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## Yale window and door hardware





# A century-old brand protects your home

The innovative spirit of Linus Yale lives on in the Yale brand today. Today, the Yale product line covers electronic door locks, mechanical door locks, padlocks, electronic safe deposit boxes, door and window hardware, and fire doors. Everyone in the company does their best to maintain Yale's No. 1 market position. Yale's goal is to build on our heritage and develop the highest quality products with new knowledge that is continually honed to protect the safety of our guests, their homes, and their most precious things.

1840<sup>Year</sup>

The brand originated in 1840

2000<sup>Year</sup>

Acquired by ASSA ABLOY in 2000

52000<sup>People</sup>

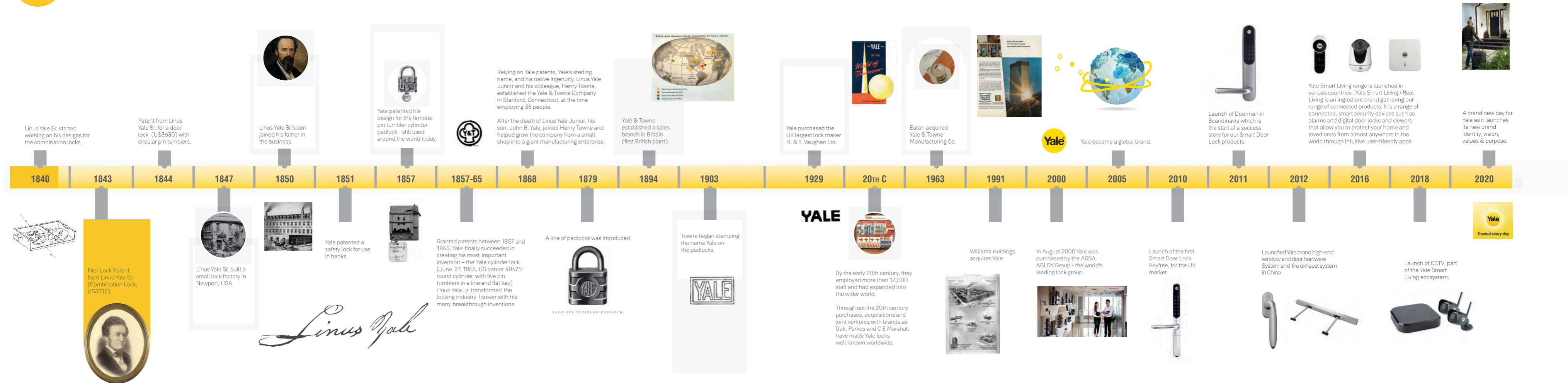
52,000 employees



Certification

EN







## The Yale story

### **At Yale, we have a 180 year history of trusted innovation.**

Everything we are today, we owe to the inspirational ingenuity of Linus Yale Senior and Linus Yale Junior. The Yale lock tradition started around 1840 when Linus Yale Senior opened up a lock shop specialising in expensive handmade bank locks. Inspired by a 4,000 year old Egyptian wooden lock, he built the first models of the pin-tumbler lock he had developed.

To manufacture them, he built a small lock factory in Newport, USA in 1847. His son, Linus Yale Junior, took up his father's trade. Technically very talented and with a number of ground-breaking inventions, he made his father's pin-tumbler lock design suitable for mass production in the early 1860s and changed the industry forever. Linus Yale Junior and his colleague, Henry Towne, established the Yale & Towne Company in Stanford, Connecticut in 1868. By the early 20th Century, they employed more than 12,000 people and had expanded globally.

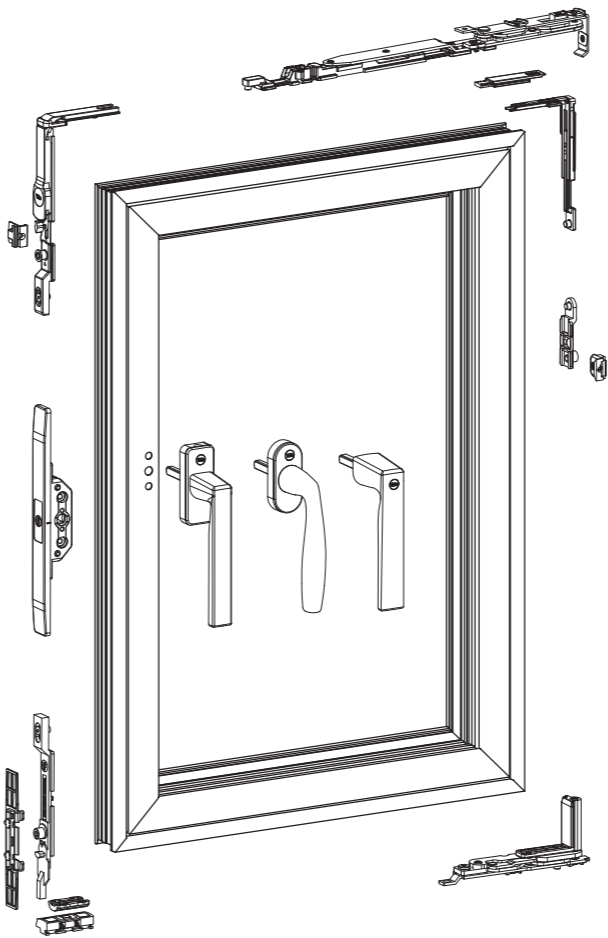
Even today, the pin-tumbler lock by Linus Yale Junior is the most widely used type of door lock in the world.

### **Part of ASSA ABLOY Group since 2000, Yale is the leading residential brand of the Group.**

Beside the world's most widely used type of door lock, Yale has produced numerous other innovative products such as digital door and cabinet locks, alarms, safes, doors, access systems and hardware for doors and windows.

Yale is the brand behind locks of every design and function in over 125 countries.

**All over the world, we're trusted to make homes secure and people feel secure, too.**



PATENT：201921333115.7 / 201830582851.0

# Concealed tilt and turn hardware system - 180 degrees open

## Features

- **180° opening, showing different fields of view**  
The maximum opening angle of the window sash is 180°, which not only increases the aesthetics of the whole window when it is opened, but also prevents children from bumping their heads in the open state.
- **Hidden structure, design optimization**  
The adhesive strip does not need to be cut to ensure that the whole window is sealed;Optimize the motion trajectory to ensure the stability of the entire window.
- **Easy installation and strong performance**  
Clear installation positioning marks can effectively improve installation efficiency;The use of high-performance materials ensures the safety of the entire window;Special surface treatment to increase life guarantee.

