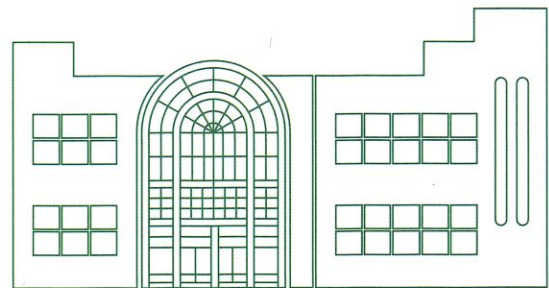
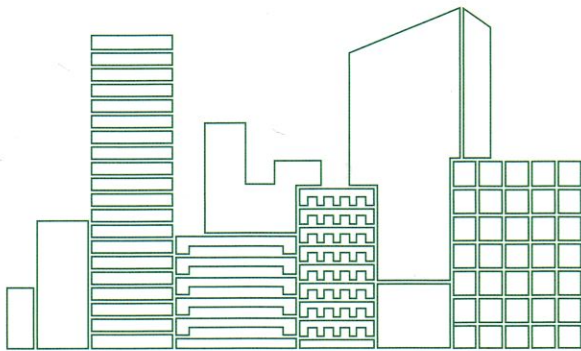
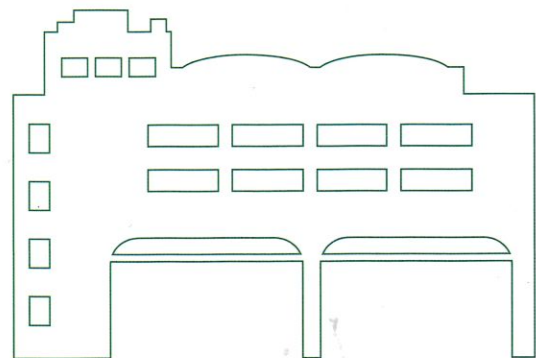
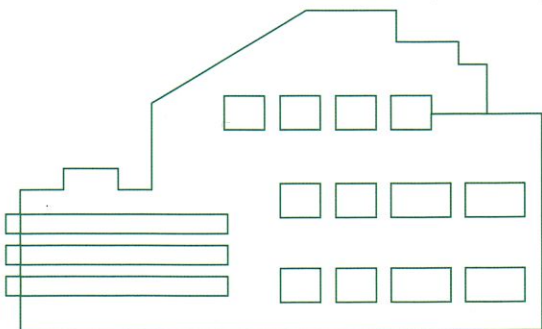


SUN METAL MAINTENANCE SERVICE

～Maintain your environment～



For Security · Safety · Convenience

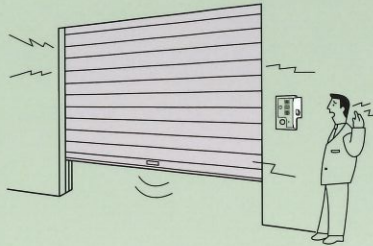


Please read and follow "Operation Manual" for correct use.

If you find below condition, immediately stop the operation of rolling shutter and our other products then call **SUN METAL** for repairing.

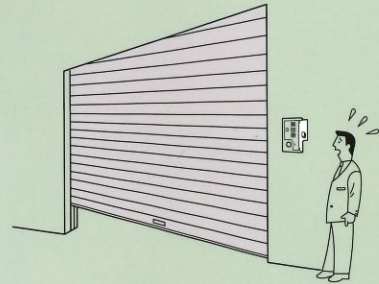
●Daily inspection (for rolling shutter and other products)

①



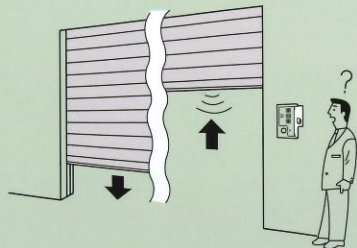
- Unknown noise is occurred from past operation.

②



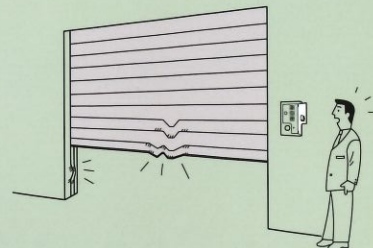
- Shutter curtain is tilted.

