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- * Printed in Jan.,2018.





Point-Supported Glass Curtain Wall Typical Product Catalogue



GUANGDONG KIN LONG HARDWARE PRODUCTS CO.,LTD.

No.3 Jianlang Rd, Daping Industrial Zone, Tangxia Town, Dongguan City, China

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Surface Finish







Sandblasting



Electroplating

Material & Standard

I. Material

- 1. The casting stainless steel products:
 - Common Material: CF8,CF8M(ASTM A743/A743M)
 - Optional Material: CD3MN(ASTM A890/A890M)
 - •Non-standard Material: Other requested casting stainless steel material which are similar to CF8,CF8M
- 2. The stainless steel products(sheet/tube/bar etc.):
 - Common Material: 304,316(ASTM A276/A276M, ASTM A666, ASTM A269/A269M)
 - Optional Material: 2205(ASTM A276/A276M, ASTM A666, ASTM A269/A269M)
 - Non-standard Material: Other requested material which are similar to 304,316
- 3. Material Description:

Point-fixed glass curtain wall fittings, exposed as a bare outside products, are mainly made of the stainless steel with bright appearance and goc corrosion resistance. KIN LONG is a supplier of high-end glass curtain wall fittings. Most of the products are made of high-end stainless steel. The typical material are austenitic stainless steel 316,CF8M and duplex stainless steel 2205,CD3MN.

316 and 2205 are the stainless steel grades based on American standard which be applicable for profiles (sheet,tube,bar). Especially the material 316 is high-end and commonly used all over the world. It has excellent mechanical properties and corrosion resistance capacity to meet the demands of most projects. It is mostly common used material for point-fixed products currently, but it is not recommended to use in the worse environment area such as swimming pools, seaside. In these cases, high duplex stainless steel 2205 can be selected.

Material stainless steel 2205 has the advantages compared with stainless steel 316 as following:

- 1) Yield strength is 2 times higher than common austenitic stainless steel. Having enough ductility and toughness to forming to. With the same bearing force, the accessories shape will smaller and more exquisite when take the duplex stainless steel.
- 2) Compared with the austenitic stainless steel, it has bigger yield strength, higher material utilization ratio, making for saving the material.
- 3) Compared with the austenitic stainless steel, which has the similar alloy content, its surface homogeneous corrosion, pitting corrosion and intergranular corrosion are super excellence and can apply to wicked surroundings.
- 4) Having the superior anti-stress corrosion cracking (SCC) ability, generally, it won't lead to stress corrosion cracking (the using temperature is lower than its critical temperature) when being in the chloride ion environment (seaside, natatorium).
- 5) Material 2205 coefficient of linear expansion is close to carbon steel and reinforced concrete. When taking as prestressing force rod, the thermal stress will not effect too much beyond action of thermal difference.
- 6) No needs preheating before welding. No need heating treatment after welding. It can weld with carbon steel.

Most of the point-fixed glass fittings select the precision casting process because of the diversity appearance. Due to the different manufacturing process between casting milling and rolling, KIN LONG selects the CF8M and CD3MN to produce spider with casting process, while the material 316 and 2205 can not be so prefect to present corrosion performance to use for casting process.

Corrosion resistance of stainless steel is mainly formed by surface passivation film and promoting the electrode potential from the iron-chromium alloy, therefore the production process of the stainless steel should include the heat treatment to make the alloy composition uniform. Any kind of scratch and damage on the surface should be avoided. To keep the corrosion resistance of stainless steel, please note the following:

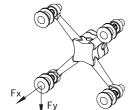
- Heat treatment should be carried out after casting according to requirements
- Stainless steel grades should be selected reasonably according to the environment
- Selecting the smooth surface treatment
- Taking product protection during the installation
- The design and application of the product should be avoided foulingand water accumulation.
- Regularly cleaning to avoid the dirty

II. Product Executive Standard

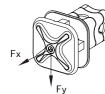
Products Series	Executive Standard
Spider,Routel	Point Supporting Device for Architectural Glass JG/T 138-2010
Clamp	Point Supporting Device for Architectural Glass JG/T 138-2010
Strut Bar	Stainless Steel Strut Bar DB44/T 1053-2012
Stainless Steel Tension Cable	Stainless Steel Tension Cable YB/T 4294-2012
Stainless Steel Strand	Stainless Steel Wire Strand GB/T 25821-2010
Stainless Steel Swaged Anchor	Swaged Fitting of Steel Strand for Curtain JG/T 201-2007
Stainless Steel Tension Rod	Steel Tension Rod Member for Building JG/T 389-2012
Suspension Clamp	The Suspending Clamp for Suspended Glass Curtain Wall JG 139-2017

Common Calculation Formula

I .Calculation of radial and axial load for model selection



n_x=4 n_y=2



n_x=1 n_y=1

- 1. The Weight of The Glass Panel
- G_{κ} =T \times B \times H \times ρ
- G_{κ} —The weight of the glass panel(N);
- T—The valid thickness of the glass(mm);
- B— The width of the glass(m);
- H—The height of the glass(m);
- ρ— The gravity density of the glass(Default: 25.6);
- 2.Radial Force
- $F_y=1.2G_{\kappa}/n_y$
- F_v —The radial force for a single point(N);
- G_{κ} —The weight of the glass panel(N);
- n,—y Number of force bearing point in y direction,
- see attached drawing for details;

- 3.Axial Force
- $F_{y}=q\times B\times H/n_{y}$
- F_{\star} —The axial force for a single point(N);
- q—Even distributed design value of the load on the glass panel, mainly supposed to be the wind load (N/m^2) ;
- B—The width of the glass(m);
- H—The height of the glass(m);
- n,—x Number of force bearing point in x direction, see attached drawing for details;
- II. Calculation for tightening torque of squeezing cable bolt (Deduced by *Mechanical Design Handbook*)
- T=1.3fd/n
- In formula T—Tightening torque of single bolt(N mm)
 - f—The friction force that accessory load at the project node(N)
 - d—Nominal diameter of squeezing cable bolt(mm)
 - n—Number of squeezing cable bolt

Integrated Flat Cap Routel



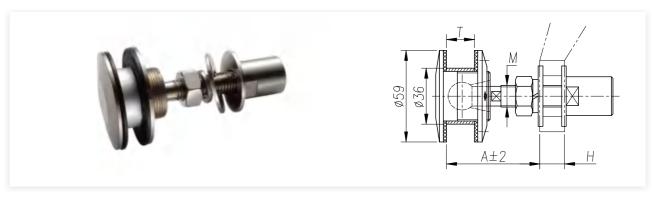
Note:This routel is integrated, its base seat and the ball head screw are integrated. The ball head screw is not removable.

Size		M		н	The Available		Main materia	al: 316, 304	
Model			'		Rotation Angle		Fx≤	Fy≤	F _r
ATF11X	45	M12	8-18	_	±5°	Value of Load Capacity (N)	3000	1500	
ATF12X	53	M12	18-26	_	±5°		3000	1500	VF_y



Note:This routel is integrated, its base seat and the ball head screw are integrated. The ball head screw is not removable.

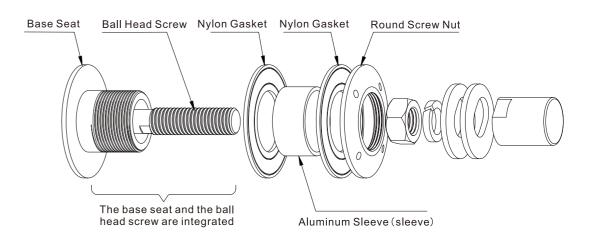
Size	^	M	_	Н	The Available		Main materi	al: 316, 304	
Model		IVI	,			The Recommended Value of Load	Fx≤	Fy≤	F _r
BTF11	60	M14	8-18	_	±5°		4500	2000	
BTF12	65	M14	18-26		±5°		4500	2000	Y F _y



Note:This routel is integrated, its base seat and the ball head screw are integrated. The ball head screw is not removable.