## Parameter

Adapter Profile	Aluminum alloy European standard profile, notch 15×20/14×18
Adaptive Window Width	500<W≤850mm
Weight Capacity	90kg / 130kg
Maximum Opening Angle	180°
Maximum Aspect Ratio	1/1.5



# 180° Hinge design

The maximum opening angle of the window sash is 180°, which increases the aesthetics of the whole window when it is opened, and prevents children from bumping their heads in the open state

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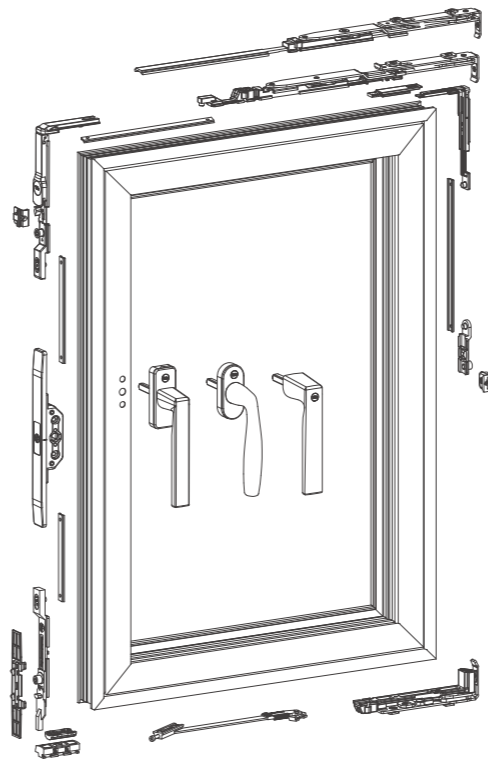
Hidden structure  
beautiful appearance
- 

Adhesive strips  
do not need to be cut
- 

High performance  
material
- 

Optimized  
trajectory
- 

Easy to install  
and debug



PATENT：201621463586.6

## Concealed tilt and turn hardware system - 90° degrees open

### Features

- **Quick installation and easy debugging**  
Special installation and positioning clips greatly improve installation efficiency; three-dimensional adjustable hinges can effectively compensate for door and window processing errors.
- **Hidden structure, design optimization**  
The rubber strip does not need to be cut to ensure the sealing of the entire window; the movement trajectory is optimized to ensure the stability of the entire window.
- **Flexible switch, strong performance**  
The use of high-performance materials ensures the safety of the whole window; the special surface treatment increases the life guarantee.

### Parameter

Adapter Profile	Aluminum alloy European standard profile, notch 15×20/14×18		
Adaptive Window Width	370mm<W≤525mm (370 size) / 525mm<W≤1300mm (600 size)		
Adaptation window height	610mm<H≤2000mm	Maximum opening angle	90°
weight capacity	100kg / 130kg	maximum aspect ratio	1/1.5



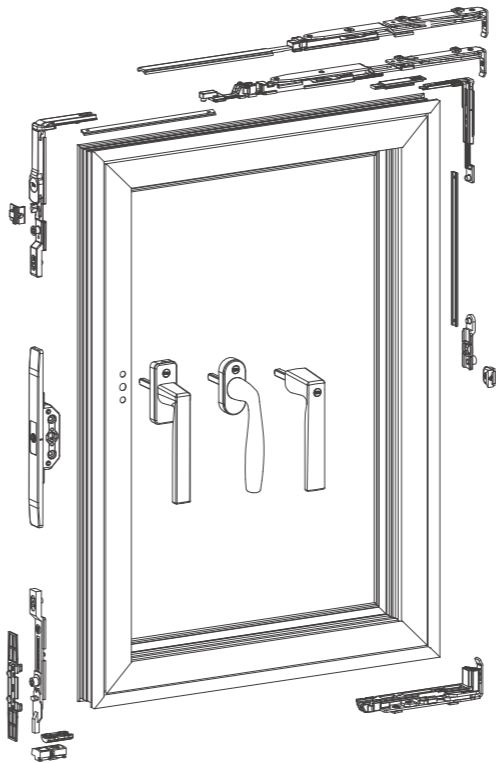
## Concealed tilt and turn hardware system- 90 degree open-narrow slot

### Features

- **Quick installation and easy debugging**  
Specialized installation positioning cards greatly improve installation efficiency; The hinge is three-dimensional adjustable, effectively compensating for errors in door and window processing.
- **Hidden structure, design optimization**  
The rubber strip does not need to be cut, ensuring the sealing of the entire window; Optimize the motion trajectory to ensure the stability of the entire window.
- **Flexible switch and strong performance**  
The use of high-performance materials ensures the safety of the entire window; Special surface treatment to increase lifespan assurance.
- **Steering angle and rotation support can be adjusted by ± 5mm, increasing fault tolerance**
- **Black decorative cover of lock box, more beautiful, anti pull deviation, automatic error correction function, universal for ordinary handle and non base handle**

### Parameter

Adapter Profile	Aluminum alloy European standard narrow groove profile, groove size 15 × 20/10 × 14		
Adaptive Window Width	370mm<W≤525mm (370 size) / 525mm<W≤1300mm (600 size)		
Adaptation window height	650mm<H≤2000mm	Maximum opening angle	90°
Max load	80kg	maximum aspect ratio	1/1.5



PATENT: 202421771174.3



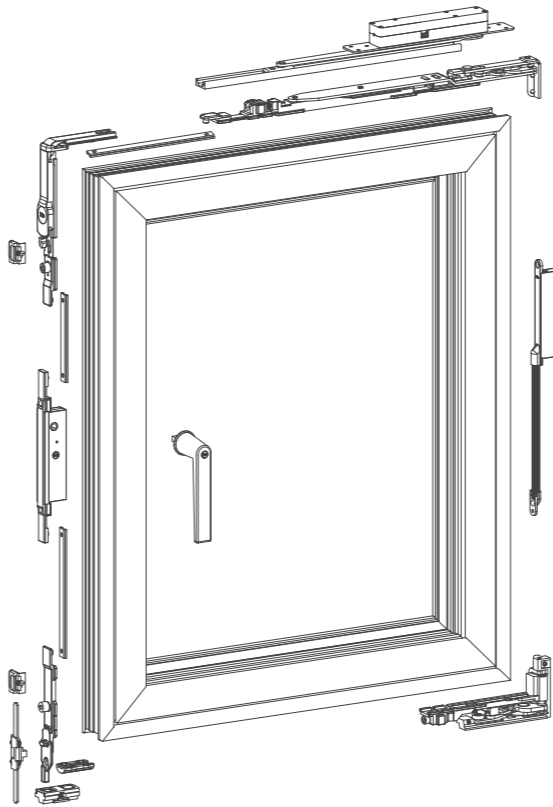
## Intelligent tilt and turn hardware system

### Features

- Precise and beautiful, the Hall sensor automatically returns to the normal position, the hidden hinge motor, and it is perfectly suitable for profiles above 60;
- High quality, pure imported motor, stable operation, no noise, modular design, convenient installation and disassembly;
- Safety and intelligence, child protection in case of obstruction, smoke and rain weather sensing, automatic sensing alarm, escort for you and your family;
- Rigorous specifications, multi-point locking, locking compression degree can be set ( $\pm 1\text{mm}$ ), air tightness up to 8 grades, water tightness grade 3;
- The perfect protection experiment exceeds the national standard by more than 2 times, encrypted signals, hand-in-one, and no need to worry about being unable to open and close when the power is cut off;
- Diversified functionality, remote APP, voice, control box can be controlled, OTA online upgrade, support remote upgrade.

