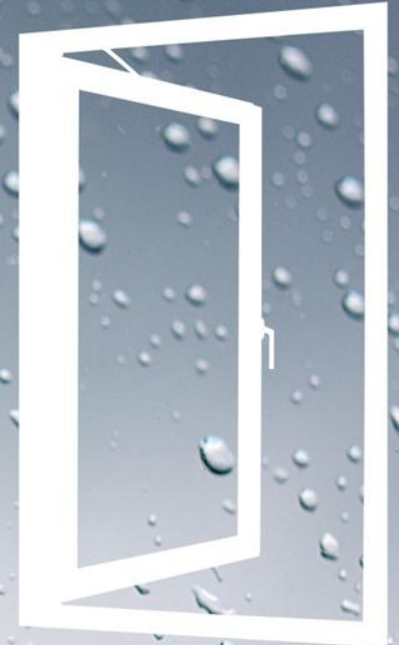




STAFORCE[®]

Advanced Hardware Design



STAFORCE Hardware Solution
www.staforce.dk www.staforce.com

STAFORCE

Advanced Hardware Design

Our products define the state of art quality in the worldwide hardware supply chain:

- 1, 750 hours of SST in accordance to ISO9227.
- 2, 25000 cycles under 80KG loading for windows and 50000cycles under 200 KG loading for Doors.
- 3, 10 years warranty and Designed life span up to 35 years.

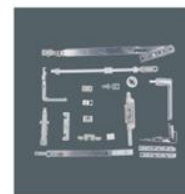
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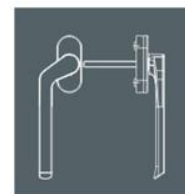
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COMPANY PROFILE

With the invitation of setting up a hardware production for DOVISTAA/S, STAFORCE was established in 2010. DOVISTAA/S, whose sister Company VELUX A/S, is well known as the marketing leader of the window and door industry in Scandinavia. As a hardware supplier and outsource R&D Dept, STAFORCE starts out in the Hardware Market based in China.

STAFORCE is a company that specializes in Innovating and producing a complete range of fittings for windows and doors. The Fittings for aluminum or wooden window and Doors are made according to European Standard C profile for Aluminum windows or U profile for Wooden windows

Furthermore, STAFORCE is a partner that offers as complete range of service as possible: from simple production in accordance with order to innovation in product development. Through years of efforts to meet and exceed customer expectation by improving the service criteria namely by delivering customers the right quality products and service at right time, STAFORCE successfully attracted more and more customers both from European and main land China.



The STAFORCE concept stands for an organization with highly engaged employees, who turn technologies and know-hows into high-end products. Inspired by the air of open and fair working atmosphere inside the organization, enjoyed by the comfortable working environment, Our Employees are motivated to work in a very dynamic and Flexible way to help our customers to achieve their goal on quality, cost and delivery.

Within a traditional business, STAFORCE tries to combine our own technical competence together with client orientated value innovation to enable us to create value through the means of product innovations and production efficiency improving. In order to achieve this target, we always listen carefully to the customers and we continuously educate our employees that to learn customer's needs is the foundation of our operation.

There are some elements that all STAFORCE people treasures most, such as: top-level products through product innovation, high production efficiency, guaranteed quality and transparent communication. Armed with these basic values as an asset, STAFORCE has achieved a remarkable operational excellence which benefits customers both in terms of quality and cost, and in return customers have rewarded STAFORCE a profitable growth.

STAFORCE takes care of its share-holders, its employees and business partners by sharing the benefit of its growth.

WHY STAFORCE ?

Driving by Technical innovation , Backing up by Service.

- ★ Innovation both in Product and Process
- ★ Quality & Reliability
- ★ A diversified and technically strong Team
- ★ Security integrated into each detail of products
- ★ Complete Service is all from Quality , Cost to delivery



★ Innovation both in Product and Process

STAFORCE supports customers from development stage to finished products. It requires not only product innovation itself but also process innovation to achieve a reliable production. By doing that, STAFORCE has achieved a unique identity in the Market place both in OEM, ODM businesses and also in its own invented products.

★ Quality & Reliability

To evaluate the quality, we test all of our finished products by life cycle test and SST corrosion resistance Test. We set the quality criteria to the top level in world-wide Hardware supply.

We control the process according to ISO 9000. Evaluate the risk and plan action before production by using the tool of PPAP.