Size						Main materia	al: 316, 304	
Model		IVI			Rotation Angle	Fx≤	Fy≤	Fr
TF11X	60	M14	8-18	_	±5°	4500	2000	
TF12X	65	M14	18-26		±5°	4500	2000	VF _y

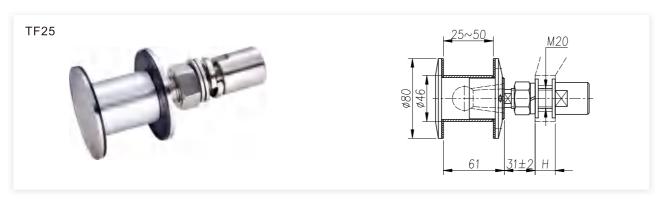
Product Structure:



Flat Cap Routel

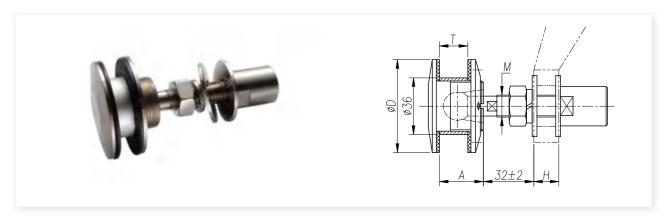


Size		B./I				Main materi	al: 316, 304	- ~
Model	A	M				Fx≤	Fy≤	F. ODD
ATF13	69	M14	26-40	_	±5°	3500	2000	
ATF14	78	M16	40-46	_	±5°	4000	2500	L.A.

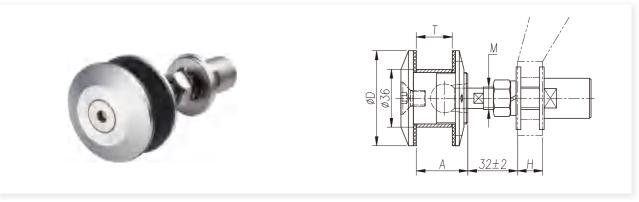




Madal	Main materi	al: 316, 304	The Available	
Model	Fx≤	Fy≤		
TF25	7000	3500	±5°	Tr.
TF26	7500	5000	±5°	/F _y



Size	^	D	М	Т	Н	The Available		Main materi	al: 316, 304	
Model		D						Fx≤	Fy≤	
TF11A	28	59	M14	8-18	_	±10°		4500	2000	
TF12A	36	59	M14	18-26	_	±10°		4500	2000	
TF13(TF13A)	50	59	M16	26-40	_	±5°(±10°)	The Recommended	6000	2500	
TF14(TF14A)	56	59	M18	30-46	_	±5°(±10°)		6500	2800	Fz
TF21(TF21A)	32	70	M16	8-22	_	±5°(±10°)		6000	2500	v F _v
TF22(TF22A)	40	70	M16	22-30	_	±5°(±10°)		6000	2500	
TF23(TF23A)	50	70	M16	30-40	_	±5°(±10°)		6000	2500	
TF24(TF24A)	61	70	M18	30-50	_	±5°(±10°)		6500	2800	
TF2E55	66	70	M18	25-55	_	±5°		6500	2800	



Note: For exterior installation routel, when bolt-socket countersunk head crew be installed, suggest filling in screw fastening glue.

sugg	jest fill	ing in s	screw 1	astenii	ng glue	Э.				
Size	А	D	M		Н			Main materi	al: 316, 304	
Model		D	IVI	'		Rotation Angle		Fx≤	Fy≤	
TF32	33	59	M14	15-23	—	±5°	The Recommended	4500	2000	
TF33	50	59	M16	23-40	_	±5°		6000	2500	Fr
TF34	56	59	M18	30-46	_	±5°	Capacity (N)	6500	2800	$\sqrt{F_y}$
TF35	50	70	M16	30-40	_	±5°		6000	2500	
TF36	61	70	M18	30-50	_	±5°		6500	2800	









Note: For exterior installation routel, when bolt-socket countersunk head crew be installed, suggest filling in screw fastening glue.

30.00		5 -		
	Model	Main materia	I: 316, 304	The Available
	Model	Fx≤	Fy≤	Rotation Angle
The Recommended Value of Load	TF31	4500	2000	±5°
Capacity (N)	TF41	2500	1200	±5°
	TF42	2500	1200	_
	TF43	4500	2000	_











Note: For exterior installation routel, when bolt-socket countersunk head crew be installed, suggest filling in screw fastening glue.

0 9		3			
	Madal	Main materia	I: 316, 304	The Available	
	Model	Fx≤	Fy≤	Rotation Angle	
The Recommended Value of Load	Tf44	4500	2000	_	
Capacity (N)	TF53	6000	2500	±5°	
	TF54	4500	2000	±5°	
	TF55	6000	2500	±5°	

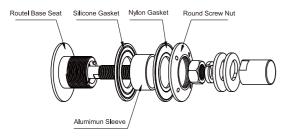


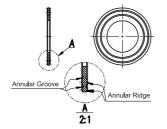
Flat Cap Water Anti-seepage Routel

Product function:

- 1. The appearance and function are same as existed standard routel.
- 2. The routel adopts special structure, soft and strong weathering resistance silicone gasket. No need to fill in the glue to realize the waterproof function.
- 3. Silicone gasket has strong weathering resistance and universality, which can realize the exchange with existed standard routel accessories.
- 4. This product is our patent product.

Product structure:





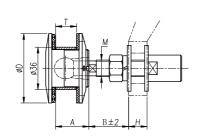
Water Anti-seepage Routel

Silicone Gaske

The fore part of water anti-seepage routel is a special structural silicone gasket. During the installation, the silicone gasket will be out of shape through pushing and squeezing. Then it can realize seal and water anti-seepage.

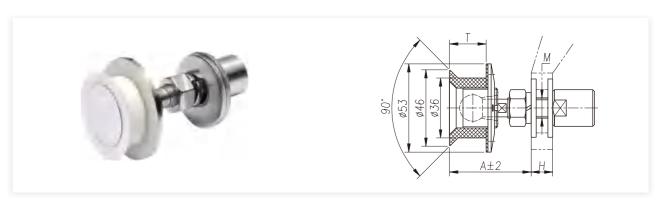
Product parameter





0:							The Assilable	Main mater	ial: 316, 304	
Size Model			D	M			The Available Rotation Angle	Fx≤	Fy≤	
F-TF11X(F-TF11A)	27	32	59	M14	8-18	_	±5°(±10°)	4500	2000	
F-TF12A	35	32	59	M14	18-26	_	±10°	4500	2000	
F-TF12X	35	29	59	M14	18-26	_	±5°	4500	2000	
F-TF13(F-TF13A)	49	32	59	M16	26-40	_	±5°(±10°)	6000	2500	
F-TF14(F-TF14A)	55	32	59	M18	30-46	_	±5°(±10°)	6500	2800	
F-TF21(F-TF21A)	31	32	70	M16	8-22	_	±5°(±10°)	6000	2500	Fx
F-TF22(F-TF22A)	39	32	70	M16	22-30	_	±5°(±10°)	6000	2500	11
F-TF23(F-TF23A)	49	32	70	M16	30-40	_	±5°(±10°)	6000	2500	₹F _y
F-TF24(F-TF24A)	60	32	70	M18	30-50	_	±5°(±10°)	6500	2800	
F-TF32	32	32	59	M14	15-23	_	±5°	4500	2000	
F-TF33	49	32	59	M16	23-40	_	±5°	6000	2500	
F-TF34	55	59	59	M18	30-46	_	±5°	6500	2800	
F-TF35	49	32	70	M16	30-40	_	±5°	6000	2500	
F-TF36	60	32	70	M18	30-50	_	±5°	6500	2800	

