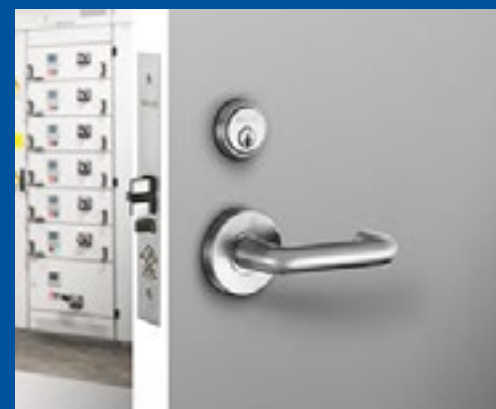扫一扫，了解更多资讯　　扫一扫,下载更多图册　　了解更多信息关 注
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For Better Living

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Hardware Configuration Solution for Rail Transit

Hardware Configuration Solution for Rail Transit

Guangdong Kinlong Hardware Products Co., Ltd.

No.3, Jian Lang Rd., Tangxia Town, Dongguan City, china.

T：0086-769-82166666   82136666
F：0086-769-82955240   82955241
E：mail@kinlong.com
H：www.kinlong.com

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Fire door hardware integrated atlas

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Contents

STOCK CODE: 002791

TO IMPROVE THE HUMAN BEING'S LIVING CONDITIONS AND MAKE KINLONG THE SYNONYM FOR HIGH-QUALITY.

More than **900,000**㎡ production area.

More than **60** subsidiaries.

More than **1000** sales offices both in domestic and overseas .

More than **16,000** employees.

ESTABLISHING BENCHMARK AND PURSUING EXCELLENCE

Kinlong was established in 2003 and is a company engaged in design and research, manufacturing and sales of construction and building products. We are committed to provide high-quality products and services. After years of development, Kinlong has become a reputable brand in the construction industry.

Kinlong industrial park has an area of more than 900,000 square meters and has an employment of more than 16000 staff. Kinlong owns more than 60 subsidiaries, and with over 1000 sales branches in the domestic and overseas markets. The company has more than 20,000 categories of products, which has been sold to more than 100 countries and areas. Kinlong, with it's sophisticated production management, provides customers with integrated solutions for different functional buildings.

Focusing on providing integrated construction and building accessories and diversified products，Kinlong continues to meet customer needs and market changes with the sales model of "R&D + manufacturing + service"，and sets up its own marketing networks to directly provide customers with products and technical services. With years of precipitation and accumulation, Kinlong is at the forefront of the industry.

Over the years，Kinlong has been embracing the philosophy of "Unique value is created by professionalism, but no future shall be created by speculation". This has made Kinlong standing on the leading position in construction hardware market. Kinlong has provided products and services for many famous buildings around the world, and the landmark buildings of countless cities have become the pride and glory of Kinlong people.

To every designer, engineer and company committed in construction industry, Kinlong is always the most trustworthy and reliable partner.

Social Responsibility

Inauguration of Huishui Kinlong Social Charity School   Inauguration of Changfeng Kinlong Social Charity School

For more than ten years, Kinlong has not forgotten to give back to the society while developing itself. By the end of 2023, more than 90 kinlong social charity schools have been donated and built in remote and backward areas.

INNOVATION AND ENTERPRISING
INDUSTRY BENCHMARK

KINLONG KEEPS MAKING PROGRESS BY INNOVATION, BY WHICH WE HAVE OBTAINED RECOGNITION AND HIGH PRAISE FROM STATE DEPARTMENTS,GOVERNMENT UNITS AND ALL SECTORS IN THE SOCIETY, AND WE HAVE GOT MANY ACHIEVEMENTS.

Overseas and domestic authorized valid patents are **1000** items.

In which, patents of invention are **100** items.

We took part in the standards compiling of **200** items.

Kinlong has overseas and domestic registered trade mark of **500** items

ENTERPRISE REPRESENTATIVE HONOR

Second Prize in National Science and Technology Progress Award

First Prize in Huaxia Construction Science and Technology Award

Second Prize in Huaxia Construction Science and Technology Award

Special Prize in China Steel Structure Association Science and Technology Award

First Prize in China Steel Structure Association Science and Technology Award

Innovation Award in China Steel Structure Association Science and Technology Award

The most influential brand of Jinxuan Award in the construction door, window and curtain wall industry for four consecutive sessions;

2021 TOP500 Preferred Supplier of Comprehensive Strength of Chinese Real Estate Development Enterprises-Smart Community Service Category

National High-Tech Enterprise

......

REPRESENTATIVE R&D INNOVATION HONOR

National Intellectual Property Demonstration Enterprise

Laboratory center approved by the National Accreditation Board

Guangdong Provincial Enterprise Technology

Center and Provincial Engineering Center

......

Kinlong adheres to the philosophy that Unique value can only be created by professionalism,speculation has no future. Our enterprise core value is to respect Respecting science; Striving for coexistence and all-win; Promoting constant innovation; Pursuing sincerity and trustworthiness. and we always insist making innovation, breaking through and making progress, increasing our capacity of research, by which we have obtained recognition and praise from government departments, units and all areas in the society and get many achievements. We pay great attention to the needs from our customers and the prospect of our industry, consistently pursuing perfect, good quality, excellent service and systematic solutions. Our quick and accurate ability of handing over are always leading the market.

KINLONG IS LEADING THE MARKET BY GOOD QUALITY, EXCELLENT SERVICE, SYSTEMATIC SOLUTIONS AND QUICK AND ACCURATE ABILITY TO HAND OVER.

To Form a Full-chain Comprehensive Advantage

Informatized Management | Integratized Products | Intelligentized Manufacture | Specialized Services

Professionally serve the market and create value for customers

Quality Comes from Profession

ISO 9001 | ISO 14001 | IFT Certification | CNAS Certification

The company has a sound management system ,passed ISO9001, ISO14001, ISO45001 systems of BSI and have a testing laboratory accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Till 31st October 2021, more than 90 products certifications have been obtained.

Perfect Service and Quick Response

Kinlong utilizes more than 600 sales-services throughout the country and abroad , sales team of more than 6,000 people, a nationwide installation and after-sales team, and more than 40 stock warehouses across the country to provide prompt response to our Clients . Local direct sales service,create the value to customers with sincerity and diligence.

Integrated service organization

R & D patent

There are more than 800 patents at home and abroad

R & D support

R & D Integration

Product category

It has more than 10000 products and a constantly updated product library

Product support

Product integration

Organization and team

More than 4000 sales service teams from more than 500 sales service institutions at home and abroad
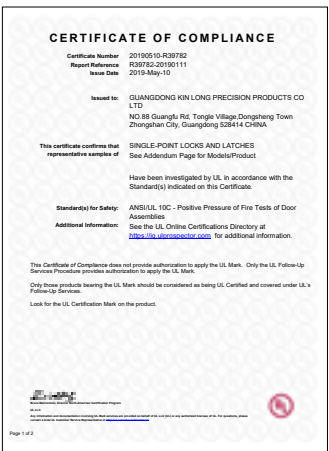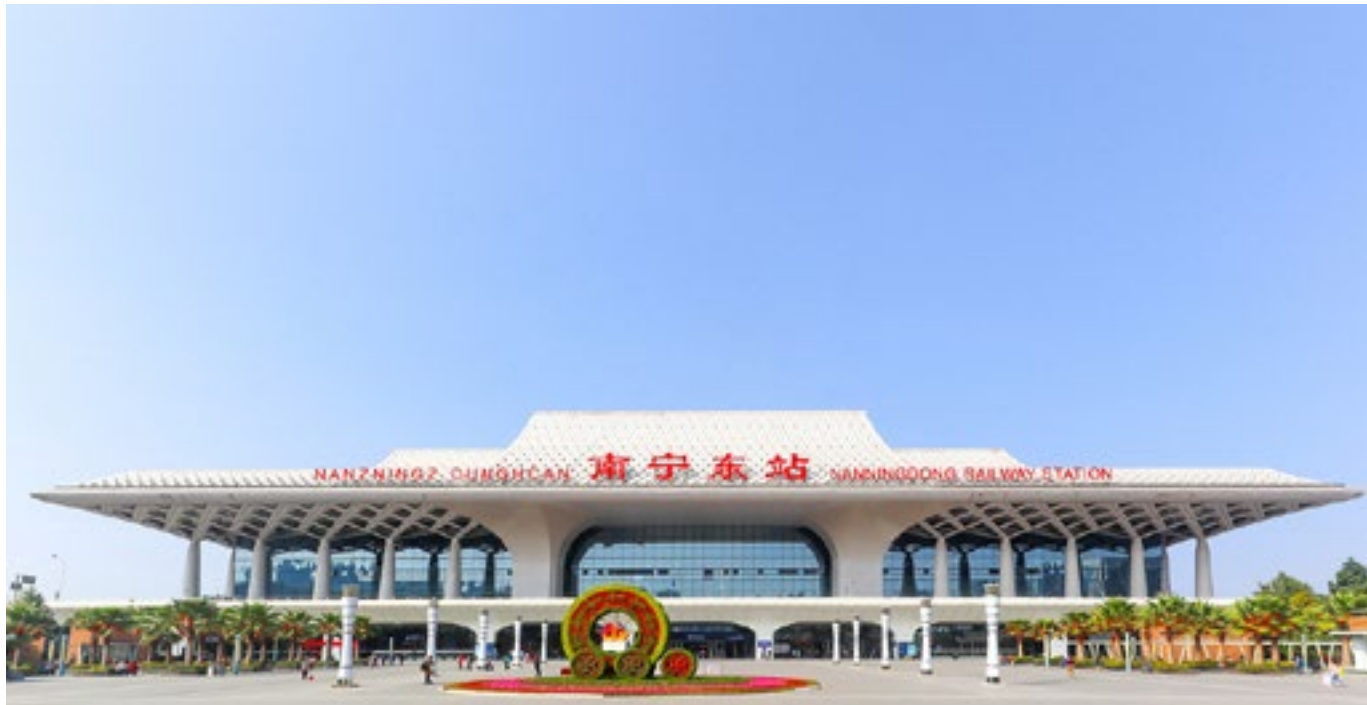
Service support

Service integration

Integrated system

Stock storage system
Professional installation team
Perfect logistics distribution system

Warehousing, logistics, installation support,

Warehousing, logistics, installation integration

Certificate of authority

Nanning Metro

Beijing New Airport Terminal

Shijiazhuang Metro

Luoyang Rail Transit

Proposal Technical Requirements Template

1、 Code and Standards

Product standards and code, engineering standards and code, acceptance standards and specifications include (but are not limited to):

GB12955-2015《Fire resistant doorsets》

GB/T20909-2017《Steel windows and doors》

GB17565-2007《General specification burglary resistant safety door》

GB15763.1-2009《Safety glazing materials in building - Part 1: Fire resistant glass》

GB16809-2008《Fire resistant windows》

17J610-1《Special doors and windows》

GB14102-2005《Fire resistant shutter》

GB50877-2014（2019 version）《Code for installation and acceptance of fire resistant shutters,fire resistant doorsets and fire resistant windows》

GB/T7106-2019《Graduations and test methods of air permeability, watertightness, wind load resistance performance for building external windows and doors》

04J631《National Architectural Standard Design Institute for Hardware Accessories for Doors, Windows, Curtain Walls and Windows;》

GA93-2004《Fire-proof door closer》

JG/T268-2019《Door Closers for Construction》

QB/T 2474-2017《Mortise locks》

GA/T73-2015《Burglary-resistant mechanical locks》

GB16807-2009《Fire intumescent seals》

GB50157-2013《Code for design of metro》

DB11/995-2013《Code for design of urban rail transit engineerin》

GB51298-2018《Standard for fire protection design of metro》

GB50016-2014（2018 Version）《Code for fire protection design of buildings》

GB 50352-2019《Uniform standard of civil buildings》

The product standards and code involved in the equipment; Engineering standards and code; The acceptance standards, specifications, etc. shall fully comply with all current regulations and specifications of the People's Republic of China, including but not limited to the above content. The above code and standards have the terms of this standard by quoted in this requirement. All code and standards default to the latest version of these files. For any discrepancies with the current version , the latest version shall prevail.

2、 Technical Requirements

2.1、 Requirements for American standard mortise locks

2.1.1 General requirements

1) The performance meets the first level standard of ANSI/BHM A156.13, and a third-party certification report is required.

2) The service life is over 1 million times, a third-party certification report is required.

3) Precision cast stainless steel with a length of no less than 19mm, three section anti friction latch bolt, and all locking bolt should not contain any non-metallic materials such as plastic. Adopting precision cast stainless steel split solid handle, with a surface treatment of forged stainless steel color. Standard installation center distance 70mm,

4) The lock body material should be made of high-strength steel, which has undergone anti-corrosion treatment. The key moving parts of the door lock should be made of steel stamping, and the load-bearing parts should be precision cast stainless steel. Brass or other soft metals cannot be used. The lock body should be equipped with a stainless steel locking buckle plate that meets ANSI standards, with a guide bolt, and no distinction between left and right hands. The locking bolt can be reversed and adjusted on-site to adapt to the left and right hand door orientation.

5) The lock body should use high-strength springs to ensure the normal rebound of the handle and prevent the handle from sagging during use. The handle shaft should be made of corrosion-resistant reinforced steel with sufficient length to adapt to different thicknesses of the door leaf. The indoor and outdoor handles should be designed separately to ensure separate operation.

6) Doors with fire protection requirements and locks on the doors should pass the 1.5 hour fire protection type inspection required by the national standard GB12955-2008, and provide a third-party certification report.。

2.1.2、 American standard storage room lock (used for equipment room doors)

Functional requirements for use

1) Inside the door: Pressing the handle inside the door at any time can simultaneously retract the inclined bolt and safety bolt, achieving a single action emergency escape function.。

2) Outside the door: The outside handle is always fixed and cannot rotate. The door automatically locks when closed. After locking, use the key to open the door. When the door is closed, assist the safety bolt to lock the latch bolt. Equipped with a mechanical lock cylinder on the outside.

2.1.3、 American standard classroom lock (used for cable rooms, air rooms, air ducts, etc.)

Functional requirements for use:

1) Inside the door: Pressing the handle inside the door at any time can simultaneously retract the latch bolt and safety bolt, achieving a single action emergency escape function.

2) Outside the door: The door is locked with a key, but cannot be locked inside. After locking, use the key to unlock the door. When the door is closed, assist the safety bolt to lock the latch bolt. Equipped with a mechanical lock cylinder on the outside.

2.1.4、 American standard corridor lock (for corridor doors)

Functional requirements for use:

Press the handle inside and outside the door at any time to retract the latch bolt to unlock, without a lock cylinder.

2.1.5、 American standard apartment lock (used for employee dormitories)

Functional requirements for use:

1) Inside the door: Pressing the handle inside the door at any time can simultaneously retract the latch bolt and safety , achieving a single action emergency escape function.

2) Lock the door with a key outside the door. After locking, unlock the door with the key. When the door is closed, assist the safety bolt to lock the latch bolt. Equipped with a mechanical lock cylinder on the outside.

3) Lock the door with a knob to active deadbolt.

2.1.6、 American standard public restroom indicating lock

Functional requirements for use:

Inside the door: 1) Press the handle inside the door at any time to retract both the latch bolt and the safety bolt, achieving an emergency escape function in one action.

2) Use the knob to active the deadbolt lock it

Outside the door: 1) In any case, can use coins to retract deadbolt outside the door at anytime, and the device has a usage status indicator function

2) When locking with a knob indoors (with the bolt actived), the outer handle cannot be pressed down to unlock

3.)When the dead bolt retracts, the outer handle can be pressed down to unlock.

2.1.7、 American standard dormitory locks

Inside the door: 1) Press the handle inside the door at any time to retract both the latch bolt and the safety bolt, achieving an emergency escape function in one action.

2) Use the knob to active deadbolt and lock the outer handle at the same time.

Outside the door: 1) The key can unlock under any circumstances.

2) When locking with a knob indoors (with the bolt actived), the outer handle cannot be pressed down to unlock.

3) When the dead bolt retracts, the outer handle can be pressed down to unlock.

2.1.8、 American standard office locks

Inside the door: 1) Press the handle inside the door at any time to retract both the latch bolt and the safety bolt, achieving an emergency escape function in one action.

2) Use the knob to lock or unlock the outer handle.

Outside the door: 1) The key can unlock under any circumstances.

2) Lock or unlock the external handle with the key.

3) When the outer handle is locked, the outer handle cannot be pressed down to unlock it.

2.2、 Requirements for anti-theft locks

Inside the door: 1) Press the handle inside the door at any time to retract both the latch bolt and the deadbolt, achieving an emergency escape function in one action.

2) Use the knob to active or retract the safety bolt.

3) The inner handle can be lifted backwards to active the deadbolt.

Outside the door: 1) The key can open the fixed deadbolt and latch bolt, but cannot open the safety bolt.

2) The outer handle can be lifted backwards to active the deadbolt.

3) The outer handle cannot be pressed down and the latch bolt cannot be tilted.

The entire product meets the B-level requirements of the GA73-2015 "Burglary-resistant mechanical locks" standard, with the lock cylinder meeting the C-level requirements and a test report from the Testing Center of the Ministry of Public Security

2.3 Requirements for European standard mortise locks

2.3.1 General requirements

The lock body has passed EN12206 Level III testing and CE certification, with an opening life of over 200000 times.

Doors with fire protection requirements and locks on the doors should pass the 1.5 hour fire protection type inspection required by the national standard GB12955-2008, and provide a third-party latch bolt .The functions include corridor lock, bathroom lock, door lock, indicator bathroom lock, office lock, deadbolt lock, storage room lock, and classroom lock.

2.4 Requirements for airtight locks

1) The product meets the requirements of GB/T7106-2019, and the wind resistant surface can withstand a pressure of 3000Pa. The door leaf bears an impact load of 294N and has a lifespan of 500000 times.