★ A diversified and technically strong Team

With many years endeavor in exporting the OEM and ODM products to Europe, STAFORCE has cultivated many engineers in the hardware industry of window and door.

The diversified team consists of members of those who have master's degree, of those who have Bachelor's degree, of those who has rich experience in mechanics, and those who stands out in mould making. The ideal combination of the team makes it possible to materialize talent idea into real good quality products.

★ Security integrated into each detail of products

Thanks to our experienced technical team, STAFORCE always manage to recipe the security design into the products. For instance, our side hung projecting hinge integrated the mechanism of preventing the sash from falling off from the frame through a control bar. As well, the mechanism of burglar proofing is integrated into the hinge through the total construction of the hinge etc.

★ Complete Service is all from Quality , Cost to delivery

STAFORCE also focuses on cost and punctual delivery along with quality. In order to meet and exceed the customers' satisfaction of today and of the long term, STAFORCE has implemented the Concept of Future Excellence to the whole team of the Company. It requires a standard procedure of daily operation according to ISO9000 and Lean Value Chain control. The whole team concurs that the Future Excellence Concept is a key to win in the market place where competition is both intensive and extensive.

» TECHNOLOGICAL INNOVATION

TECHNOLOGICAL INNOVATION IS DRIVING FORCE TO ENTERPRISE DEVELOPMENT

Innovation is leading the social progress and Human development, its importance is obviously clear for enterprise to gain a good position in the market.

Side Hung projecting Hinge

British Friction Stay hinge has many problems, for instance, air tightness, burglar proof and load capacity etc. architectures are looking for better products for a long time. STAFORCE Side Hung Projecting hinge was invented to solve those problems while with a much nicer visual appearance.

1. Load capacity up to 80KG testing for 25000 cycles of open and close
2. corrosion resistance Lives up to 750 hours acc. To ISO 9227.
3. Guide rail engages into profile. And no self-tapping screw is needed.
4. Adjustable both in horizontal and vertical direction without un-tightening any screw.
5. self-locking mechanism make the airtightness of window to a highest level acc. To European standard.
6. self-locking mechanism make it impossible for burglar to break the hinge by force entry.



Concealed Hinge

STAFORCE concealed hinge is unique in the market. the concealed hinges in the market are widely known as 2 plates stack on each other thus it takes too much space. While STAFORCE patented concealed hinge lays 2 plates flatly on the base plate and brings the same loading performance ONLY with a rebate of 7mm, the simplified construction not only brings aesthetic value but also solves problems of the existing hinges in the market.

1. Load capacity up to 80KG testing for 25000 cycles of open and close
2. The stainless steel construction has excellent performance in corrosion resistance.
3. Easy to mount. Simply, it only needs Mounting the base plate into the frame and main parts into the sash respectively, then click the sash into Frame.
4. Adjustable both in horizontal and vertical direction. both direction +/- 3mm.
5. no self-tapping screw is needed.