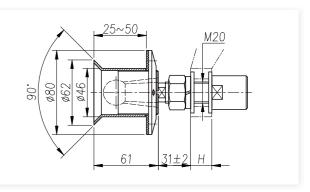
Countersunk Routel



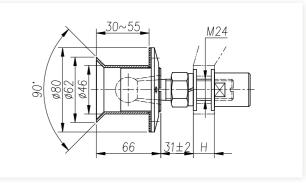
Size	А	М	T	Н	The Available		Main material: 316, 304					
Model		IVI					Fx≤	Fy≤				
ATC11	49	M12	8-22	_	±5°	The Recommended Value of Load	3000	1500				
ATC12	56	M12	22-30	_	±5°		3000	1500				
ATC13	69	M14	30-40	_	±5°		3500	2000				
ATC14	78	M16	40-46	_	±5°		4000	2500				







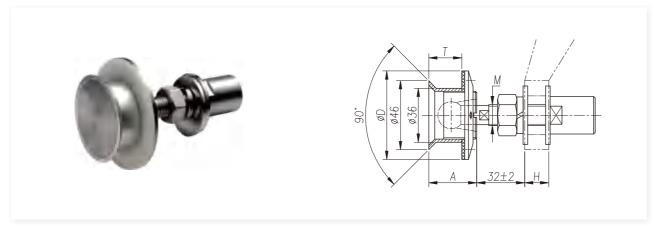




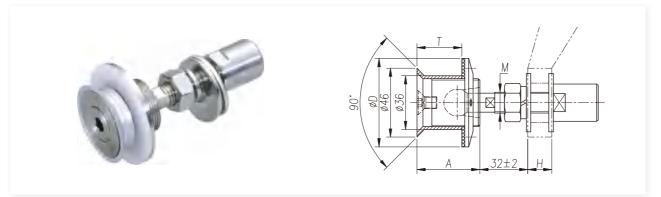
Note: For routel TC25, TC26, single glass panel thickness≥12mm

	Model	Main materi	al: 316, 304	The Available
The Recommended Value of Load	Model	Fx≤	Fy≤	Rotation Angle
Capacity (N)	TC25	7000	3500	±5°
	TC26	7500	5000	±5°





Size	A	D	M	т	Н	The Available		Main materi	al: 316, 304	
Model						Rotation Angle	in Aligie	Fx≤	Fy≤	
TC11(TC11A)	32	59	M14	8-22	_	±5°(±10°)		4500	2000	
TC12(TC12A)	40	59	M14	22-30	_	±5°(±10°)		4500	2000	
TC13(TC13A)	50	59	M16	30-40	_	±5°(±10°)	The Recommended Value of Load	6000	2500	
TC14(TC14A)	56	59	M18	30-46	_	±5°(±10°)		6500	2800	Fx
TC21(TC21A)	32	70	M16	8-22	_	±5°(±10°)		6000	2500	∀ F _y
TC22(TC22A)	40	70	M16	22-30	_	±5°(±10°)		6000	2500	
TC23(TC23A)	50	70	M16	30-40	_	±5°(±10°)		6000	2500	
TC24(TC24A)	56	70	M18	30-46	_	±5°(±10°)		6500	2800	



Note: For exterior installation routel, when bolt-socket countersunk head crew be installed, suggest filling in screw fastening glue.

	33					3 3	=				
	Size	А	D	M		н			Main materi	al: 316, 304	
Мо	del			IVI	'		Rotation Angle		Fx≤	Fy≤	
-	ГС32	42	59	M14	15-32	_	±5°	The Recommended	4500	2000	
-	ГС33	50	59	M16	30-40	_	±5°		6000	2500	F ₁
-	ГС34	56	59	M18	30-46	_	±5°		6500	2800	
-	ГС35	50	70	M16	30-40	_	±5°		6000	2500	
-	ГС36	56	70	M18	30-46	_	±5°		6500	2800	



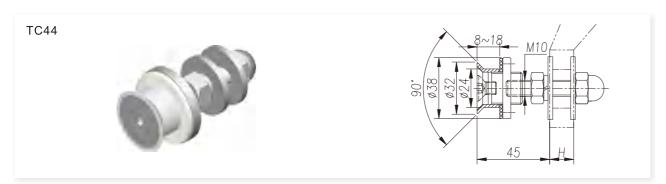




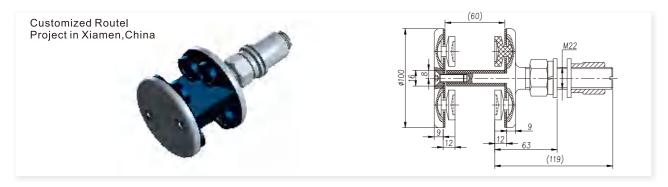




	Madal	Main materia	I: 316, 304	The Available	
	Model	Fx≤	Fy≤	Rotation Angle	
The Recommended Value of Load	TC31	4500	2000	±5°	
Capacity (N)	TC41	2500	1200	±5°	Tx Tr
	TC42	2500	1200	_	γry
	TC43	4500	2000	_	



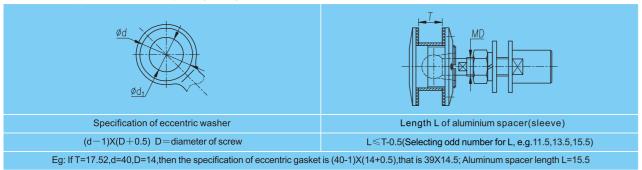




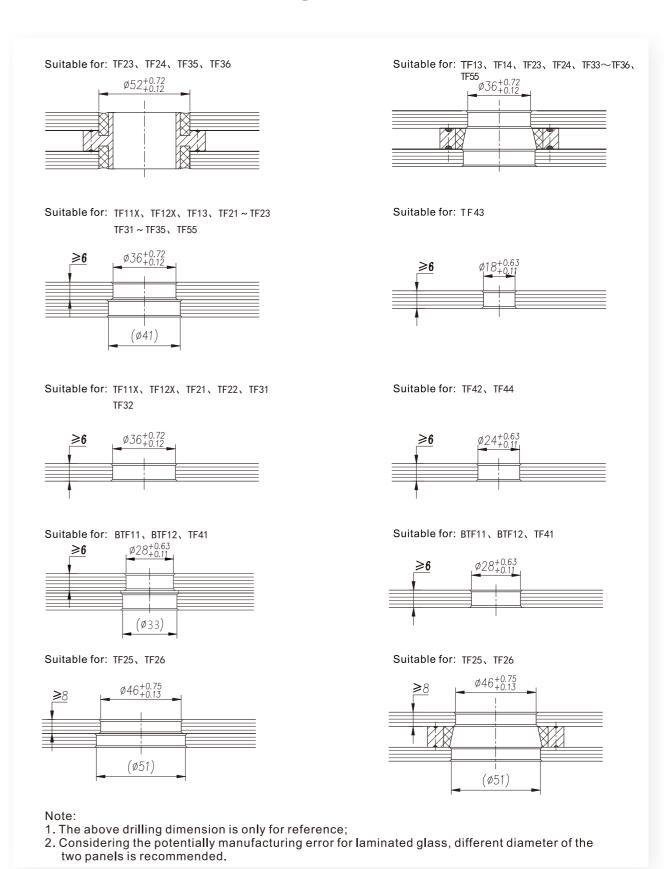
Note: For exterior installation routel, when bolt-socket countersunk head crew be installed, suggest filling in screw fastening glue.

