

Awards

Gold Prize in Korea Patent Technology Competition (Minister of Commerce, Industry and Energy Award)
 Seoul International Invention Fair Gold Prize
 Malaysia International Invention Exhibition Gold Prize
 Pittsburgh Invention Technology Exhibition, USA Gold Prize
 Moscow International Technology Invention Exhibition Gold Prize
 Minister of Small and Medium Venture Business Award
 Korea Invention Patent Competition (Korean Intellectual Property Office)
 2017 Trademark Design Contest(Intellectual Property Office Award)
 Special Prize of the Polish Invention Association
 Taiwan Inventors Association Special Award
 Taiwan Invention Promotion Association Special Award
 Special Prize from the Ministry of Education and Science of the Republic of Moldova
 Moscow Volga Technical University Special Prize
 Special Prize of the Russian International Science and Technology Council
 Korea Invention Promotion Association Special Award

Pushpull System Co., Ltd.

607 Convergence Commercialization Center, 218 Gajeong-ro, Yuseong-gu,
 Daejeon (Gajeong-dong, Korea Electronics and Telecommunications Research Institute)

T. 070-7864-4521
 F. 070-7864-4520
 E. korea@pushpull.kr

www.babalock.com



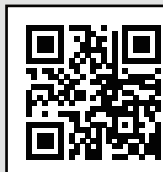
PUSHPULL
SYSTEM

baba

SMART DOOR LOCK
 PUSHPULL SYSTEM Co., LTD



Korea's Common
 National Brand
 Digital Door Lock





01



BRAND K PRODUCT

BABA is the representing Brand K product of South Korea

Selected among 1,450 SMEs

Last month, Nov.29, the second stage of "Brand K" product selection to appoint new brands with "Taeguk" mark had been complete. There are 81 new Brand K products that appeared this year. This time, there is a growing interest in which products will hit the so-called "jackpot" in the overseas market. 'Brand K' is a joint brand that guarantees the technology and quality of Korean SMEs, and was created for SMEs who have difficulty entering the market due to insufficient brand awareness even though they possess excellent technology.



Brand K made its first step in Thailand in September last year with 39 products. At that time, the launching show was attended by major public figures such as President Moon Jae-in and former national football player Park Ji-seong. It meant that President Moon, representing Korea and Ji-Sung Park, a symbol of the national representative, empowering the product brands.

Brand K is evaluated through strict analysis of
△Innovation △Competitiveness △Practicality △Safety
△Market Potential by all distribution MDs and experts.
As it has gone through a rigorous evaluation process, companies selected as Brand K are recording remarkable results in exports.

A company that will represent SMEs

Distribution MD professionals, brand experts, and technology experts participated in analyzing Brand K products through pre-document screening and second rounds of 100 national screening teams, online live broadcasts, and referendums based on innovation, competitiveness, practicality, safety, and market potential. BABA, proudly selected as a representative small and medium enterprise group, is the only door lock in Korea that has acquired the brand K mark.

BABA is the only digital door lock product recognized by the Korean Government.

02 Antimicrobial certification

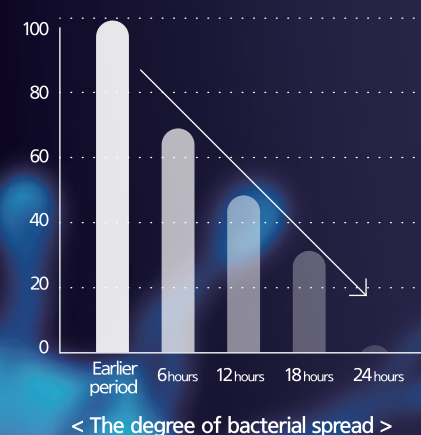
Clean and safe antimicrobial digital door lock

You can protect your health from bacteria by preventing the infestation of virus and microbes.

Antibacterial coating treatment prevents cross-contamination of bacteria to prevent virus from spreading on the handle and touch pad.

