 system software.
- RFID Mifare Classic (ISO 1443 Type A) guest 1K & UL, staff 4K.
- NFC equipped for use with mobile devices.
- PMS and POS interface ready.
- Sealed electronics suitable for interior and exterior applications.
- ADA compliant levers and thumb-turn.
- UL fire listed up to 3 hours.
- FCC and CE certified compliant.
- Suitable for guest rooms, staff areas and common doors.
- 600 event's on lock audit
- Visual LED (green, red & yellow) with optional audible signal.
- 140 event's on staff credentials (keycard, fob, wrist band).
- Staff credentials have day-of-week and time-of-day programming.
- IrDA wireless programming—no cable connection or port on lock.
- Emergency card overrides deadbolt in use.
- Standard warranty three years, extended warranty plans available

PRODUCT DESCRIPTION

Product Name	ALV2-P
Product Number	Without cylinder
Mountable Handles	66 67 74 476 478
Cylinders (optional)	U9
Material / Finish	Satin Stainless Steel (grade 304) Polished Stainless Steel (grade 304) Satin Brass Polished Brass Mild Bronze
Power Supply	4-AA alkaline batteries, normal battery life two years
Door Thickness	1.38" to 2.17" (35mm to 55mm)
Backset	2-3/4' (70mm)
Lock Options	ANSI 156.25-2007 & ANSI 156.13-2005 certified compliant Anti-panic function - deadbolt and latch retract automatically Automatic deadbolt optional
Handing	Factory handed: left, right, left reverse, right reverse
Weight	Approx. 10 lbs.
Environmental Conditions	Operating temperature 32°F to 104°F (0°C to 40°C) Range of humidity: 35% to 85% RH IP44 certified compliant



FEATURES

Guest Room Lock

- ANSI Grade 1 (ANSI 156.25) electronic lock. UL tested and stamped.
- Full mortise with 1 inch deadbolt, 3/4 inch latch and anti pick mechanism.
- Dual technology works with RFID Mifare standard 1k and 4k Mifare credentials.
- Each guest card has the option to add up to 6 additional guest rooms, plus all common areas and special VIP areas.
- Guest cards can be programmed to open an individual lock or multiple locks within a property.
- System allows the option for guests and staff to use, cards, key fobs or wrist bands.
- Guest and standard staff cards cannot override deadbolt, visual signal given (flashing red light) if deadbolt in use. Emergency card overrides all locks where deadbolt is in use.
- Infra red programming and interrogation, no cable connection or data port on the lock.
- Last 600 transaction audit memory in the lock, last 140 transaction audit memory stored on all staff cards.
- ADA compliant levers and thumb-turn.
- Visual and audible low battery signal on staff cards only.
- Staff cards can be timed and set to operate on chosen days of the week.

Common areas, storage, offices, meeting rooms, non- guest rooms

- Locks can be programmed as common doors and non-guest doors.
- Locks can be programmed so guest cards can only work between set times.
- Locks can be programmed to automatically open between pre-determined times.
- Electronics are coated for exterior installation.
- Exterior steel and aluminum gate boxes are available.