③



- Shutter is stopped with motorized operation except full open/close position by itself.

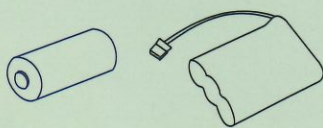
④



- Shutter curtain or guide rail are deformed.

⑤

- Battery of safety bottom switch should be replaced by new one every 2 years.
- Battery of our fire service panel should be replaced every 5 years.



● Periodical Inspection

In order to maintain good condition of Rolling shutters, Oversliders, and Swing doors operation. Periodical inspection is necessary to find malfunction and damage of the products in advance. SUN METAL supplies expert maintenance engineer who implement service work in accordance with type of products.

■ Why necessary?

Safety

- Ensure function of fire shutter close.
- Prevent parts falling or abnormal shutter close accident.

Economy

- Monitor condition of SUN METAL products which is able to be budgeting for future maintenance work and parts replacement in order to maintain productivity.
- Finding malfunction prior to heavy damage which is able to minimize the cost of repairing and lost opportunity.

Durability

- Apply necessary adjustment and lubrication in order to maintain designed durability.

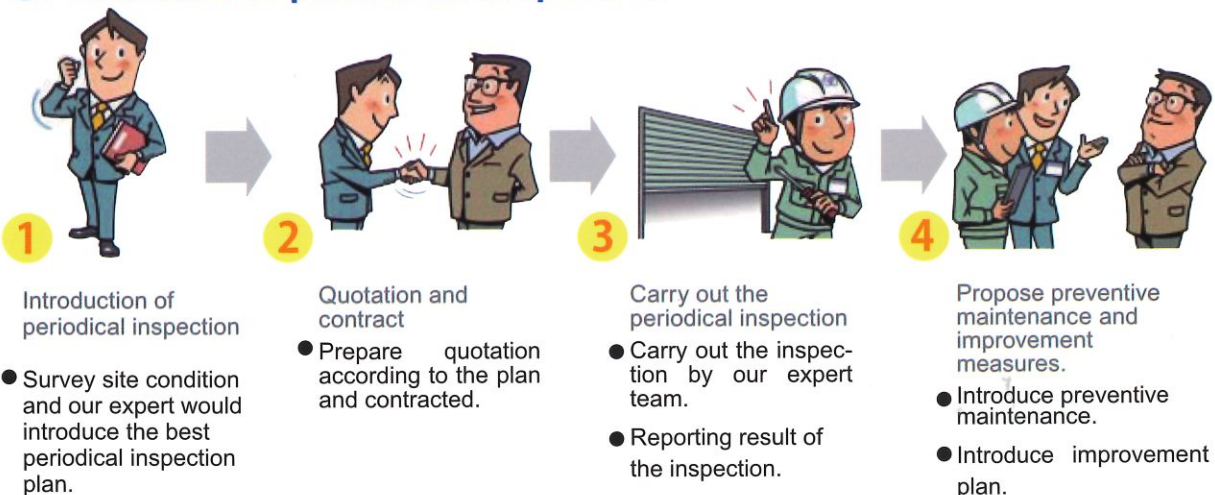
Quickness

- Inspection data will support quick parts identification in order to repair the SUN METAL products with minimum time.

■ Recommendation of periodical inspection contract

Periodical inspection contract will survey current condition of SUN METAL products. Then further repairing or parts replacement work in order to maintain performance and function of the products in accordance with the inspection report is proposed.

● Procedure of periodical inspection



■ Maintain always performance of fire shutters and fire doors

Fire shutters and fire doors may not be operated often. Keeping opening position is usual. In order to operate the fire shutters and fire doors in emergency case with required performance, periodical inspection is highly recommended.