Bacterial response reduction rate test conducted
Antibacterial activity value of 2.0

Semi-permanent effect by self-developed antibacterial material and synthetic coating method, different from peeling film attachment method



Removing microscopic bacteria that are invisible

Proven antibacterial effect **99.9%** Bacteria Eradication

Test and Analysis Agency: FIM Test Research Institute

Test conditions: Test bacteria solution was incubated at $(35 \pm 1) ^\circ\text{C}$, 90% R.H for 24 hours, and then the number of bacteria was measured.

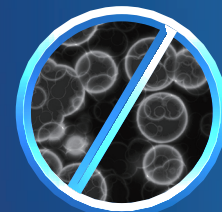
Bacillus reduction rate (%): Staphylococcus aureus (99.9%), Escherichia coli (99.9%), pneumococcus (99.9%)



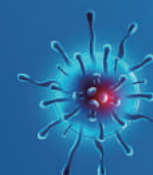
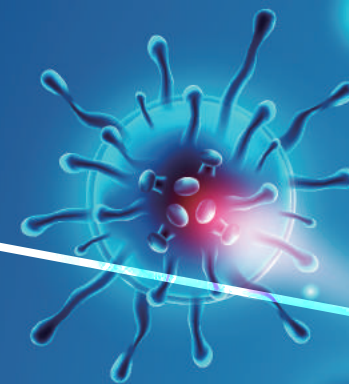
Staphylococcus aureus
Causes skin disease and food poisoning bacteria



Coli
Diarrhea and food poisoning-causing bacteria



Pneumonia
Wound infection bacteria such as fever and cough



Touch pad

Handle

After the door is closed,
there will be no door
shake to provide quiet
atmosphere

Smart DIGITAL DOOR LOCK

Smart Digital Door lock

New Premium Standard "BABA"



BABA's patented technology

03 Door shake prevention

Our house is quiet 365 days without noise

The 'automatic striker gap adjustment function' is installed to block wind and noise from outside, so you can feel more cozy and quiet environment.



Temperature
change



Draft

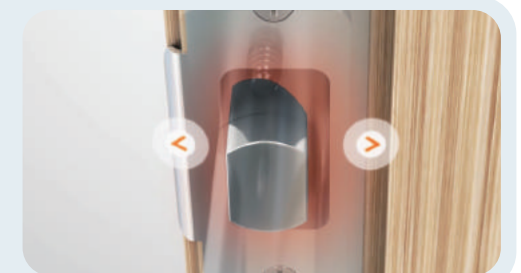


Humidity

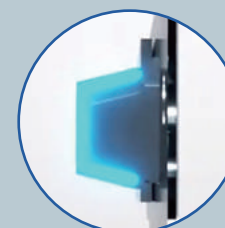


External door
opening

All doors have a gap of (2MM) between the door's striker and latch part, and due to wind, changes due to air pressure difference, and various external forces cause the door to shake and make a bumpy noise.



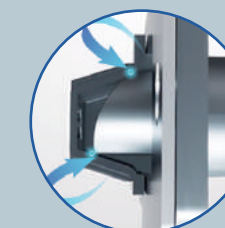
Equipped with 'automatic gap adjustment function'



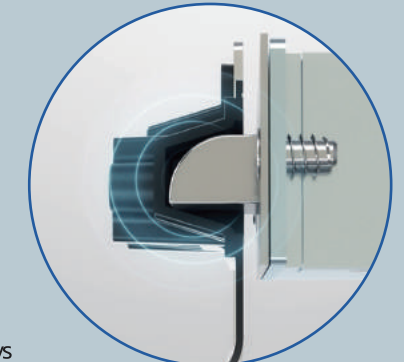
< Door Striker >



< Latch >



< Gap removal >



An effective/permanent solution to 'door shake' by creating a slope inside the door striker to remove the gap by making the latch spring push force and the slope friction force always hold the end of the latch against the slope.

'The unique technology' in the world

The world's first



Noise from outside.
The sound of the wind coming through the door.
Anxiety as if someone is coming in.