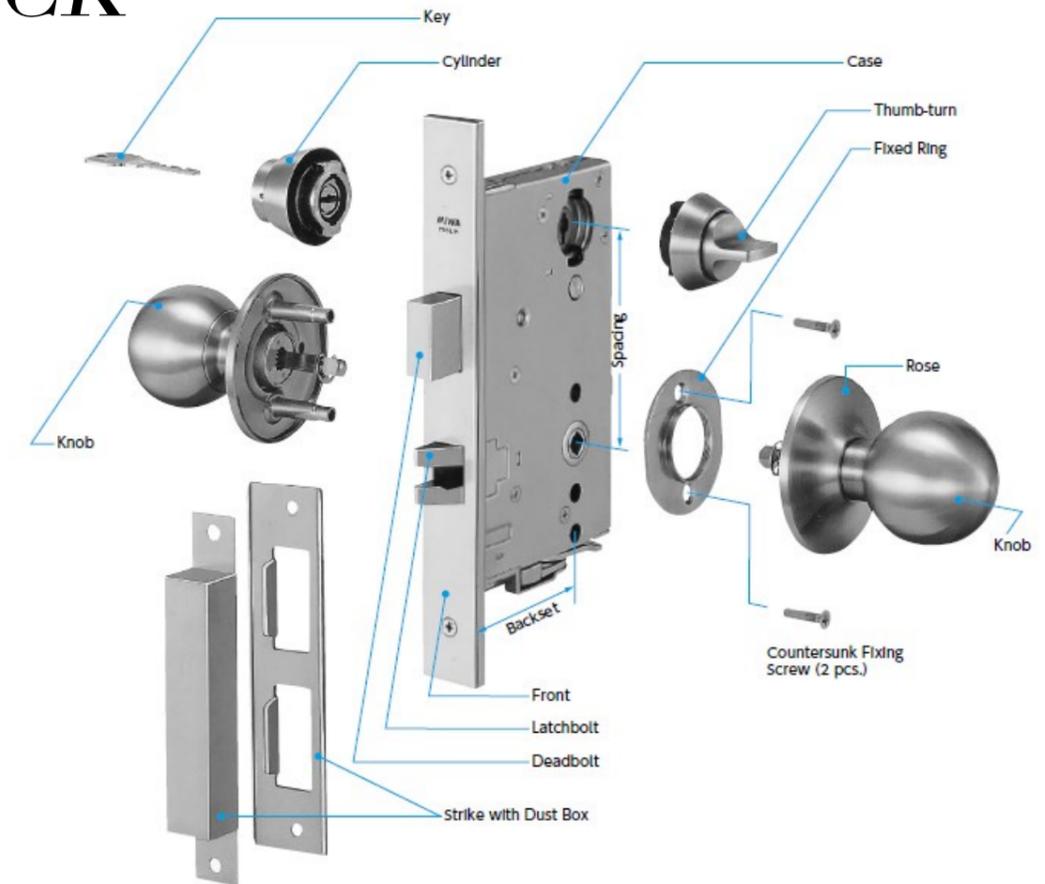
PRODUCT DESCRIPTION

Product Name	Hotel Card Lock
Product Num-	Without cylinder
Mountable Handles	66 67 74 476 478
Cylinders (optional)	U9
Material / Finish	Satin Stainless Steel (grade 304)
	Polished Stainless Steel (grade 304)
	Satin Brass
	Polished Brass
	Mild Bronze
Power Supply	4-AA alkaline batteries, normal battery life two years
Door Thickness	1.38" to 2.56" (35mm to 65mm)
Backset	2-3/4' (70mm)

MIWA MECHANICAL LOCKS CATALOGUE



WORKING PARTS OF A LOCK



Thumb-turn	On the inside of a door equipped with cylinder lock, connected to lock cam. Operates deadbolt.
Knob	Serves as handle, operates latchbolt.
Front	This is the surface of the mortice lock case which appears at the cut end of the door. It includes openings for latch bolt and deadbolt as well as holes for screws which secure it. A lock bolt which is activated by key or thumb-turn, is square on all edges, and has no spring behind.
Deadbolt	A lock bolt which is activated by key or thumb-turn, is square on all edges, and has no spring behind it.
Latchbolt	That part of a lock which, because of a spring device behind it, slides in and then springs out to hold a door in position when it is closed.
Strike	The plate recessed into the door jamb, into which deadbolt or latchbolt fits when the door is closed or locked.
Case	Contains major lock components; the mortise type fits into the door and the rim type is fastened to the surface of the door.
Cylinder	A removable unit on high-grade locks which contains the tumblers and receives only the correct key, which when turned operates the lock.
Backset	Horizontal distance from front surface of lock to the center of knob or cylinder.
Spacing	Vertical distance between the center of cylinder and the center of knob.

CYLINDER TYPES

PR CYLINDER

FOR HOUSING COMPLEX (TWO-WAY ROTARY CYLINDER, REVERSIBLE KEY TYPE)



FEATURES

- **A two-way rotary tumbler cylinder with high security**
The PR Cylinder has a 2-way construction consisting of main and side tumblers whose contact surfaces are different, giving 100 billion possible number of key combination.
- **Enormous number of key combination**
Eleven tumblers in eleven chambers, whose main and side tumblers are positioned at four-level and two-level respectively, give the lock 100 billion possible number of key combination.
- **Superior durability**
Like the U9 Cylinder, PR has extreme dust-proof and wear resistance.
- **High security**
The cylinder is extremely difficult to pick because the locking bar does not rotate

until all tumblers are aligned at the same time and the anti-picking structure has a complicated shape. Also PR is highly resistant to drilling due to the use of extremely hard parts in the cylinder.

- **Available key systems**
 - ⇒ Master-keying system
 - ⇒ Keyed-alike system
 - ⇒ Grand master-keying system
 - ⇒ Construction keying system
 - ⇒ Multi-master-keying system
 - ⇒ Double construction keying system
 - ⇒ Common keying system
- **Square Cylinder available.**
Square Cylinder is also available. Specifications differ from those for a standard cylinder.