Function

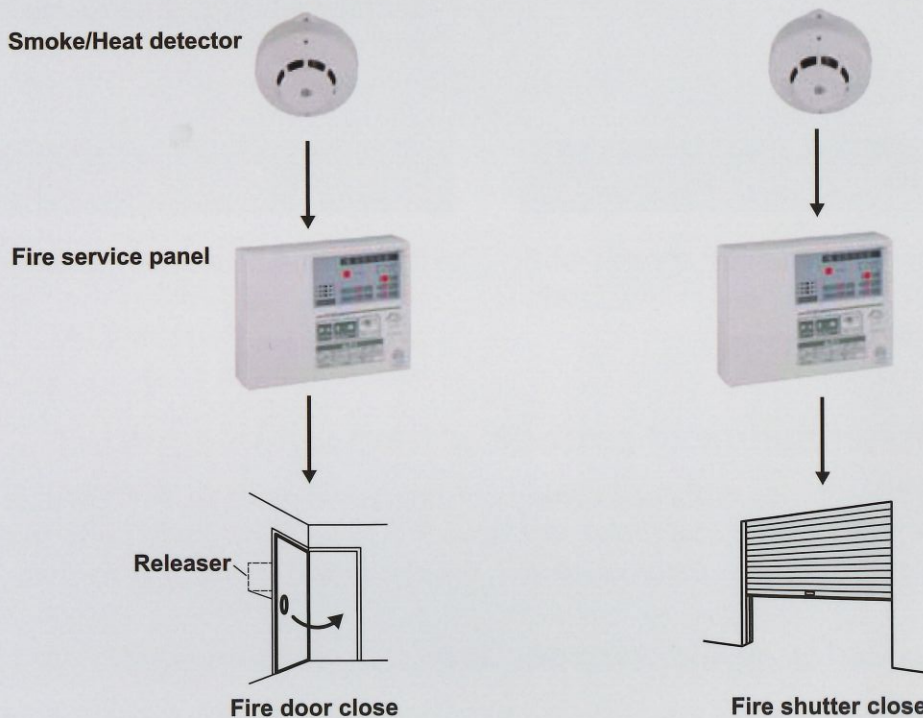
○ Fire shutter

- Make a compartment in the building in order to prevent fire spreading for protecting property.
- Maintain exit route in case of fire.

○ Fire door

- In addition to same function of fire shutter, maintain exit access for people escape.

■ Interfacing of fire shutters and fire doors



*Battery should be replaced periodically in accordance with specification of equipment.

■ Privilege of periodical inspection contract

- Parts price discount.
- Including general adjustment (lubrication, open/stop position, curtain position correction without parts replacement and demolition of building finishes).
- Reporting and recommendation of repairing and replacement.
- Faster response when repairing work from inspection record which shows detail of products.

● Deterioration over time countermeasures

- Possible to occur below incidents if appropriated maintenance are not provided.

Periodical inspection and periodical parts replacement with replacement deformed/damaged parts as needed are highly recommended.

Case [1]

Breaking of roller chain deterioration



When roller chain is deteriorated by rusting or similar phenomenon which causes shutter curtain rapid descending accident.

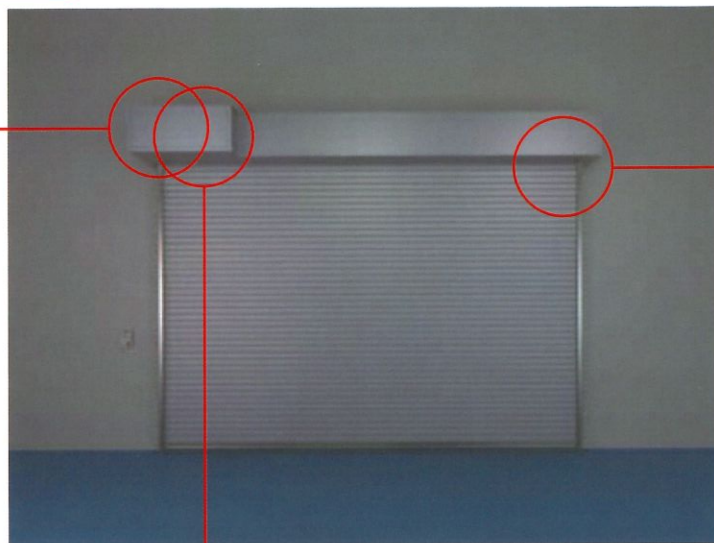
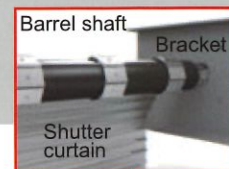


Case [2]

Shutter curtain shift cuts bracket



Shutter curtain shift (①) scratches bracket (②) continuous operation causes cut the bracket (③). Then barrel shaft comes off from the bracket occurs shutter curtain accident.