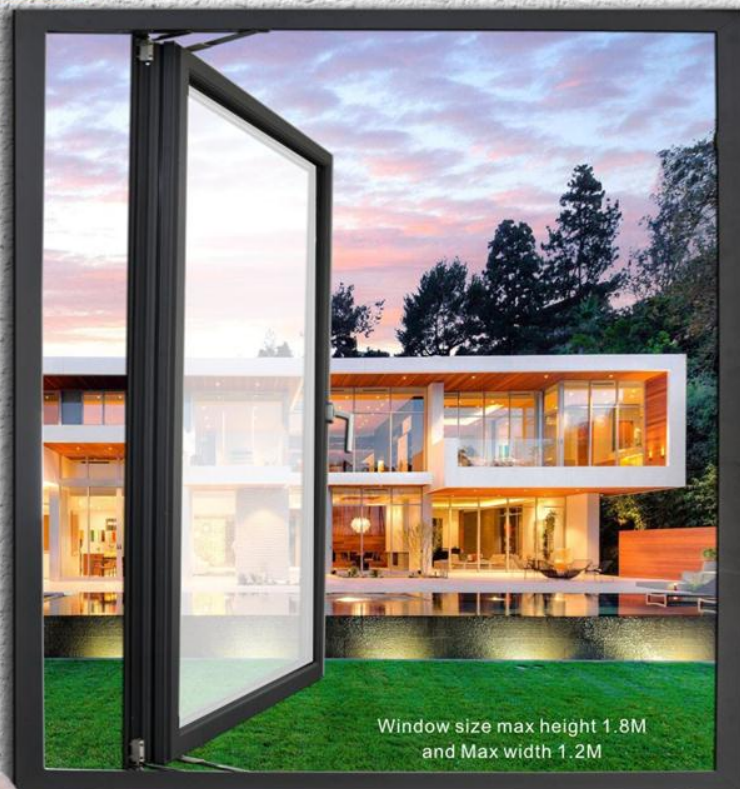


Locking Box

STAFORCE Gear Box is unique in the market. The popular gear box in the market is made of Zinc Alloy. While STAFORCE gear box is made of stainless steel and Casted steel. Together with its self-locking mechanism built inside, the burglar is impossible to break it from outside of the room

1. STAFORCE Gear box with back set from 25mm to 40 mm.
2. the steel construction is much strong and ductile compared with Zinc Alloy, thus it is extremely durable.
3. corrosion resistance lives up to 750 hours acc. To ISO 9227.
4. 50 N.m of torque to twist the Hub, the components inside the gear box survived.
5. the test for 300,000 cycles is 10 times more durable than European standard requires.





Window size max height 1.8M
and Max width 1.2M

Side hung projecting system

» Concealed hinge



Side Hung Projecting hinge- concealed hinge

» Product Description :

- ▶ STAFORCE Side Hung Projecting system is unique in the market. The robust and massive Design expresses The aesthetic. It will also leave you a relax breath in safety concerns as well.
- ▶ It is comfortable to clean from in-house as the opening distance given by STAFORCE side guided hinges is 160mm.
- ▶ The Self-locking functions are built in the hinges and locking boxes. It is impossible for burglar to make a force entry in accordance to REC 02.
- ▶ With its extraordinary performance in load capacity, STAFORCE side hung projecting system will allow you to build a big window with 3 layers of glasses.

» Technical information:

- ▶ 1, Load capacity 80 KG in accordance with En1911.
- ▶ 2, Window size max height 1.8M and Max width 1.2M.
- ▶ 3, 35 years of designed life and 10 years warranty.
- ▶ 4, Adjustable in horizontal and vertical direction +/- 3mm without un-tightening screw.



0004 外开侧滑系统 明合页 side guide system (visible)		零件号
把手 Handle	高把手 Standard handle	30037
	弯柄把手 (S handle)	30045、左右
	水滴把(water drip handle)	30062
	箭型把手 (Arrow handle)	30044
	闹钟把手 (Door Handle)	30061
传动盒 Gear Box	25	30036-25
	30	30036-30
	38.5	30036-38.5
锁点锁座 Mushroom and reciever	消音锁点锁座 Silence operation	30058/30059
	标准 Standard	300338/400036
铰链 Hinge		0025/0026
0006 外开侧滑系统 隐藏合页 Side Guide system (concealed)		零件号
把手 Handle	高把手 Standard handle	30037
	弯柄把手 (S handle)	30045、左右
	水滴把(water drip handle)	30062
	箭型把手 (Arrow handle)	30044
	闹钟把手 (Door Handle)	30061
传动盒 Gear Box	25	30036-25
	30	30036-30
	38.5	30036-38.5
锁点锁座 Mushroom and reciever	消音锁点锁座 Silence operation	30058/30059
	标准 Standard	
铰链 Hinge		30061/30062

Side Hung Projecting hinge » Visible hinge



» Product Description :

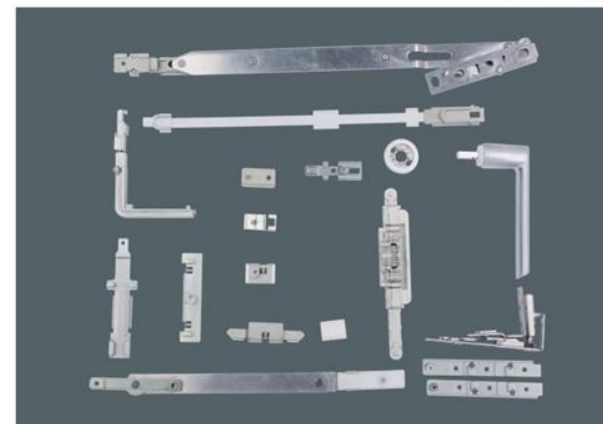
STAFORCE Side Hung Projecting System –Visible Hinge shares the same advantage of the Side Hung Projecting concealed hinge system. it is more simple and strong.