The Recommended Value of Load		Main materia	I: 316, 304	The Available	ASS
	Model	Fx≤	Fy≤	Rotation Angle	F _x
Capacity (N)	TC44	2500	1200	_	F _y

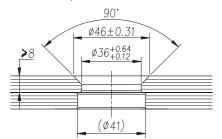
Selection description for aluminium spacer (sleeve) and eccentric washer



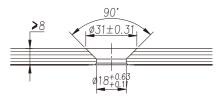
Glass Drilling and Alu. Sleeve



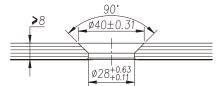
Suitable for: TC11~TC13, TC21~TC23 TC31~TC33, TC35



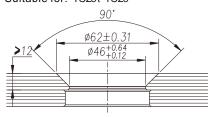
Suitable for: TC43



Suitable for: TC41



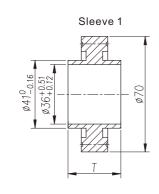
Suitable for: TC25, TC26

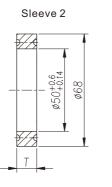


- The above drilling dimension is only for reference;
 Considering the potentially manufacturing error for laminated glass, different diameter of the two panels is recommended.

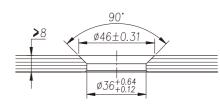
Alu. Sleeve for Insulating Glass Unit



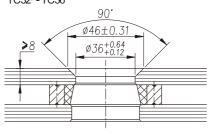




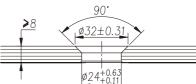
Suitable for: TC11, TC21, TC31, TC32

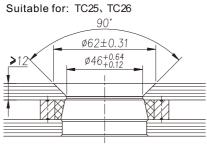


Suitable for: TC13, TC14, TC22~TC24 TC32~TC36

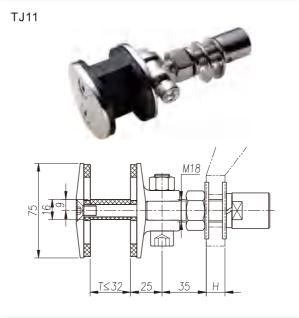


Suitable for: TC42, TC44

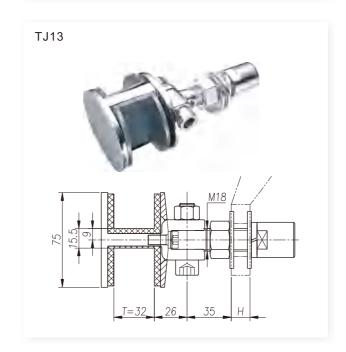


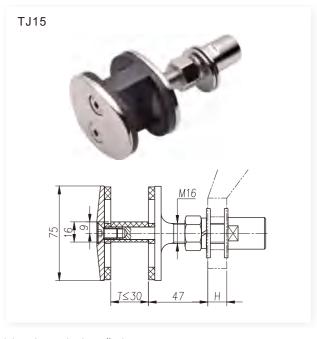


Splice Routel





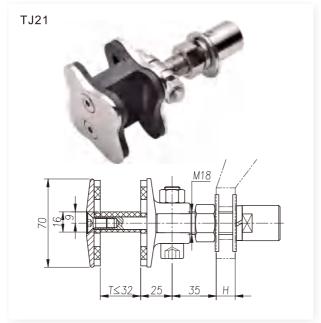


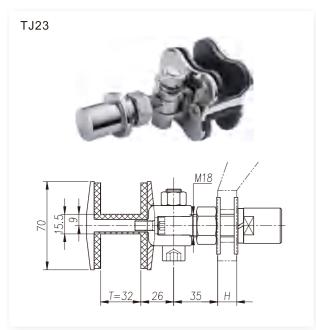


Note: For exterior installation routel, when bolt-socket countersunk head crew be installed, suggest filling in screw fastening glue.

55 5	3.3			
	Madal	Main materia	l: CF8M, Cf8	
	Model	Fx≤	Fy≤	
The Recommended Value of Load	TJ11	6000	2500	
	TJ12	6000	2500	F _x © O
	TJ13	6000	2500	F
	TJ15	6000	2000	Y * Y









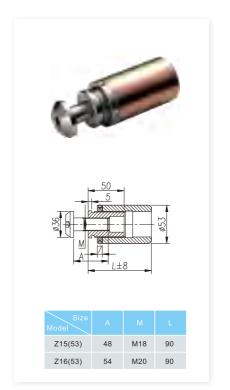
Note: For exterior installation routel, when bolt-socket countersunk head crew be installed, suggest filling in screw fastening glue.

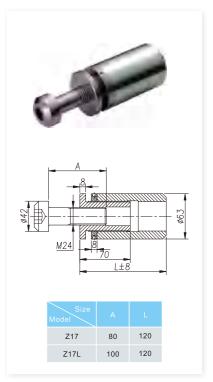
suggest filling in	screw fastening glue	•		
	Model	Main material	: CF8M, Cf8	
	Model	Fx≤	Fy≤	
The Recommended Value of Load	TJ16	6000	2000	
	TJ21	6000	2500	F _x
	TJ23	6000	2500	T F
	TJ25	6000	2000	1.7

Connector

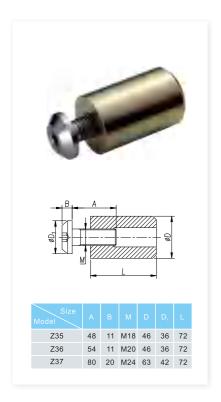




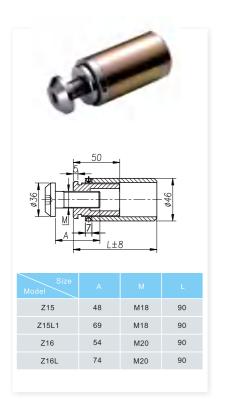


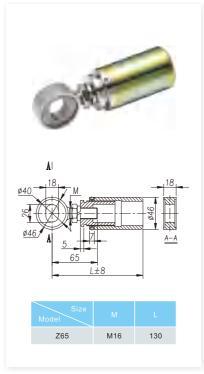


Note: The basic surface treatment of outer screw barrel of the connector is spraying or color galvanized, which is only used as anti-rust treatment during the short period storage and transportation. Another anti-rust measures should be adopted after the site installation.



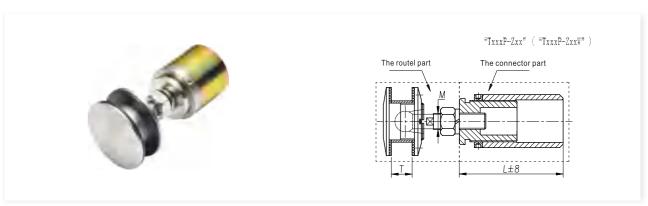






Note: The basic surface treatment of outer screw barrel of the connector is spraying or color galvanized, which is only used as anti-rust treatment during the short period storage and transportation. Another anti-rust measures should be adopted after the site installation.