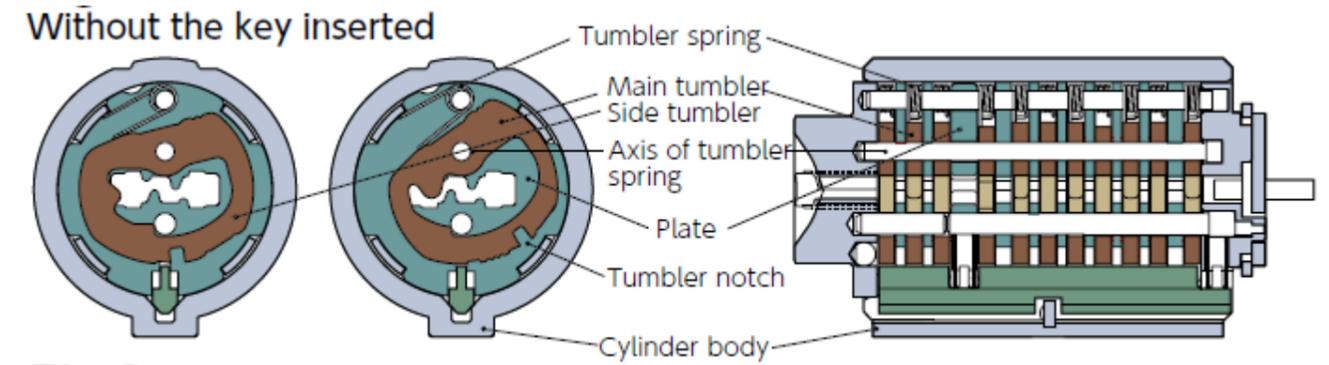
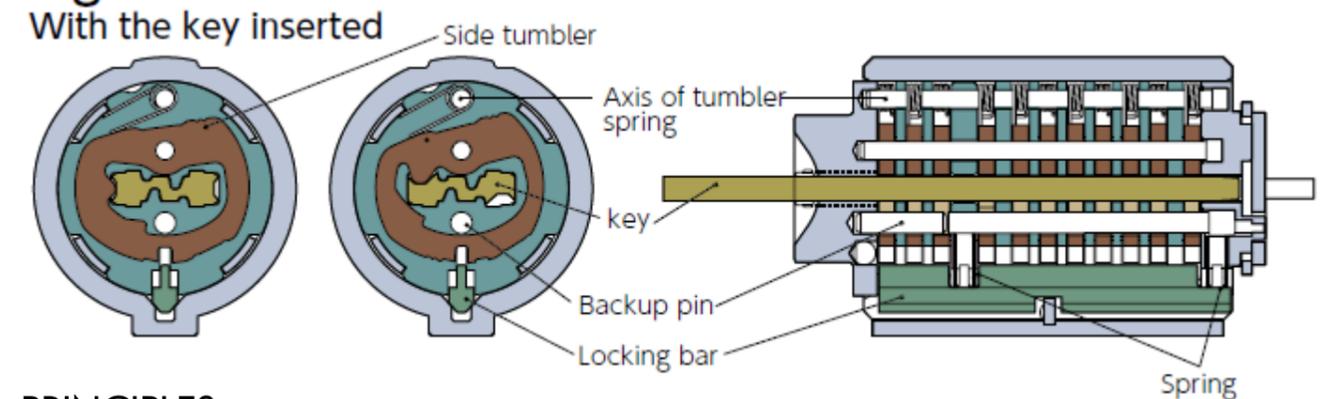
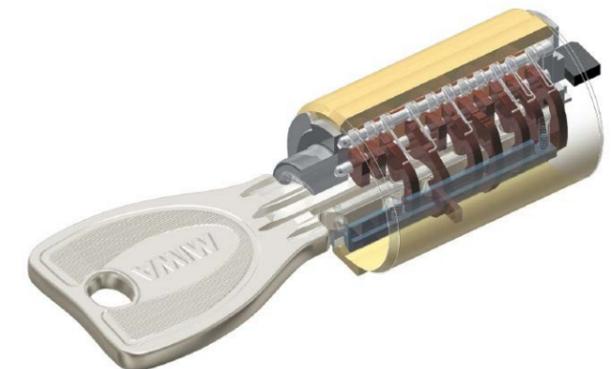


Fig.2



PRINCIPLES

1. As shown in the figure above, without the key inserted, the locking bar is pushed by a spring into a groove on the cylinder body. Also, the tumblers are pushed by tumbler springs. In this condition, the cylinder plug is impeded by the tumblers (because the tumbler notch is not above the locking bar); therefore, it is impossible for the locking bar to rise, and it is impossible to turn the cylinder.