### Parameter

Adapter profile	European standard inner casement window profiles
adaptive window width	SK: 510-1000mm; SG: 630-1500mm
Opens	100 000 times
weight capacity	100kg / 130kg



PATENT: ZL202030686192.2 / ZL202022200528.7 / ZL202130211199.3



## Switch freely within the translation

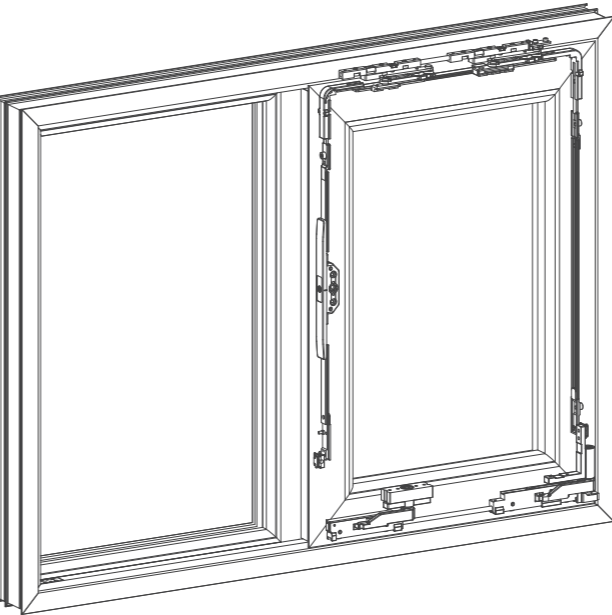
Drift window allows you to experience a brand new way of opening



## Tilt and slide hardware system

### Features

- **Better thermal insulation:** The multi-point locking greatly enhances the sealing of doors and windows, thereby greatly enhancing the sound insulation and heat insulation performance of doors and windows.
- **Easily achieve indoor micro-ventilation** When the handle is rotated 180° from the locked state, the doors and windows can be opened upside down, and the wind will not blow in through the slight blocking of the glass, achieving a micro-ventilation state.
- **Push and pull to open to save home space:** When the handle is rotated 90° from the locked state, the doors and windows can be pushed and opened, avoiding the drawbacks of mutual interference and fights between the casement windows and curtains, water heaters, range hoods, cabinets, etc.
- **The safety performance is greatly improved:** The feature of multi-point locking, combined with the design of inward opening, one has the anti-theft function, and the other can effectively prevent children from slipping and falling, which greatly improves the safety performance of doors and windows.
- **Longer life:** Through the reasonable design of the product, the stress condition of the whole set of hardware is better, and with Yale's unique matte zinc electroplating process, the service life of doors, windows and hardware accessories can be extended more effectively.



### Parameter

Adapter Profile	Special profile
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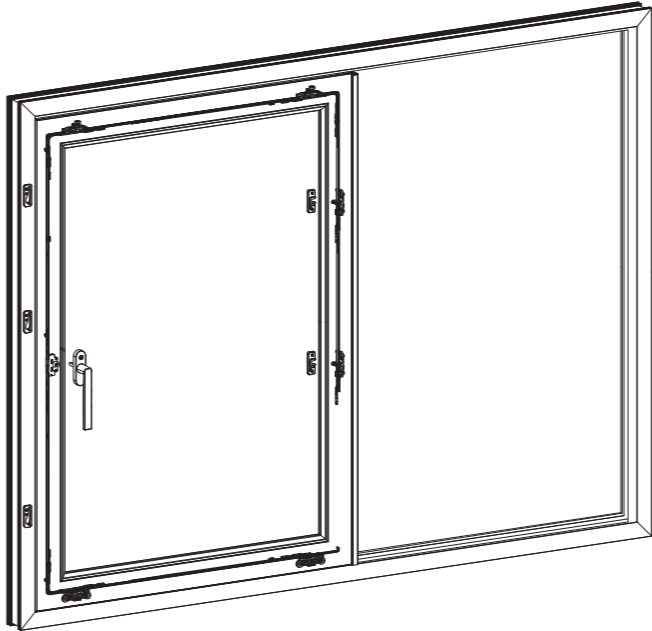
PATENT: 201830582851.0



## Side pressure push-pull hardware system

### Features

- Suitable for various home scenarios such as kitchens, living rooms, study rooms, bedrooms, sunrooms, etc.
- Push pull opening, multi-point locking, 90 ° rotation opening and closing, compressing the rubber strip by 5-7mm during opening and closing, comparable to the airtight effect of a casement window. The opening forms are flexible and diverse, both single opening and double opening can be achieved.
- The Yale sliding side pressure door and window hardware system adopts modular combination as a whole. By adjusting the module combination, the middle locking device can be adjusted according to the height of the door and window. The overall load-bearing capacity is 200kg, and it can still open and close smoothly.
- The hardware transmission components of Yale push-pull side pressure doors and windows adopt a toothed connection, avoiding the connection errors caused by traditional punching connections, and the handle rotation feels lightweight.
- The surface of Yale hardware system adopts matte zinc electroplating process, which is environmentally friendly. The product has no white rust after 1000 hours of neutral salt spray test and no red rust after 1500 hours, and has high corrosion resistance and weather resistance.



PATENT: 202411606743.3

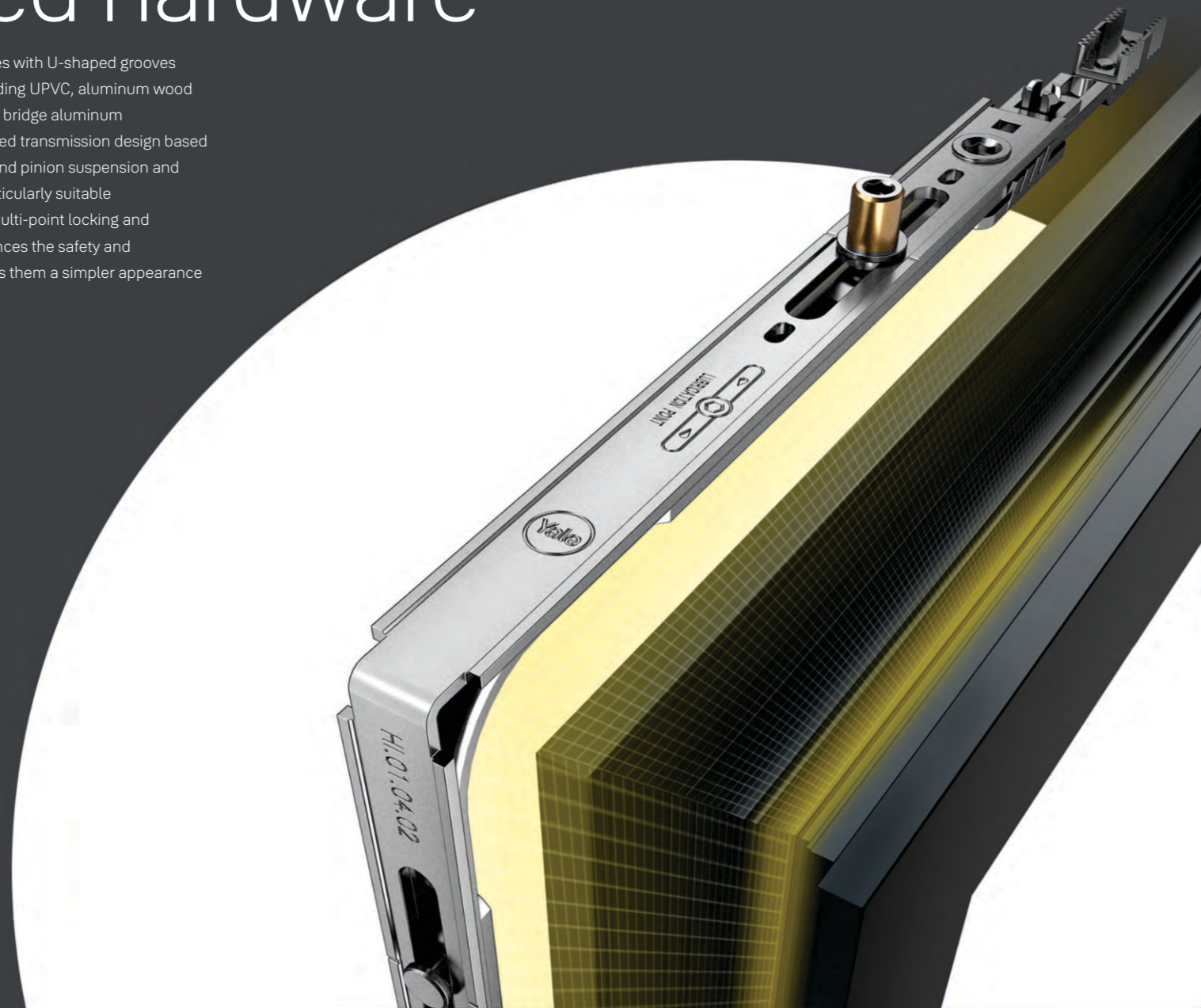
### Parameter

Adapter Profile	Customized profiles and U-groove system design, compatible with wood, plastic, and aluminum alloys
Adaptive Window Width	560mm<W≤200mm
Adaptation window height	550mm<H≤3000mm
weight capacity	200kg



