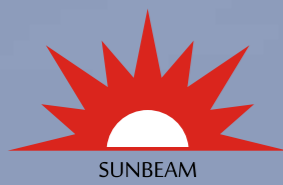


Wind-Resist Roller Shutters





SUNBEAM

High-security, Smart, Rugged, Wind Resistant Gating Systems

SUNBEAM is a brand name of Golden Mountain Machinery Co., Ltd., which is one of the early pioneers and modern-day innovators of Gating Systems for home and office facilities. Established in 1973, SUNBEAM's award-winning products include **Roller Shutter Motors, Roller Shutters, Smart Strong-Wind Resistant Roller Shutters, Speedy Roller Shutters, Fence Sliding Gate Operators, and Smart Collapsible Gates**, all of which are developed and produced in our **ISO9001 certified, 8,983 square-meter office and factory facilities**, operating out of **Central Taiwan**.

SUNBEAM's staying-power is firmly entrenched in a culture of attention-to-detail and reinvention, introducing new services, materials and technology to help focus on raising the standards on **smart, rugged, long-lasting gating solutions**. SUNBEAM technologies has secured countless patents across Taiwan, Europe, America, Malaysia and Japan, and has garnered generous subsidies from the SBIR (Small Business Innovation Research) for the advancement of new technologies for the Gating Industry.

Local/International Patents



Each of our product lines are the culmination of many years of professional experience and technology evolution that are backed up by a long list of patent certificates and decorations, both locally and internationally - it is a testament to our dedication and commitment to bring new directions and ideas to the Gating Industry.



Golden Mountain Established by President HUNG, CHIN-SHAN

1973

Moved to first factory and office complex

1991

ISO 9001

2001

Launched new second factory

2007

Strong Wind Resistant Roller Shutter technology 20-year patent (MOEA subsidized)

2014

Launched Speedy Roller Shutter Factory

2016

1987

Far Eastern Asia Invention Fair Award Winner

1992

Upgraded factory to accommodate expanding business

2005

Launched Smart Fence Sliding Gate Operators (MOEA patent and subsidies)

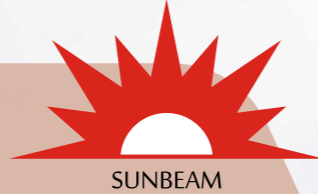
2014

Launched Speedy Roller Shutters

Wind-Resist Roller Shutters

Building a Better Product - Safe, Quiet, Convenient and Durable

What separates an outstanding product from the rest of the pack? It's a keen eye for what our customers are looking for in a Professional Roller Shutter, a product that works from day one and soldiers on, season after season, year after year, with consistent, dependable service. And that means attention to details that quietly work behind the scenes but are some of the most important pieces of the equation to build a better Roller Shutter - safer, quieter, more convenient and durable.



01. Quiet



Traditional Roller Shutters have been known to deteriorate over time – rust and worn parts result in squeaky and creaky operations in a short period. Sunbeam Roller Shutters are especially designed to avoid wear and move effortlessly within the mechanisms, always running like new, even after many years of operation.

02. Safe



Roller Shutters are heavy, moving, potentially dangerous mechanical devices. And that is why many important safety features have been designed into Sunbeam Roller Shutter systems over the years to safeguard people and personal belongings. It is a testament to our experience and commitment to this single most important priority.

03. Durable



Exposure to the elements, especially high winds, is one of the most damaging factors undermining the longevity of your Roller Shutter. Again, it's Sunbeam's 45+ year experience that have helped us to evolve our products into a formidable product to withstand anything that the harsh seasonal conditions bring.

04. Convenient



What is a Roller Shutter if you have to work around it and not the other way around? Sunbeam products are upgraded to take advantage of today's amazing technologies to make sure a new shutter door is a seamless addition to your routines.

Attention to Detail



A Emergency Brake

Our shutters can be equipped with a fail-safe brake-stop mechanism in case of motor gear failure or bracket chain break, which can result in a dangerous free-fall of the shutter door. The Emergency Brake is designed to catch this situation immediately and stop the shutter in place.

B Guide Rail Rollers

At the top of the guide rail are roller wheels which guide the shutter into the housing for smooth and quiet shutter roll.

C Bottom Slat Safety Touch Sensor

The bottom slat can be optionally be installed with a touch sensor that can sense shutter contact with an object below it when the door is closing – upon contact the shutter will stop and retreat for 3 seconds.