2) Handwheels are installed on both sides of the door, both inside and outside, and the door leaf can be opened through the handwheel

3) 3 point fastening (top, bottom, middle)

2.5、American standard door closer

1) The door closer should comply with ANSI A156.4-200I A156.4-2000 Class I standard and be certified. It has been opened more than 2 million times and has passed the UL3-hour fire protection certification of the American Business Laboratory. It meets the relevant requirements of GB12955-2008 and has passed the fire protection type test of the China National Fixed Fire Extinguishing System and Refractory Component Quality Supervision and Inspection Center.

2) The door closer should be made of high-strength steel, with independent door opening buffer adjustment function, door closing speed and locking speed adjustment function. The door closer has adjustable force levels 1 to 6, suitable for a maximum door width of 1524mm, and comes with a protective cover.

3) The surface treatment of the door closer meets the corrosion resistance salt spray test standard for more than 100 hours, and the silver electrostatic spraying surface is applied.

4) The door closer should have no distinction between left and right door orientations, and should be equipped with a parallel arm mounting plate as standard. The outer door closer should be equipped with a high-strength parallel arm mounting plate with a door stop function.

5) The door closer should have no distinction between left and right door orientations, and should be equipped with a parallel arm mounting plate as standard. The outer door closer should be equipped with a high-strength parallel arm mounting plate with a door stop function.

2.6、European standard door closer

1) The door closer should pass EN1154 testing and have CE certification, with a lifespan of over 500000 times, meet the relevant requirements of GB12955-2008, and pass the fire protection type test of the China National Fixed Fire Extinguishing System and Fireproof Component Quality Supervision and Inspection Center.

2) The door closer should be made of high-strength steel, with independent door opening buffer adjustment function, door closing speed and locking speed adjustment function.

2.7、American standard hinge

1) Ordinary hinges should comply with the American standard ANSI/A156.1-2006 Class II standard, and can be opened more than 1.5 million times. A third-party certification report is required. The hinges used for fire doors must pass the 1.5 hour fire test required by the national standard GB12955-2008 and have a report

2) The ordinary door adopts a stainless steel hinge with 5 sections and 2 oil lubricated ball bearing structures, with a satin stainless steel finish. The access door or tube well door adopts a 3 section steel spring hinge,

3) The number of hinges is determined based on the height of the door. Generally, one hinge is used for every 762mm of the door height, specifically:

Door height ≤ 1524mm：2 pieces

1524mm < door height ≤ 2286mm：3 pieces

2286mm < door height ≤ 3048mm：4 pieces

4) Model and size: Ordinary hinge H1:114 × 114 × 3.4 mm

Crossing hinge EH: 114 × 114 × 3.4 mm

5) The manufacturer's trademark should be etched on the front of each hinge to enable identification of the hinge manufacturer even after the door is installed.

2.8、European standard hinge

1) Tested according to the European standard EN 1935:2002 and CE certified, with up to 200000 opening times;

2) Must pass the 90 minute fire test required by the national standard GB12955-2008 and provide a test report.

2.9、Door pivot

1) To install steel or eccentric heaven and earth door shafts for closed doors or wind resistant doors, the door shaft must have a load-bearing capacity of over 275kg, a lifespan of over 500000 times, and can withstand positive and negative wind pressures of 6000 Pa. There is a third-party test report.

2) The shootbolt lock system can be provided in various specifications that are suitable for different door types. For doors with a height exceeding 2.0m, an intermediate shaft must be installed at the center line of the height.

3) Should pass the 1.5 hour fire test required by the national standard GB12955-2008 and have a report.

2.10、American standard escape device

1) The tunnel passage door adopts a flat push escape device, which meets the first level standard of ANSI A156.3-2001 and has been certified. It has passed the UL3-hour fire protection certification of the American Underwriters' Laboratory, meets the relevant requirements of GB12955-2008, and has passed the fire protection type test conducted by the China National Fixed Fire Extinguishing System and Refractory Component Quality Supervision and Inspection Center for more than 1.5 hours.

2) The escape device push bar made of stainless steel material, and the fixing parts of the escape push bar should be designed reasonably to ensure that any screw, bolt, or other fixing part falling off or loosening will not cause the escape push bar lock bolt to fail to operate.

3) The exterior handle style and surface treatment of the device should match other locks, and its lock cylinder can be included in a unified master key management system with other locks.

4) The escape devices of the same series should have optional electronic control functions such as connecting with the access control, electronic control handles, electronic control locks, status monitoring, local or remote alarms, and electronic control delayed exit.

2.11、European standard escape devices

1) Passed EN1125 testing and CE certification, with a lifespan of over 200000 cycles,

2) Must pass the 90 minute fire detection required by the national standard GB12955-2008 and provide a detection report

2.12.Floor hinge

All floor hinges comply with EN 1154 standards, are suitable for doors weighing 300KG, have a 90 degree door stop function, have a lifespan of over 500000 times, are made of 304 stainless steel, and have a surface hairline treatment.

2.13、 Interval escape device (four lock point type)

1) Install interval emergency evacuation doors and escape doors at designated locations within the central area of the escape passage. The installation of heavy-duty flat push escape devices for all interval emergency evacuation doors and escape doors should meet the requirements of national standard commercial grade high-strength escape devices.

2) The fire door lock of the interval connecting passage must adopt an escape push bar device (upper, middle, and lower four point type), which includes push bar (or press bar), fixed seats, lock bolts, lock seats, and other components. When pushed horizontally or pressed down along the escape direction at any position of the effective length of the push bar on the inner side of the door, the lock bolt will retract to release the locking function, achieving an emergency escape function. The outer side is equipped with a handle and lock cylinder.

3) It must be a product that has passed the verification of the National Fixed Fire Extinguishing System and the Quality Supervision and Inspection Center for Refractory Components, and has a valid 90 minute fire protection type test report. It must have been tested more than 500000 times, and corresponding test certificates must be provided for the above standards;

4) The escape device must be equipped with a door lock cylinder and a fixed handle outside the door, which is made of stainless steel; The handle style and surface treatment should match other locks. The device should have the feature of quickly changing the door handle on site without distinguishing between left and right directions;

5) The section connecting passage fireproof door is required to be able to withstand wind pressure of 6000Pa.

2.14、Door hardware accessories

The door hardware provided by the bidder must be provided by the same manufacturer, and all small hardware components, such as sequencers, door stoppers, bolts, dustproof boot, etc., must not be used interchangeably between two or more brands of small hardware in the same door.

1）Concealed double door sequencer: used to control the closing sequence of two doors to ensure correct closing and prevent stacking

a. Must pass the 90 minute fire test required by the national standard GB12955-2008 and provide a test report。

b. Built in high-strength spring double bolt structure.

c. All SUS304 stainless steel materials.

d. The warranty period is 2 years and a quality guarantee certificate issued by the manufacturer is required.

e. Location of use: All double leaf fire doors should be installed. If there is a conflict with the installation of the access lock or door closer, a surface mounted double door sequencer can be used; Surface mounted double door sequencer: used to control the closing sequence of two doors, it must pass the fire protection testing conducted by the national testing agency (in accordance with the fire protection requirements of GB12955-2015 appendix), and have a 90 minute fire protection type effective testing report

2）Manual concealed bolt for steel door

a. Must pass the 90 minute fire proof type test certification required by GB12955-2015, and provide a copy of the certificate. Including access doors and normally open fire doors for use.

b.Double door driven door leaf is used, and manual (automatic) latch should be provided with steel door according to the material of the door body.

c.Double door height above 2300mm, with extended concealed latch (16 inches or longer) or automatic latch on the upper part.

d.The installation of concealed bolt and door leaf must be equipped with a dustproof boot.

3）Push pull handle, skirting board and mop board, stainless steel pull plate, door stop:

The surface treatment is hairline stainless steel color. It must be fixed with threaded screws, and the surface treatment should be hairline stainless steel color.

The door stop should be installed on the wall or on the ground according to the actual situation, and should not obstruct the normal passage of people or affect the opening angle of the door leaf.

3、Installation Technical Requirements

1）Except for special specifications or certain control requirements, as well as those determined by the design unit, the installation of hardware can be carried out in accordance with the specifications described in the National Building Standard Design Atlas 04J631 compiled by the China Building Standards Design and Research Institute;

2）Install each hardware according to the manufacturer's instructions and recommendations. Whether it is internal or surface mounted hardware, if it needs to be cut or matched, it must be painted or finished on the door surface, removed, stored, reinstalled, and subjected to surface protection treatment before proceeding. And only after the primer is completed can the hardware be installed;

3）Set horizontal or vertical lines to ensure the correct installation position. If necessary, adjust and reinforce the base plate for proper installation and operation.

4、Information to Be Provided by The Bidder

1）Product information: According to the requirements, the bidder will submit the product technical information of each hardware manufacturer, including necessary documents to prove compliance with the design requirements, installation instructions, and maintenance instructions for operating components and finishes;

2）Hardware configuration table: The supplier shall prepare and submit the final hardware configuration table in the following form for confirmation by the design unit and the tenderer before manufacturing. The content includes information such as the size of the door, functional area, form of the door, opening direction, and hardware configuration of each door

3）The final hardware configuration table includes: based on the hardware summary table, the file configuration table is divided into "hardware groups" according to the listed hardware, indicating the various hardware required for each door. Including the following information:

a.The model, style, functional description, quantity, and finish of the hardware;

b.Hardware name and manufacturer;

c. The corresponding positions of hardware on doors and frames;

4）Before submitting the hardware configuration table and placing an order, the bidder must submit a set of exposed hardware samples that meet the requirements listed in the hardware configuration table in this technical requirement, along with coordinated finishes, for confirmation by the design unit and the bidder's representative;

5）The bidder shall provide samples for all doors, door frames, and other product manufacturers that require factory prefabrication for the installation of hardware components.

5、Product Delivery

1）Bidders should request hardware manufacturers to label and package each hardware item according to the hardware configuration table, and attach basic installation instructions.

2）The hardware manufacturer will work with the bidder's representative or installer to count the provided hardware until the quantity is correct and meets the contract requirements.

3）For the convenience of management, the tenderer proposes to use a master key system for the key of the station equipment management room area, which is set according to the three-level key system and special keys. The details are as follows:

A.Primary key

The highest level key, the first level key, can open all doors of this station (except for special keys)

B. Secondary key

Professional key, secondary key can open all doors of a certain profession. Each profession can develop multiple secondary keys according to their usage needs, and develop their own range of rooms that can be opened by secondary keys.

C.Third level key

A room key, a third level key, can open all the doors of a room.

D.Special key

a. The keys for opening the connecting passage doors and pump room doors of the entire line section are not included in the overall key system, but are independently configured;

b.Special facilities such as other line rooms, police rooms, ticketing rooms, vending machine rooms, customer service centers, etc. in the station equipment management area

The keys of the rooms are individually configured and are not included in the overall key system.

4）Among them, the station equipment rooms involved in the secondary key master key system are divided into three categories, so the secondary keys are correspondingly divided into three categories. The classification requirements are as follows:

A：The first category is ventilation and air conditioning rooms, including chiller rooms, ventilation and air conditioning rooms, air ducts, air chambers, etc;

B：The second category of B is the dynamic lighting room, including the lighting distribution room, environmental control and electrical control room, etc;

C：The third category is water supply and drainage rooms, including sewage pump rooms, wastewater pump rooms, fire pump rooms, etc.

Note: The specific secondary key classification is subject to the final design liaison.

5）The bidder shall be responsible for keeping all hardware items that have been delivered to the site for use in the project but have not yet been installed.

6）Explanation：：

a.The bidder is required to select the appropriate hardware group from the hardware configuration table for each door of each station within the scope of this bidding to configure door hardware. Doors that are not fully listed should be selected according to similar doors.

b.The principles and methods for applying hardware groups can be found in the notes after the hardware configuration table

c.In order to facilitate the management of lock cylinders and after-sales maintenance, all hardware products selected by the bidder (including escape door locks and core locks, hinges, door closers, etc.) must be produced by the same manufacturer, and all door hardware products should be supplied by the same supplier. The bidder is required to provide the bidder with product authorization documents from the hardware manufacturer.

d.The door hardware supplier selected by the bidder should have professional planning and graphic integration capabilities for door hardware to cope with potential hardware configuration changes caused by design changes.

6、Technical Documents And Materials

The bidder shall provide relevant technical data, including drawings, manuals, test reports, and other technical materials, in accordance with the requirements of the User Requirements Specification and in combination with the characteristics of the bidding product and the actual needs of this project.

Technical data should include but not be limited to the following:

1）List of product descriptions;

2）A detailed description of the main technical indicators and performance of the product;

3）Product related testing, inspection, and testing reports;

4）The main production process of the product;

5）The testing, inspection, and debugging methods of the supplied products;

6）Project implementation progress control plan;

7）Implementation plan for related services;

8）Analysis of product operation and maintenance costs;

Hardware Configuration Table Template

Item	Door number	Door code	Room name	Outside area	Door leaf	Opening direction	Door material	Door width	Door height	Fireproof	Lock type	Hardware Group
1	N4-01	GFM	Station Control Room	Walkway	Double	Right, outside	Steel	1200	2300	First class	classroom lock	SHW-01
2	N4-02	GFM	Station master Room	Walkway	Single	Right, outside	Steel	900	2300	First class	classroom lock	SHW-02
3	N4-03	GHM	Meeting Room	Walkway	Double	Right, inside	Steel	1200	2300	no	classroom lock	SHW-03
4	N4-04	GFSM	Police Office	Public area	Single	Left, inside	Steel	1000	2300	First class	classroom lock	SHW-04
5	N4-05	GHM	Changing room	Walkway	Single	Right, inside	Steel	1000	2300	no	Bathroom lock	SHW-04
6	N4-06	GHM	Changing room	Walkway	Single	Right , inside	Steel	1000	2300	no	Bathroom lock	SHW-05
7	N4-07	GHM	Connected aisle	passage	Double	Double, swing	Steel	1500	2300	First class	Push bar lock against wind pressure	SHW-06
8	N4-08	GHM	Cleaning tool room	Walkway	Single	Right , inside	Steel	1000	2300	no	classroom lock	SHW-07
9	N4-09	GHM	washroom	Walkway	Single	Right, inside	Steel	1000	2300	no	Indicating bathroom lock	SHW-08
10	N4-10	GHM	washroom	Walkway	Single	Right , inside	Steel	1000	2300	no	Indicating bathroom lock	SHW-08
11	N4-11	GFDM	AFC Ticket Office	Walkway	Single	Left , inside	Steel	1200	2300	First class	Burglar-proof lock	SHW-09
12	N4-12	GFM	AFC Ticket Office	Walkway	Single	Left, outside	Steel	1000	2300	no	Storeroom lock	SHW-10
13	N4-13	GFM	AFC Maintenance work area	Walkway	Double	Right, outside	Steel	1500	2300	First class	Storeroom lock	SHW-11
14	N4-13	GFM	AFC Maintenance work area	Walkway	Double	Right, outside	Steel	1500	2300	First class	Storeroom lock	SHW-11
15	N4-14	GFM	Advertising spare parts warehouse	Walkway	Single	Left, inside	Steel	1000	2300	First class	Storeroom lock	SHW-10
16	N4-15	GFM	Driver's cage	Walkway	Single	Right, inside	Steel	1000	2300	First class	classroom lock	SHW-04
17	N4-16	GFM	Train inspection room	Walkway	Single	Right, inside	Steel	1000	2300	First class	Storeroom lock	SHW-10
18	N4-17	GHM	Vehicle repair tool room	Walkway	Single	Right, outside	Steel	1000	2300	First class	Storeroom lock	SHW-10
19	N4-18	GFM	Ventilation and air conditioning room	Walkway	Double	Left, outside	Steel	1500	2300	First class	Storeroom lock	SHW-12
20	N4-19	GFM	Thoroughfare	Walkway	Double	Right, outside	Steel	1200	2300	First class	Channel lock	SHW-13
21	N4-20	GFBM	Air duct	Air duct	Single	Left, outside	Steel	1000	2300	no	Air tight lock	SHW-14
22	N4-21	GFSM	Walkway	Common area	Double	Left, outside	Steel	1500	2300	First class	Push bar	SHW-15
23	N4-22	GFM	Anterior chamber	stairwell	Double	Left, outside	Steel	1500	2300	First class	Push bar	SHW-15

Hardware group template
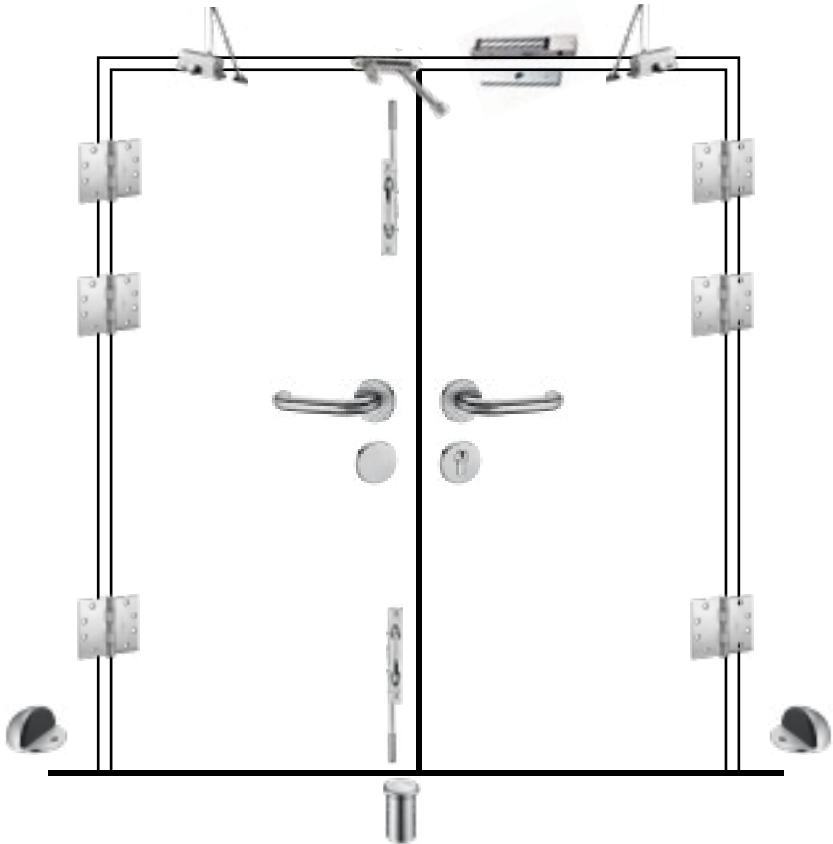
Hardware group: SHW-01						
Product name	Quantity	Unit	Surface treatment	Brand	Model number	Function description
European standard hinge	6	Pcs	Hairline	KIN LONG	SHY403030-2BB	4.0*4.0*3.0，200,000 lifetimes，304 stainless steel main material
European standard classroom lock	1	Set	Hairline	KIN LONG	ST5572E5-- SSN12730FE	European standard EN12209，CE certification，Passed 1.5 hours of fire resistance testing and 200000 life tests;
Deputy lock	1	Set	Hairline	KIN LONG	SSN12730-False lock	Dummy handle
European standard door closers	2	Pcs	silver	KIN LONG	BBM90105	European standard EN1154，500,000 lifetimes
Overload the sequencer	1	Pcs	Hairline	KIN LONG	SSW12604	304 stainless steel，Passed 1.5 hours of fire resistance testing
External single door magnetic lock	1	Pcs	silver	KIN LONG	KDS15010	When power off, the door will be open
Steel door latch	2	Pcs	Hairline	KIN LONG	SCX12701	6 "steel door manual hidden latch
Dust cans	1	Pcs	Hairline	KIN LONG	SFT12801	304 stainless steel main material, used with latch
Half ball doorstop	2	Pcs	Hairline	KIN LONG	SMX12211	304 stainless steel material

Key management system

Key management systems are often used in apartments, office buildings, commercial spaces and other places. Various sizes, forms and specials are produced according to different needs.