# U-shaped hardware

Suitable for various door and window profiles with U-shaped grooves that comply with European standards. Including UPVC, aluminum wood, solid wood, fiberglass polyurethane, broken bridge aluminum etc. the hardware system adopts an integrated transmission design based on modular concepts combined with rack and pinion suspension and point support suspension structure, it is particularly suitable for extremely narrow border design requiring multi-point locking and high load-bearing capacity. It not only enhances the safety and sealing of doors and windows, but also gives them a simpler appearance.



• **COUPLING UNIT**  
Transmission hub of doors and window'slt opens and closes smoothly.



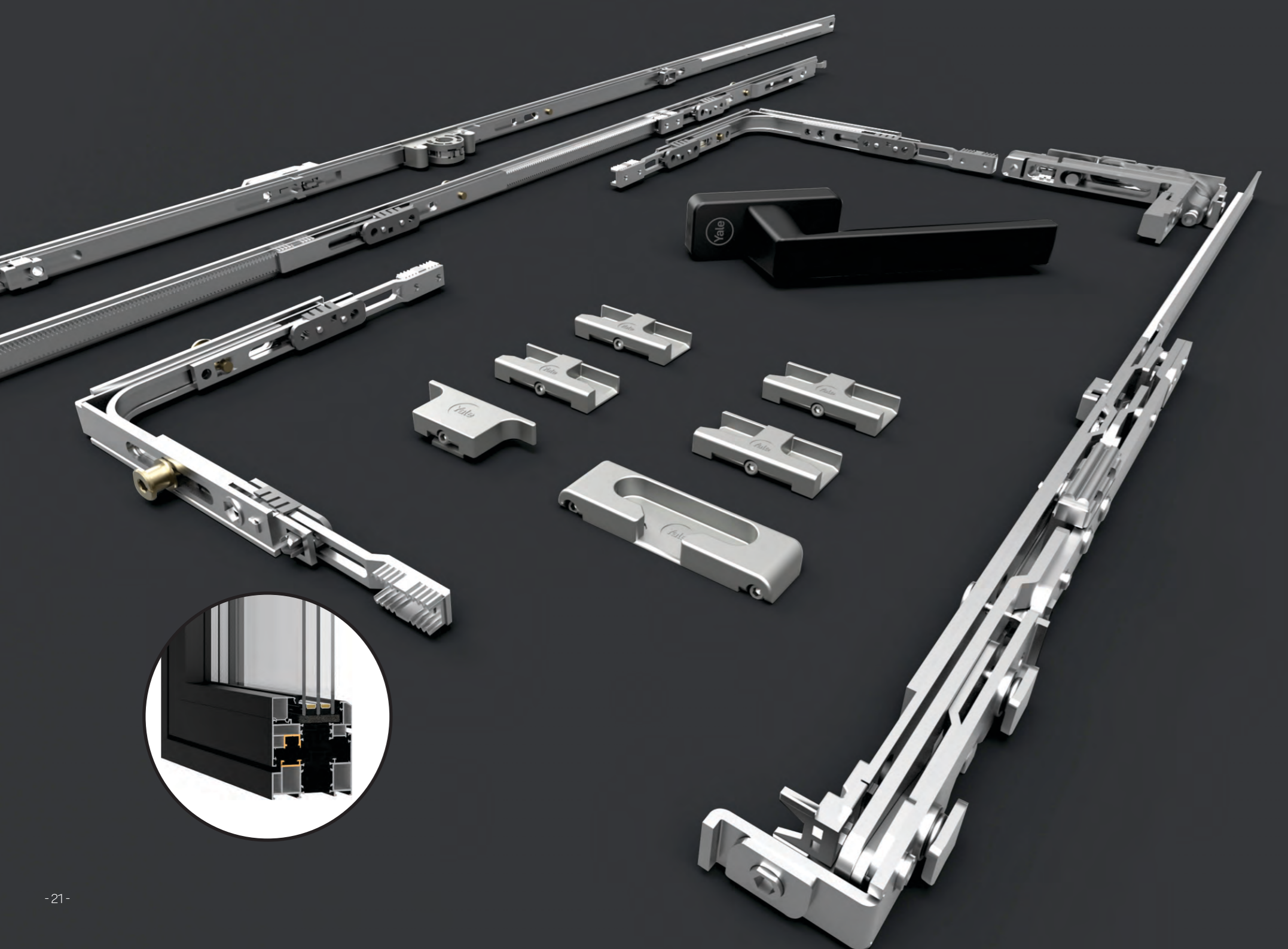
• **CONNECTING ROD**  
Rack connectionNo gap is more stable and firm.



• **EXTENSION BAR**  
Extendable unit easy to install.

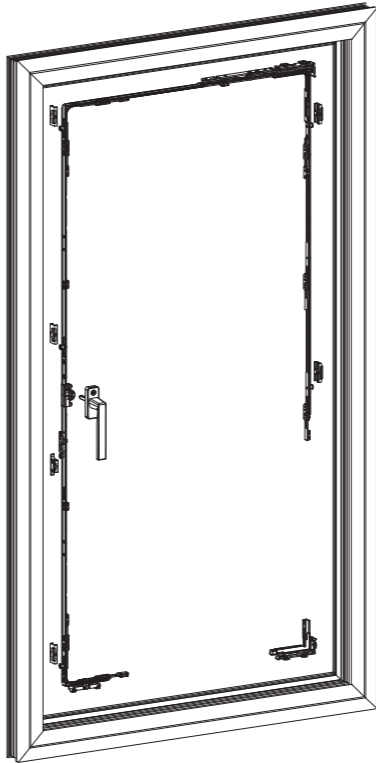


• **BORDER LOCK SEAT+ HOOK LOCK SEAT**  
Multi-lack point high anti-theft super securityResistant to high levels of violence.



## UC-slot Concealed tilt and turn hardware system

- Features
- Standardized design of hardware slots, allowing customers to choose different hardware configurations according to their requirements; The system can achieve the function of hanging window sashes to meet the micro ventilation needs of users.
  - Multi point locking hardware system, adjustable locking point compression degree, adjustable distance of ± 1mm, reasonable layout.
  - Effectively meet the requirements of window sealing performance, with air tightness up to level 8 and water tightness up to level 5.
  - The 3D adjustable hinge is convenient for window production, installation, and adjustment, with high load-bearing performance; The maximum load-bearing capacity is 80KG.
  - The anti misoperation device can withstand high torque, effectively preventing human error and improving safety performance.