P-Z Series



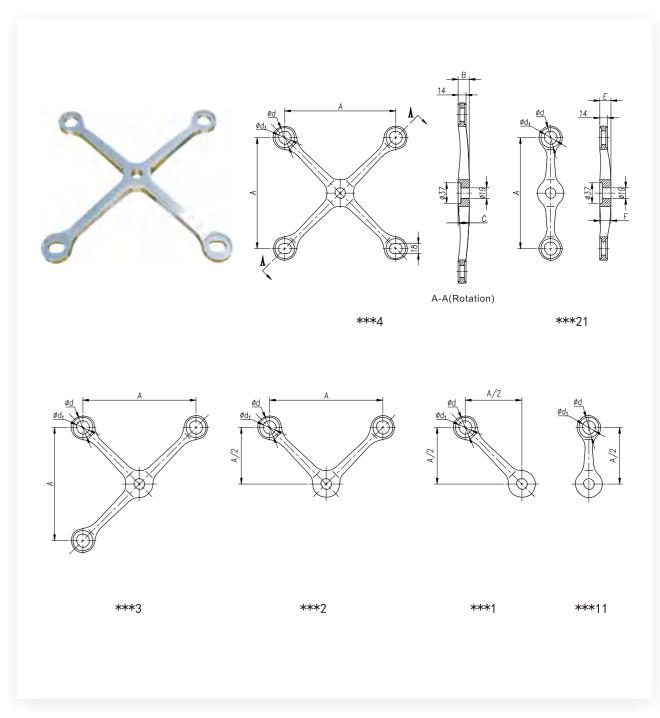
FP-Z 1	The routel part		M	The connector part	M		Fx≤(N)	Fy≤(N)	Model
	TF11XP	8-18	M14	Z12	M14	90	4500	2000	TF11XP-Z12
	TF12XP	18-26	M14	Z12	M14	90	4500	2000	TF12XP-Z12
	TF14P	30-46	M18	Z15W	M18	90	6500	2800	TF14P-Z15W
	TF21P	8-22	M16	Z13	M16	90	6000	2500	TF21P-Z13
	TF22P	22-30	M16	Z13	M16	90	6000	2500	TF22P-Z13
	TF23P	30-40	M16	Z13	M16	90	6000	2500	TF23P-Z13
	TF24P	30-50	M18	Z15W	M18	90	6500	2800	TF24P-Z15W
	TF31P	8-15	M14	Z12	M14	90	4500	2000	TF31P-Z12
	TF32P	15-23	M14	Z12	M14	90	4500	2000	TF32P-Z12
	TF33P	23-40	M16	Z13	M16	90	6000	2500	TF33P-Z13
	TF34P	30-46	M18	Z15W	M18	90	6500	2800	TF34P-Z15W
		30-40				90			
	TF35P		M16	Z13	M16		6000	2500	TF35P-Z13
	TF36P	30-50	M18	Z15W	M18	90	6500	2800	TF36P-Z15W
CP-Z	The routel part	Т	M	The connector part	М		Fx≪(N)	Fy≪(N)	Model
	TC01P	8-22	M14	Z12	M14	90	4500	2000	TC11P-Z12
	TC12P	22-30	M14	Z12	M14	90	4500	2000	TC12P-Z12
	TC13P	30-40	M16	Z13	M16	90	6000	2500	TC13P-Z13
	TC14P	30-46	M18	Z15W	M18	90	6500	2800	TC14P-Z15W
	TC21P	8-22	M16	Z13	M16	90	6000	2500	TC21P-Z13
	TC22P	22-30	M16	Z13	M16	90	6000	2500	TC22P-Z13
	TC23P	30-40	M16	Z13	M16	90	6000	2500	TC23P-Z13
	TC24P	30-46	M18	Z15W	M18	90	6500	2800	TC24P-Z15W
	TC31P	12-21	M14	Z12	M14	90	4500	2000	TC31P-Z12
	TC32P	15-32	M14	Z12	M14	90	4500	2000	TC32P-Z12
	TC33P	30-40	M16	Z13	M16	90	6000	2500	TC33P-Z13
	TC34P	30-46	M18	Z15W	M18	90	6500	2800	TC34P-Z15W
	TC35P	30-40	M16	Z13	M16	90	6000	2500	TC35P-Z13
	TC36P	30-46	M18	Z15W	M18	90	6500	2800	TC36P-Z15W
JP-Z 1	The routel part	Т	М	The connector part	M	L	Fx≤(N)	Fy≤(N)	Model
	TJ15P	0-30	M16	Z13	M16	90	6000	2000	TJ15P-Z13
	T.140D	0.00		740	MAC	00	0000	0000	T 140D 740
	TJ16P	0-30	M16	Z13	M16	90	6000	2000	TJ16P-Z13

Note: The basic surface treatment of outer screw barrel of the connector is spraying or color galvanized, which is only used as anti-rust treatment during the short period storage and transportation. Another anti-rust measures should be adopted after the site installation.



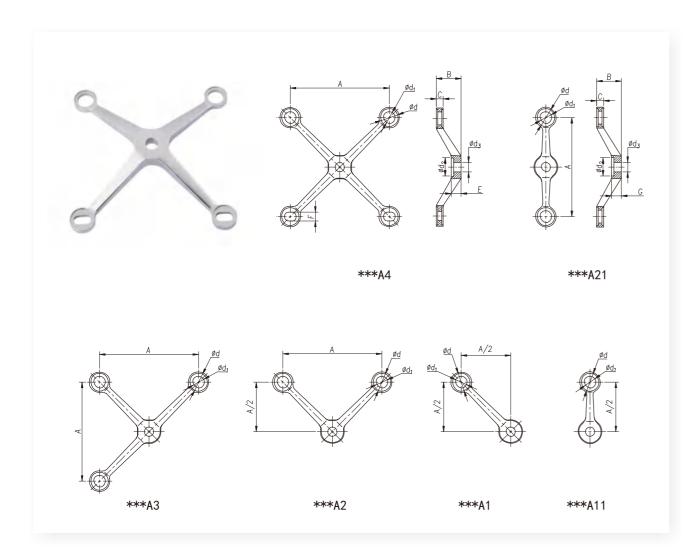
Note: The basic surface treatment of outer screw barrel of the connector is spraying or color galvanized, which is only used as anti-rust treatment during the short period storage and transportation. Another anti-rust measures should be adopted after the site installation.

Spider



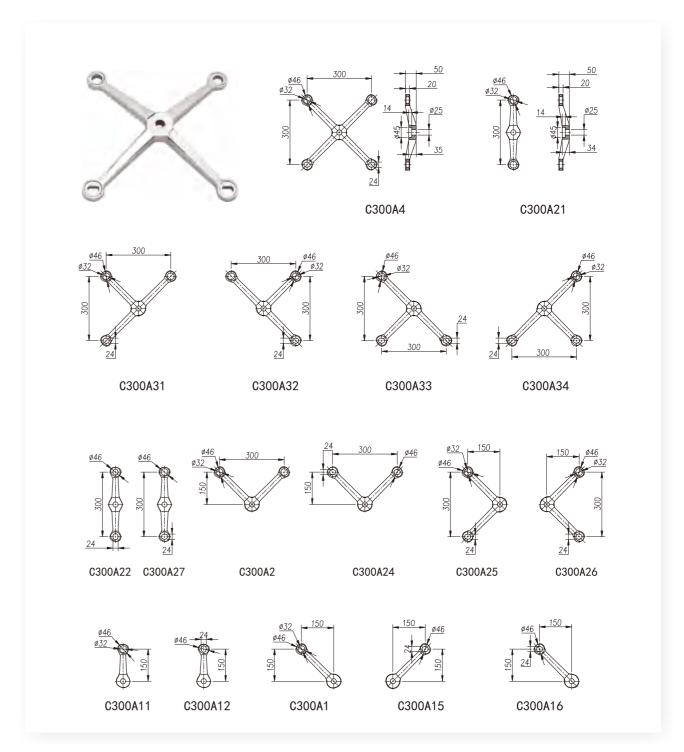
Note: Spider model is consisted of Series number + Arm Code, e.g. GZ250XFD4, GZ250XFD21 and so on.

Size	А	В	С	d	d ₁	Е	F	The Recommended	Material:C	F8M,CF8	Material F x≤	:CD3MN Fy≤
GZ200XFB系列	200	20	20	36	24	20	20		2000	1000	2600	1300
GZ220XFC系列	220	20	20	36	26	20	20		2000	1200	2600	1600
GZ250XFD系列	250	24	24	40	26	24	24		2500	1500	3300	2000



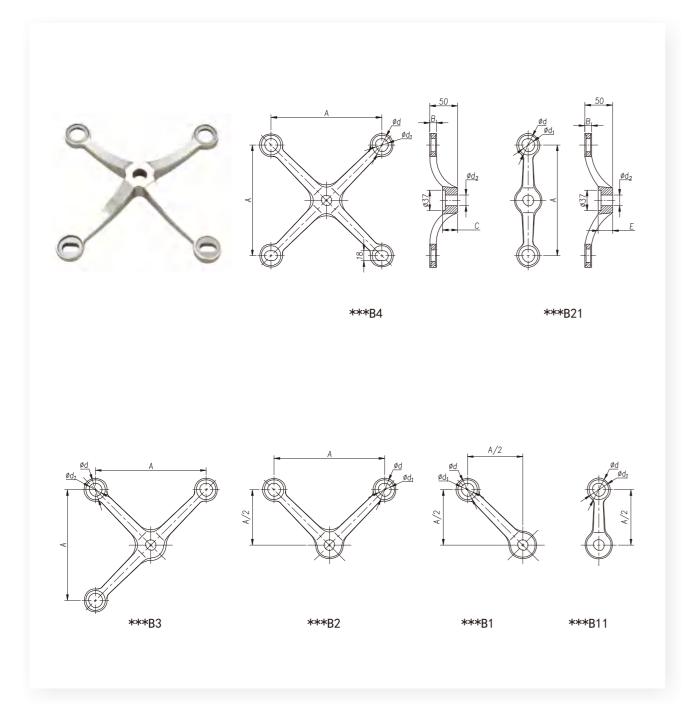
Note: The model of spider consists of series number+ arm code like A160A4, A160A21 and so on.