Functional lock cylinder. With a set of Kinlong Master Key, you can open any door of your company or home as you like, which is safe and convenient.

The key management system is divided into two-level management lock cylinder, three-level management lock cylinder and four-level management lock cylinder. The master key of a certain level can open the specified range

All door locks. For example, GMKA can open MKAA, MKAB, KAA1, KAA2, KAB1, KAB2, but cannot open the upper level GGMA

And door locks within the scope of GMKB. The dedicated key of each lock is an independent key, and only the matching lock can be opened.

Key management system architecture diagram:
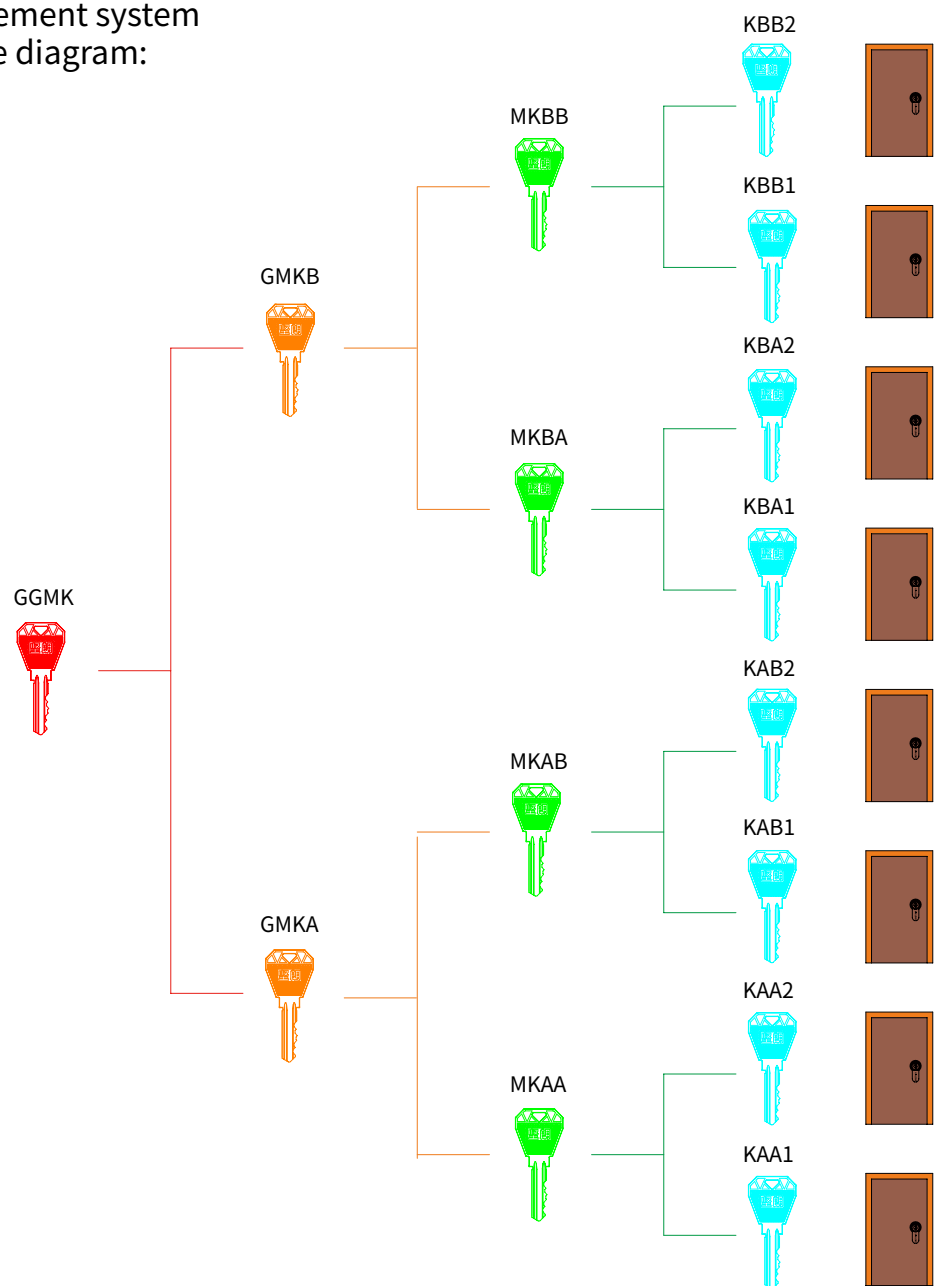
This system makes the corresponding key management system according to the architecture of each building

Secondary management lock cylinder

The secondary management lock cylinder has a master key, which can open the lock cylinder of the entire system.The lower level of the master key is divided into multiple independent keys, and each key opens its own lock cylinder:

Master key MKA

Personal key

Lock cylinder
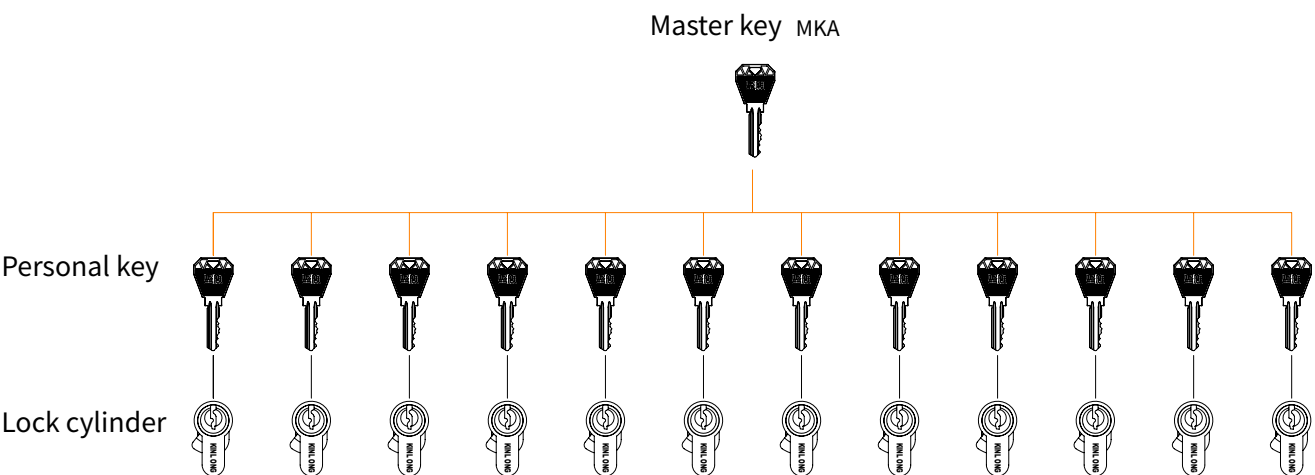
Subway project master key architecture diagram

Management center

Transfer center | Various stations

Dispatch and control center | Administrative and other departments | Maintenance department | Security department | Station maintenance department | Engineering maintenance | Cleaning department

Computer room | Office | Office | Maintenance office | Warehouse | Fire passage | Ticketing | Crew | Office | Office | Sub theme | Maintenance warehouse | Bathroom changing room | Warehouse

KIN LONG provides a full range of hardware solutions for eight scenes

Rail transit hardware
(this catalogue)

Hotel hardware

Shopping mall hardware

Office building hardware

School hardware

Airport hardware

Hospital hardware

Hardbound room hardware

Rail transit solution

Wall/ground system

Equipment room
Escape passage

Fire door
Escape lock

Hardcover matching

● Platform level
Movable rail
Telescopic railing
Seats/stainless steel trash cans
On-off arrow/sign/blind path

● Hall level
Movable rail
Telescopic railing
stainless steel trash cans
sign/blind path

Public area

● Public toilet
Bathroom partition hardware
Ceramic sanitary ware
Toiletry hardware

● Separate toilet
Bathroom partition hardware
Ceramic sanitary ware
Toiletry hardware
Safety handrail

● Changing room
Bathroom partition hardware
Matching hardware

Toilet system

Tunnel area

● Air duct sealed door
Gas-tight door

● Tunnel section gate
Access door
Fire door

Platform level

● Waiting area
Shaft lock/trap door (fire hydrant)
Bathroom door

● Equipment housing area
Fire door
Escape door
Access control system
Security door

Hall level

● Equipment/
management occupancy area
Fire door
Escape door
Access control system
Security door

● Common area
Pipe door/trap door (fire hydrant)
Bathroom door

● Channel region
Open the door with a frame
Pipe door/trap door (fire hydrant)

Door hardware system

Hardware Configuration Solution for Rail Transit （American Standard Series）

Hardware configuration of spare parts warehouse locks
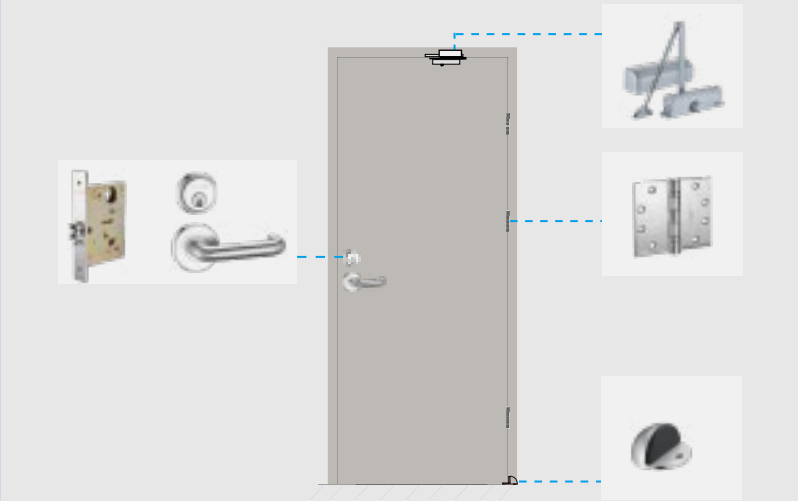
Application site	Product name	Product model	Material	Unit	Quantity
Equipment room	American standard storage room function lock	ST7092A6-SMB10213	304 stainless steel	Set	1
Spare parts warehouse	American standard door closer	BBM60006	Aluminum alloy	Set	1
High voltage room	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	3
Weak current room	Door stopper	SMX12211	304 stainless steel	Pcs	1

Hardware configuration of station control room locks
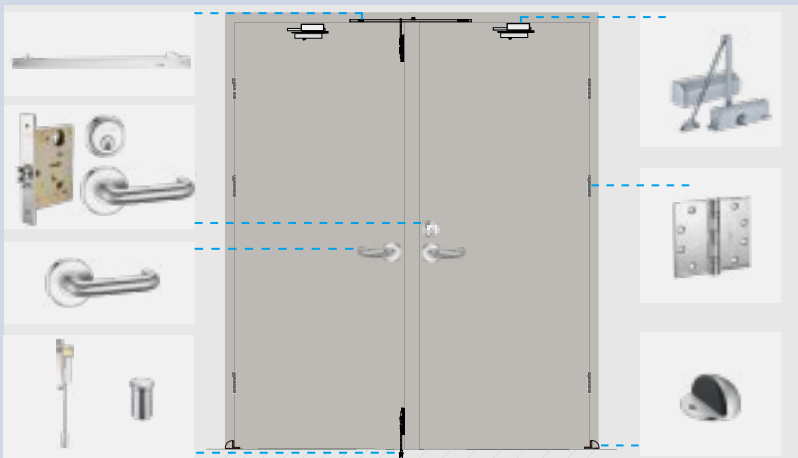
Application site	Product name	Product model	Material	Unit	Quantity
Station controller	American standard classroom lock	ST7092A5-SMB10213	304 stainless steel	Set	1
	False lock	SMB10213	304 stainless steel	Set	1
	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	6
Conference room	American standard door closer	BBM60006	Aluminum alloy	Set	2
Environmental control electric control room	Hidden sequencer	SSW12603	304 stainless steel	Pcs	1
	Steel door automatic latch	SCX12710	304 stainless steel	Pcs	2
	Dustproof cylinder	SFT12801	304 stainless steel	Pcs	1
	Door stopper	SMX12211	304 stainless steel	Pcs	2

Walkway lock hardware configuration

Application site	Product name	Product model	Material	Unit	Quantity
Equipment area passage	American standard channel lock	ST7092A1-SMB10213	304 stainless steel	Set	1
	Deputy lock	SMB10213	304 stainless steel	Set	1
	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	3
	American standard door closer	BBM60006	Aluminum alloy	Set	2
Walkway	Concealed sequencer	SSW12603	304 stainless steel	Pcs	1
	Steel door automatic latch	SCX12710	304 stainless steel	Pcs	2
	Dust-proof cylinder	SFT12802	304 stainless steel	Pcs	1
	Door stopper	SMX12211	304 stainless steel	Pcs	2

Hardware configuration of mother and baby room lock

Application site	Product name	Product model	Material	Unit	Quantity
Changing room	American Standard Dormitory Locks	ST7092AB-SMB10213	304 stainless steel	Set	1
Baby room	Delayed door closer	BBM90115	Aluminum alloy	Set	1
Accessible bathroom	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	3
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Lounge lock hardware configuration

Application site	Product name	Product model	Material	Unit	Quantity
Office	American standard office locks	ST7092A3-SMB10213	304 stainless steel	Set	1
Lounge	American standard door closer	BBM60006	Aluminum alloy	Set	1
Tool room	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	3
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Hardware configuration of self-service ticket vending machine room locks

Application site	Product name	Product model	Material	Unit	Quantity
Vending machine rooms	Anti theft lock	SFDS0207-68	304 stainless steel	Set	1
AFC ticketing room	Anti-theft hinge	SHY12112	304 stainless steel	Pcs	3
	American standard door closer	BBM60006	Aluminum alloy	Set	1
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Hardware configuration of tea room locks

Application site	Product name	Product model	Material	Unit	Quantity
Pantry Office restroom	Bead lock	SFZ11206	304 stainless steel	Set	1
	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	3
	American standard door closer	BBM60006	Aluminum alloy	Set	1
	Sliding plate	STB12901	304 stainless steel	Set	1
	Door stopper	SMX12222	304 stainless steel	Pcs	1

Hardware configuration of safety exit locks

Application site	Product name	Product model	Material	Unit	Quantity
Equipment area passage Staircase Emergency Exit	American standard horizontal push bar lock	STS11801	304 stainless steel	Set	1
	American standard shootbolt lock push bar system	STS11802	304 stainless steel	Set	1
	External handle lock	STS11810	304 stainless steel	Set	1
	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	6
	American standard door closer	BBM60006	304 stainless steel	Set	2
	Heavy duty sequencer	SSW12604	304 stainless steel	Pcs	1
	Door stopper	SMX12222	304 stainless steel	Pcs	2

Hardware configuration of locks in public restroom

Application site	Product name	Product model	Material	Unit	Quantity
Public Bathroom Bathroom Changing room	American standard indicating bathroom lock	ST7092A9-SMB10213	304 stainless steel	Set	1
	American standard door closer	BBM60106	Aluminum alloy	Set	1
	American standard level-II hinge	SHY454034-2BB	304 stainless steel	Pcs	3
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Hardware configuration of locking devices for section communication channels