Operator



Case [3]

Operator oil leakage

Oil leakage from operator causes worn gear mechanism out or damage which occurs shutter curtain rapid descending accident.

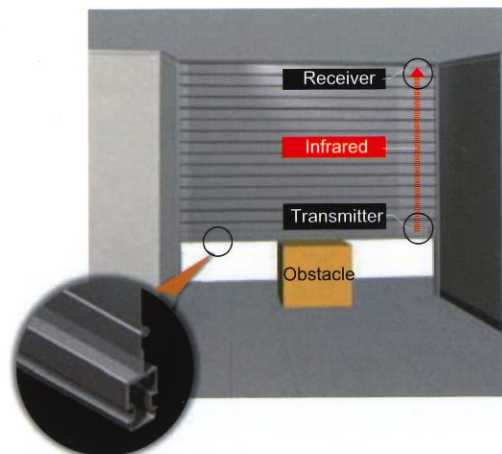


■ Recommendation of obstacle detection switch

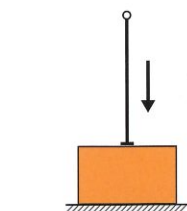
● Bottom bar switch

Shutter stops closing when bottom bar hits an obstacle during descending

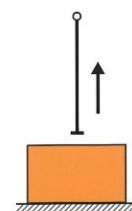
*Replace the battery on transmitter every 2 years or when occur battery run out indication in order to maintain the function.



Bottom bar switch



Shutter curtain stop closing for a second when bottom bar touches obstacle.



Up and stop

Shutter curtain goes upward for 1.5 seconds and stop.



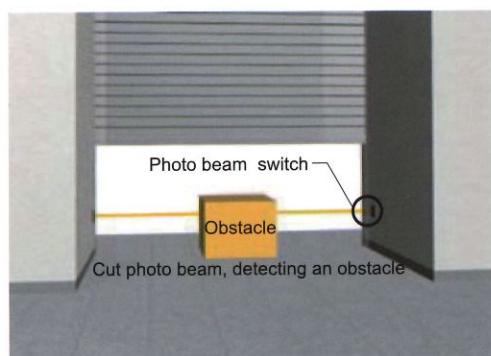
Stop

Remove the obstacle, then operate the shutter by switch button.

● Photo beam switch

Shutter stops descending when photo beam is cut by obstacle.

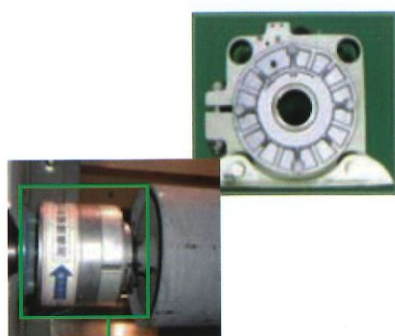
Notice : Clear off any people or obstacle prior to operate rolling shutter all the time.



■ Recommendation of shaft lock device

● Rolling shutter

Prevent from accident causes by shutter curtain rapid descending due to roller chain break or come off.

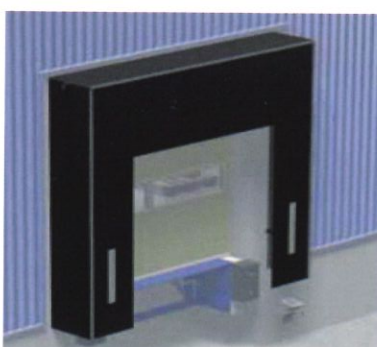
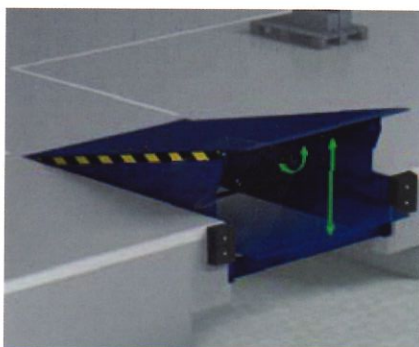