Size	Α	В	С	d	d.	d _a	d ₃							Material	:CD3MN	
Model										G		Fx≤	Fy≤	Fx≤	Fy≤	
A160A Series	160	40	10	26	16	19	13	16	12.5	16		1500	800	_	_	
A200A Series	200	40	12	36	24	37	19	20	18	18		2000	800	_	_	
200A Series	200	50	14	36	24	37	19	20	18	20		2000	1000	2600	1300	
A220A Series	220	50	12	36	26	37	19	21	18	19		2000	1000	_	_	Q (a)
B220A Series	220	50	10	36	26	37	19	18	18	18		1500	800	_	_	
220A Series	220	50	12	36	26	37	19	23	18	20	The Recommended Value of Load	2000	1200	2600	1600)OH
C220A Series	220	50	18	36	26	37	19	28	18	26		4000	2500	_	_	
D220A Series	220	50	20	36	26	37	21	28	20	28		5000	3500	_	_	Fig
A250A Series	250	50	12	40	26	37	19	22	18	20		2000	1200	_	_	- OF O
B250A Series	250	50	10	36	26	37	19	20	18	20		1500	800	_	_	
250A Series	250	50	14	40	26	37	19	25	18	22		2500	1500	3300	2000	
C250A Series	250	50	17	40	26	37	19	27	18	27		4000	2500	_	_	
D250A Series	250	50	20	40	26	37	21	30	20	30		5000	3500	_	_	
A300A Series	300	50	16	40	26	37	21	28	18	28		2500	1500	_	_	
300A Series	300	50	18	40	26	37	21	32	18	26		3000	2000	3900	2600	



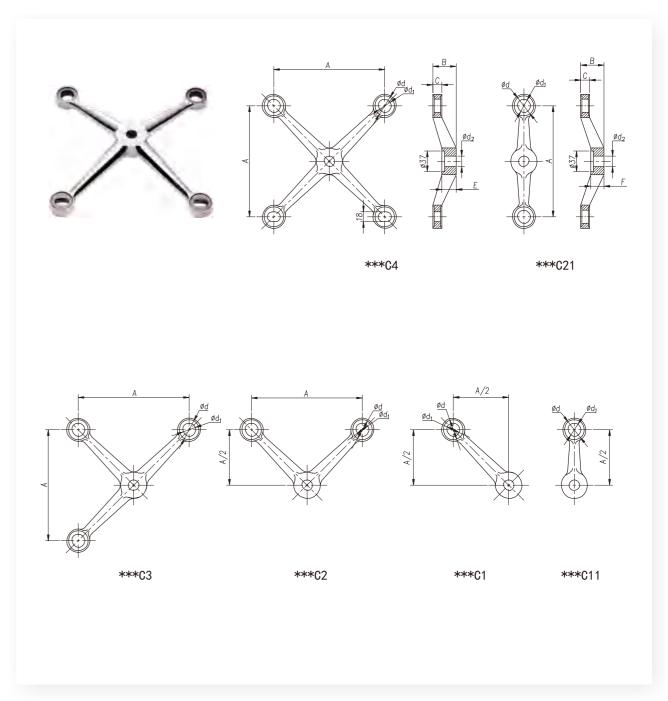
The Recommended	Model	Material:	CF8M,CF8	Material:	CD3MN	
Value of Load	Model	Fx≤	Fy≤	Fx≤	Fy≤	Fz
Capacity (N)	C300A Series	6000	4000	_	_	T _y

Note: When the radial load <3500N, the eccentric washer can meet the requirement of load capacity. When the radial load >3500N, then need to use oblate hole of spider to bear.



Note: The model of spider consists of series number+ arm code like 220B4,220B21 and so on.

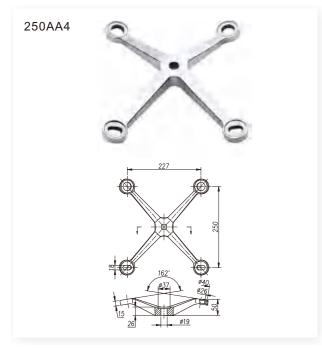
Size		В	C	۵	٦	d	_		Material: (CF8M,CF8	Material:	CD3MN	Q
Model		Ь						The Recommended	Fx≤	Fy≤	Fx≤	Fy≤	
200B Series	200	12	27	36	24	19	26		2000	1000	2600	1300	
220B Series	220	13	27	36	24	19	27		2000	1200	2600	1600	Free
250B Series	250	16	26	40	26	19	24		2500	1500	3300	2000	F _v
300B Series	300	18	32	40	26	21	26		3000	2000	3900	2600	1.0



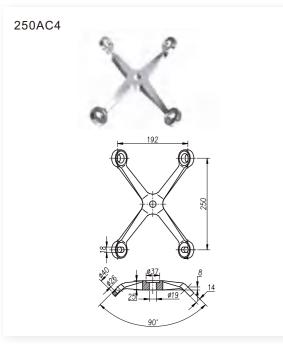
Note: The model of spider consists of series number+ arm code like 250C4,250C21 and so on.

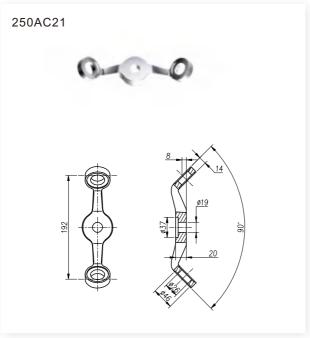
Size	^	В	С	۵	۵	۵		_			CF8M,CF8	Material	: CD3MN
Model		D							The Recommended	Fx≤	Fy≤	Fx≤	Fy≤
200C Series	200	42	16	36	24	19	26	24	Value of Load Capacity (N)	2000	1000	2600	1300
250C Series	250	50	18	40	26	19	32	26		2500	1500	3300	2000
300C Series	300	50	20	40	26	21	38	32		3000	2000	3900	2600