Upper door shaft

Middle door axis

Lower door shaft
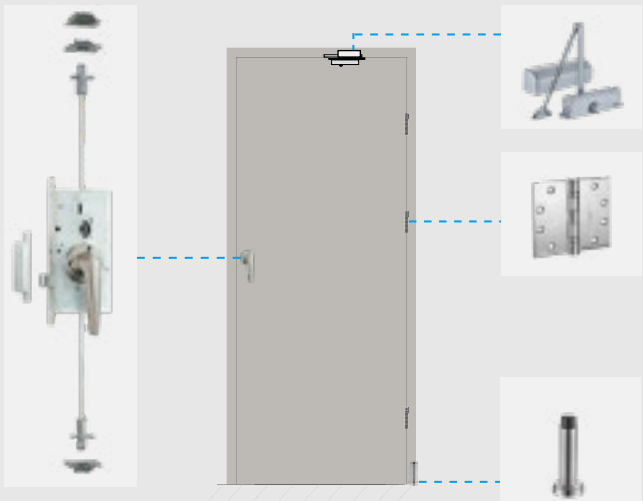
Application site	Product name	Product model	Material	Unit	Quantity
Section connection channel	Four point anti wind pressure push bar lock	STS11510	304 stainless steel	Set	1
	External handle lock	STS11712	304 stainless steel	Set	1
	American standard door closer	BBM60206	Aluminum alloy	Set	1
	Eccentric door spindle	SHY12140F	304 stainless steel	Set	1

New air duct door lock hardware configurati

Application site	Product name	Product model	Material	Unit	Quantity
New air duct door	Airtight lock	SQM46032	304 stainless steel	Set	1
	American standard door closer	BBM60006	Aluminum alloy	Set	1
	American standard secondary hinge	SHY454034-2BB	304 stainless steel	pcs	3
	Door stopper	SMX12222	304 stainless steel	Pcs	1

Hardware Configuration of Public Bathroom Bathroom

Product name	Product model	Picture	Material
Induction faucet	WSZ45981		Brass/chrome plated
Angle valve	WSZ7105B		304 stainless steel /Matte
Pop-up drain	WSZ96040		Brass/chrome plated
Drain pipe	WSZ96220		Brass/chrome plated
Toilet tissue box	WZH20080		304 stainless steel /Matte
Hand dryer	WDQ20030		ABS/white
Soap dispenser	WFJ41010		ABS/white
Floor drain	WDL3931C-75		Brass/chrome plated
Tissue box	WZH10160		Stainless steel /hairline

Hardware configuration ofsignal equipment room locks
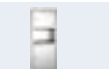
Application site	Product name	Product model	Material	Unit	Quantity
Power distribution room	American standard mechatronic lock	CML850	304 stainless steel	Set	1
Signal equipment room	American standard door closer	BBM60006	Aluminum alloy	Set	1
Station master's room	American standard secondary hinge	SHY454034-2BB	304 stainless steel	Pcs	3
	Wire breaker	SGX12801	304 stainless steel	Set	1
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Accessible bathroom bathroom hardware configuration

Product name	Product model	Picture	Material
Induction faucet	WSZ45981		Brass/chrome plated
Angle valve	WSZ7105B		304 stainless steel /Matte
Pop-up drain	WSZ96040		Brass/chrome plated
Toilet tissue box	WZH20080		304 stainless steel
Hand dryer	WDQ20030		ABS/white
Floor drain	WDL3931C-75		Brass/chrome plated
Safety handrails	WFS42110		Nylon+304 stainless steel
Safety handrails	WFS41010		Nylon+304 stainless steel
Safety handrails	WFS42090		Nylon+304 stainless steel

Hardware configuration of mother and baby room bathroom

Product name	Product model	Picture	Material
Toilet tissue box	WSH2008A		304 tainless steel /Matte
Baby crib	WFG41020		HDPE/ grey
Induction faucet	WSZ45981		Brass/ chrome plated
Pop-up drain	WSZ96030		Brass/ chrome plated
Drain pipe	WSZ96220		Brass/Matte
Angle valve	WSZ71090		304 stainless steel

Tea room bathroom hardware configuration

Product name	Product mode	Picture	Material
Vegetable basin faucet	WSZ44010		304 stainless steel
Sink	WCP12030		304 stainless steel
Angle valve	WSZ71090		304 stainless steel
Kitchen shelf	WYG11080		304 stainless steel

Hardware Configuration Solution for Rail Transit（European Standard Series）

Hardware configuration of weak current room locks

Application site	Product name	Product model	Material	Unit	Quantity
Equipment area	European standard storage room lock	ST6072E6-SSN12730	304 stainless steel	Set	1
Spare parts warehouse	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	3
Strong (weak) electrical room	European standard door closer	BBM90006	aluminum alloy	Set	1
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Walkway lock hardware configuration

Application site	Product name	Product model	Material	Unit	Quantity
Equipment area passage	European standard channel lock	ST6072E1-SSN12730FE	304 stainless steel	Set	1
	Deputy lock	SSN12730	304 stainless steel	Set	1
	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	6
	European standard door closer	BBM90006	Aluminum alloy	Set	2
Walkway	Sequencer	SSW12602	304 stainless steel	Pcs	1
	Manual latch for steel doors	SCX12701	304 stainless steel	Pcs	2
	Dustproof cylinder	SFT12802	304 stainless steel	Pcs	1
	Door stopper	SMX12211	304 stainless steel	Pcs	2

Hardware configuration of locks in the environmental control electric control room

Application site	Product name	Product model	Material	Unit	Quantity
	European standard classroom lock	ST5572E5-SSN12730	304 stainless steel	Set	1
	Deputy lock	SSN12730	304 stainless steel	Set	1
Station controller	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	6
Meeting Room	European standard door closer	BBM90006	aluminum alloy	Set	2
	Sequencer	SSW12602	304 stainless steel	Pcs	1
Environmental control electric control room	Manual latch for steel doors	SCX12701	304 stainless steel	Pcs	2
	Dustproof cylinder	SFT12801	304 stainless steel	Pcs	1
	Door top	SMX12211	304 stainless steel	Pcs	2

Office lock hardware configuration

Application site	Product name	Product model	Material	Unit	Quantity
Office	European standard office lock	SSN12730FE	304 stainless steel	Set	1
Lounge	European standard door closer	BBM90006	aluminum alloy	Set	1
Tool room	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	3
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Accessible bathroom lock hardware configuration

Application site	Product name	Product model	Material	Unit	Quantity
Changing room	European standard bolt lock	ST6072E4-SSN12700	304 stainless steel	Set	1
Nursery	European standard door closer	BBM90006	Aluminum alloy	Set	1
Accessible restroom	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	3
	Door stopper	SMX12211	304 stainless steel	Pcs	1
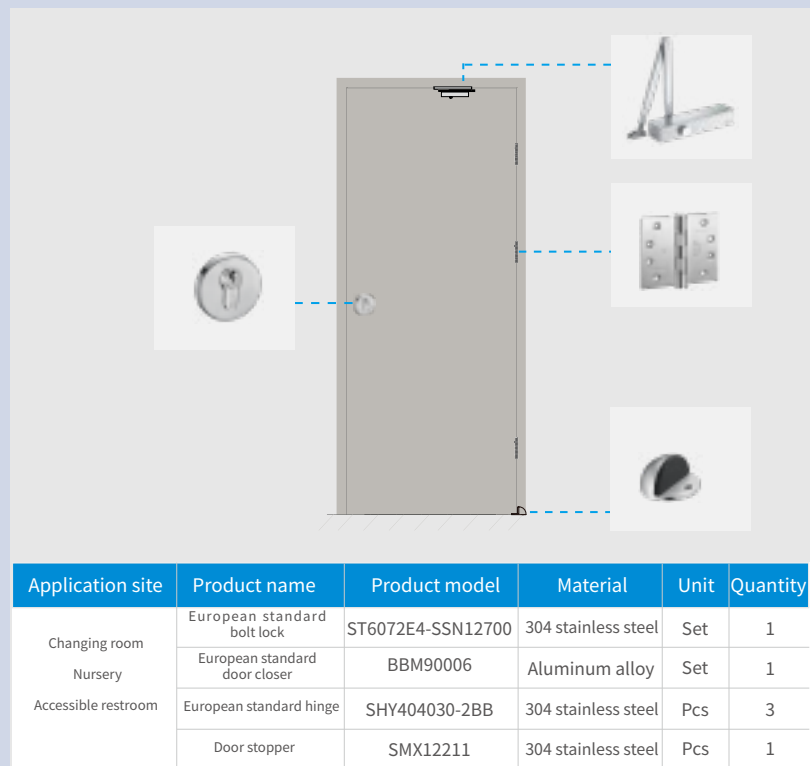
Hardware configuration of office restroom locks

Application site	Product name	Product model	Material	Unit	Quantity
Pantry	Sliding plate	STB12901	304 stainless steel	Set	1
	Bead lock	SFZ11206	304 stainless steel	Pcs	1
Office restroom	Multifunctional hinge	SHY42135	Aluminum alloy	Pcs	3
	Door stopper	SMX12222	304 stainless steel	Pcs	1

AFC ticketing room lock hardware configuration

Application site	Product name	Product model	Material	Unit	Quantity
Ticket vending machine room	Anti-theft lock	SFDS0207-68	304 stainless steel	Set	1
	Anti theft hinge	SHY12111	304 stainless steel	Pcs	3
AFC Ticket Office	European standard door closer	BBM90006	Aluminum alloy	Set	1
	Door stopper	SMX12211	304 stainless steel	Pcs	1
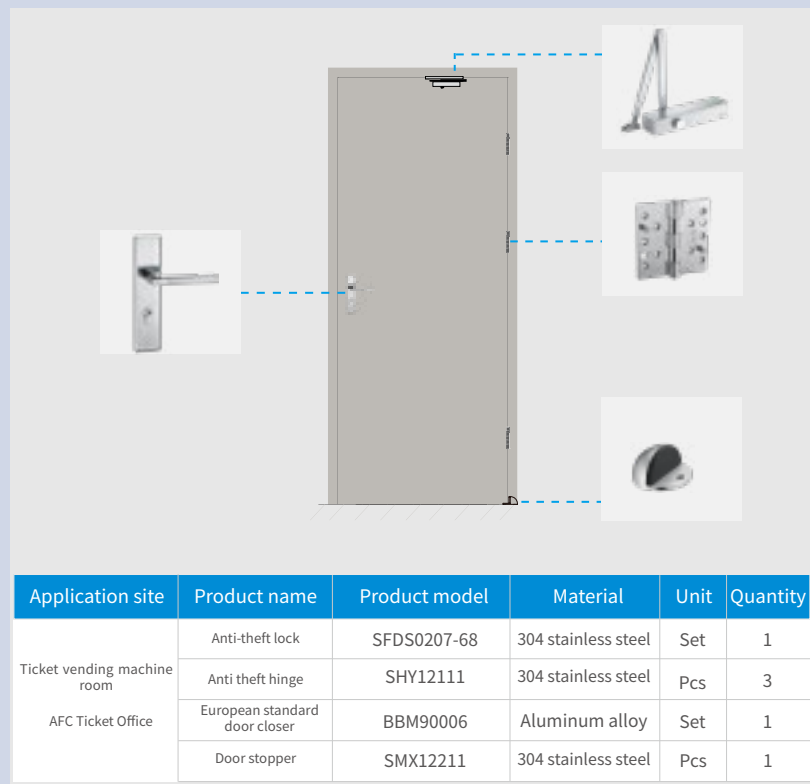
Hardware configuration of lockers in the changing room

Application site	Product name	Product model	Material	Unit	Quantity
Public area restroom changing room	European standard indicating bathroom lock	ST6078E9-SSN12730	304 stainless steel	Set	1
	European standard door closer	BBM900115	Aluminum alloy	Set	1
	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	3
	Door stopper	SMX12211	304 stainless steel	Pcs	1
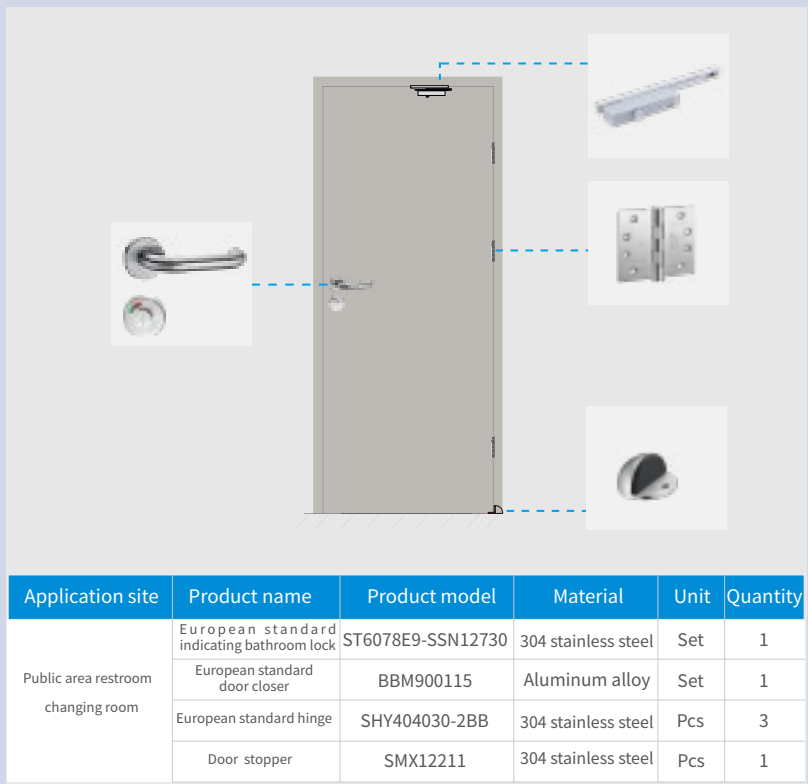
Hardware configuration of staircase lock

Application site	Product name	Product model	Material	Unit	Quantity
Equipment area passage Staircase Emergency Exit	European standard horizontal push bar lock	STS11701	304 stainless steel	Set	1
	European standard shootbolt lock push bar system	STS11702	304 stainless steel	Set	1
	External handle lock	STS11712	304 stainless steel	Set	1
	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	6
	European standard door closer	BBM90006	aluminum alloy	Set	2
	Overload sequencer	SSW12604	304 stainless steel	Pcs	1
	Door stopper	SMX12222	304 stainless steel	Pcs	2

New air duct door lock hardware configurati

Application site	Product name	Product model	Material	Unit	Quantity
New air duct door	Airtight lock	SQM46032	304 stainless steel	Set	1
	European standard door closer	BBM90006	Aluminum alloy	Set	1
	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	3
	Door stopper	SMX12222	304 stainless steel	Pcs	1

Hardware configuration of locking devices for section communication channels

Upper door shaft

Middle door axis

Lower door shaft

Application site	Product name	Product model	Material	Unit	Quantity
Section connection channel	Four point anti wind pressure push bar lock	STS11510	304 stainless steel	Set	1
	External handle lock	STS11712	304 stainless steel	Set	1
	American standard door closer	BBM60206	Aluminum alloy	Set	1
	Eccentric door spindle	SHY12140F	304 stainless steel	Set	1

Hardware configuration of locks in the station master's room

Application site	Product name	Product model	Material	Unit	Quantity
Power distribution room Signal equipment room Station master's room	Integrated access control machine	KDM22020	Plastic	Set	1
	European standard mechatronic lock	ST6072TD-SSN12730-EU	304 stainless steel	Set	1
	European standard door closer	BBM90115	Aluminum alloy	Set	1
	European standard hinge	SHY404030-2BB	304 stainless steel	Pcs	2
	Thread passing hinge	TD454030	304 stainless steel	Pcs	1
	Door stopper	SMX12211	304 stainless steel	Pcs	1

Hardware Configuration of Public Bathroom Bathroom

Product name	Product model	Picture	Material
Induction faucet	WSZ45940		Brass/ chrome plated
Angle valve	WSZ7110H/C		304 tainless steel /Matte
Pop-up drain	WSZ96010		Brass/ chrome plated
Drain pipe	WSZ96210		Brass/ chrome plated
Tissue box	WZH30060		ABS/white
Hand dryer	WDQ20010		ABS/white
Soap dispenser	WFJ10020		ABS/transparent
Floor drain	WDL3012C		304 stainless steel/ chrome plated
Tissue box	WZH10160		Aluminum alloy

Hardware configuration of mother and baby room bathroom

Product name	Product model	Picture	Material
Toilet paper box	WSH2008A		304 tainless steel /Matte
Baby crib	WFG41010		HDPE/grey
Induction faucet	WSZ45940		Brass/ chrome plated
Pop-up drain	WSZ96010		Brass/ chrome plated
Drain pipe	WSZ96210		Brass/Matte
Angle valve	WSZ71090		304 stainless steel

Accessible bathroom bathroom hardware configuration

Product name	Product model	Picture	Material
Induction faucet	WSZ45940		Brass/ chrome plated
Angle valve	WSZ7110H/C		304 tainless steel /Matte
Pop-up drain	WSZ96040		Brass/ chrome plated
Drain pipe	WSZ96220		Brass/ chrome plated
Hand dryer	WDQ20010		ABS/white
Floor drain	WDL3931C-75		Brass/ chrome plated
Safety handrail	WFS42110		Nylon + 304 tainless steel
Safety handrail	WFS41010		Nylon + 304 tainless steel
Safety handrail	WFS42090		Nylon + 304 tainless steel

Tea room bathroom hardware configuration

Product name	Product model	Picture	Material
Vegetable basin faucet	WSZ44010		304 stainless steel
Sink	WCP12030		304 stainless steel
Angle valve	WSZ71090		304 stainless steel
Kitchen shelf	WYG11080		304 stainless steel

Door Hardware Series

Lock hardware typical picture book

American standard lock series

ST7092A American standard lock body | American standard handle cover ring | SX-008 Cylinder

Comply with American ANSI/BHMA A156.13 Grade 1 standard
Passed ANSI certification, passed UL certification
Suitable for steel or wooden entrance doors, villa doors, etc.
8 lock bodies with different functions to choose from, suitable for different places
1 million times of opening life, sturdy and durable, the latch bolt is adjustable
The function switch button can easily switch the function of door lock and channel lock
The safety tongue can prevent the latch bolt from being inserted
Equipped with s slot single row 6 ball marble lock cylinder