D Quiet Wheels

These wheels come with our Wind-Resist Roller Shutters and are applied to our slats to support smoother, unencumbered, quieter shutter roll and operations.

E Wind-Resist Wheels

These wheels come with our Wind-Resist Roller Shutters and are used to resist high winds. Strong gusts have been known to easily dislodge slats from their guide rails. However, our wind-resist slats have perpendicular wheels that hold the slats in place during strong winds.

F Motor Brake

Our motors are equipped with a low maintenance Tilt Disc Brake system that is easily adjustable at precise gap intervals of 0.05 mm. This braking system's performance ranks very high in our industry.

G Motor

Powerful Sunbeam Roller Shutter motors are designed for easy installation and operations, but are made exceptionally sturdy for the rigors of day-to-day lifting and lowering of large heavy doors. The latest technology allows our motors to adapt to different configurations to meet the various needs of our customers.

H Smoke Detector

An optional smoke detector can be installed. Upon sensing smoke, the detector can relay the information to the Multi-functional Security Host, which then takes the appropriate action to either open or close the shutter completely, depending on the setup by the customer.

I Bracket Plate

The bracket plate that comes with our Shutters is already assembled with gear and chain and is easily attached to the motor and shutter axle.

J Multi-functional Security Host

This is the operations center that communicates important information to/from complimentary components such as the smoke alarm (optional), warning light (optional) and IR trip sensor. In case of IR trip sensor failure, you can still press the "open" button for 5 seconds to open the door or press the "close" button for 5 seconds to close the door.

K Warning Light and Audible Alarm

An optional warning light with audible alarm can be installed to alert users of unauthorized forced entry.

L Detachment Line Brake System

This is an important feature that prevents the shutter from over-rolling up into the shutter housing. If this line becomes detached the motor will stop in place.

Selecting your Roller Shutter

Below are several selection items when ordering your Roller Shutter.

Roller Shutter Types

Sunbeam offers two types of Roller Shutter doors.

A) Traditional Roller Shutters with traditional plain slats.

B) Wind-Resist Roller Shutters have slats that are equipped with roller wheels for smoother roll and wind protection. These slats also have assembly type, non-bend cover clips.

Both types of Roller Shutters can be operated manually (motor-less) or they can be equipped with a motor, which has a circuit board that allows for other capabilities such as smoke alarms, touch safety sensors, remote control etc.

A) Traditional Door Shutter Slat
(with plain slats and welded cover clips)



B) Wind-Resist Roller Shutter Slat
(with Quiet Wheels, Wind-Resist Wheels, assembly type non-bend cover clips)



Slat Colors

Slats can come in three choices of colored powder coating or you can opt for no color which will leave you with two choices of raw metal surface. Note that the front and back sides of the powder coating colors are different (front refers to the side typically facing the outside or street side). The raw metal look is either stainless steel or galvanized steel (both front and back), depending on the slat material you select (next page).

A) Blue / Dark Beige



B) Gray / Dark Beige



C) Ivory / Light Gray



D) Stainless Steel (raw)



E) Galvanized Steel (raw)



Actual powder coat colors may vary slightly with the printed material on this page.

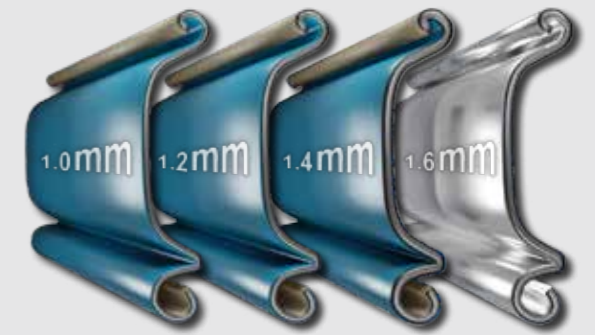
Slat Material & Thickness

There are 2 slat materials to choose from; Stainless Steel and Galvanized steel. Both materials come in various thicknesses as shown. They can be powder coated with a color or you can leave them with the original raw metal surface.