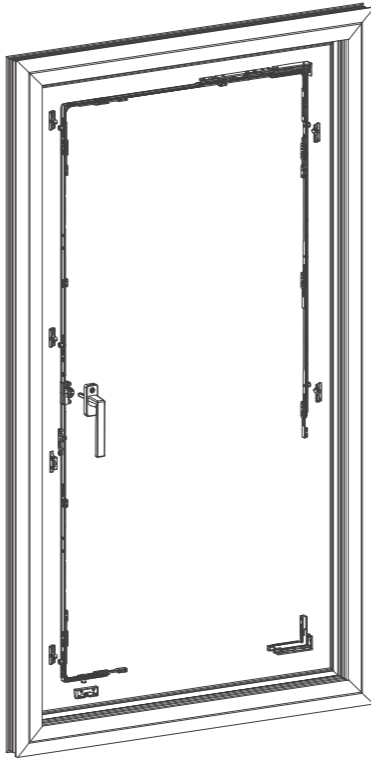
PATENT: 202422400466.2

Parameter

Adapter Profile	Frame C fan U European standard 12/20-13, 14/18 slot broken bridge aluminum profile, polyurethane profile		
Adaptive Window Width	460mm<W≤800mm		
Adaptation window height	550mm<H≤2000mm	Maximum opening angle	90°
weight capacity	80kg	maximum aspect ratio	1/1.5



High performance  
UPVC new plastic window



PATENT: 201720818233

## U-slot Concealed tilt and turn hardware system (Upvc Window)

- Features**
- Standardized design of hardware slots, allowing customers to choose different hardware configurations according to their requirements; The system can achieve the function of hanging window sashes to meet the micro ventilation needs of users.
  - Multi point locking hardware system, adjustable locking point compression degree, adjustable distance of ± 1mm, reasonable layout.
  - Effectively meet the requirements of window sealing performance, with air tightness up to level 8 and water tightness up to level 5.
  - The 3D adjustable hinge is convenient for window production, installation, and adjustment, with high load-bearing performance; The maximum load-bearing capacity is 80KG.
  - The anti misoperation device can withstand high torque, effectively preventing human error and improving safety performance.

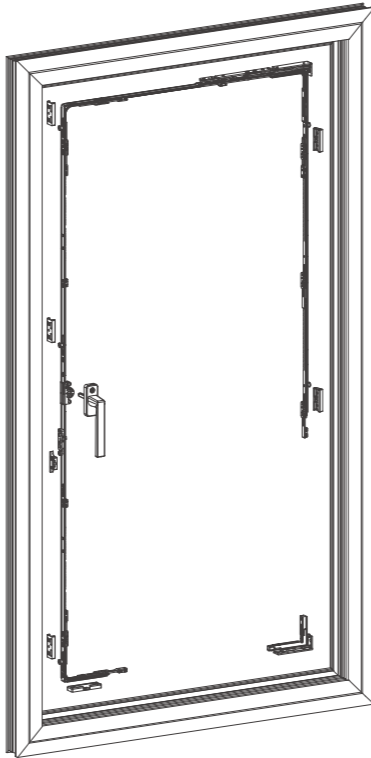
Parameter			
Adapter Profile	High performance UPVC new plastic window profiles		
Adaptive Window Width	460mm<W≤800mm		
Adaptation window height	550mm<H≤2000mm	Maximum opening angle	90°
weight capacity	80kg	maximum aspect ratio	1/1.5



## U-slot Concealed tilt and turn hardware system (Solid Wood Window)

### Features

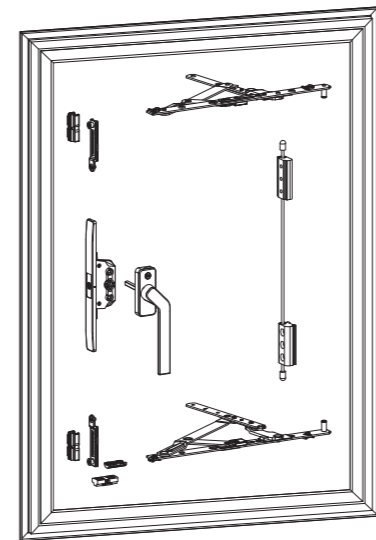
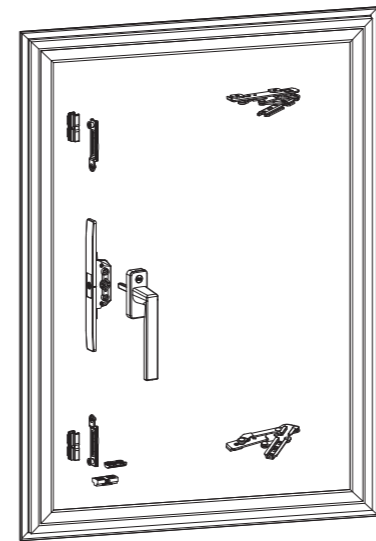
- Standardized design of hardware slots, allowing customers to choose different hardware configurations according to their requirements; The system can achieve the function of hanging window sashes to meet the micro ventilation needs of users.
- Multi point locking hardware system, adjustable locking point compression degree, adjustable distance of ± 1mm, reasonable layout.
- Effectively meet the requirements of window sealing performance, with air tightness up to level 8 and water tightness up to level 5.
- The 3D adjustable hinge is convenient for window production, installation, and adjustment, with high load-bearing performance; The maximum load-bearing capacity is 80KG.
- The anti misoperation device can withstand high torque, effectively preventing human error and improving safety performance.



PATENT: 202422660339.6

### Parameter

Adapter Profile	Solid wood window profiles, embedded plastic steel profiles		
Adaptive Window Width	460mm<W≤800mm		
Adaptation window height	550mm<H≤2000mm	Maximum opening angle	90°
weight capacity	80kg	maximum aspect ratio	1/1.5



PATENT: CN201830582851.0

## Outward opening window with built-in screen sash hardware system

### Features

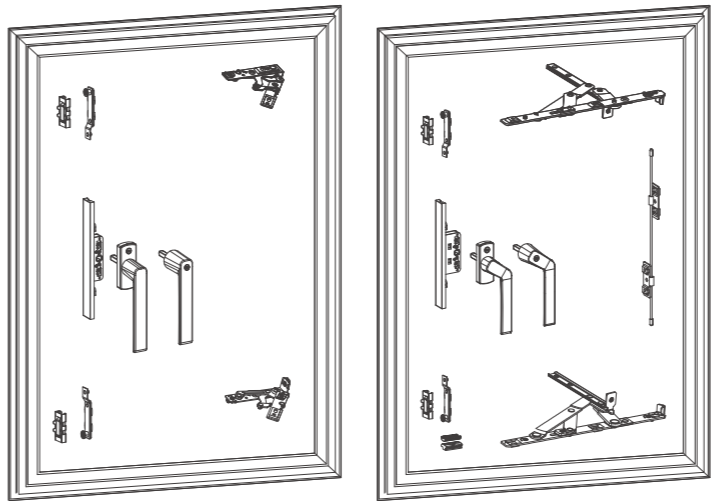
- Transmission lock box  
Zinc alloy material, two-way transmission, a variety of center distance optional, anti-pull function;
- Pin block  
Zinc alloy material, excellent corrosion resistance, lock point bushing design, smoother transmission, anti-pick lock point, suitable for European standard C groove;
- Outer Hinge  
High load-bearing design, up to 50KG, no milling reinforcement installation, more convenient, no sliding groove design, no fear of dust and dust, suitable for external opening and internal profile.