Center to center distance: 70mm
Hole center distance: 92mm
Applicable door thickness: above 45mm (centered installation)
Each model has a different maximum door thickness applies to. If it's beyond the max thickness, some fiitings need be customized

Cover plate: 304 Stainless steel
Mounting screws: Stainless steel
Surface treatment:Stainless steel hairline

SMB10211 American standard fire lock

Function	Model
Channel lock	ST7092A1-SMB10211
Office lock	ST7092A3-SMB10211
Classroom lock	ST7092A5-SMB10211
Storage room lock	ST7092A6-SMB10211
Indicative public restroom lock	ST7092A9-SMB10211
Dormitory Lock	ST7092AB-SMB10211
Entry lock	ST7092AC-SMB10211
Apartment lock	ST7092AD-SMB10211

SMB10213 American standard fire lock

Function	Model
Channel lock	ST7092A1-SMB10213
Office lock	ST7092A3-SMB10213
Classroom lock	ST7092A5-SMB10213
Storage room lock	ST7092A6-SMB10213
Indicative public restroom lock	ST7092A9-SMB10213
Dormitory Lock	ST7092AB-SMB10213
Entry lock	ST7092AC-SMB10213
Apartment lock	ST7092AD-SMB10213

SMB10212 American standard fire lock

Function	Model
Channel lock	ST7092A1-SMB10212
Office lock	ST7092A3-SMB10212
Classroom lock	ST7092A5-SMB10212
Storage room lock	ST7092A6-SMB10212
Indicative public restroom lock	ST7092A9-SMB10212
Dormitory Lock	ST7092AB-SMB10212
Entry lock	ST7092AC-SMB10212
Apartment lock	ST7092AD-SMB10212

SMB10214 American standard fire lock

Function	Model
Channel lock	ST7092A1-SMB10214
Office lock	ST7092A3-SMB10214
Classroom lock	ST7092A5-SMB10214
Storage room lock	ST7092A6-SMB10214
Indicative public restroom lock	ST7092A9-SMB10214
Dormitory Lock	ST7092AB-SMB10214
Entry lock	ST7092AC-SMB10214
Apartment lock	ST7092AD-SMB10214

SMB10213F   American standard fire lock

Function	Model
American standard channel fire lock	ST7092A1-SMB10213F
American standard classroom fire lock	ST7092A5-SMB10213F
American standard storage room fire lock	ST7092A6-SMB10213F
American standard apartment fire lock	SMB10213F

Certified by ANSI and UL;
Comply with GB12955-2008 fire test and pass fire protection certification;

American standard lock function introduction

NO.	Function type	Model	Diagram	Function description
1	Passage door lock	ST7092A1		Outdoor: Under any circumstances, the outer handle can be pressed down to unlock Indoor: Under any circumstances, the inner handle can be pressed down to unlock
2	Office lock	ST7092A3		Outdoor: 1. The key can be unlocked at any time 2. The key locks or unlocks the outer handle 3. When the outer handle is locked, the outer handle cannot be pressed down to unlock Indoor: 1. The inner handle can be pressed down to unlock at any time 2. The knob can lock or unlock the outer handle
3	Storeroom lock	ST7092A6		Outdoor: 1. The key can be unlocked at any time 2. The outer handle is always fixed and cannot be pressed down to unlock Indoor: 1. The inner handle can be pressed down to unlock at any time
4	Classroom lock	ST7092A5		Outdoor: 1. The key can be unlocked at any time 2. The key locks or unlocks the outer handle 3. When the outer handle is locked, the outer handle cannot be pressed down to unlock Indoor: 1. The inner handle can be pressed down to unlock at any time
5	Entrance door lock	ST7092AC		Outdoor: 1. The key can be used to unlock under any circumstances 2. When the room is locked with a key, the outer handle cannot be pressed down, only the key can be used to unlock Indoor: 1. The inner handle can be pressed down to unlock at any time 2. The key locks or unlocks the outer handle
6	Indicative public toilet lock	ST7092A9		Outdoor: 1. Coins can be used to retract the bolt outside under any circumstances, with indication function 2. When the indoor knob is locked (with the tongue bolt out), the outer handle cannot be pressed down to unlock 3. When the tongue is bolt, the outer handle can be pressed down to unlock Indoor: 1. Under any circumstance, you can open the door by pressing the handle outside 2. The inner handle has an escape function (retract the latch bolt and the dead bolt at the same time), and unlock the outer handle 3. The knob can stick out the bolt and lock the outer handle at the same time
7	Dormitory lock	ST7092AB		Outdoor: 1. The key can be used to unlock under any circumstances 2. When the indoor knob is locked (with the bolt sticking out), the outer handle cannot be pressed down to unlock 3. When the bolt is retracted, the outer handle can be pressed down to unlock, Indoor: 1. Under any circumstances, the inner handle can be pressed down to open the door 2. The inner handle has an escape function (retract the latch bolt and the dead bolt at the same time), and unlock the outer handle 3. The knob can stick out the bolt and lock the outer handle at the same time
8	Apartment lock	ST7092AD		Outdoor: 1. The key can be used to unlock under any circumstances 2. When the indoor knob is locked (with the bolt sticking out), the outer handle cannot be pressed down to unlock 3. When the bolt is retracted, turn the knob up 20° to unlock the outer handle. At this time, the outer handle can be down. Press to unlock Indoor: 1. The door can be opened by pressing the inner handle under any circumstances 2. The inner handle has an escape function (retract the latch bolt and the dead bolt at the same time) 3. The knob can stick out the bolt and lock the outer handle at the same time 4. When the bolt is retracted, turn the knob 20° to unlock the outer handle

American Standard Lock Certificate

American standard mortise lock ANSI certificate · UL certificate for American standard mortise lock
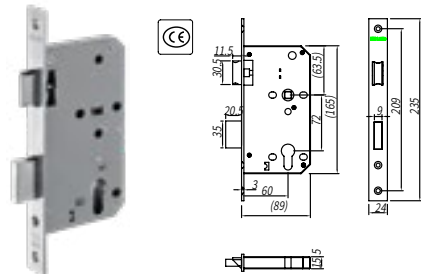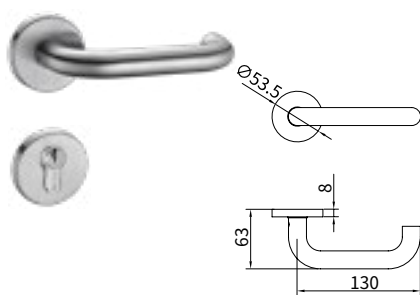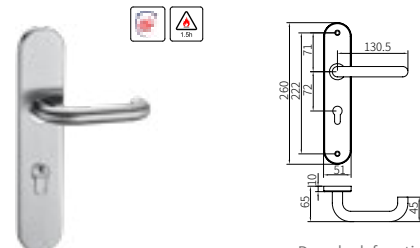
American standard mortise lock fire certification certificate · American standard mortise lock fire certification certificate

European standard lock series

European standard lock series

ST6072E European standard lock body

Comply with European standard EN12209-2003
Suitable for steel or wooden entrance doors, interior doors, etc.
8 lock bodies with different functions to choose from, suitable for different places
Open life of 200,000 times, durable, latch bolt is adjustable
Equipped with S-slot single row six-ball marble lock cylinder, A2+B5 key

European standard handle cover ring

Handle: 304 Stainless steel
Cover plate: 304 Stainless steel
Mounting screws: Stainless steel
Surface treatment:Stainless steel hairline.

SX-003 Cylinder

SS12730 European standard lock

Function	Model
Passage lock	ST6072E1-SSN12730
Bathroom lock	ST6072E2-SSN12730
Door lock	ST6072E3-SSN12730
Unicom door lock	ST6072E7-SSN12730
Indicating bathroom lock	ST6078E9-SSN12730
Storeroom lock	ST6072E6-SSN12730
classroom lock	ST5572E5-SSN12730

SSN12729 European standard lock

Function	Model
Passage lock	ST6072E1-SSN12729
Bathroom lock	ST6072E2-SSN12729
Door lock	ST6072E3-SSN12729
Unicom door lock	ST6072E7-SSN12729
Indicating bathroom lock	ST6078E9-SSN12729
Storeroom lock	ST6072E6-SSN12729
classroom lock	ST5572E5-SSN12729

SS12737 European standard lock

Function	Model
Passage lock	ST6072E1-SSN12737
Bathroom lock	ST6072E2-SSN12737
Door lock	ST6072E3-SSN12737
Unicom door lock	ST6072E7-SSN12737
Indicating bathroom lock	ST6078E9-SSN12737
Storeroom lock	ST6072E6-SSN12737
classroom lock	ST5572E5-SSN12737

SS12738 European standard lock

Function	Model
Passage lock	ST6072E1-SSN12738
Bathroom lock	ST6072E2-SSN12738
Door lock	ST6072E3-SSN12738
Unicom door lock	ST6072E7-SSN12738
Indicating bathroom lock	ST6078E9-SSN12738
Storeroom lock	ST6072E6-SSN12738
classroom lock	ST5572E5-SSN12738

European standard fire lock

Function	Model	Remarks
European standard fire lock	SSN12730FE	Door lock
	ST6072E1-SSN12730FE	Passage lock
	ST6072E5-SSN12730FE	classroom lock
	ST6072E6-SSN12730FE	Storeroom lock

SSN15930F European standard fire lock

Door lock function

45

46

European standard lock function

NO.	Function type	Model	Diagram	Function description
1	Passage door lock	ST6072E1		Single latch bolt, no square bolt Always open the latch bolt with handle inside and outside. Can be used for access doors that do not need to be locked
2	Bathroom lock	ST6072E2		There are latch bolt and square bolt, with keyless bathroom lock. The inner and outer handles always open the latch bolt, the inner knob opens and closes the square bolt; in emergency, coins are used outdoors Wait to insert the lock core slot to open the square bolt. It can be used in residential toilets or public restrooms.
3	Door Lock	ST6072E3		There are latch bolt and square bolt, with double lock head or outer lock head and inner knob. Open the latch bolt with your hands inside and outside, The key opens and closes the square bolt and opens the latch bolt. It can be used for entrance doors or interior doors of houses, apartments, dormitories, office buildings, etc.
4	Unicom door lock	ST6072E7		There are latch bolt and square bolt, equipped with half lock internal knob. Only the outer handle opens the latch bolt, the key can open the latch bolt and square bolt.
5	Indicating bathroom lock	ST6078E9		There are latch bolt and square bolt, no lock, with people/no people display. Open the latch bolt with handles inside and outside,the inner handle can open the latch bolt and the square bolt at the same time, and the inner button opens the square bolt; In an emergency, insert a coin into the indicator slot to open the square bolt outdoors. For public washroom.
6	Dead lock	ST6072E4		Single square bolt, no handle cover plate, with double lock head or outer lock head and inner knob. Key opens and closes square bolt. It can be used in storage rooms, tube wells, or industrial doors that are not often opened.
7	Storeroom lock	ST6072E6		Single latch bolt, with safety bolt, external handle fixed, outdoor with half lock. Inner handle and the external key opens the latch bolt. Used in storage rooms and other places.
8	Classroom lock	ST5572E5		Single latch bolt, with safety bolt, with half lock outdoors. Open the latch bolt with handle inside and outside, The key can lock the outer handle , then only exit allowed, can not enter. Used in classrooms and other places.

European standard lock certificate

European standard mortise lock CE certificate
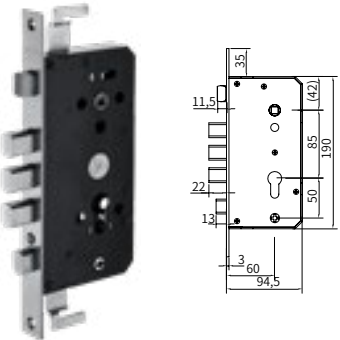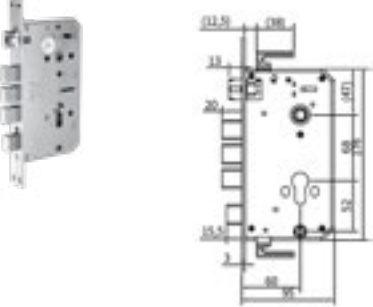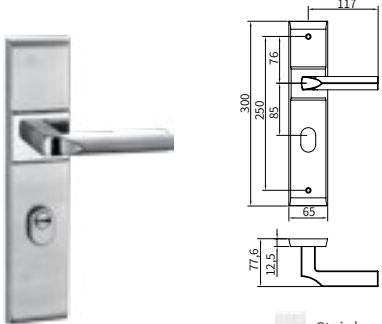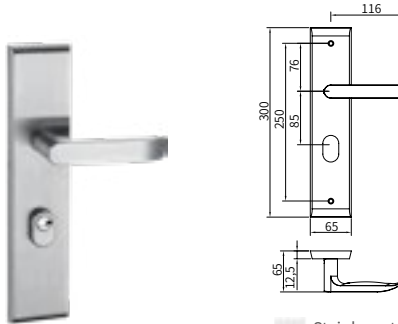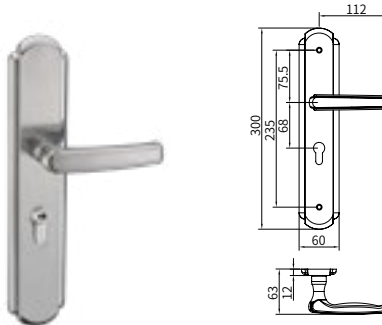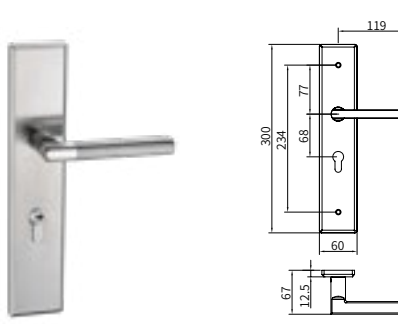
European standard mortise lock fire certification certificate   European standard mortise lock fire certification certificate

Anti theft door lock series

Burglar Lock series

◆ Passed the grade B test of GA / T73 - 2015 mechanical anti-theft lock.

◆ The cylinder passed the C-level test.

◆ Two sections of the lock bolt of the lock body extend out, and the latch bolt can be reversed.

◆ With safety bolt, indoor knob control.

◆ The safety bolt opens only through the interior side knob.

Standard with anti-theft cylinder,indoor and outdoor with the key to open dead bolt and latch bolt.

Handle: 304 Stainless steel

Cover plate: 304 Stainless steel

Mounting screws: Stainless steel

ST6085 Burglar lock body	ST6068 Burglar lock body	SX-006 Burglar lock cylinder

SFD1118F Burglar lock(fire lock)

Lock body specification：ST6085

Applicable door thickness：49-58mm

Stainless steel hairline + Mirror SC

PVD gold （brushed+mirror）P8 (customized color)

Matte green bronze AB (customized color)

SFD11214F Burglar lock(fire lock)

Lock body specification：ST6085

Applicable door thickness：49-58mm

Stainless steel hairline + Mirror SC

PVD gold （brushed+mirror）P8 (customized color)

Matte green bronze AB (customized color)

SFD14810 Burglar lock

Lock body specification：ST6068

Applicable door thickness：59-63mm

Equipped with anti lifting lock and quick escape function

Stainless steel hairline + Mirror SC

PVD gold （brushed+mirror）P8 (customized color)

Matte bronze AB (customized color)

SFDS0207-68 Burglar lock(fire lock)

Lock body specification：ST6068

Applicable door thickness：59-63mm

Equipped with anti lifting lock and quick escape function

Stainless steel hairline + Mirror SC

PVD gold （brushed+mirror）P8 (customized color)

Matte green bronze AB (customized color)

Anti-theft lock certificate

ST6068 Anti-theft lock Class B anti-theft test report

Anti-theft lock core C level anti-theft test report

ST6068 Burglar lock fire certification certificate

ST6085 Burglar lock fire certification certificate

Escape push bar lock series

European standard escape push bar lock series (Flat push type)

European standard escape push bar lock （Flat push type）

- Comply with European standard EN1125-2008,Passed CE certification
- Durability test 200,000 times,90 minute fire detection.
- The bolt and the lock cover are stainless steel 304 precision castings,.
- Single latch bolt structure, easy to use, no left or right.
- Push way to open for easy escape

Body length：1040mm，Pusher length：700mm
Applicable door width：Standard 1040mm,850-1040mm cut to shorter in site
Applicable door height：2135mm （STS11702）
Beyond this range need to customize non-standard product
Main body：304 stainless steel
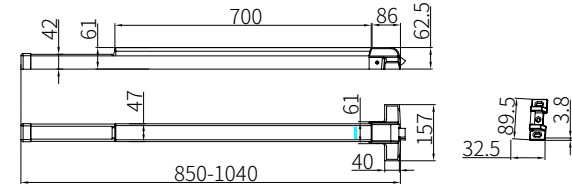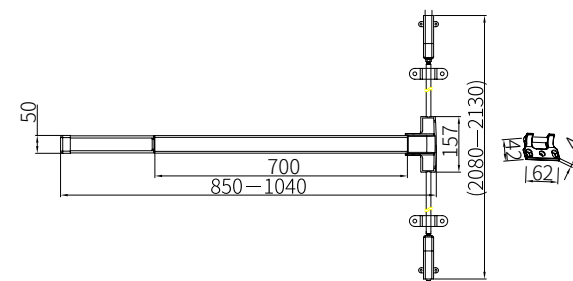
STS11701 European standard escape push bar lock