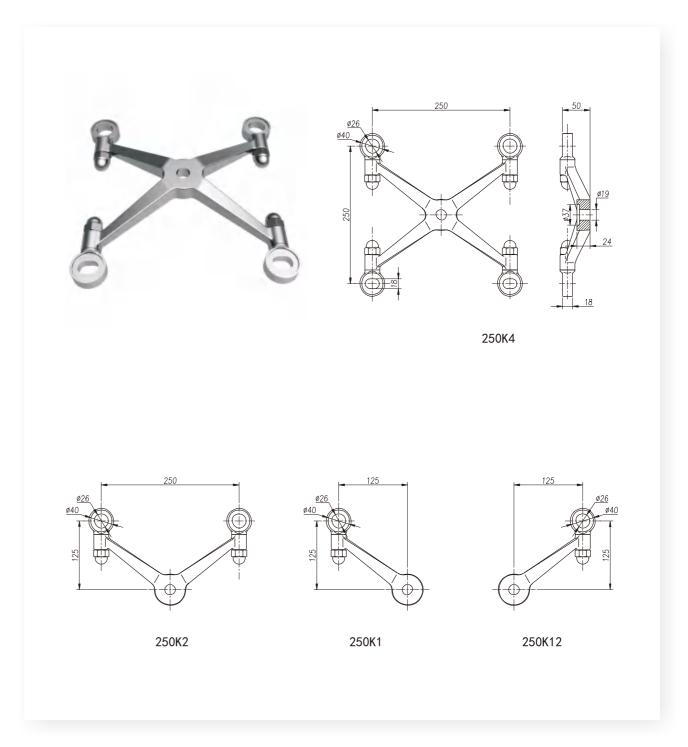




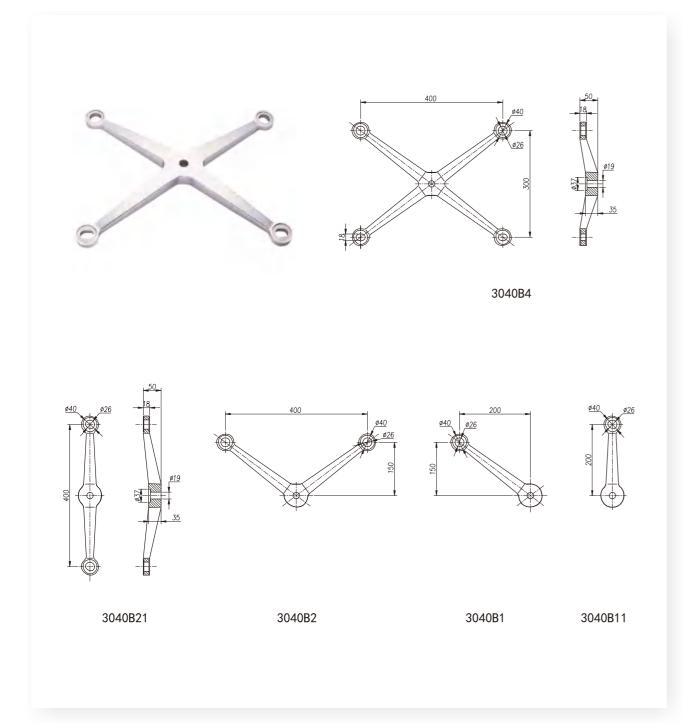




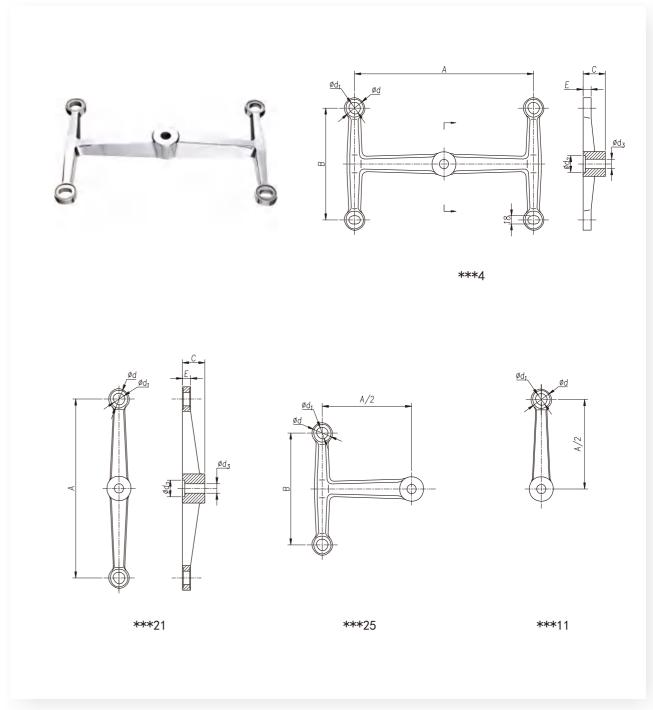
		Material:	CF8M,CF8	Material	CD3MN	
	Model	Fx≤	Fy≶	Fx≤	Fy≶	
The Recommended Value of Load	250AA4			3300		
Capacity (N)	250AA21	2500	1500		2000	R-
	250AC4		1500	3300	2000	
	250AC21					1,1



	Madal	Main materia	l: CF8M, CF8	Main mater	ial: CD3MN	
The Recommended Value of Load Capacity (N)	Model	Fx≤	Fy≤	Fx≤	Fy≤	Pro H
	250K Series	2500	1500	3300	2000	YF,

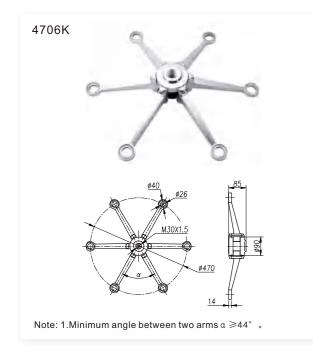


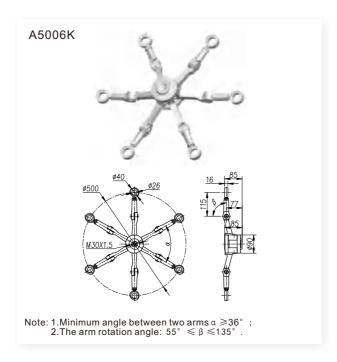
	Madal	Material: CF8M,CF8		Material	CD3MN	
The Recommended Value of Load Capacity (N)	Model	Fx≤	Fy≤	Fx≤	Fy≤	Fr
	3040B Series	4000	2000	5000	2600	, F _J



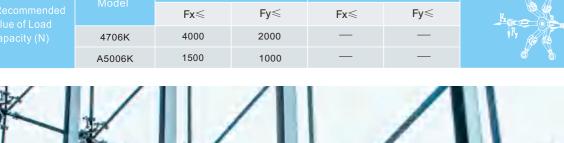
Note: The model of spider consists of series number+ arm code like 2540HA4, 2540HA21 and so on.

Size	Λ	В		d	٦	٦	۵	F		Material: (CF8M,CF8	Material:	CD3MN	©)
Model		Ь							The Recommended	Fx≤	Fy≤	Fx≤	Fy≤	
A3060H Series	600	300	40	40	26	37	19	16		4000	1800	_	_	
2540HA Series	400	250	50	40	26	37	21	18			2000		2600	Px S
3060HA Series	600	300	60	46	30	45	25	18		6500	2500	8000	3200	F _v 🚳
4080HA Series	800	400	80	50	32	45	25	20			3500		4500	



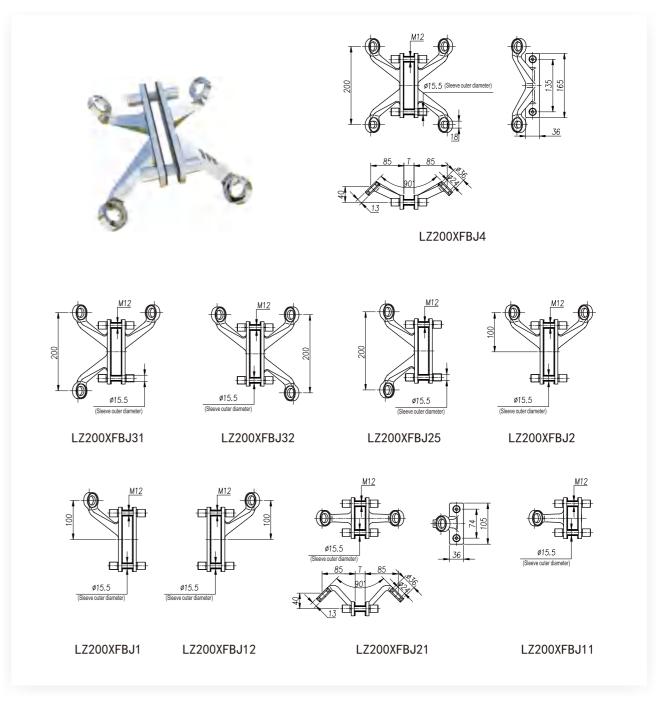


		Main materia	: CF8M, Cf8	Main material: CD3MN		
The Recommended Value of Load	Model	Fx≤	Fy≶	Fx≤	Fy≶	
Capacity (N)	4706K	4000	2000	_	_	
	A5006K	1500	1000	_	_	