2. When a standard change key is inserted, the tumblers are pushed in by the key cuts and rotation occurs until the notch lines up with the top of the locking bar. In this condition, the taper of the groove and locking bar works against the spring, and the locking bar is pushed up, making it possible to turn the cylinder plug.

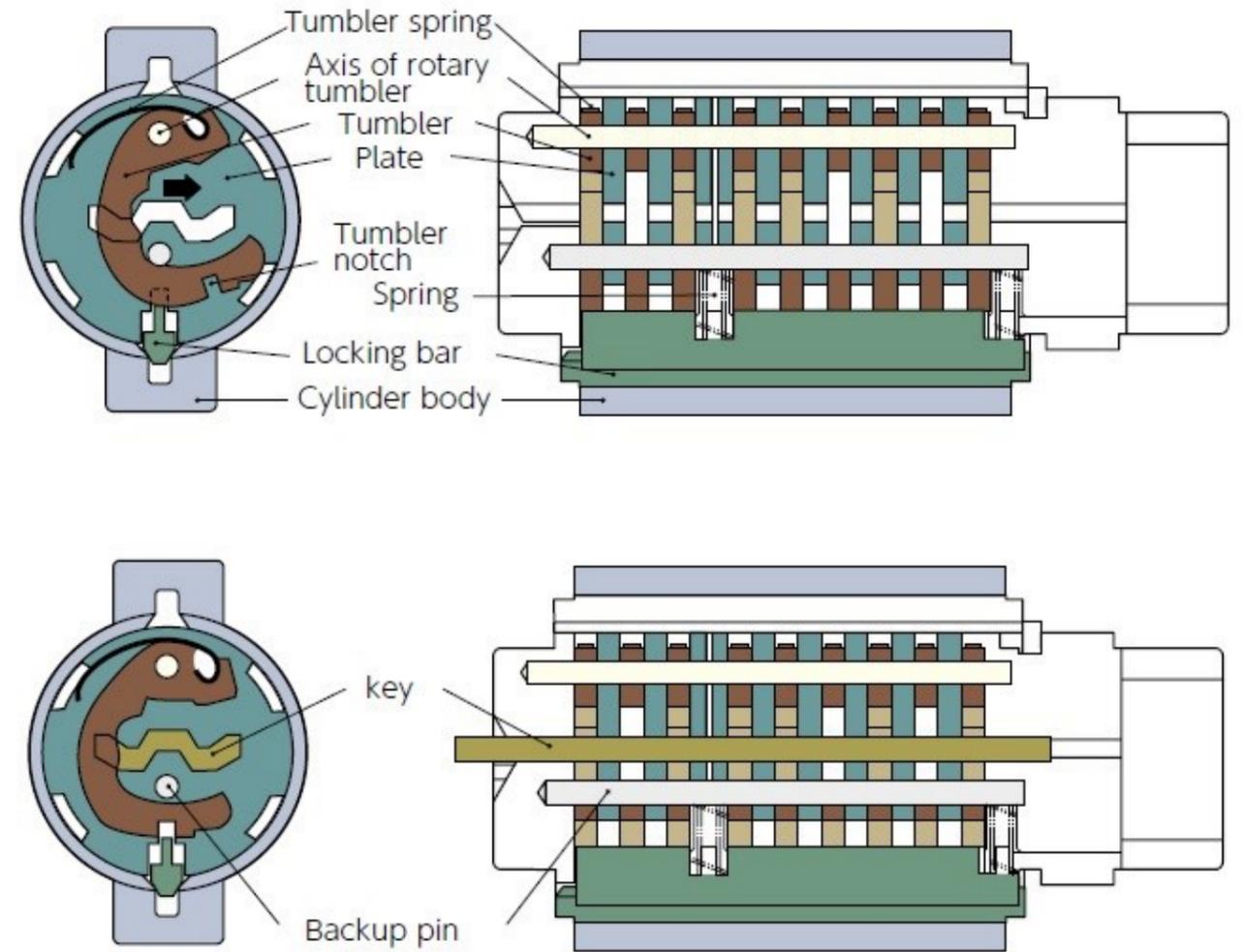
U9 CYLINDER

(ROTARY CYLINDER)