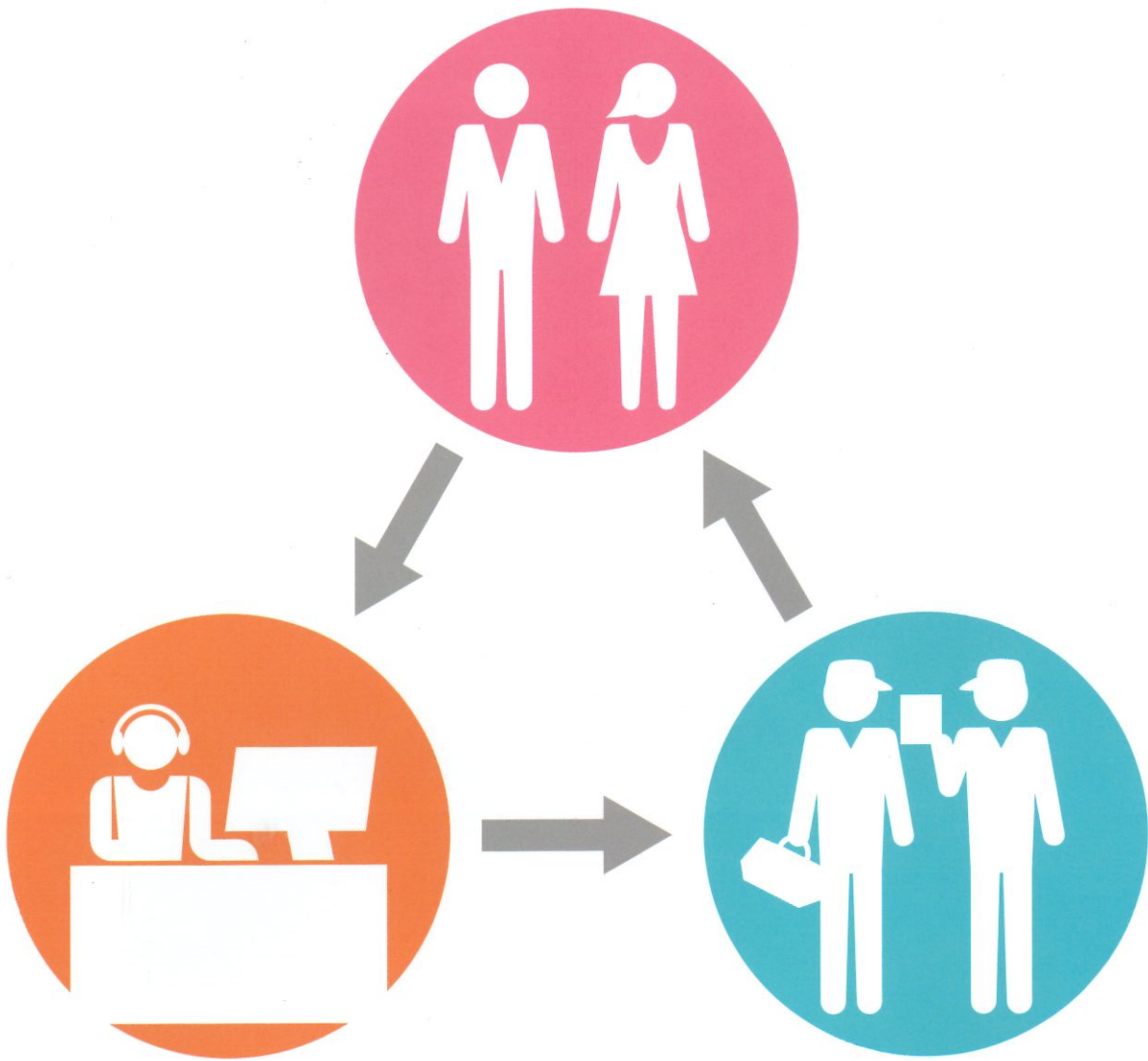
Shaft lock device



Stop shutter curtain from rapid descending within 10 cm when bottom of curtain placed 1 m above floor.

Products Lineup





■ All specifications are subject to change without notice.



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●Contact