» Technical information:

- ▶ 1, Load capacity 80 KG in accordance with EN 1911.
- ▶ 2, Window size max height 1.8M and Max width 1.2M.
- ▶ 3, 35 years of designed life and 10 years warranty.
- ▶ 4, Adjustable in horizontal and vertical direction without un-tightening screw.

Tilt & Turn system

» Concealed hinge



Tilt & Turn system- Concealed Hinge

» Product Description:

- ▶ STAFORCE Tilt and Turn system –Concealed Hinge was invented in 2013. The concealed hinge was originally invented for the outwards opening window to Scandinavia customers whose windows are with a very small rebates up to 5-7mm. the thin hinge fits into such a small rebates actually is a very big advantage to tilt and turn system, As the hinges is able to be made of both the top hinge and bottom hinge with symmetric construction.
- ▶ With the load capacity 80KG, the Tilt and Turn system aesthetically looks beautiful and tidy. It brings a unique identity to customers.
- ▶ The construction is also very friendly to the workers. The adjustment to both height and horizontal direction will make work life more easier and comfortable. STAFORCE Tilt and Turn system is leading its way to not only Elegant in Design but also Robust .

» Product information:

- ▶ 1, Load capacity 80 KG in accordance with En1911.
- ▶ 2, Window size max height 1.8M and Max width 1.2M.
- ▶ 3, 35 years of designed life and 10 years warranty.
- ▶ 4, Adjustment in horizontal and vertical direction.
- ▶ 5, Gear Box can be adapted for both Handle without console and traditional Handle.
- ▶ 6, fit both for Euro C groove 10mm and 14mm.



Tilt & Turn system » Visible hinge



» Product Description:

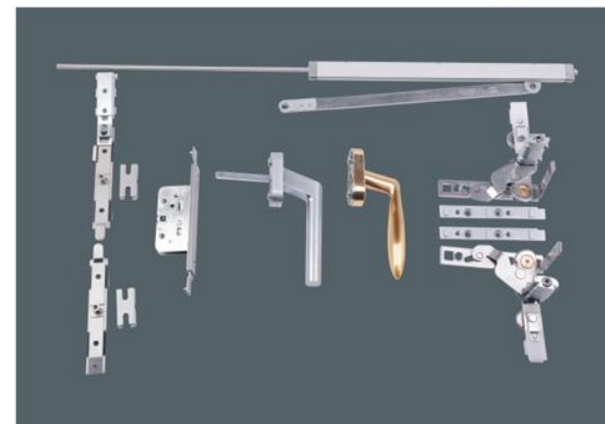
- ▶ STAFORCE Tilt and Turn system –Visible Hinge shares the same construction as to standard market supply. While it was built in technology and Know-how of STAFORCE's . Other than most of traditional hinges or handles, STAFORCE applies Satin Chrome to the surface of hinge and handle It gives a metal surface appearance instead of anodizing or powder coating color. Hardware is armed with powerful construction and cool looking as the hardware should be alike.
- ▶ With the load capacity 130 KG, the Tilt and Turn system aesthetically looks beautiful and tidy. It brings a unique identity to customers.

» Product Information:

- ▶ 1, Load capacity 130KG according to European standard test.
- ▶ 2, Window size max height 2.2M and Max width 1.6M.
- ▶ 3, 35 years of designed life and 10 years warranty.
- ▶ 4, Adjustment in horizontal and vertical direction.
- ▶ 5, Gear Box can be adapted for both Hand.



Side Hung System » Concealed hinge



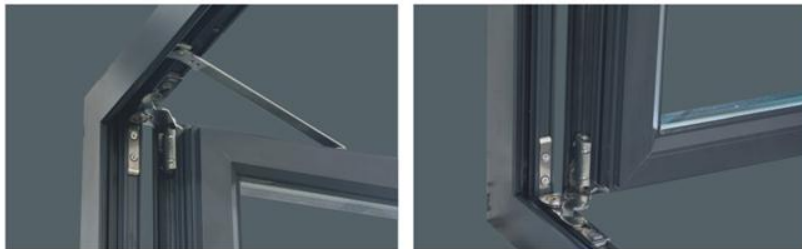
Side Hung system- Concealed Hinge

» Product Description:

- ▶ STAFORCE Side Hung System –Concealed Hinge equipped with a brake which is operated by handle.
- ▶ The window system is illustrating itself a beauty and unique.
- ▶ The brake system usually is very important in area where typhoon attacks. The sash will be damaged by the twist and impact caused by typhoon. Window sashes will then drop down to ground. STAFORCE's solution of brake and hinge system relax your breath in typhoon season when the hosts forget to close the window.