## Outward opening window with built-in screen sash hardware system

### Features

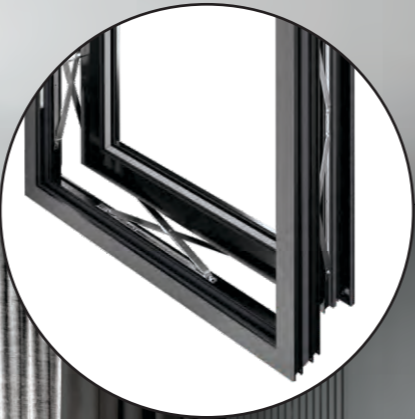
- **Transmission lock box**  
Stainless steel material, bidirectional transmission, multiple center distances to choose from, universal for handle without base and with base, anti pull off function.
- **Pin block**  
Stainless steel material, excellent corrosion resistance, lock point shaft sleeve design, smoother transmission, anti pry lock point.
- **External open hinge**  
High load-bearing design, up to 50KG, no milling reinforcement installation, more convenient, no sliding groove design, no fear of dust and ash.
- **Hand held**  
Ceramic paint surface treatment, metallic texture, multi gear design, more comfortable rotation.



PATENT: 2021217681104

### Parameter

Adapter Profile	European standard aluminum alloy groove 15/20-14/18 mm profile
hinge	The glass fan is repeatedly opened and closed 35000 times, and the gauze fan is repeatedly opened and closed 25000 times.

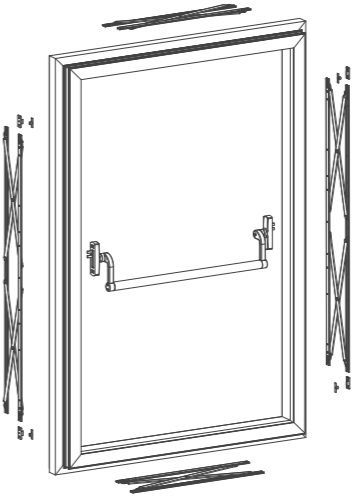


Tens of thousands of open tests  
just for every perfect experience

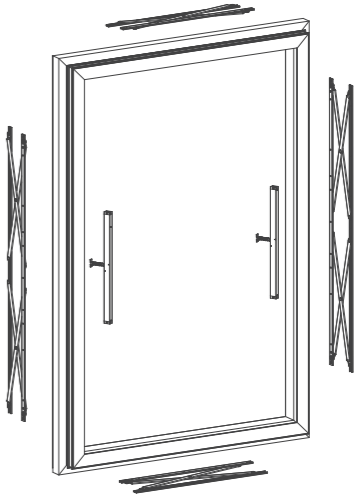


# Parallel window hardware system

PATENT: 201822135831.6



Manually open



Electric opening

## Features

- The connecting rod is widened and thickened, and the maximum load-bearing capacity can reach 180KG;
- The opening distance of YAE22-39 is up to 250mm, and the opening distance of YAE22-50 is up to 300mm, which can meet the requirements of fire and smoke exhaust;
- The eccentricity of the rivet is adjustable to compensate for the installation and processing errors of doors and windows.

# American style hand-operated window opener

High temperature paint, stainless steel die casting  
Easy to assemble, highly decorative and usable



BEAUTIFUL



WEAR-RESISTANT



EASY TO ASSEMBLE



STYLISH AND ELEGANT



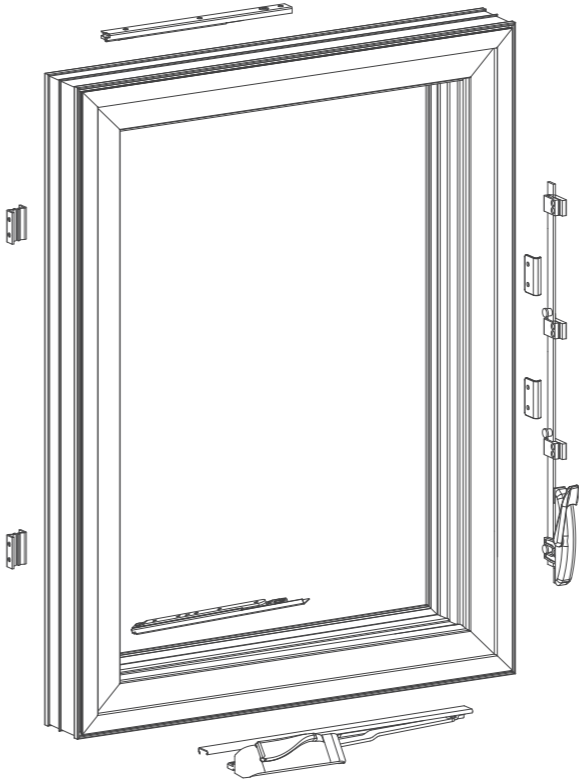
# American style casement window operator system

## Features

- **Easy to turn on**  
The window can be opened and closed through a set of window openers with a worm gear and worm structure to open and close the rotating handle, and the hand does not need to reach out of the window at all;
- **Self-locking Bit**  
The self-locking function of the worm gear structure ensures that the window sash can be locked at any opening position from 0 to 90°;
- **Screens do not interfere**  
The operation of opening and closing the window completely does not interfere with the screen window, which perfectly solves the problem of cooperation between the outward opening window and the screen window;
- **Easy to clean window sash**  
During the opening process of the window sash, there is a certain distance to the middle to ensure that the hand can reach the outside for scrubbing;
- **Multi-point locking to ensure safety**  
After the window sash is closed, it is locked by a wrench, and at the same time, the drive is driven to achieve multi-point locking, which enhances the sealing performance and safety performance.

## Parameter

Adapter Profile	Special profile
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PATENT: 201821671018.4



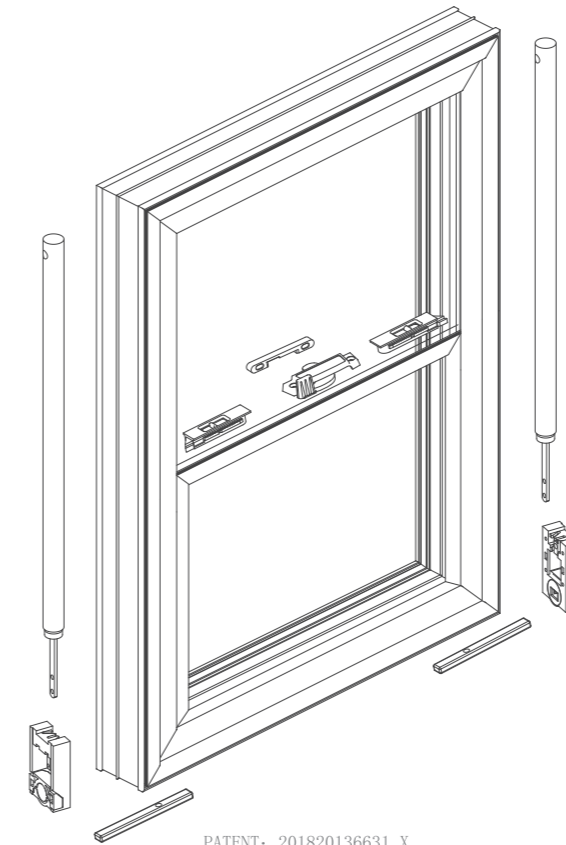
## American style vertical sliding window system

### Features

- **Beautiful**  
The hardware is completely hidden in the profile space, and the opening method of lifting up and down does not occupy the indoor space;
- **Rich product series and specifications**  
For profiles of different sections, there are a variety of supporting sliding window hardware systems to meet the different needs of customers;
- **Two functions can be selected according to the configuration**  
Pull-up window, pull-up flip window;
- **Easy installation and strong performance**  
The spring is made of high-quality spring steel, which has high elastic limit, high fatigue limit, strong impact toughness, and has a life of more than 4,000 times of repeated opening and closing;
- **Multi-point locking to ensure safety**  
The crescent lock can effectively prevent foreign intrusion and improve the safety of use.