STS11702 European standard escape push bar lock

American Standard escape push bar lock （Flat push type）

- Meet the American standard ANSI/BHMA A156.3 grade1，UL10C.
- Durability test 500,000 times,90 minute fire detection.
- The bolt and the lock cover are stainless steel 304 precision castings.
- Single latch bolt structure, easy to use, no left or right.
- Push way to open for easy escape

Body length：1040mm，Pusher length：500mm
Applicable door width：Standard 1040mm,650-1040mm cut to shorter in site
Applicable door height：2135mm （STS11802）
Beyond this range need to customize non-standard product
Main body：304 stainless steel
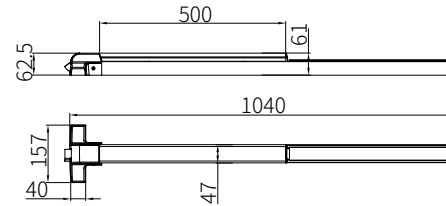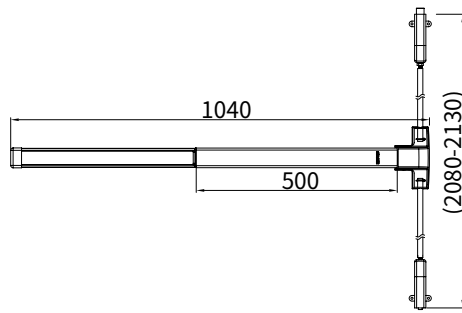
STS11801 American Standard escape push bar lock
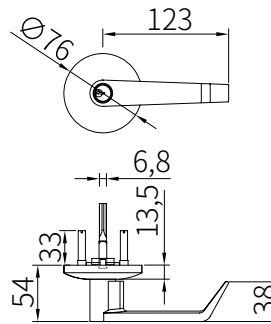
STS11802 American Standard escape push bar lock
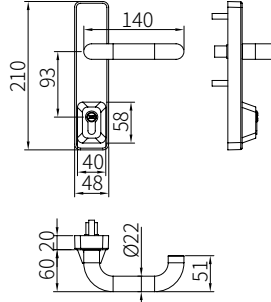
Escape push bar lock series (External lock head)

STS11711 External lock head（European standard）
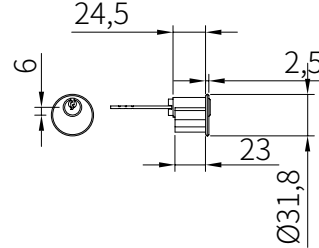
- Suitable for wooden doors and metal doors
- Used with European standard escape push bar
- Keep close or keep ope function can be set
- Optional products
- With 3 keys
- Suitable for STS11701、STS11702

STS11712 External lock head（European standard）
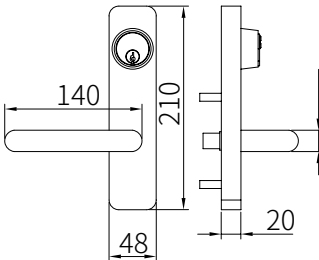
- Suitable for wooden doors and metal doors
- Used with European standard escape push bar
- Keep close or keep ope function can be set
- Handle function
- With 3 keys
- Suitable for STS11701、STS11702

STS21710 External lock head（European standard ,American standard）

- Suitable for wooden doors and metal doors
- Use with European and American standard escape bars
- Keep close or keep ope function can be set
- Handle function
- With 3 keys
- Suitable for STS11701、STS11702、STS11801、STS11802

STS21810 External lock head（American standard）

- Suitable for wooden doors and metal doors
- Used with American standard escape push bar
- Keep close or keep ope function can be set
- Handle function
- With 2 keys
- Suitable for STS11801、STS11802

American standard European standard push bar lock certificate
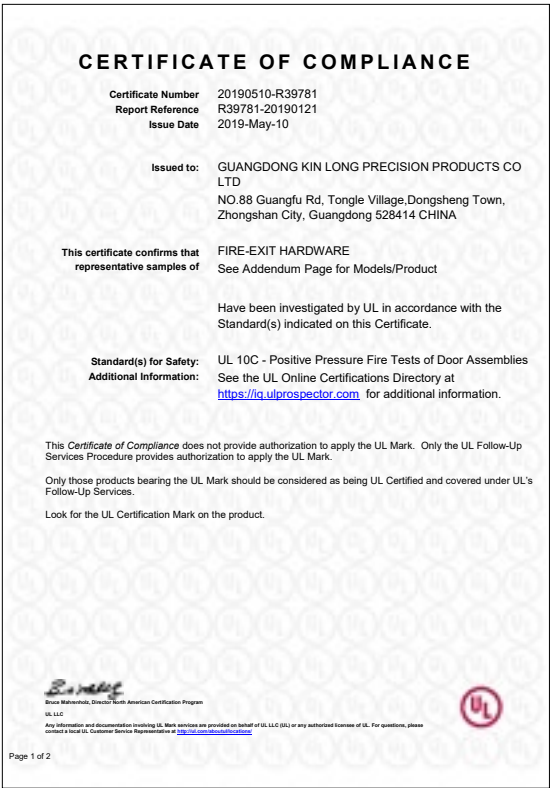
UL certificate for American standard push bar lock

European standard push bar lock CE certificate
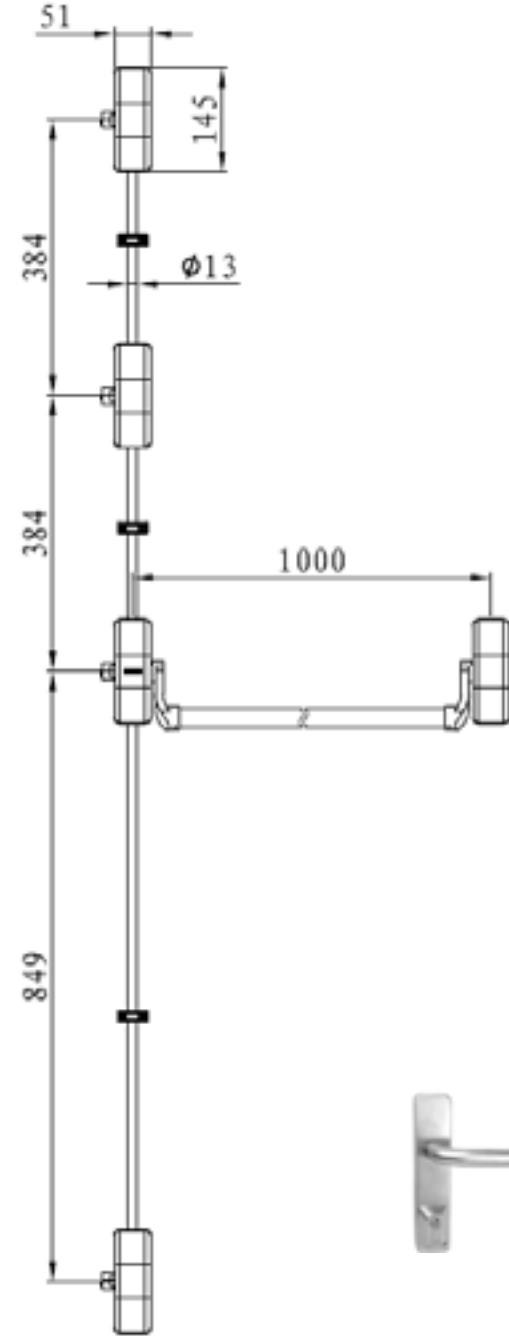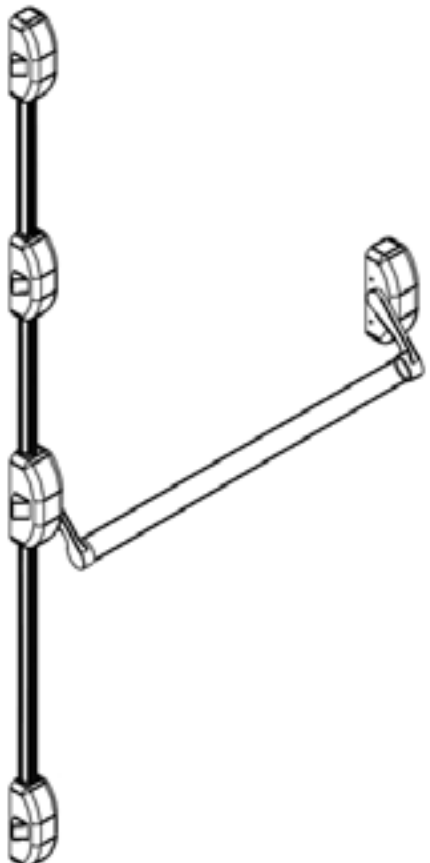
American Standard Push Bar Lock Fire Inspection Report

European Standard Push Bar Lock Fire Inspection Report

Hurricane-rated push bar

STS11510 Hurricane-rated push bar

Hurricane-rated push bar lock inspection report

Description of functional features:

1. Compliance with standards: "GB30051-2013 General technical requirements for push-bar emergency exit locks，GB12955-2008 Fire resistant doorsets 1.5 hours and T/CAMET05001-2020 Wind Pressure Fireproof Doors for Urban Rail Transit Tunnels" .

2. Material: Lock bolt, lock plate and lower press bar are made in S.S. 304, lock body stainless steel.；

3. Four point anti wind pressure push bar lock, resistant to wind pressure up to 6000Pa, with a lifespan of over 500000 times;

4. Suitable for regular door height ≥ 2100mm and width ≥ 1100mm, customized beyond the range;；

5. Cooperate with installation on wind pressure resistant and fireproof doors, optional with external handle lock (ensure that the center distance of the installation connection column is 90mm).

Wind pressure test report

Fire test Report

Performance test report

Airtight lock

Gas lock inspection report

Description of functional features:

1.Compliance with standards:： GB/T7106-2019/Test Method for Air Tightness, Water Tightness, and Wind Pressure Resistance of Exterior Windows and Doors in Buildings,

GB/T31433-2015/ General Technical Conditions for Building Curtain Walls, Doors and Windows.

2.Material: Lock bolt, lock plate, lock cover plate stainless steel.

3.Side dead bolt, upper and lower bolt, resistant to wind pressure up to 3000pa; The lifespan exceeds 500000 times.

4.Door edge dimension：70mm，opening angle：70°

5.Suitable for door height ≤ 2400mm, door thickness 40-60mm，customized beyond the range；

6.To be installed in conjunction with the airtight door.

Fire lock series

Passed national standard GB 21556- 2008.
Passed GB12955-2008 fire test and obtained fire certification.
Solid anti-saw lock bolt,latch bolt can be reversed.
When closed, the outside key can open square bolt and latch bolt.
Equipped with S-slot single row 6-bead cylinder, With 3 keys.
no left or right.

Handle：304 stainless steel
Cover ring：304 stainless steel
Exposed mounting screws：stainless steel
Surface treatment：stainless steel hairline
Customized eccentric cylinder and customized non-standard lock
fastener are required for the groove door.
Applicable door thickness：35-55mm

ST6072 Lock body	ST5085Z Lock body	SX-003 Cylinder

SSN12730F Fire lock	SSN15811F Fire lock	SSN15814F Fire lock	SSN482F Fire lock
Lock body：ST5085Z	Lock body：ST5085Z	Lock body：ST5085Z	Lock body：ST5085Z
Stainless steel hairline	Stainless steel hairline	Stainless steel hairline	Stainless steel hairline
PVD gold	PVD gold	PVD gold	PVD gold
Matte green bronze AK	Matte green bronze AK	Matte green bronze AK	Matte green bronze AK

SFHS27105 Fire lock	SSN12729F Fire lock	SSN12737F Fire lock	SSN485F Fire lock
Lock body：ST6072	Lock body：ST6072	Lock body：ST6072	Lock body：ST5085Z
Stainless steel hairline	Stainless steel hairline	Stainless steel hairline	Stainless steel hairline
			PVD gold
			Matte green bronze AK

Fire lock series

Pipe well lock series

Tube well lock series

Passed the national standard GB 21556-2008 test
Applicable door thickness：35- 60mm
Standard all-pass unlocking cylinder, 1 key

Main material：304 stainless steel
Surface treatment：Stainless steel wire drawing
Exposed mounting screws：stainless hairline
If you need not open the cylinder, then re-inquiry and order remark

55D Lock body	55Z Lock body	SX-003T Cylinder	SX-001T Half lock core

SGSS001 Pipe Well Lock （Fire lock）

SFZ11202 Pipe Well Lock

SFG11203 Pipe Well Lock

SSN12700 Pipe Well Lock

Lock body：55D

Lock body：55D

SGSS003 Pipe Well Lock （Fire lock）

SFZ11207 Pipe Well Lock

Lock body：55D

Lock body：55Z

Fire Lock、Fire Certification Certificate for Pipe Well Lock

Fire Lock Fire Certification Certificate

Fire Lock Fire Certification Certificate

Fire Certification Certificate for Pipe Well Lock

Fire Certification Certificate for Pipe Well Lock

Electromechanical integrated lock series

American standard electromechanical integrated lock series

product descriptions

1、The lock body complies with the European standard EN12209:2003.
2、Provide various materials, surface treatment colors, and styles to meet architectural and design requirements。
3、Service life: 200000 lifetimes (lock), 200000 lifetimes (threaded cylinder), seven years of color and operation guarantee.
4、Power supply：Either 12VDC、12VAC、24VDC、24VACcan be used。
5、Working current：250mA/24VDC、24VAC　300mA/12VDC、12VAC。
6、Installation center distance：60mm，Pit-center distance：72mm。
7、Working method: Power-on activation (customizable as needed).
8、This product is mainly suitable for indoor use, with a temperature of -25°C～50°C；Storage humidity：：10%-95%，
　　Working humidity：：10%-90%.

DST7092B-EL-ALM （latch bolt, keep open）　　DST7092B-EU-ALM （latch bolt, keep close）

Function description：：
1、 Control function: Used in conjunction with the access control system。
2、Outdoor: The external handle is normally fixed, and after successful verification of the access control system, the external handle can retract the latch bolt to achieve outdoor door opening. The emergency key can open the latch bolt.。
Indoor: The interior handle can open the latch bolt to achieve quick indoor door opening. The latch bolt has an anti insertion function.
3、Signals can be customized as needed and output to the control center for monitoring purposes (default with safety bolt signal, i.e. door signal)：Optional signal output: bi-directional door signal (with signals for inlet and outlet doors)
4、One of the following two functions can be debugged on-site
　Keep open：When the power is cut off, the door lock will automatically open (the external handle can rotate to open the door)
　Keep close：When the power is cut off, the door lock will automatically be in a locked state (the external handle is fixed and cannot rotate to open the door)
5、An additional mechanical key hierarchy management system can be equipped.
6、Suitable for various high security wired networking occasions with access control function.

DST7092A-EL-ALM （latch bolt and dead bolt, keep open）　　DST7092A-EU-ALM （latch bolt and dead bolt, keep close）

Function description：：
1、 Control function: Used in conjunction with the access control system。
2、Outdoor: The external handle is normally fixed, and after successful verification of the access control system, the external handle can retract the latch bolt to achieve outdoor door opening.The emergency key can open both the latch bolt and the dead bolt.
Indoor: The internal handle can open the latch bolt and open the dead bolt at the same time to achieve fast indoor door opening. The internal twist separately controls the extension and retraction of the dead bolt. The latch bolt has the function of anti-inserting and shifting.
3、Signals can be customized as needed and output to the control center for monitoring purposes（default with safety bolt signal, i.e. door signal)）Optional signal output: bi-directional door signal (with signals for inlet and outlet doors)
4、One of the following two functions can be debugged on-site
　Keep open：When the power is cut off, the door lock will automatically open (the external handle can rotate to open the door).
　Keep close：When the power is cut off, the door lock will automatically be in a locked state (the external handle is fixed and cannot rotate to open the door).
5、An additional mechanical key hierarchy management system can be equipped.
6、Suitable for various high security wired networking occasions with access control function.

European standard electromechanical integrated lock series

product descriptions

1、 The lock body complies with the European standard EN12209：2003。
2、Provide various materials, surface treatment colors, and styles to meet architectural and design　requirements.
3、Service life: 200000 (lock), solenoid (200000), seven years of color and operation guarantee.
4、Power supply: Either 12VDC、12VAC、24VDC、24VAC can be used.
5、Working current：：250mA/24VDC、24VAC　300mA/12VDC、12VAC。
6、Installation center distance：60mm，hole center distance：：72mm。
7、Working mode: Power on unlocking method (customizable as needed).
8、This product is mainly suitable for indoor use at temperatures；-25°C～50°C；Storage humidity：10%-95%
　　Working humidity：：10%-90%.

DST6072EA-EL-ALM （latch bolt and dead bolt, keep open）　　DST6072EA-EU-ALM （latch bolt and dead bolt, keep close）

Function description：：
1、 Control function: Used in conjunction with the access control system。
2、The square rod insertion direction is determined inside and outside, and the external handle is normally idling. After the access control system is verified successfully, the external handle can withdraw the latch bolt and the dead bolt at the same time to achieve the outdoor door opening.
The interior handle can open the diagonal tongue to achieve quick indoor door opening.
Both inside and outside handle the reverse lift can quickly extend the dead bolt to achieve fast door locking.
The emergency key can open the latch bolt and open the dead bolt at the same time, and the standard half cylinder is equipped.
The inclined tongue has the function of anti-inserting and shifting.
3、Signals can be customized as needed and output to the control center for monitoring purposes （**default with safety bolt signal, i.e. door signal)**
4、**One of the following two functions can be debugged on-site**
　Keep open:When the power is cut off, the door lock will automatically open (the external handle can rotate to open the door)
　Keep close:When the power is cut off, the door lock will automatically be in a locked state (the external handle is fixed and cannot rotate to open the door)
5、An additional mechanical key hierarchy management system can be equipped.
6、Suitable for various high security wired networking occasions with access control function.