A) Thicknesses for Stainless Steel

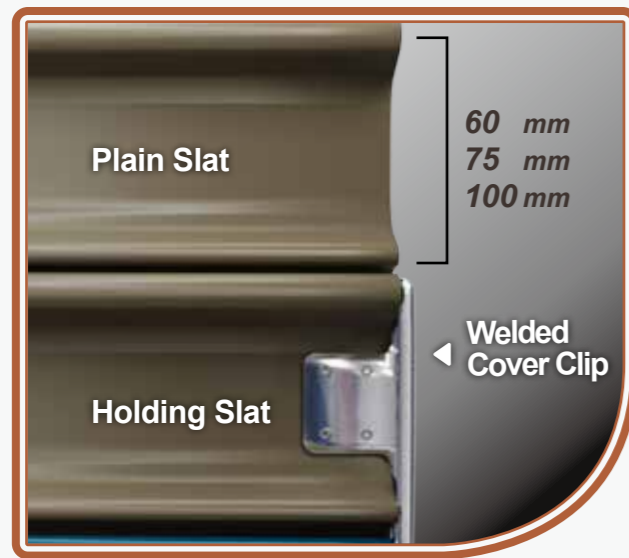


B) Thicknesses for Galvanized Steel



Slat Arrangement

A Traditional Roller Shutter Slat Arrangement



Traditional Roller Shutter are arranged with two different types of slats. One type is a “plain slat” (plain from end to end). The other is a plain slat with a metal, welded “cover clip” (explained below). These 2 slats alternate on the door. The slat heights can be either 60, 75 or 100 mm. This is the only slat arrangement for Traditional Roller Shutters.

Cover Clips

On all roller shutters, consecutive slats are held together by a hook at the bottoms and tops of the slats. However, the slats can still slide independently, from side to side (a). Alternating slats have what is called a “cover clip” (b) at the ends to avoid this.



B Wind-Resist Roller Shutter - Wind-resist Wheel Slat, Quiet Wheel Slat Arrangements

Wind-Resist Roller Shutters have several types of slats – one type has a “Wind-Resist wheel” that faces perpendicular to the face of the slat - it holds the slat in place within the side guide rails during strong winds. The other type of slat has “quiet wheels” which face the same way as the slat – these wheels are used to reduce noise and ensure a smoother, unencumbered roll. The “quiet wheel” slats also have a “cover clip” to keep consecutive slats from sliding independently from side to side.

Slats with “Quiet wheels” and “Wind-Resist wheels” can be placed in **two different arrangements**.



1 Wind-Resist Wheels with alternating Quiet Wheels



Wind-Resist Slats can have alternating “Wind-Resist wheels” and “Quiet wheels”. These slats alternate at the bottom portion of the door. The top portion will have alternating “quiet wheel” slats and plain slats that continue up to the top of the door. Note that the “quiet wheels” also have a cover clip.

All slat heights for Wind-Resist Roller Shutters are fixed at 100 mm.





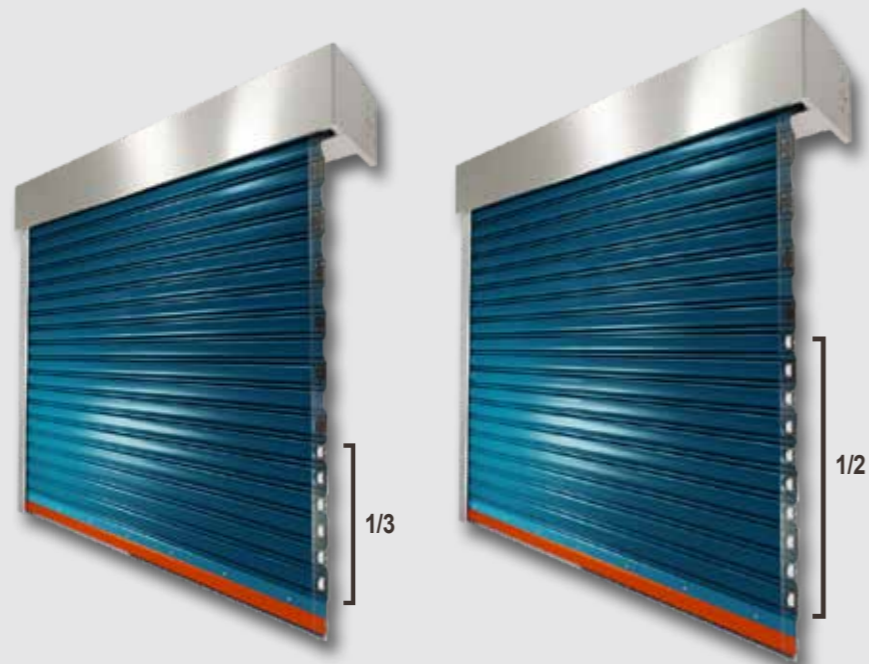
2 Consecutive Wind-Resist Wheels

Wind-Resist slats can also be arranged to have consecutive “Wind-Resist wheel” slats at the bottom portion of the door. In the image below, the top slat also has a black plastic cover clip that doesn’t bend out of shape during installation (unlike metal cover clips). The top portion of the door has alternating “plain” slats and “cover clip slats” (with black plastic cover clips).