### Parameter

Adapter Profile	Special aluminum alloy/plastic steel pulling profile
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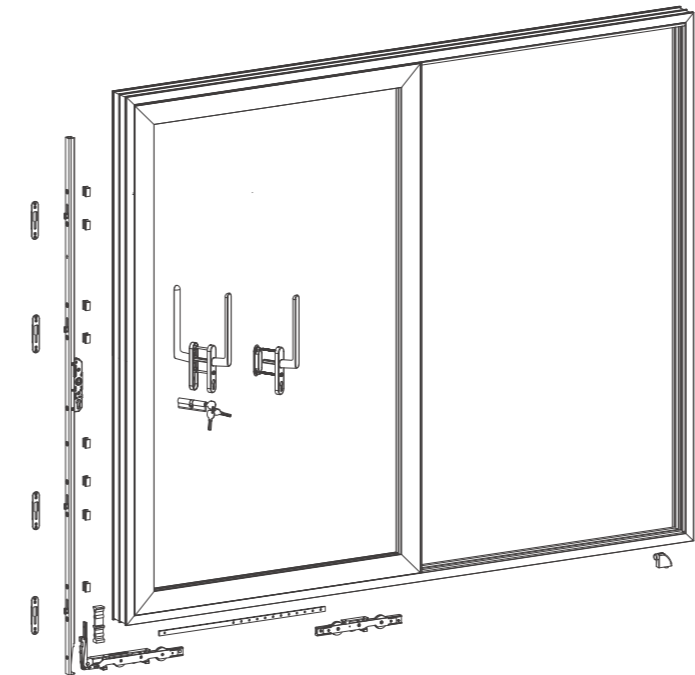
PATENT: 201820136631. X



# Lift sliding door hardware system

## Features

- The door leaf can be opened up to a maximum width of 3m;
- The lock block is embedded in the profile, which can effectively prevent the lock point from scratching the user;
- The maximum load-bearing capacity of the front pulley + rear pulley single fan is 300kg. If a larger counterweight is required, it can be achieved by adding a middle pulley block;
- The drive is connected to the pulley block, which is convenient and quick;
- There are multiple specifications for installation and fixing blocks, which can be adapted to various profiles;
- The metal parts are made of stainless steel or surface electroplated with matte zinc, which has excellent anti-corrosion performance.



PATENT: 2017207785543

## Parameter

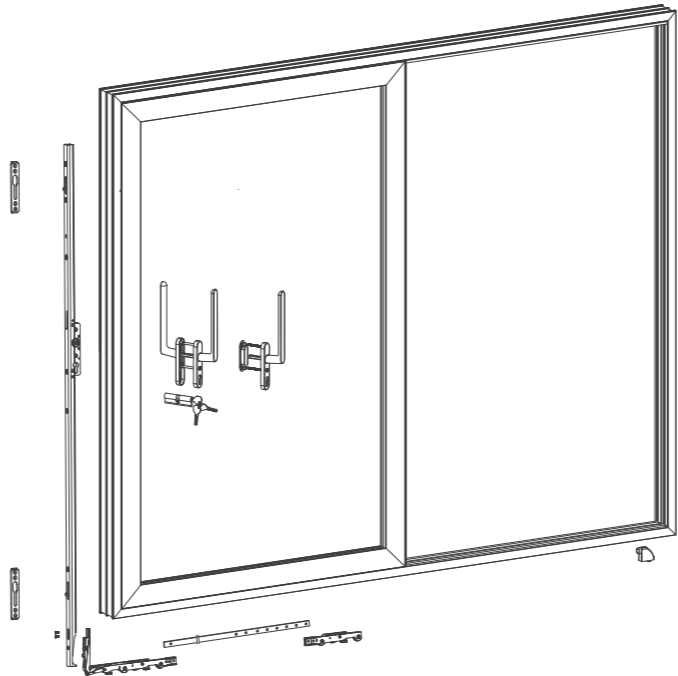
Adapter profile	PVC/ Aluminium alloy/ Solid wood
Adaptive window width	Fan width (SW) 760-3000 mm / Fan height (SH) 1800-2700 mm / Frame width 6000 mm
Standard pulley	max. 300 kg
Add middle pulley	max. 400 kg



## Narrow slot lift sliding door hardware system

### Features

- When the door leaf is opened, it occupies a small space and can be locked at any position.
- Strong load-bearing capacity and stable operation.
- It has the practicality of sliding doors and solves the sealing problem.
- Flexible push-pull, zero load capacity of the locked pulley, effectively extending the service life of hardware.
- All products come standard with a cleaning brush, which comes with track cleaning function to ensure clean tracks and smooth pushing and pulling.



PATENT: 202220805807. 2 / 202210366083. 0

### Parameter

Fan width	750-1800mm
Fan height	1850-2300mm
Maximum fan weight	150Kg

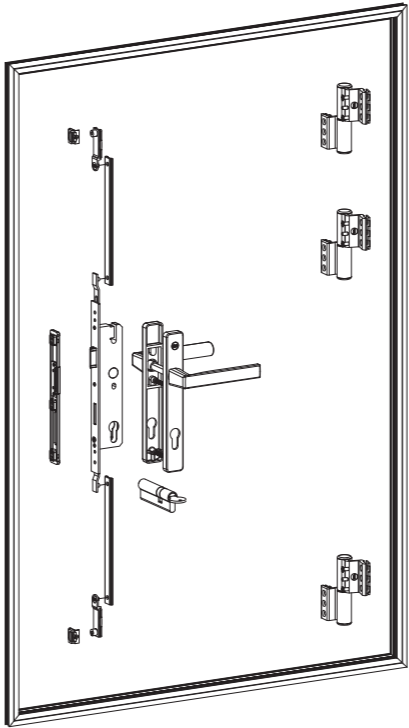
By selecting or adjusting cushion blocks, support blocks, connecting rods, etc., it can adapt to various specifications of profiles.



## Casement door hardware system

### Features

- The linked door lock structure can achieve multi-point locking, meeting performance requirements such as air tightness, water tightness, and wind pressure resistance.
- Adjustable: The hinge has a three-dimensional adjustable function, making installation more user-friendly.
- The embedded zinc alloy components adopt pollution-free and environmentally friendly matte zinc electroplating technology. The product has a neutral salt spray test (NSS) of 1000 hours without white rust, and has good corrosion resistance and weather resistance.
- Exposed parts are provided with two surface treatment methods: anodizing and antibacterial polyester powder electrostatic spraying. The oxidized product has a soft color and does not fade; The antibacterial performance of the sprayed parts meets the international standard JISZ2801:2012, with an antibacterial rate of ≥ 99%.