Now you do not have worry about them,
BABA Digital Door Lock solved these problems

<Acquired patents in 53 countries for "flow prevention technology">

Opening methods

2-WAY

- It is a door lock that can be used for multi-purpose entrance doors such as houses and apartments that support the general opening method.
- Open method: 2-WAY (password + card key)
- Product Model : BABA-8100

3-WAY

- It is a door lock that can be used for multi-purpose front doors such as houses and apartments that support the general opening method.
- 3-WAY (Password + Card Key + Emergency Key)
- Product Models : BABA-8200, BABA-8300

4-WAY

- It is a high-end door lock that can be used for multi-purpose entrance doors such as houses and apartments that support various opening methods.
- Open method: 4-WAY (fingerprint + password + card key + emergency key)
- Product Models : BABA-8201, BABA-8301

SMART HOTEL LOCK

- It is a hotel lock door lock that supports software program and general registration type open methods that can be used in hotels and multi-user facilities.
- Open method: Software program, general registration type
- Models : General registration : BABA-8111, BABA-8211, BABA-8311
Software registration : BABA-8112, BABA-8212, BABA-8312



Zinc alloy
Premium Out-Body

Out-body frame made of zinc alloy (ZINC ALLOY) is a hard material used outside of automobiles and aircraft. It is highly resistant to corrosion and has excellent durability for a long time.



Antibacterial coating

Prevention of bacterial growth 99.9%
Handle and touch pad antibacterial coating protected! Prevents cross-contamination of bacteria.



Anti-shake

Patented "Gap Correction Function" applied. It is a special door lock that minimizes wind and noise from outside. It is a special door lock that has been minimized.



Brand K Award

It is the only product in the digital door lock industry among 1,450 small and medium-sized enterprises with excellent national certification.

Your choice
Various colors



Gold, Silver, Black, Blue, Orange, Red, White, Wine

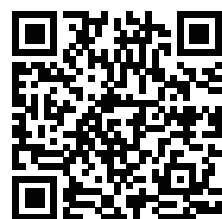
04 IoT Platform

APP

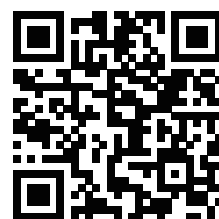
Smartphone remote control

Add a Bluetooth module for more convenient use.

- Entry record
- Guest key
- Authorization
- One-time password
- Smart open



Download
Google Play



Download
App Store



Key Features of Digital Door Lock BABA

Safety



Antimicrobial Coating

Antimicrobial coating on the handle and touch pad prevents germs from propagating, preventing family member from being harmed with different viruses.



Door shake prevention

It automatically catches the play of swinging doors to block wind and noise from the outside, making you feel more convenient and quiet.



High temperature alarm

An alarm sounds when an abnormal high temperature is detected inside the house and the door lock is automatically unlocked for quick evacuation.



Electric shock prevention

This product has passed the electric shock test to prevent the door from being opened by a high voltage electric shock, so you can use it with confidence.



External double lock

When double lock function is set, any opening using inside handle or OPEN/CLOSE button, generates a strong alarm sound and inside handle does not open easily



Internal double lock

When internal double lock is set, all opening methods from outside (Excluding emergency key opening) will be denied and visitor from outside cannot open door using password, fingerprint or card. * Only emergency key can be used to open door from outside



Intrusion-Alarm

If you repeatedly input wrong password 5 times in a row from outside, no button will work for 60 seconds with alarm sound.



Anti-theft mode

When door opening is detected in abnormal way while the door is locked, a powerful alarm sound of 80dB is generated to prevent possible robbery.



Life waterproof

It works normally even in an environment exposed to the outside. If you do not have direct rain exposure, you can use it with confidence.



Emergency power

If the battery is discharged without being replaced, you can temporarily supply power with an external 9v battery.

Convenience



Smartphone App

Equipped with a Bluetooth module, real-time remote control and door lock management are available through a mobile app.



Random security code

If you are concerned about your password privacy, you can prevent other people from discovering your password by entering a random number (Max. 20 digits) and a password.



Voice guidance

Thanks to voice guidance, you can use various functions easily and conveniently without manual.



Silent mode

If you have young children or enter home late at night, you can mute the door lock number panel or the door opening voices by caring for your family and neighbours.