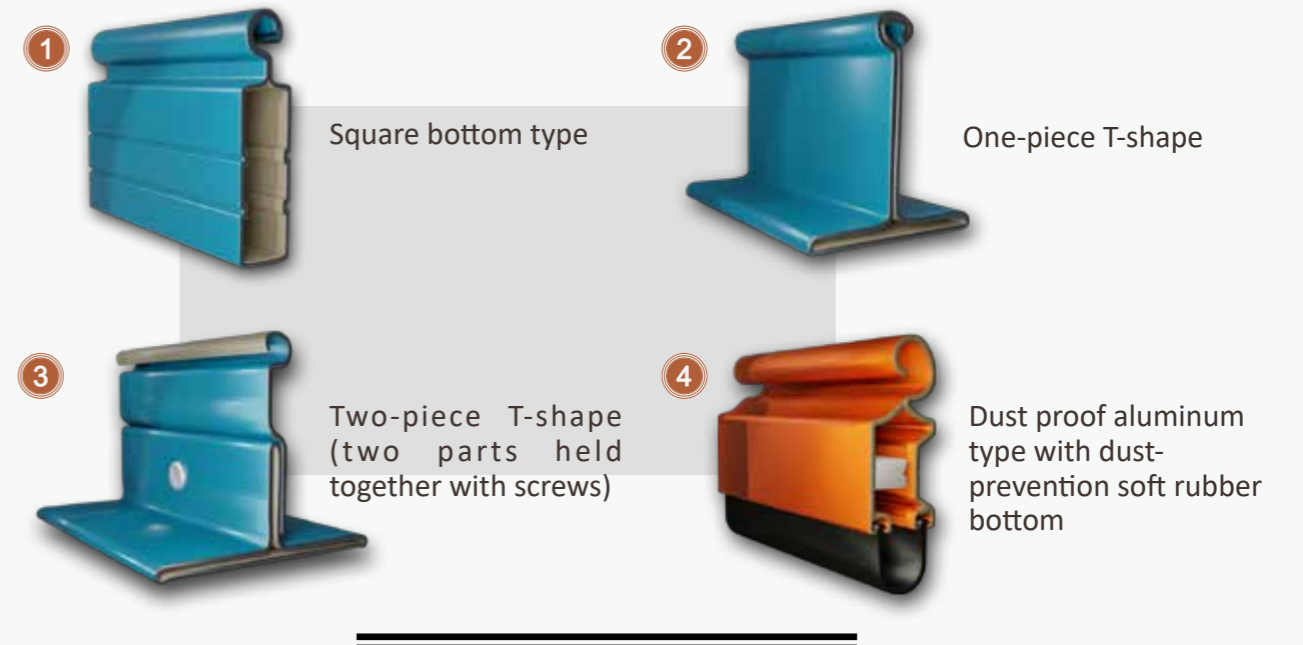
Wind-Resist Slats - Bottom Portion

As mentioned, the slats with Wind-Resist wheel arrangements are placed only towards the bottom portion of the door covering 1/2 or 1/3 of the bottom. Covering 1/2 the bottom is a stronger configuration and is used in areas of extremely high winds.



Bottom Slat Selections

The very bottom slat of all of our roller shutters have special configurations. The bottom slats described below can be applied to all of our Roller Shutters, except for the Bottom Slat with the Safety Touch Sensor, which can only be applied to Roller Shutters with motors.