PATENT: 202130265224. 6

### Parameter

Adapter Profile	Aluminum alloy European standard 15 × 20/14 × 18 groove profile for swing doors
Weight capacity	120kg
Three dimensional adjustable	

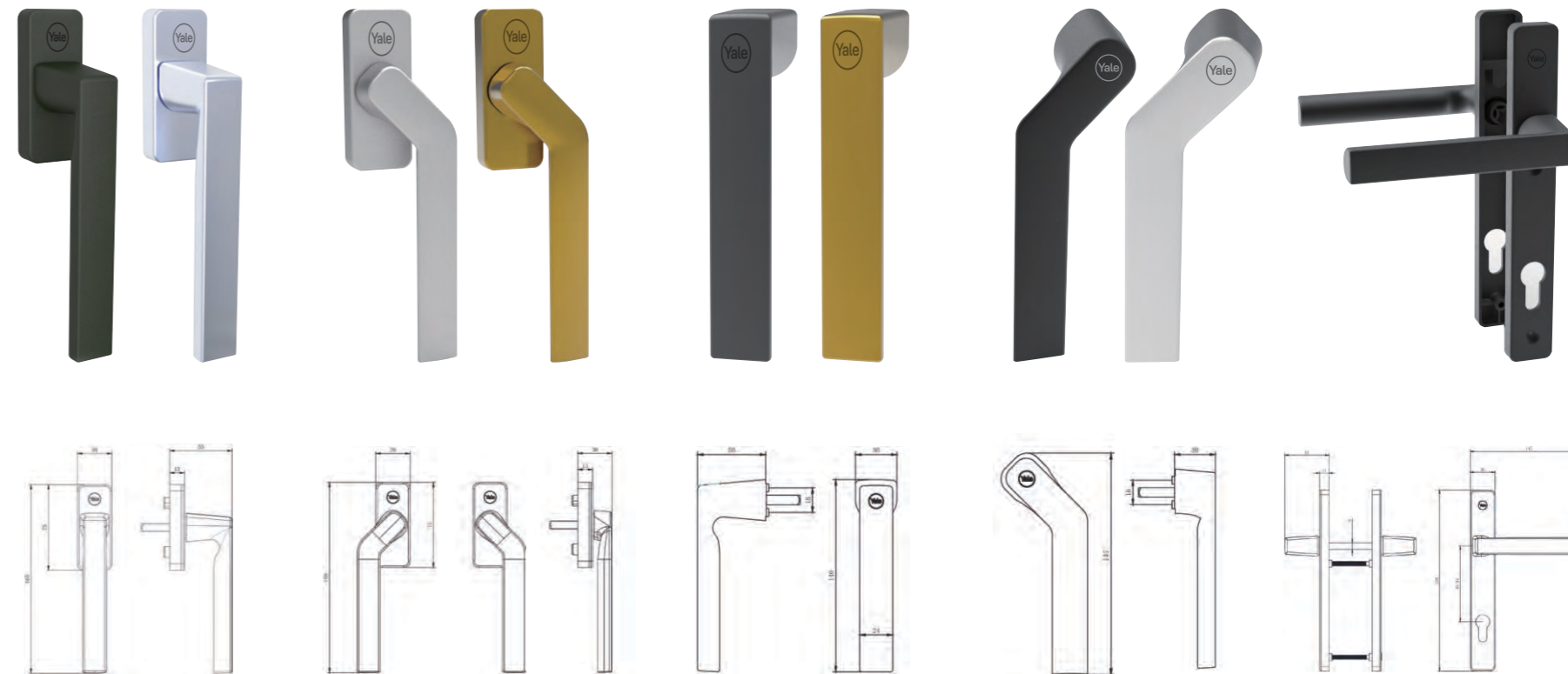
# Hamburg

The entire series of products embodies the same rigorous attitude as cities like Hamburg in Germany, and also allows customers to see our company's serious attitude towards product details.

PATENT: 202130267948.4



## Hamburg style handle



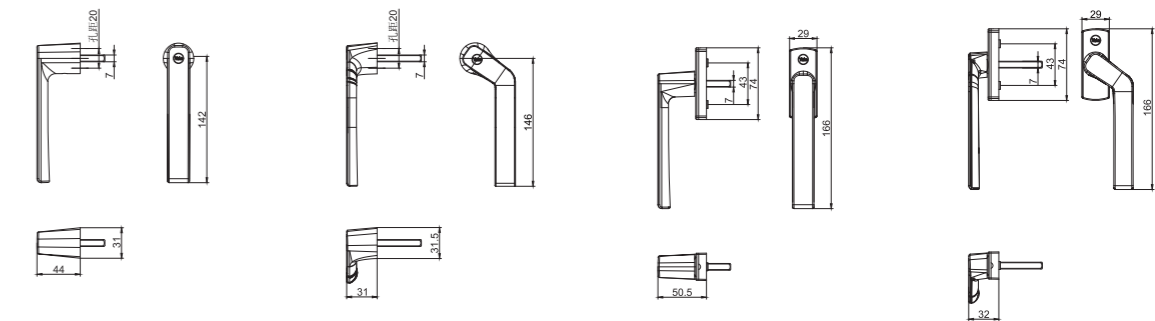
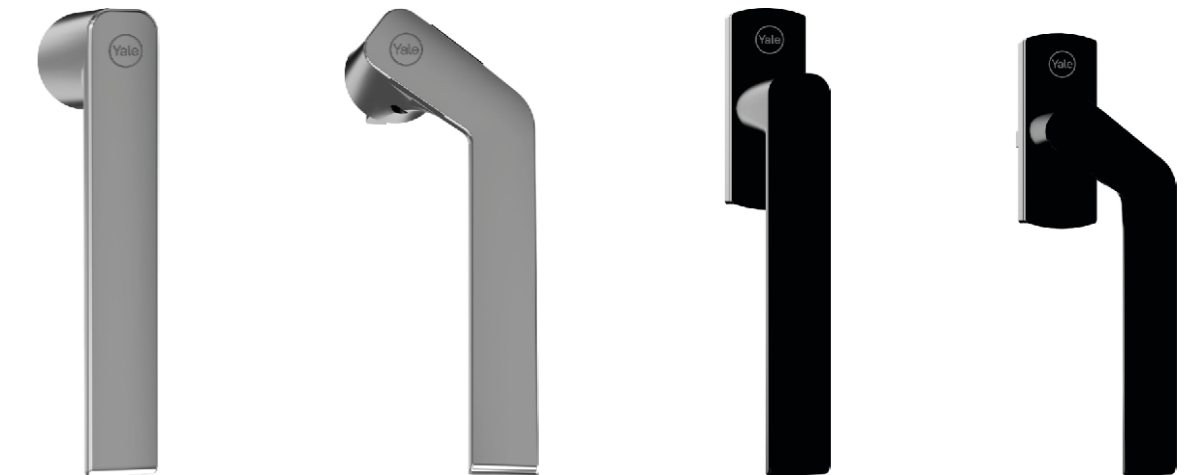
# Hamblett

Inheriting the creative essence of the Hamburg series bridge design, while presenting a more concise and clear style.  
Unlike the Biosecure surface in Hamburg, this design uses spray painting technology with a ceramic paint texture, giving the surface higher hardness and perfectly matching the modern minimalist style of extremely narrow window design.

PATENT: 202130265224. 6



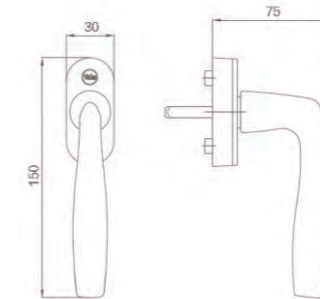
## Hamblett series handle



# Houston

Like the Houston Rockets, it has a very high level of popularity and its surface has been treated with BioSecure. The exterior colors can be made into coffee gold, shimmering silver, and sandpaper black, each of which is pleasing to the eye.

PATENT: 202130265224.6



## Houston style handle