FEATURES

- **Good for large and Complicated Keying**
With nine tumblers positioned four-deep in nine double-sided chambers, this lock boasts 150,994,944 possible number of key combination.
- **Superior Durability**
Cylinder life is extended by the use of phosphor bronze, which is extremely wear-resistant.
- **High Security**
In addition to having ultra-safe rotary tumblers, the U9 features nine four-deep tumblers, making it extremely difficult to pick.
- **Available key systems**
 - ⇒ Master-keying system
 - ⇒ Grand master-keying system
 - ⇒ Great grand master keying system
 - ⇒ Multi-master-keying system
 - ⇒ Common keying system
 - ⇒ Keyed-alike system
 - ⇒ Construction keying system
 - ⇒ Display keying-emergency keying system



PRINCIPLES

1. Locking bar stays in V groove of cylinder body and prevents rotation of plug when locked.
2. Tumbler notches line up and give room for in-and-out movement of locking bar with change key insertion. Then locking bar is retracted by plug rotation according to slope-contacts between locking bar and cylinder body.



LEVER HANDLE AND PULL PLATES DESIGN

COMMERCIAL RANGE

TYPE 50



Stainless steel satin (ST)



Stainless steel polished (SB)



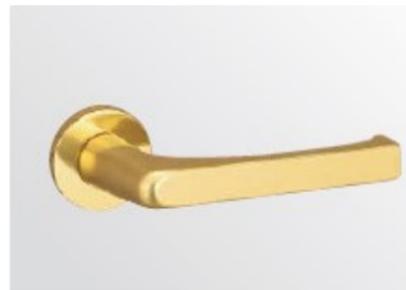
Stainless steel (CB)



Stainless steel (CD)



Brass satin (BS)



Brass polished (YB)

TYPE 51



Stainless steel satin (ST)



Stainless steel polished (SB)



Stainless steel (CB)



Stainless steel (CD)

TYPE 52



Stainless steel satin (ST)



Stainless steel Polished (SB)



Stainless steel (CB)



Stainless steel (CD)

TYPE 66



Stainless steel satin (ST)



Stainless steel polished (SB)



Stainless steel (CB)



Stainless steel (CD)



Brass satin (BS)



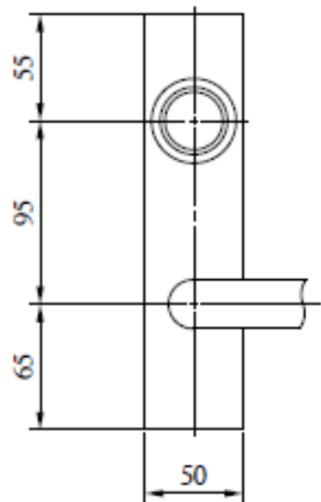
Brass polished (YB)

TYPE ELH11 (THIS MODEL SHOWS ONLY THE ESCUTCHEON. PLEASE NOTE CYLINDER, LEVER HANDLES ARE NOT INCLUDED.)

Indoor side (locking)



Stainless steel • Satin(ST)



Thickness:ELH11=8mm

TYPE U9LHS50-1 (R=ELH11)



Stainless steel • Polished(SB)



Stainless steel • Satin(ST)



Stainless steel • Polished(SB)



Stainless steel (CB)



Stainless steel (CD)

TYPE ELH19,20 (THIS MODEL SHOWS ONLY THE ESCUTCHEON. PLEASE NOTE CYLINDER, LEVER HANDLES ARE NOT INCLUDED.)



Stainless steel • Satin(ST)

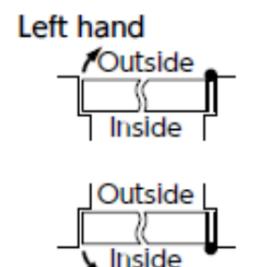


Stainless steel • Satin(ST)

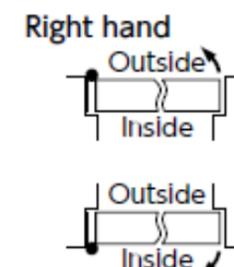


Stainless steel • Polished(SB)

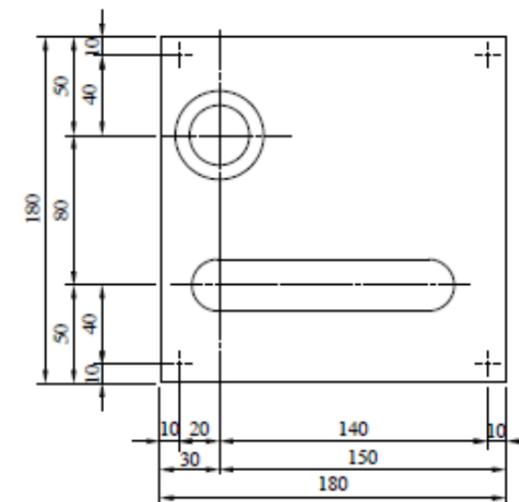
● How to determine whether to use a left hand or right hand handle in ELA19,20 types.