Color Options for Bottom Slats 1-3



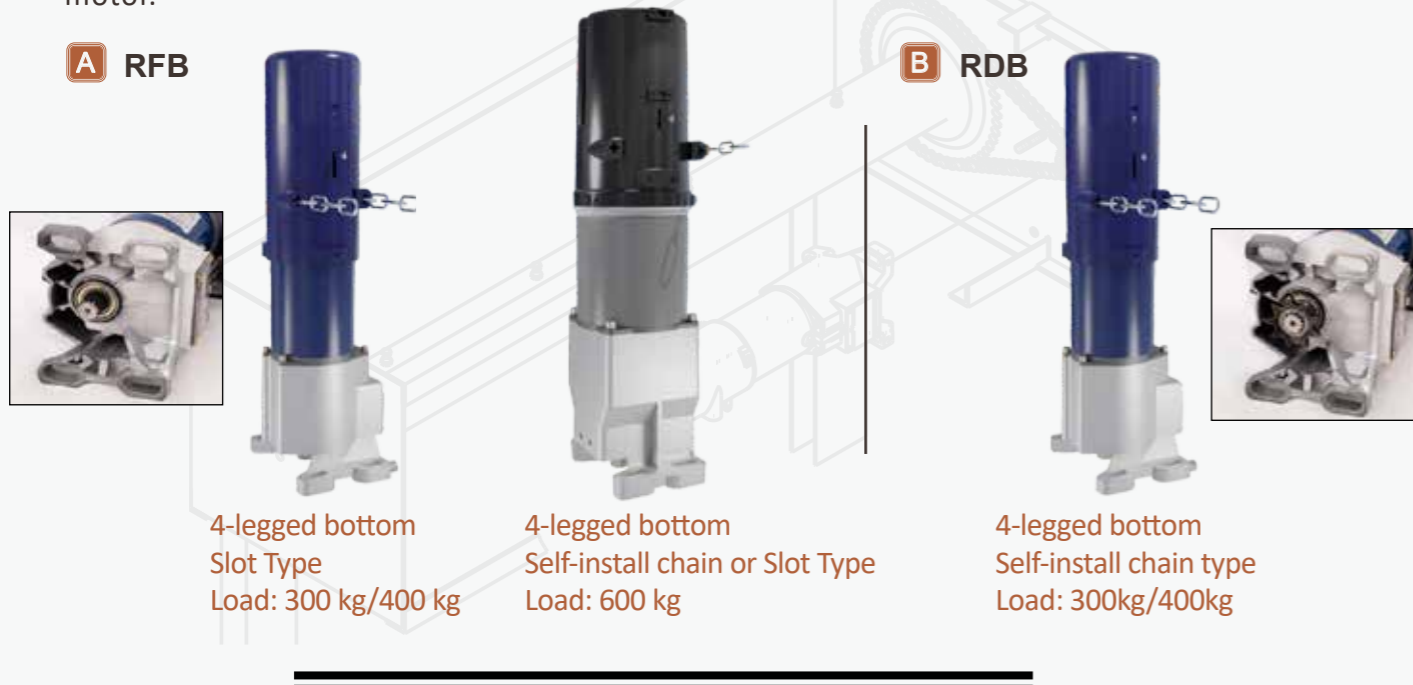
Bottom Slat with Safety Touch Sensor (for Motor Driven Doors only)

Motor Driven doors can be installed with an optional touch sensor on the bottom slat that will stop and reverse the door if it comes into contact with an object. This slat is made of aluminum with a dust proof soft rubber material encasing the sensor.



Roller Shutter Motors (for Motor Driven Shutters)

There are two models of motors that are used with our Roller Shutters (RFB, RDB). The appropriate motor is determined by the weight of the Roller Shutter, which in turn is determined by the dimensions of your door. Sunbeam will help you select the appropriate motor.



Inside/Outside Installation

You can select for inside or outside roller shutter installation as shown below. The shutter housing can reside inside or outside the structure of your building.

A Inside installation

For an indoor installation, the roller shutter and motor will reside within the building structure, providing there are no other structural obstructions within the building. Shutter housing can still exist within the building structure to protect the shutter. Motor housing for inside installation can also be applied.



B Outside installation

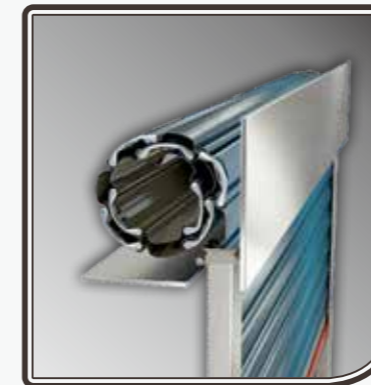
With an outside installation, the entire shutter housing protrudes outside of the building structure. Additionally, the motor will also require housing and will itself protrude from the shutter housing.