100
MEMORY

Up to 100 fingerprints

Customers can register Max.100 fingerprints

50
MEMORY

Up to 50 key cards

Customers can register Max.50 cards



Fingerprint Authentication

With a fast and accurate fingerprint authentication system in less than 1 second, all family members can easily open the door without having to memorize the password or carry the card key.



One-touch number pad

It is easy to use by lightly touching number pad.



Low battery alarm

When it's time to replace the battery, a specific melody and voice announcement will remind you to replace them



Master (Administrator)

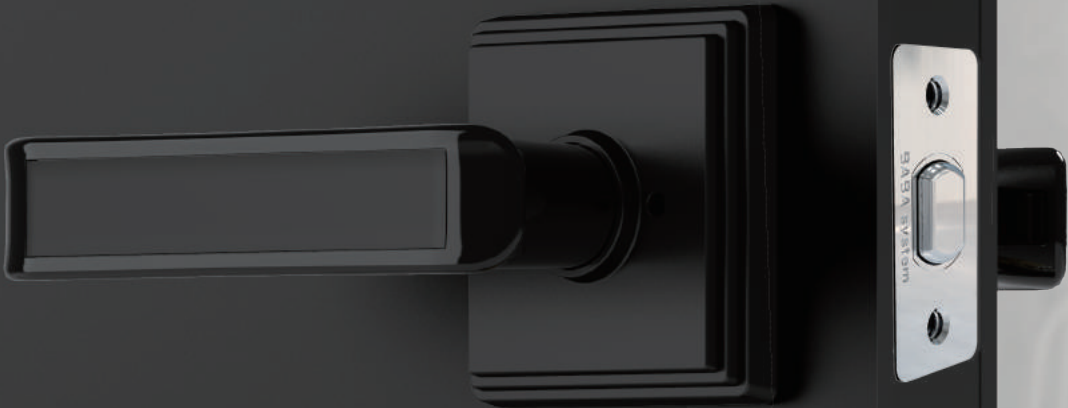
In addition to the user's password, you can create and use a master key card or master password, and the master card and password cannot be changed or deleted even if the user changes/deletes the lock password. (In case of setting double lock inside, master card and password do not open lock.)



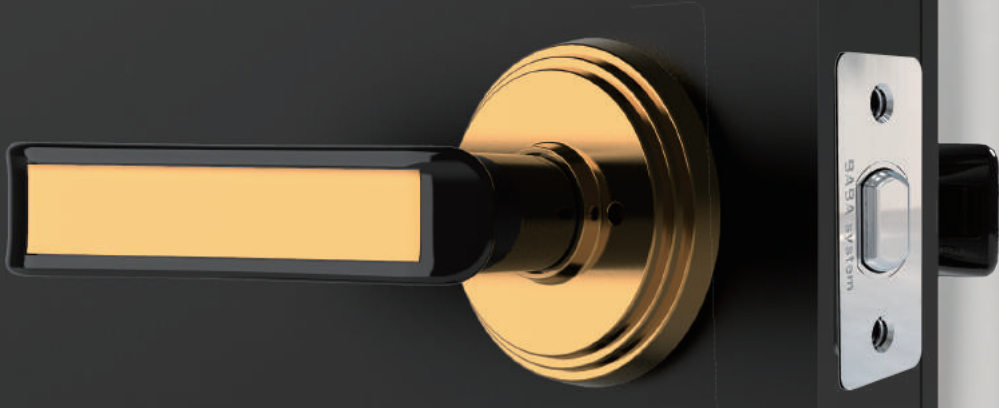
One-time password

Set a one-time password in advance so you can share a one-time password when a visitor or relative visits you. Once you open the door, the number is deleted and you have to set it up again.