(Outside is to the left of the door end)



(Outside is to the right of the door end)



Thickness: ELA19=4mm
ELA20=2mm

This drawing shows a right hand.



LEVER HANDLE LOCKS



EASY TO OPERATE, SECURE LEVER HANDLE MORTISE LOCKS.

APPLICATIONS: ENTRYWAYS, OFFICES, HOSPITAL, PARTITIONS, OTHERS

RESIDENTIAL RANGE



TYPE 902



TYPE 942



TYPE 948



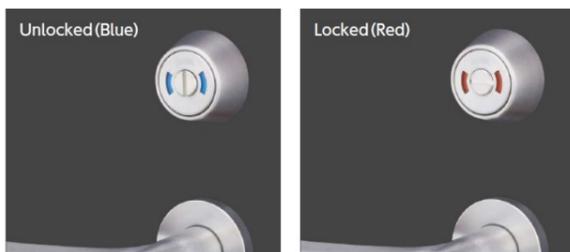
TYPE 957

- **Strong, durable lever handle locks**
In addition to easy to operate lever handle locks, the LA series provides the same outstanding strength and durability as the MA series.
- **A wide variety of lever handle types**
A wide range of lever handles is available in aluminium alloy, stainless steel and cast brass. Lever handles made of aluminum alloy and stainless steel can be coloured.
- **A wide variety of escutcheons also available**
- **Easy installation of lever handles with no play**
Installation of lever handles is easy and the design assures almost no play between the lever, lever shaft and case.
- **Single-side handle type: LA* -□H**

- **Automatic locking type: LAT* -2A**
The door locks automatically (backset: 51 and 64 mm only).
Note that the dimensions of the case depth and washers are different from those of LA* Lever handle types 40, 41, 63, 65 and 67 are not mountable. For type 66, only the washer type is mountable.
- **Large-size AH thumb-turn also available**
- **Please use DA series as an auxiliary lock, the same key operation as LA series.**

- Emergency opening device and indicator:

LA * -8



Since this model has a red indicator showing that the room is occupied and an emergency opening device that allows you to unlock the door from the outside using a coin, it is suitable for bathrooms, powder rooms, and other such applications.

- Dummy cylinder Type LA.DY

A dummy cylinder can be covered existing cylinder – thumbturn hole.



- L-front plate to guard the attack on the deadbolt



A front plate with a guard function that protects the deadbolt. It hides the deadbolt from the outside, preventing a direct attack on the deadbolt.

- Water prevention type



This lock has water prevention function to prevent flooding in the room. Water prevention parts are attached with inside lever handle and thumb-turn.

Please contact us for more details.

Note1: Door thickness is limited to 40mm and lever handle design is only 50 type ST finish.

Note2: Water prevention capability depends on the performance of the door.

- X-ray shielding type LA * -□X

Using lead-containing liner to reduce X-ray leakage from the cut-out of the door. Suitable to use at the X-ray room.

(Only the back set 51mm or more) can not be used the lever handle 65 type.

- Single-sided fixed handle or blank rose used for single-sided handle is also available.

Type : LO · BR1 (single-sided fixed handle)

LO · BR2 (single-sided handle)