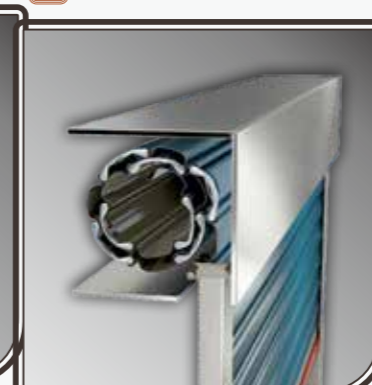
Shutter Housing

The Roller Shutter housing can also be ordered with your roller shutter. It will be required for an outside installation to protect your shutter from the elements. For an inside installation, the sides of the housing will vary depending on the other structures within the building (e.g. piping, posts, lights, decorative fixtures etc.).

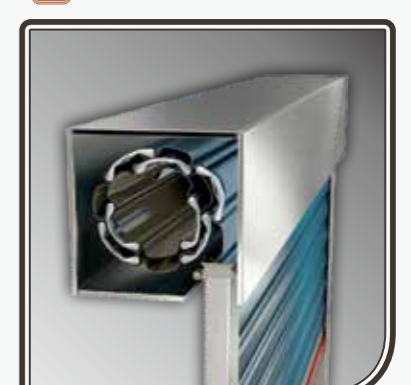
A 2 - sided



B 3 - sided

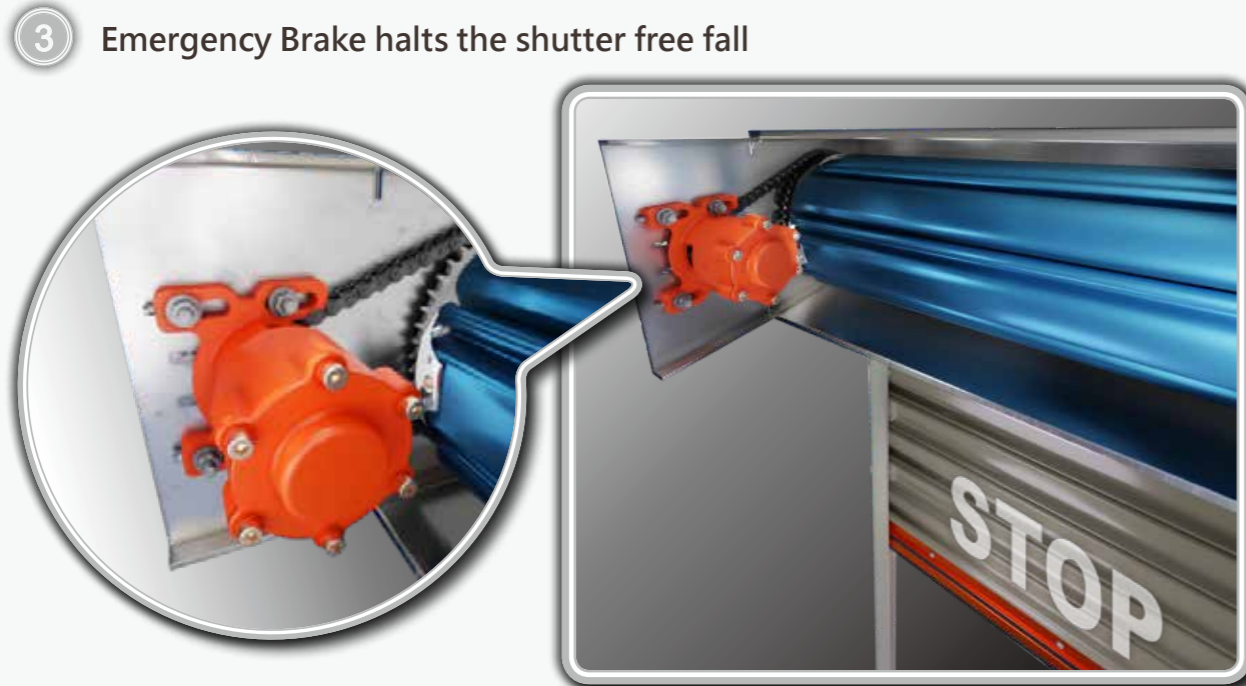


C 4 - sided



Emergency Brake

Our shutters can be equipped with a fail-safe brake-stop mechanism in case of motor gear failure or bracket chain break, which can result in a dangerous free-fall of the shutter door. The Emergency Brake is designed to catch this situation immediately and stop the shutter in place.