» Product Information:

- ▶ 1, Load capacity 80KG according to En1911
- ▶ 2, Window size max height 1.8M and Max width 1.2M.
- ▶ 3, 35 years of designed life and 10 years warranty.
- ▶ 4, Adjustment in horizontal and vertical direction without un-tightening screws.



0004 外开定位系统 明合页 side hung system(visible)		零件号
把手 Handle	高把手 Standard handle	30037
	弯柄把手 (S handle)	30045、左右
	水滴把(water drip handle)	30062
	箭型把手 (Arrow handle)	30044
	闹钟把手 (Door Handle)	30061
传动盒 Gear Box	25	30036-25
	30	30036-30
	38.5	30036-38.5
	静音锁点锁座 Silence operation	30058/30059
锁点锁座 Mushroom and reciever	标准 Standard	300338/400036
合页 Hinge		30032/30033
转角器 Corner device		30060 R/L
摩擦风撑 Frictional wind brace		30034 B (L/R)
风撑支架Bracing support		30034A

006 外开定位系统 隐藏合页 side hung system(concealed)		零件号
把手 Handle	高把手 Standard handle	30037
	弯柄把手 (S handle)	30045、左右
	水滴把(water drip handle)	30062
	箭型把手 (Arrow handle)	30044
	闹钟把手 (Door Handle)	30061
传动盒 Gear Box	25	30036-25
	30	30036-30
	38.5	30036-38.5
	静音锁点锁座 Silence operation	30058/30059
锁点锁座 Mushroom and reciever	标准 Standard	300338/400036
合页 Hinge		30047/30048
转角器 Corner device		30060 R/L
摩擦风撑 Frictional wind brace		30034 B (L/R)
风撑支架Bracing support		30034A

Side Hung system » Visible hinge



» Product Description:

STAFORCE Side Hung System –Visible Hinge equipped with a brake operated by handle.

» Product Information:

- ▶ 1, Load capacity 130KG according to European standard test.
- ▶ 2, Window size max height 2.2M and Max width 1.2M.
- ▶ 3, 35 years of designed life and 10 years warranty .
- ▶ 4, Adjustment in horizontal and vertical direction .
- ▶ 5, braking force is strong enough to resist the 10 Grade typhoon. Buffering function will safeguard the sash to stop at closing position or at 90 degree to avoid sash being smashed.

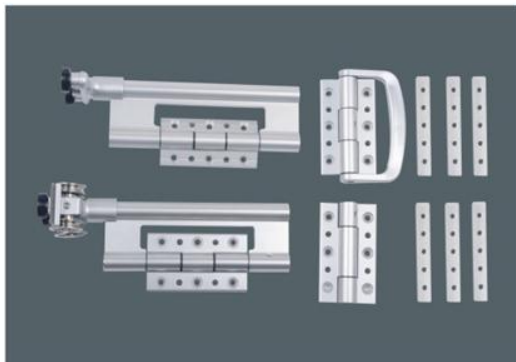
Entrance Door System



» Product Information:

- 1, Load capacity 130 KG tested by 100,000 times life cycle test.
- 2, Door size max height 3 M and Max width 1.6 M.
- 3, 35 years of designed life and 10 years warranty.

Folding Door System



» Product Information:

- 1, Aluminum fittings.
- 2, Door size max height 3M and Max width 1M.
- 3, loading capacity 100 KG.
- 4, 35 years of designed life and 10 years warranty.

Lift and Sliding Door System



» Product Information:

- 1, Load capacity 200KG tested by 50000 M life cycle test.
- 2, Door size max height 4 M and Max width 4M.
- 3, 35 years of designed life and 10 years warranty.
- 4, Fitting both wood profile and Aluminum Profile.