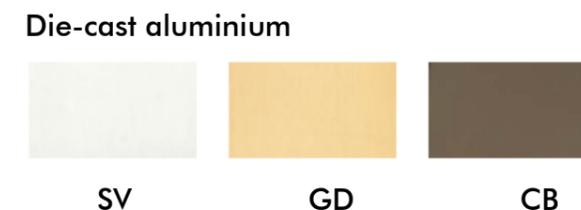


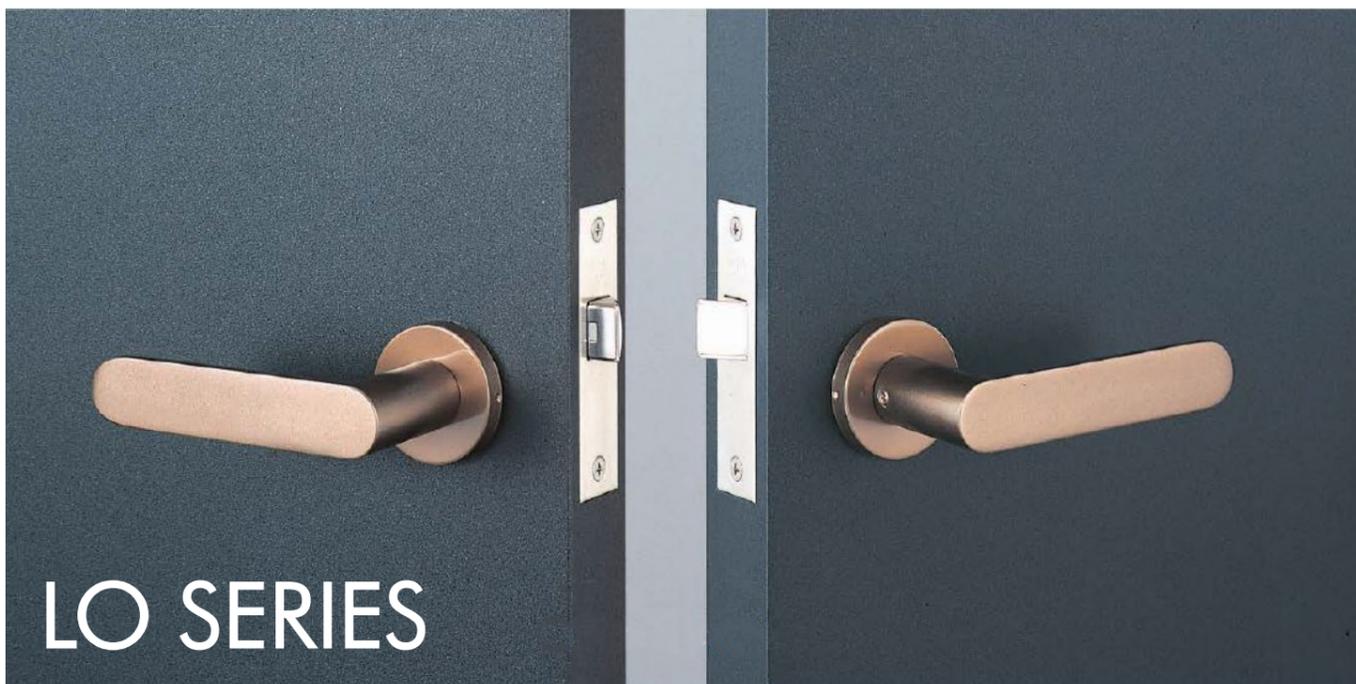
LEVER HANDLE LOCKS WITH EMERGENCY DEVICE

APPLICATIONS: INTERIOR DOOR, OTHERS.

- Case Lock Type Mortise Locks**
Rose limited to separate type only.
- Lever Handle**
Type 901, 902, 903, 980, 981, 983, 945, 946, 947, 951, 952, 953, 954, 957, 960, 961, 963, 964, 966 and 970 lever handles may be used.
- Passage latches** ZLC * 01, ZLC * 02
- Simple Lock** ZLC * 01-KY, ZLC * 02-KY
Specially suited to private rooms.
Note: Latchbolt is not fixed even when door is locked, so this product is not suited for use with entrance doors or other doors that are accessible from the outside.
- Anti lock-out function (PAT) is provided.**
A safety mechanism has been implemented, which will not lock a door even when it is closed after the thumb turn is turned to the locking position, thus eliminating a lockout accident. Resin is used in many parts of the case, contributing to a silent operation.

- Optional Parts**
Beveled front (with strike) - Type ZLCD * 01-□, ZLCD * 02-□
- Variations**
Available in two versions, one with an emergency opening device (designated—6) and another with both an emergency opening device and indicator (designated—8). Also, available with two different round roses, the standard round rose and the 02 round rose.
- Color Variation**
Die-cast zinc





EASY OPERATION

APPLICATIONS: PARTITIONS, SICKROOMS, OTHERS.

Operation of lever handle is simple and the design assures that there is almost no play between lever and shaft, or between shaft and case.

- **A wide variety of lever handle types**
A wide range of lever handles is available in aluminum alloy, stainless steel and cast brass.
- **The lever handles on both sides of the door are fixed : LO*Z.**
Escutcheons are not available.
Models 40 and 41 are not available.