Accessories

Below are additional accessories you can order with your Roller Shutter. They provide additional capability and safety enhancements.

Remote Control System

Remote control operations are an optional wireless alternative to opening and closing your shutter.



The remote control host is wired to the motor and can issue commands to the motor to perform operations such as open, close or pause shutter door.



The remote controllers can issue wireless commands to the remote control host to instruct the door to open, close, pause etc.



Infrared Sensors

The first type is called a Dual Station IR trip device and has an IR emitter on one side of the entry way and a receiver on the other side.



The second type is a Single Station IR trip device which means it has a single emitter-receiver device on one side of the entry way only. The other side will have a passive IR reflector.



Emergency Brake

This mechanism is used as a fail-safe backup in case of motor gear failure or bracket chain break, which can result in a shutter door free fall. This device can sense this immediately and stop the free fall in its tracks.



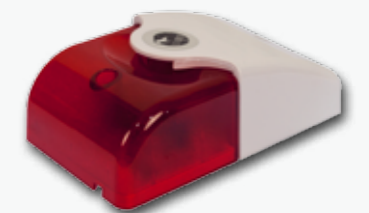
Smoke alarm

This device can detect smoke and issue an audible alarm, in addition to instructing the Roller Shutter to close or open (depending on configuration).



Forced Entry Security Alarm

This optional security feature is a warning light and audible alarm that will activate when there is an attempted forced entry while the shutter is in the closed (shut) position.



Motor Cover

This cover is used to protect the motor for outside building structure installation, but can also be used inside the structure for aesthetic reasons.



For all roller shutter electrical equipment, the utility work unit or the usage unit should be installed with an over-current protection device and Earth Leakage Breaker (ELB). Note: During installation, you should use a ground wire. Also make sure no persons are standing or walking under the doorway while operating the Roller Shutter. A ground wire or earth wire is a wire that is ground to the earth and acts as a backup in case of neutral wire failure. Without one, the risk of electrical shock becomes a possibility. Ground wires are usually green or yellow so as to differentiate it between neutral wires and hot wires.



Other reliable, long-lasting SUNBEAM Products

Wind-Resist Speedy Roller Shutters

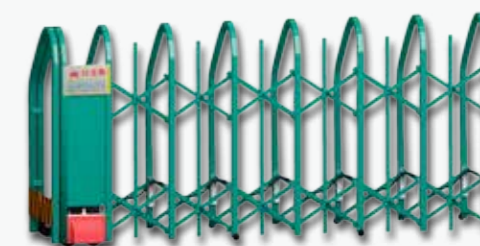
- Durable, break-resistant slats
- Hook wheels keep shutters on tracks in strong winds
- Remote control can switch door to manual operations (from inside or outside)
- AC brake motor makes forced entry impossible
- Motor is located at the inside corner of axle housing for easy access



Fast

Collapsible Gates

- Touch-stop safety device
- Stop-lock enforced security
- Stainless-steel construction
- Slip-less rail wheels
- Stainless steel needle roller bearings (in wheels)
- Partial openings
- Telephone remote control
- Auto-close (optional)
- LED fault indicators
- Strong-wind rail hook wheels



Rugged

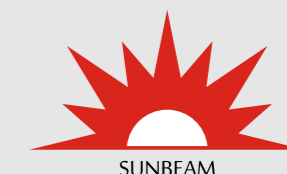
Roller Shutter Motors

Electro-Magnetic Brake System

- No need for Brake Coil or Commutator



Durable



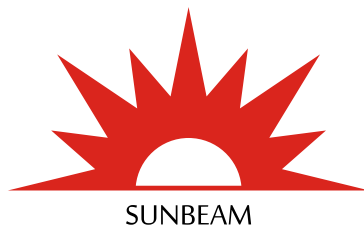
Smart Sliding Gate Operators

- Resistance safety design (optional)
- Cell phone remote control (optional)
- Partial-open setting (optional)
- Auto-close (optional)
- Auto-stop timer if malfunction causes gate to move past endpoints (optional)
- Circuit board intelligence (optional)
- Gear release (for manual operations during power outages)



Smart

Golden Mountain Machinery Co., Ltd. reserves the right to continue to improve our products, and make modifications and deletions from current specifications without prior notification.



Website