Lift and Sliding Door System (Hook folded in transmission Bar profile)



» Product Information:

- 1, Load capacity 200KG tested by 50000 M life cycle test.
- 2, Door size max height 4 M and Max width 4M.
- 3, 35 years of designed life and 10 years warranty.
- 4, Fitting both wood profile and Aluminum Profile.



零配件说明表 Spare parts description table

编号 Item No	名称 Description	图片 Picture	图纸 Dimension	性能特征 Property
30041	提升推拉门把手 Sliding Door Handle			<p>1.材料: 锌合金 2.金色和银色可选 3.盐雾测试 NSST 750小时 符合 ISO9227 标准 CCT 240 小时 4.10 年质保</p> <p>1.material: Zamrk 2.Golden and silver color are available 3.NSST 750hours in accordance with ISO9227 CCT 240 Hours 4.10 years of Warranty</p>
30032	实心铝合金弯管把手 Entrance Door Handle			<p>1.材料: 铝合金 2.金色和银色可选 3.盐雾测试 NSST 750小时 符合 ISO9227 标准 CCT 240 小时 4.10 年质保</p> <p>1.material: Zamrk 2.Golden and silver color are available 3.NSST 750hours in accordance with ISO9227 CCT 240 Hours 4.10 years of Warranty</p>
30056	内开窗无底座把手 Concealed Console Handle			<p>1.材料: 锌合金 2.金色和银色可选 3.盐雾测试 NSST 750小时 符合 ISO9227 标准 CCT 240 小时 4.10 年质保</p> <p>1.material: Aluminum 2.Golden and silver color are available 3.NSST 750hours in accordance with ISO9227 CCT 240 Hours 4.10 years of Warranty</p>
30126	25 不锈钢传动盒 Stainless steel locking Box -back set 25mm			<p>1.双向锁闭 2.盐雾测试 500 hours 符合 ISO 9227 标准 3.扭矩 50NM 4.自锁 5.不锈钢面板 6.安全设计 7.10年质保</p> <p>1.Dual locking direction 2.NSST 500hours in accordance with ISO 9227 3.Twisting Torque 50NM 4.Self Locking 5.Stainless Steel face plate. 6.secured by Design 7.10 years of Warranty</p>
30127	30 不锈钢传动盒 Stainless steel locking Box -back set 30mm			<p>1.双向锁闭 2.盐雾测试 500 hours 符合 ISO 9227 标准 3.扭矩 50NM 4.自锁 5.不锈钢面板 6.安全设计 7.10年质保</p> <p>1.Dual locking direction 2.NSST 500hours in accordance with ISO 9227 3.Twisting Torque 50NM 4.Self Locking 5.Stainless Steel face plate. 6.secured by Design 7.10 years of Warranty</p>


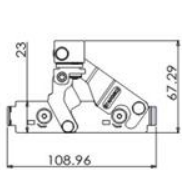

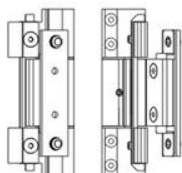

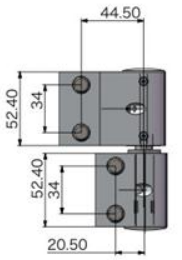
零配件说明表 Spare parts description table

编号 Item No	名称 Description	图片 Picture	图纸 Dimension	性能特征 Property
30128	35 不锈钢传动盒 Stainless steel locking Box -back set 35mm			<p>1.双向锁闭 2.盐雾测试 500 hours 符合 ISO 9227 标准 3.扭矩 50NM 4.自锁 5.不锈钢面板 6.安全设计 7.10年质保</p> <p>1.Dual locking direction 2.NSST 500hours in accordance with ISO 9227 3.Twisting Torque 50NM 4.Self Locking 5.Stainless Steel face plate. 6.secured by Design 7.10 years of Warranty</p>
30129	38.5 不锈钢传动盒 Stainless steel locking Box -back set 38.5 mm			<p>1.双向锁闭 2.盐雾测试 500 hours 符合 ISO 9227 标准 3.扭矩 50NM 4.自锁 5.不锈钢面板 6.安全设计 7.10年质保</p> <p>1.Dual locking direction 2.NSST 500hours in accordance with ISO 9227 3.Twisting Torque 50NM 4.Self Locking 5.Stainless Steel face plate. 6.secured by Design 7.10 years of Warranty</p>
30057	内开窗传动盒 Gear box of Inward opening			<p>1.0-180度单向锁闭 2.盐雾测试 500 hours 符合 ISO 9227 标准 3.扭矩 50NM 4.10 年质保</p> <p>1. Single locking direction 2.NSST 500 hours in accordance with ISO 9227 3.Twisting Torque 50NM 4.10 years of Warranty</p>