- **The lever handle on one side of the door is fixed : LO*-H.**
This model is used when it is desired to have a handle installed on one side of the door only. Both left hand and right hand models are available. This model is suitable for steel doors only.
- **Material and finishes**
Front strike:
18-8 Stainless steel (SUS304)
Satin finish
- **Specification**
Backset (mm) 31 · 38 · 51 · 64 · 76
Door thickness (mm) 25~33 · 33~42 · 42~50 · 50~58 · 58~66



THIS IS A STANDARD CASE LOCK

APPLICATIONS: ENTRYWAYS, OFFICES, OTHERS.

- **Outstanding at preventing unauthorized entry, and highly durable.**
Combines the outstanding strength and durability of a mortise lock with easy-to-handle size. It is especially effective for front entrances and offices, as well as a wide range of other uses.
- **Model MA*-6 (with emergency opening device)**
These models have an emergency opening device which allows the door to be opened from the outside with a coin in case of an emergency. This model is suitable for toilets, bathrooms, powder rooms, etc.
- **Model MA*-8 (with emergency opening device and indicator)**
These model indicate by means of red panel when the interior is occupied. In case of emergency you can unlock the

- **A flush-cup handle may be mounted in place of a knob.**
MAC*-□ for a single-side knob or flush-cup handle. MACC-□ for flush-cup handles on both sides. MACUC-□ for flush-cup handles on both sides. The MACUC model has flush-cup handles to prevent finger injuries.



- **Specification**
Backset (mm) 64 · 76 · 100
Spacing (mm) 80
Door thickness range (mm) 29~33 · 33~42 · 42~50 · 50~58 · 58~66

MIWA ELECTRIC LOCKS CATALOGUE



HM SERIES

THE HM MORTISE SERIES ARE KEY-IN-KNOB LOCKS WITH BUILT-IN DEAD-BOLT.

APPLICATIONS: ENTRYWAYS, OFFICES, WAREHOUSES, OTHERS.

HM Mortise Series Locksets with key-in-knob lock and built-in deadbolt design provide rapid installation and maximum security. The entire lock is well-balanced and the mechanism is durable.

This series of locksets has a wide range of applications, both residential and commercial. Used in combination with various locks for different purposes, they facilitate design and control of the ultimate keying system for an entire building.

- **Model HM* -1M (with emergency opening device cover)**

This model can be unlocked by breaking the cover and turning the thumb-turn in case of an emergency.

- **Model HM* -8 (with emergency opening device and occupancy indicator)**



Unlocking in case of an emergency (model HM*-8)

The model indicate by means of a red panel when the interior is occupied.

Model HM*-8 can be unlocked from

the outside using a hairpin or similar object in case of emergency.

D and W designs are available.

- **Specification**

Backset (mm) 51 · 64 · 76 · 100 · 127

(Note) An expansion brace is provided for 76 and above on request

Door thickness (mm) 33~42 · 42~50 · 50~58 · 58~66

HMS series: 25~29 · 29~33

Model HM* -8: 33~42 · 42~50



ELECTRIC LOCK SYSTEM APPLICATIONS

RESIDENCE: MAGICAL TEN-KEY SYSTEM



Create a life - no need to carry the key.

Benefits of the system

- Possible to unlock in the personal identification number, not need to have a key.
- Even if a personal identification number was known to others, available to change the number instantly, and maintains your security.
- Possible to lock and unlock the electric lock by pushing buttons in the kitchen.
- Possible to check the status of the door from the kitchen.

APARTMENT BUILDING : COMMON ENTRANCE



Unlocking the apartment entrance system using non-contact IC keys: Raccess series or non-touch series. (VERSA Access Controller)

Benefits of the system

- Unlocking with a simple operation, easy to use for elders and children: passing by holding the non-touch key to the reader; passing by simply putting Raccess key in the bag.
- Maintain a high level security: If a non-contact ID key is lost, you can simply delete the lost key.

HOTEL: HOTEL CARD LOCK SYSTEM



High-technology card has a variety of functions.

Benefits of the system

- Realization for labor-saving of front desk work and space saving of the front desk.
- Possible to issue multiple cards to one room, it is convenient for multiple guests of one room.

COMPANY-OWNED OFFICE BUILDING: ACCESS CONTROL SYSTEM



An access control system that can centrally manage several gates (doors)

Benefits of the system

- The access control unit allows you to effectively construct a suitable system for your building.
- Up to 3,000 people can be managed.

Please contact us for more information regarding the available MIWA electric lock system.



CONTACT US

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