baba
Interior
DoorLock



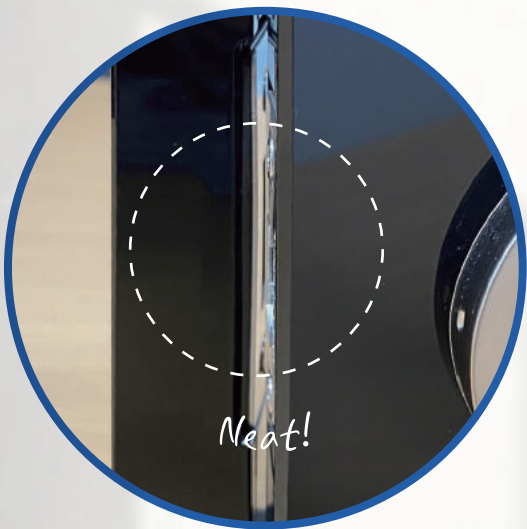
Black



Gold



Silver



Neat!



Magnetic Latch



Latch Guide

Magnetic

Equipped with a patented “Door Shake Correction” function, and a premium type that strongly holds the gap in the door stiker using “Neodymium (ND) magnets”

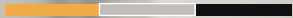
Magnetic type

Since the latch and latch guide are not protruding, the door can be opened smoothly without jamming. It is a premium product line that differentiates itself from the existing indoor door handles with low friction noise and clean finish.



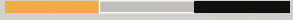
BABA-201 (Magnetic/General)

- Handle material: Aluminum (Al)
- Applicable door thickness: 34-45mm
- Backset: 60mm
- Locking method: Lock pin / key
- Usage: Swing door/bedroom/bathroom/office
- Color: Gold, Silver, Black



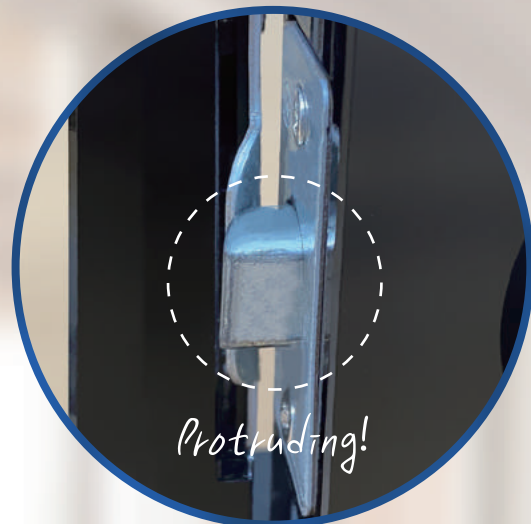
BABA-202 (Magnetic/General)

- Handle material: Aluminum (Al)
- Applicable door thickness: 34-45mm
- Backset: 60mm
- Locking method: Lock pin / key
- Usage: Swing door/bedroom/bathroom/office
- Color: Gold, Silver, Black



baba

Interior
DoorLock



General

Equipped with a patented “door shake correction” function.
Basic type with protruding latch and latch guide



BABA-504 (Magnetic/General)

- Handle material: Aluminum (Al)
- Applicable door thickness: 34-45mm
- Backset: 60mm
- Locking method: Lock pin / key
- Usage: Swing door/bedroom/bathroom/office
- Color: Gold, Silver, Black

BABA-603 (Magnetic/General)

- Handle material: Aluminum (Al)
- Applicable door thickness: 34-45mm
- Backset: 60mm
- Locking method: Lock pin
- Usage: Swing door/bedroom/bathroom/office
- Color: Black, White, Silver

BABA-303 (Magnetic/General)

- Handle material: Aluminum (Al)
- Applicable door thickness: 34-45mm
- Backset: 60mm
- Locking method: Lock pin
- Usage: Swing door/bedroom/bathroom/office
- Color: Brown



BABA-501 (Magnetic/General)

- Handle material: Aluminum (Al)
- Applicable door thickness: 34-45mm
- Backset: 60mm
- Locking method: Lock pin
- Usage: Swing door/bedroom/bathroom/office
- Color: Brown



BABA-502 (Magnetic/General)

- Handle material: Aluminum (Al)
- Applicable door thickness: 34-45mm
- Backset: 60mm
- Locking method: Lock pin
- Usage: Swing door/bedroom/bathroom/office
- Color: Silver



※ BABA door handle
General type and magnetic type can be selected