零配件说明表 Spare parts description table

编号 Item No	名称 Description	图片 Picture	图纸 Dimension	性能特征 Property
30047/30048	重型隐藏合页 Concealed Hinge - Heavy Duty			1.材料: 不锈钢 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重80公斤 测试25000次符合 EN1991标准 5.10年质保 1.Material: Stainless Steel 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 80KG in accordance EN1991 5.10 years of Warranty
				
30049/30050	纱扇隐藏合页 Concealed Hinge - for insect screw sash			1.材料: 不锈钢 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重30公斤 测试25000次符合 EN1991标准 5.10年质保 1.Material: Stainless Steel 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 30KG in accordance EN1991 5.10 years of Warranty
				
30104/30105	新款重型纱扇隐藏合页 Concealed Hing 2			1.材料: 不锈钢 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重30公斤 测试25000次符合 EN1991标准 5.10年质保 1.Material: Stainless Steel 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 30KG in accordance EN1991 5.10 years of Warranty
				


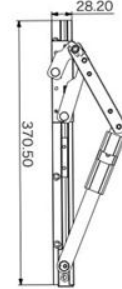
零配件说明表 Spare parts description table

编号 Item No	名称 Description	图片 Picture	图纸 Dimension	性能特征 Property
300135/300136	轻型新款纱扇隐藏合页 Concealed Hinge 2 for Insect Screen			1.材料: 不锈钢 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重30公斤 测试25000次符合 EN1991标准 5.10年质保 1.Material: Stainless Steel 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 30KG in accordance EN1991 5.10 years of Warranty
				
30032/30033	夹持式2-D 明合页 2-D adjustable Hinge			1.材料: 铝合金 2.高度调节 +/-2毫米 3.水平调节 +/-1.5毫米 4.承重120公斤 测试25000次符合 EN1991标准 5.10年质保 1.Material: Aluminum 2.Height Adjustment +/-2mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 120KG in accordance EN1991 5.10 years of Warranty
				
30014	3-D 调节合页 3-D Adjustable Hinge			1.材料: 铝合金 2.高度调节 +/-2毫米 3.水平调节 +/-1.5毫米 4.承重120公斤 测试25000次符合 EN1991标准 5.10年质保 1.Material: Aluminum 2.Height Adjustment +/-2mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 120KG in accordance EN1991 5.10 years of Warranty

零配件说明表Spare parts description table

编号 Item No	名称 Description	图片 Picture	图纸 Dimension	性能特征 Property
30051/30052	明合页外开侧滑 Side Guide Hinge-Visible			1.材料: 不锈钢& 铝合金 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重80公斤 测试25000次符合EN1991标准 5.10年质保 1.Material: Stainless Steel & Aluminum 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 80KG in accordance EN1991. 5.10 years of Warranty
30106/30107	明合页外开侧滑23槽 Side Guide Hinge-Visible for Wide Groove 23mm			1.材料: 不锈钢& 铝合金 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重80公斤 测试25000次符合EN1991标准 5.10年质保 1.Material: Stainless Steel & Aluminum 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 80KG in accordance EN1991. 5.10 years of Warranty
30071/30072	隐藏合页外开侧滑 Side Guide Hinge-Concealed			1.材料: 不锈钢& 铝合金 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重80公斤 测试25000次符合EN1991标准 5.10年质保 1.Material: Stainless Steel & Aluminum 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 80KG in accordance EN1991. 5.10 years of Warranty

零配件说明表Spare parts description table

编号 Item No	名称 Description	图片 Picture	图纸 Dimension	性能特征 Property
30102/30103	隐藏合页外开侧滑23槽 Side Guide Hinge-Concealed for wide groove 23mm			1.材料: 不锈钢& 铝合金 2.高度调节 +/-3毫米 3.水平调节 +/-1.5毫米 4.承重80公斤 测试25000次符合EN1991标准 5.10年质保 1.Material: Stainless Steel & Aluminum 2.Height Adjustment +/-3mm 3.Horizontal Adjustment +/-1.5mm 4.Loading capacity 80KG in accordance EN1991. 5.10 years of Warranty