DST6072EB-EL-ALM （latch bolt, keep open）　　DST6072EB-EU-ALM （latch bolt, keep close）
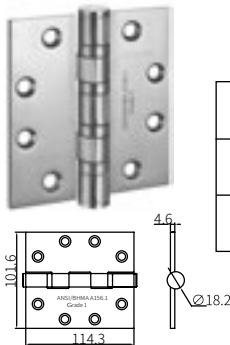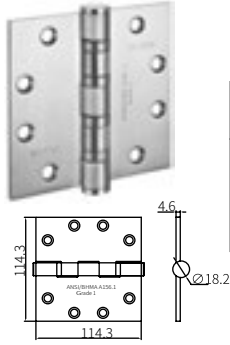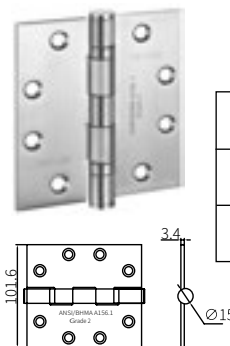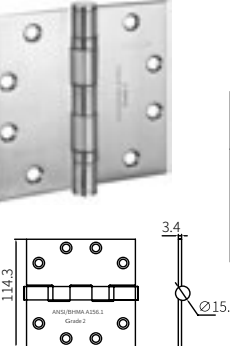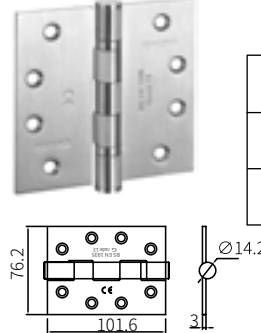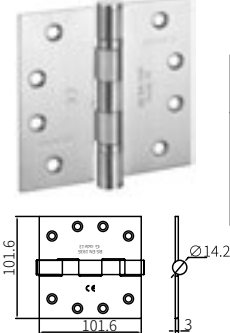
Function description：：
1、 Control function: Used in conjunction with the access control system，latch bolt lock。
2、The square rod insertion direction is determined inside and outside, and the external handle is normally idling. After the access control system is verified successfully, the external handle can redraw the latch bolt to achieve the outdoor door opening.
The inner handle can open the latch bolt to achieve fast door opening .
 Emergency key can be opened directly latch bolt, standard with half cylinder.
The latch bolt has the function of anti-inserting and shifting.
3、Signals can be customized as needed and output to the control center for monitoring purposes （**default with safety tongue signal, i.e. door signal)**
4、**One of the following two functions can be debugged on-site**
　Keep open：When the power is cut off, the door lock will automatically open (the external handle can rotate to open the door)
　Keep close：When the power is cut off, the door lock will automatically be in a locked state (the external handle is fixed and cannot rotate to open the door)
5、An additional mechanical key hierarchy management system can be equipped.
6、Suitable for various high security wired networking occasions with access control function.

Hardware accessories

American standard hinge

Tested and certified according to the American standard ANSI A156.1 Level 1, with a maximum of 2.5 million lifetimes.
Tested and certified according to the American standard ANSI A156.1 Level 2, with a maximum of 1.5 million lifetimes.
Passed GB12955-2008 Class A 1.5h fire detection.
Material: 304 stainless steel   Surface treatment: brushed

SHY454046-4BB   American standard level-I hinge

Main material	304 stainless steel
Dimension	4.5"x4.0"x4.6- 4BB
Three hinges bearing weight	75Kg

SHY454546-4BB   American standard level-I hinge

Main material	304 stainless steel
Dimension	4.5"x4.5"x4.6- 4BB
Three hinges bearing weight	75Kg

SHY454034-2BB   American standard level-II hinge

Main material	304 stainless steel
Dimension	4.5"x4.0"x3.4- 2BB
Three hinges bearing weight	70Kg

SHY454534-2BB   American standard level-II hinge

Main material	304 stainless steel
Dimension	4.5"x4.5"x3.4- 2BB
Three hinges bearing weight	70Kg

European standard

Tested and certified according to the European standard EN 1935:2002 Single axis hinges - Requirements and test methods.
Opened up to 200000 times.
Passed GB12955-2008 Class A 1.5h fire detection.
Material: 304 stainless steel   Surface treatment: brushed

SHY403030-2BB   European standard

Main material	304 stainless steel
Dimension	4"x3"x3- 2BB
Three hinges bearing weight	120Kg

SHY404030-2BB   European standard

Main material	304 stainless steel
Dimension	4"x4"x3- 2BB
Three hinges bearing weight	120Kg

American standard European standard hinge certificate

American standard level-I hinge ANSI certification

American standard level-II hinge ANSI certification
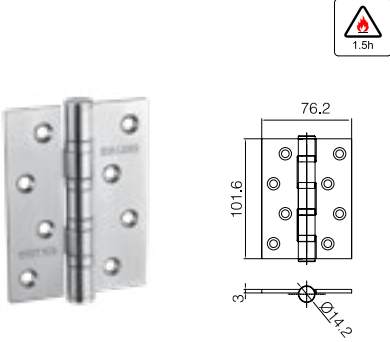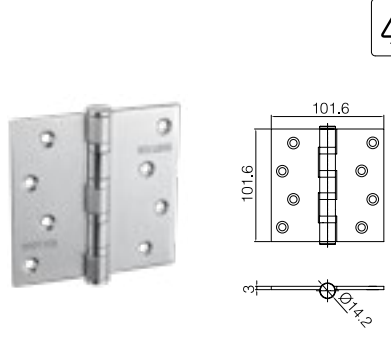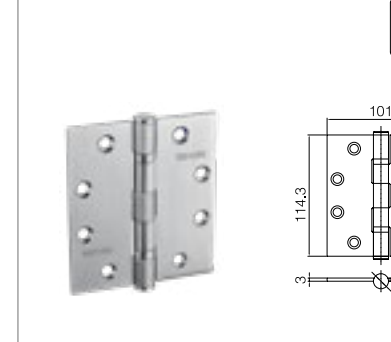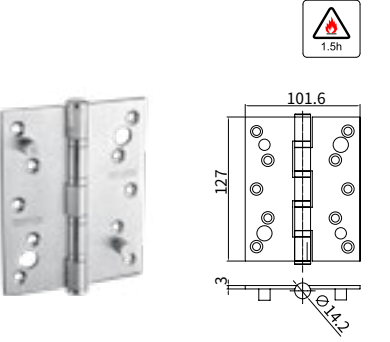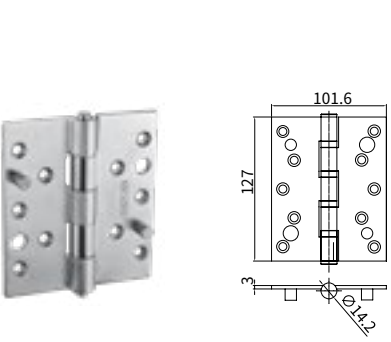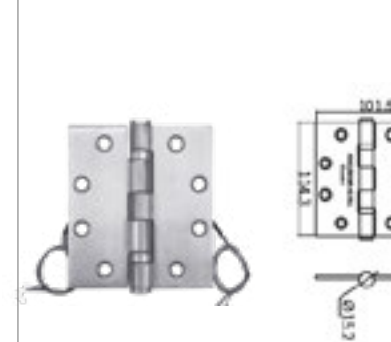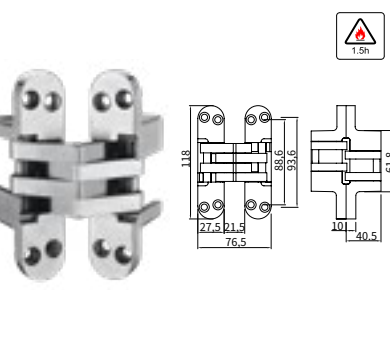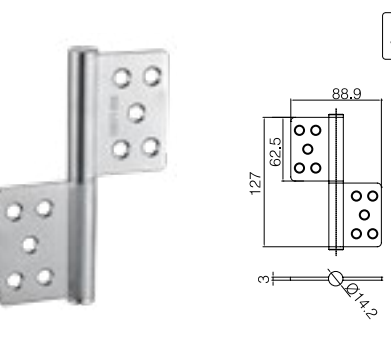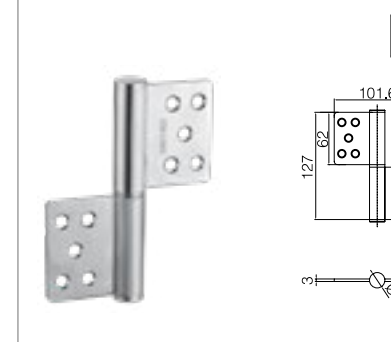
European standard hinge CE certification

American standard hinge fire test report

National Standard Hinge

Tested through QB/T4595.1-2013 Hinge , Material: 304 stainless steel   Surface treatment: brushed

SHY12103 Fire resistant hinges	SHY12104 Fire resistant hinges	SHY12105 Fire resistant hinges
4"x3"x3- 4BB	4"x4"x3- 4BB	4.5"x4"x3- 2BB
Three hinges bearing weight：40- 60Kg	Three hinges bearing weight：40- 60Kg	Three hinges bearing weight：40- 60Kg
SHY12111 Anti theft hinge	**SHY12112 Anti theft hinge**	**SHY454034-6X(6 line)Line passing hinge**
5"x4"x3- 4BB	5"x4.5"x6	4.5"x3"x3.4
Three hinges bearing weight：40- 60Kg	Three hinges bearing weight：200Kg	Three hinges bearing weight：70Kg
SHY12124 Concealed hinge	**SHY12113 Flag shaped hinge**	**SHY12114 Flag shaped hinge**
Two hinges bearing weight：50Kg	5"x3.5"x3	5"x4"x3
Opening angle 180°	Three hinges bearing weight：40- 60Kg	Three hinges bearing weight：40- 60Kg
Applicable door thickness ≥ 40mm		

Hardware accessories series - special hinges

Hardware Accessories Series - Auxiliary Hardware

SHY42135 Multifunctional hinge

102,8
157,5
Ø31.2-3
80℃

door holder position / 130℃
stay interval
fast closing
auto closing
30℃ slow closing
15℃
slow closing
self closing
fsat or slow closing switchable
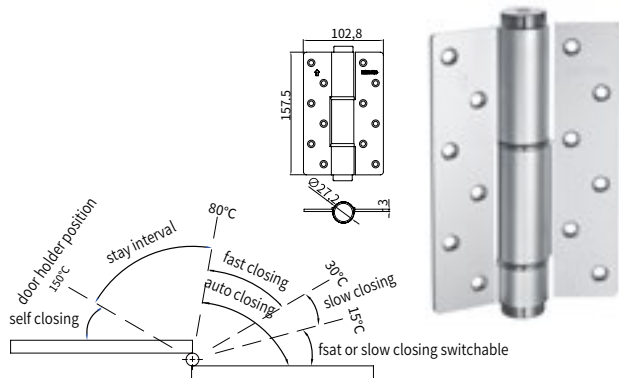
Product main material: aluminum alloy

Surface treatment: silver, matte black

No left or right

Hinge composition:

Multifunctional hinge: SHY42135+Load bearing hinge：SHY42135A

Features: combining hinge, door closer, and door stopoer function in one;

Automatic door closing：It can automatically close the door at the angle of closing .

Automatic buffering：Before entering the lock, the door closing and closing speed can be adjusted to achieve buffering.

Stay at will：Prevent the door from automatically closing at any dwell angle.

According to the enterprise standard: Q/JL 04-2019 "Hydraulic hinges for building doors". with a lifespan exceeding 150000 times.

Bearing table	Door specifications	Door weight	Product configuration
	Door height ≤ 2000mm Door width ≤ 700mm	≤ 35Kg	1 multifunctional hinge (top) + 1 load-bearing hinge (bottom) or 2 multifunctional hinges
	Door height ≤ 2000mm Door width ≤ 900mm	≤ 60Kg	2 multifunctional hinges or 1 bearing hinge in the middle
	Door height ≤ 2400mm Door width ≤ 1100mm	≤ 90Kg	3 multifunctional hinges

SHY12140F Eccentric door shaft

Upper door shaft   middle door shaft   lower door shaft

Functional characteristic description：

1、Compliance with standards：GB12955-2008 /Fire door，T/CAMET05001-2020 /Wind Pressure Fireproof Doors for Urban Rail Transit Tunnels.

2、Made of 304 stainless steel material with stainless steel wire drawing on the surface；

3、Distinguish between left and right directions；

4、Concealed installation, suitable for swing doors. When there is an error between the door leaf and the door frame, the gap can be directly adjusted without removing the door leaf;

5、Using bearings with lubricating effect, without wear on the metal shaft, and with silent switch sound;

6、Product neutral salt spray test for more than 72 hours；
Passed 1.5 hours of fire resistance testing and 500000 life tests;

7、Maximum load-bearing capacity：300kg; And there is a test report.

Performance test report

Fire test report

Execution standards

The door stopper passed the QB/T4596-2013 /Door Sucker and Door Buckle/ test, and the latch passed the QB/T 2032-2013 "Steel Latch" test.
The sealing strip complies with GB/T 24498-2009 "Sealant strips for building doors, windows, and curtain walls".
Other products comply with QB/T4518-2013 "Accessories for Decorative Doors".

SHY12222 Door stopper	SMX12211 Door stopper	STB12901 Push-pull plate
Main materials：304 stainless steel	Main materials：304 stainless steel	Main materials：304 stainless steel

SCX12710 Automatic concealed latch steel doors	SCX12701 Steel door concealed latch	SCX12705 Wooden door concealed latch
Main materials：304 stainless steel No distinction between left and right	Main materials：304 stainless steel	Main materials：304 stainless steel

SFZ11206 Door collision bead	SFT12801 Dust proof boot	SGX12801 Wire feeder
Main materials：304 stainless steel	Main materials：304 stainless steel	Main materials：304 stainless steel

SSW12602 Sequencer	SSW12603 Concealed sequencer	SSW12604 Overload sequencer
Steel roller Main materials：304 stainless steel	Main materials：304 stainless steel	Main materials：304 stainless steel

Door control hardware series
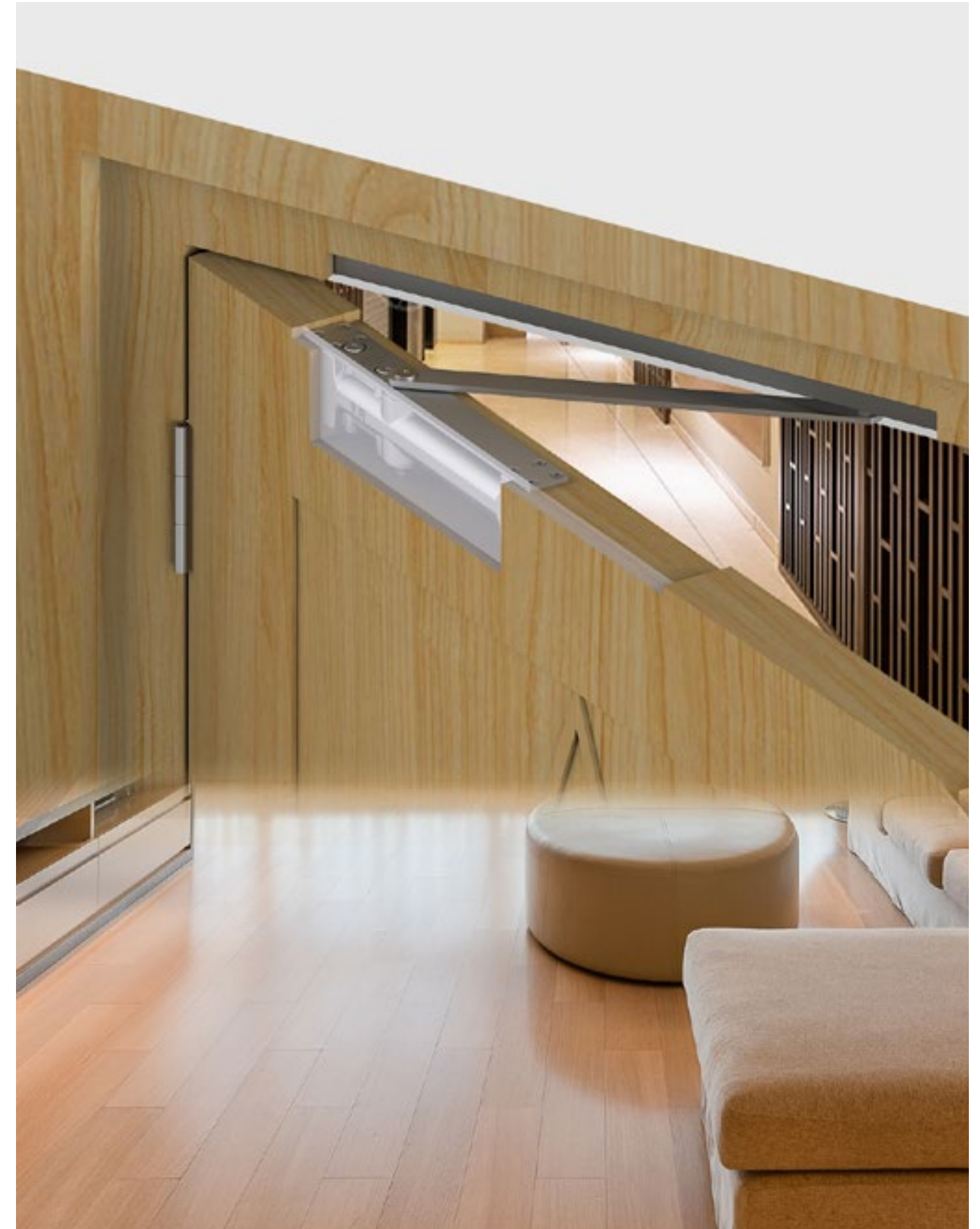
BBM60006 American standard door closers
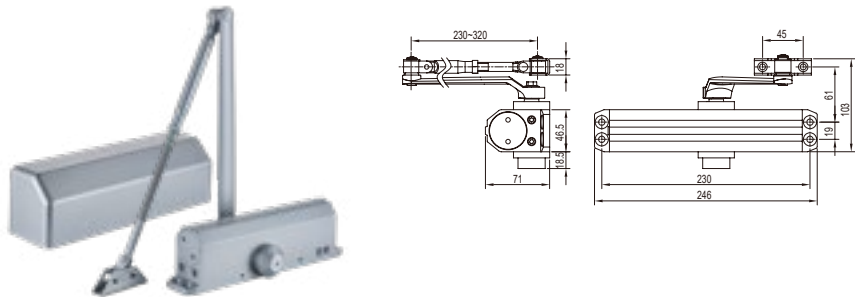
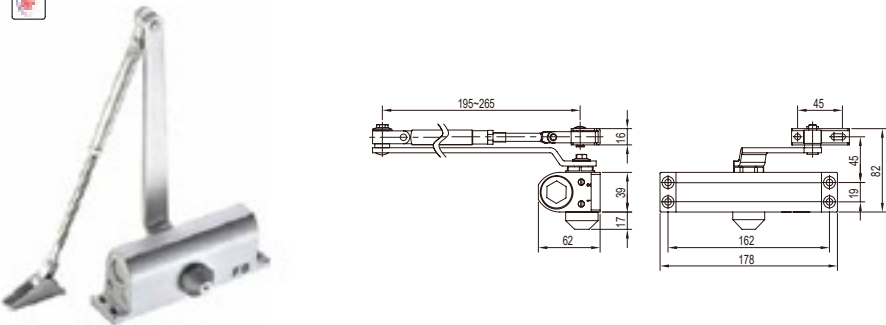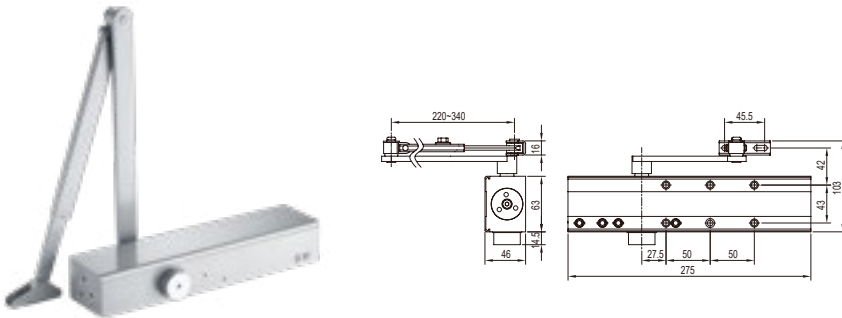| Positioning form	non-holding
Door width range	650~1500mm
Maximum bearing capacity	15~150kg
Service life	≥2 million times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray

BBM60106 American standard door closers
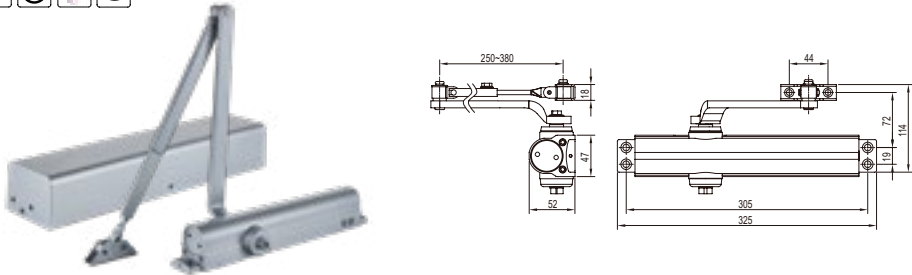
Positioning form	non-holding
Door width range	650~1500mm
Maximum bearing capacity	15~150kg
Service life	≥2 million times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray

BBM60206 American standard door closers
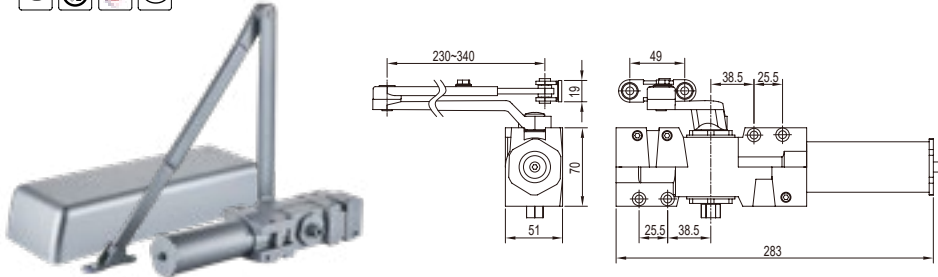
Positioning form	non-holding
Door width range	650~1500mm
Maximum bearing capacity	15~150kg
Service life	≥2 million times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray

GA93-4CI(B104)   Fire door closer

Positioning form	non-holding
Door width range	1000~1250mm
Maximum bearing capacity	85kg
Service life	> 300,000 times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray (Non-standard colors can be customized)

BBM90006 European standard door closers

Positioning form	non-holding
Door width range	850~1500mm
Maximum bearing capacity	85~150kg
Service life	> 500,000 times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray (Non-standard colors can be customized)
Applicable temperature	-20℃ ~ 50℃

BBM90115 European standard door closers
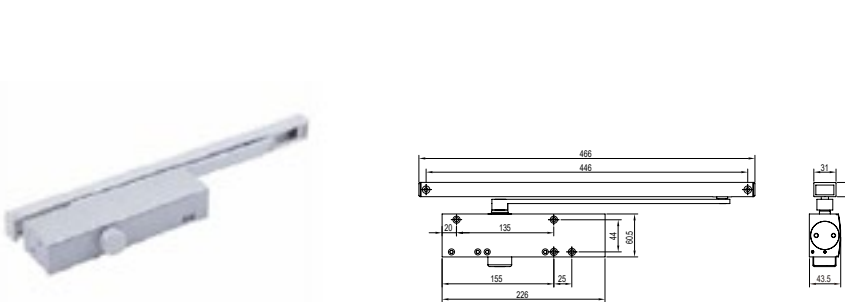
Positioning form	Any position can be positioned, positioning can be revoked
Door width range	650~1500mm
Maximum bearing capacity	25~85kg
Service life	> 500,000 times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray (Non-standard colors can be customized)
Applicable temperature	-20℃ ~ 50℃

BBM30113 European standard hidden door closer
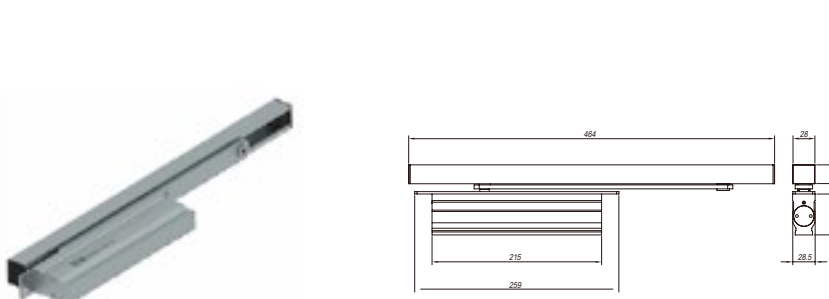
Positioning form	Any position can be positioned, positioning can be revoked
Door width range	850~1100mm
Maximum bearing capacity	65kg
Service life	> 500,000 times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray (Non-standard colors can be customized)
Applicable temperature	-20℃ ~ 50℃

BBM30115 Hidden door closer
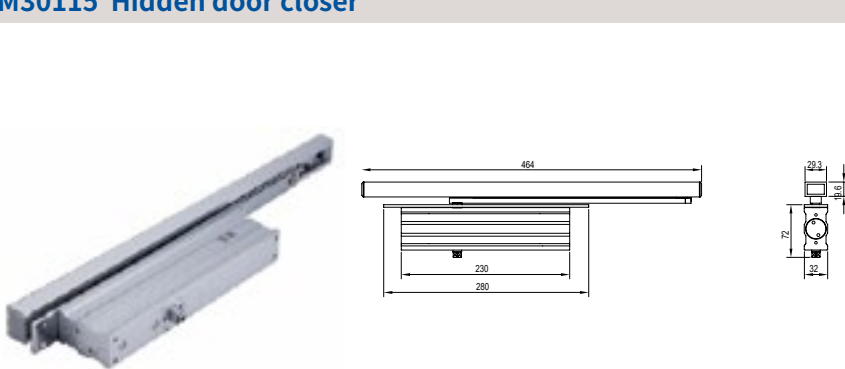
Positioning form	Any position can be positioned, positioning can be revoked
Door width range	1100~1300mm
Maximum bearing capacity	100kg
Service life	> 300,000 times
Speed control	Two-stage speed regulation
Surface treatment	Silver gray (Non-standard colors can be customized)
Applicable temperature	-20℃ ~ 50℃

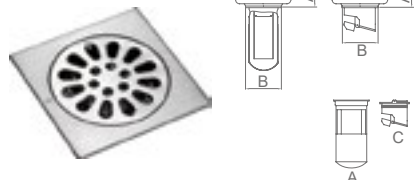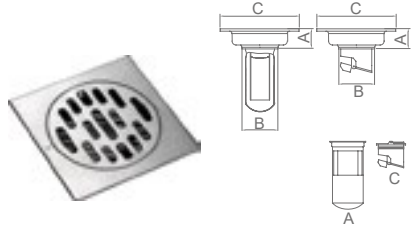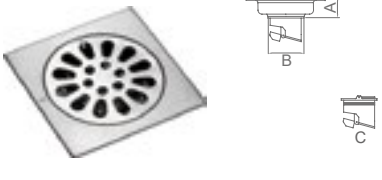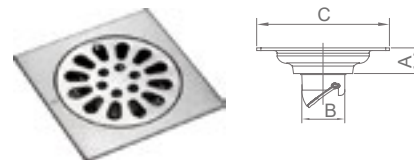**Fire door monitoring system topology
(five wire system non coding type)**

Fire door monitor host

Fire control center

Fire door monitor power supply

Modular

Modular

BBM40213
Fire linkage door closer
(Keep open fire door)

BBP30401
Door magnetic interface
(Keep closed fire door)

Fire door monitor extension

Fire door monitor power supply

Modular

Modular

BBM40212
Fire linkage door closer
(Keep open fire door)

BBP30401
Door magnetic interface
(Keep closed fire door)

WDZN-BYJ 2X2.5mm² the power line ,from fire door monitor power supply

NH-RVS 2X1.5mm² twisted pair, from fire control center

ZR-RVS 2X1.5mm² communication line ,from fire door monitor

KIN LONG *For Better Living*

Bathroom hardware series

Bathroom hardware
brochure

WSZ45940 Induction faucet
Main material：Brass
Surface treatment：Chromium plating

WSZ45981 Induction faucet
Main material：Brass
Surface treatment：Chromium plating

WSZ45982 Induction faucet
Main material：Brass
Surface treatment：Chromium plating

WSZ19500 Basin mixer
Main material：Brass
Surface treatment：Chromium plating、
Gun grey 、Matte black

WSZ19130 Basin mixer
Main material：Brass
Surface treatment：Chromium plating

WSZ7110H/C Angle valve
Main material：304
Surface treatment：Matte

WSZ71090 Angle valve
Main material：304
Surface treatment：Matte

WSZ7105B Angle valve
Main material：304
Surface treatment：Matte

WSZ96210 Drain pipe
Main material：Brass
Surface treatment：Chromium plating

WSZ96010 Pop-up drain
Main material：Brass
Surface treatment：Chromium plating

WSZ96040 Pop-up drain
Main material：Brass
Surface treatment：Chromium plating

WSZ96220 Drain pipe
Main material：Brass
Surface treatment：Chromium plating

Bathroom Hardware Series - Floor Drain

WDL2011A/C Floor drain

Main material：304
Wall thickness:2mm
Surface treatment：Matte

A:Stainless steel deep water sealing structure
C:Plastic flip-up structure

Model	Pipe diameter	A(mm)	B(mm)	C(mm)
WDL2011A	Ø50	25	Ø45	□100
WDL2011C	Ø50	25	Ø45	□100

WDL2012A/C Floor drain

Main material：304
Wall thickness:2mm
Surface treatment：Matte

A:Stainless steel deep water sealing structure
C:Plastic flip-up structure

Model	Pipe diameter	A(mm)	B(mm)	C(mm)
WDL2012A	Ø50	25	Ø45	□100
WDL2012C	Ø50	25	Ø45	□100

WDL2011C-75 Floor drain (for big flow)

Main material：304
Wall thickness:2mm
Surface treatment：Matte

C:Plastic flip-up structure

Pipe diameter	A(mm)	B(mm)	C(mm)
Ø75	24	Ø63	□100

WDL2017C Floor drain(ultrathin)

Main material：304
Wall thickness:2mm
Surface treatment：Matte

C:Plastic flip-up structure

Model	Pipe diameter	A(mm)	B(mm)	C(mm)
WDL2017C	Ø40	19	Ø32	□100

WDL3012C Floor drain

Main material：304
Wall thickness:3mm
Surface treatment：Chromium plating

C:Plastic flip-up structure

Pipe diameter	A(mm)	B(mm)	C(mm)
Ø50	21	Ø45	□100

WDL2012C-75 Floor drain (High traffic)

Main material：304
Wall thickness:2mm
Surface treatment：Matte

C:Plastic flip-up structure

Pipe diameter	A(mm)	B(mm)	C(mm)
Ø75	24	Ø63	□100

WDL3931A/C Floor drain

Main material：copper
Wall thickness：3mm
Surface treatment：Chromium plating

A:Stainless steel deep water sealing structure
C:Plastic flip-up structure

Model	Pipe diameter	A(mm)	B(mm)	C(mm)
WDL3931A	Ø50	20	Ø44	□100
WDL3931C	Ø50	20	Ø44	□100

WDL3932A/C Floor drain

Main material：copper
Wall thickness：3mm
Surface treatment：Chromium plating

A:Stainless steel deep water sealing structure
C:Plastic flip-up structure

Model	Pipe diameter	A(mm)	B(mm)	C(mm)
WDL3932A	Ø50	20	Ø44	□100
WDL3932C	Ø50	20	Ø44	□100

WDL3931C-75 Floor drain

Main material：copper
Wall thickness：3mm
Surface treatment：Chromium plating

C:Plastic flip-up structure

Pipe diameter	A(mm)	B(mm)	C(mm)
Ø75	20	Ø63	□100

Bathroom Hardware Series - Auxiliary Hardware

WZH30070 Tissue box

Main material：ABS
Surface treatment：white

WZH30060 Tissue box

Main material：ABS
Surface treatment：white

WZH1006A Tissue box

Main material：304
Surface treatment：Matte

WDQ20040 Hand dryer

Main material：ABS
Surface treatment：white

WDQ20010 Hand dryer

Main material：ABS
Surface treatment：white

WDQ20030 Hand dryer

Main material：ABS
Surface treatment：white

WFJ10010 Soap dispenser

Main material：ABS
Surface treatment：transparent

WFJ41010 Soap dispenser

Main material：ABS
Surface treatment：white

WFJ41020 Soap dispenser

Main material：ABS
Surface treatment：white

WZH2004A Handpaper box

Main material：304
Surface treatment：Matte

WZH2008A Handpaper box

Main material：304
Surface treatment：Matte

WFJ10020 Soap dispenser

Main material：ABS
Surface treatment：transparent

KIN LONG *For Better Living*

Kitchen hardware series

WSZ42180　Vegetable basin faucet

Main material：304
Surface treatment：Matte light

WFS44010　Vegetable basin faucet

Main material：304
Surface treatment：Matte light

WSZ43120　Vegetable basin faucet

Main material：Brass
Surface treatment：Chromium plating

WYG11060　Kitchen shelf

Main material：zinc alloy
Surface treatment：Sub gray

WYG11070　Kitchen shelf

Main material：zinc alloy
Surface treatment：Sub gray

WYG11080　Kitchen shelf

Main material：zinc alloy
Surface treatment：light

WCP11030　Sink

Main material：304
Surface treatment：Matte light

WCP12030　Sink

Main material：304
Surface treatment：Matte light

WCP12180　Sink

Main material：304
Surface treatment：Hydrophobic nano

KIN LONG *For Better Living*

Public accessories series

WFS41010　Safety handrails

Main material：Nylon+304/Aluminium alloy
Surface treatment：White/Yellow+Mirror light
Features: Anti slip function

Ø35
600

WFS42110　Safety handrails

Main material：Nylon+304/Aluminium alloy
Surface treatment：White/Yellow+Mirror light
Features: Anti slip function

590
(115)　Ø35
Ø24
212
690

WFS42090　Safety handrails

Main material：Nylon+304/Aluminium alloy
Surface treatment：White/Yellow+Mirror light
Features: Anti slip function

657
615

WYD10040　Bathroom stool

Main material：Nylon+Stainless steel
Surface treatment：White/Yellow

380
405
600

WFG41010　Baby crib

Main material：HDPE
Surface treatment：Grey

85　100
580
870

WFG41020　Baby crib

Main material：HDPE
Surface treatment：Grey

350　330

WFS21010　Staircase handrails

Main material：Nylon + Aluminum alloy
Surface treatment：Yellow

L

WFS22010　Channel handrail

Main material：Aluminum alloy+PVC
Surface treatment：White + Blue

L

WFS22020　Channel handrail

Main material：Aluminum alloy+PVC
Surface treatment：White + Brown

159
L

Create Values for the Customers Sincerely and Whole-heartedly

Unique value is created by professionalism, but no future
shall be created by speculation.