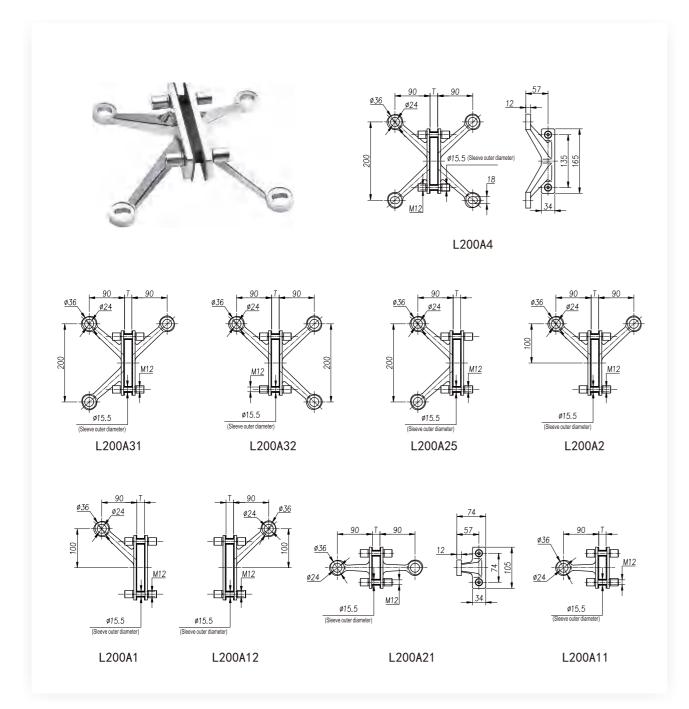


Fin Spider



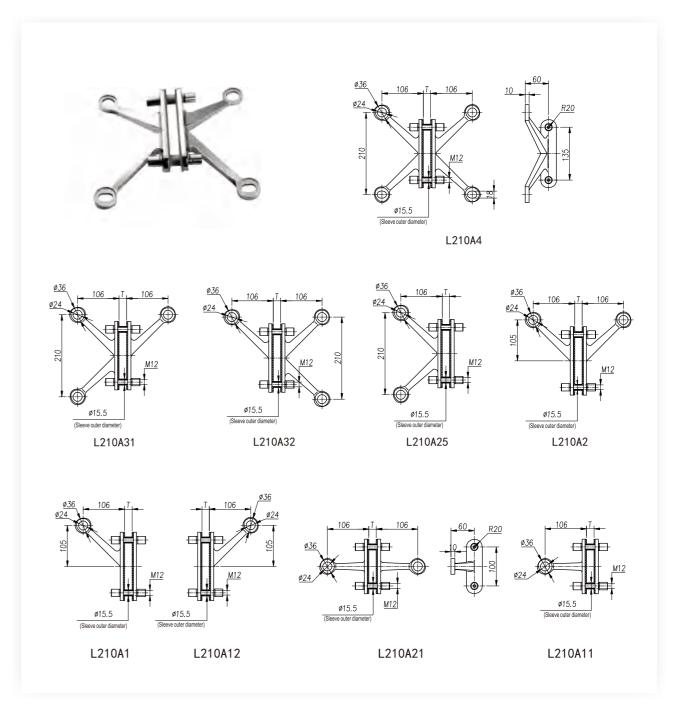
- Note:
 1. The standard thickness of glass fin is T=19mm;
 2. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

The Recommended	Madal	Main material: CF8M, Cf8 Main material: CD3MN				
	Model	Fx≤	Fy≤	Fx≤	Fy≤	Fz
	LZ200XFBJ Series	2000	1000	_	_	Fy



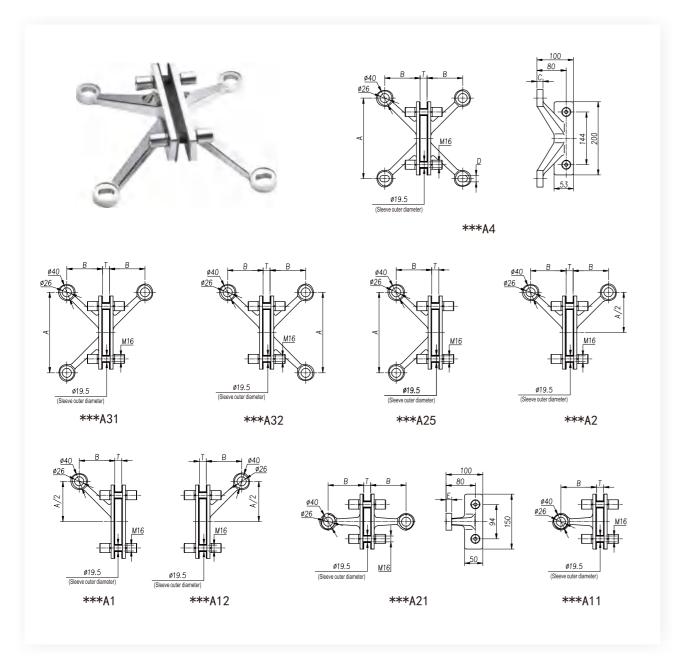
- Note:
 1.The standard thickness of glass fin is T=19mm;
 2. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter

The Recommended	Model	Main material: CF8M, Cf8 Main material: CD3MN				
Value of Load Capacity (N)	Model	Fx≤	Fy≤	Fx≤	Fy≤	Fz
	L200A Series	2000	1000	_	_	F, ©



- Note:
 1.The standard thickness of glass fin is T=19mm;
 2. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

The Recommended	Model	Main material	l: CF8M, Cf8	Main mater	ial: CD3MN	
Value of Load Capacity (N)	Model	Fx≤	Fy≤	Fx≤	Fy≤	Fz
Capacity (1.)	L210A Series	2000	1000	2600	1300	- F _y

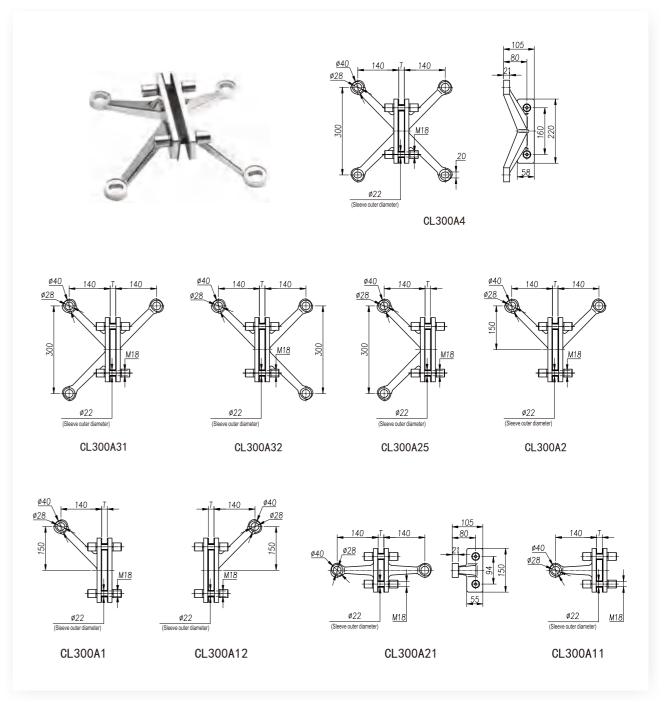


- Note: 1. The model of spider consists of series number+ arm code like L220A4, L220A21 and so on.

 2. The standard thickness of glass fin is T=19mm;

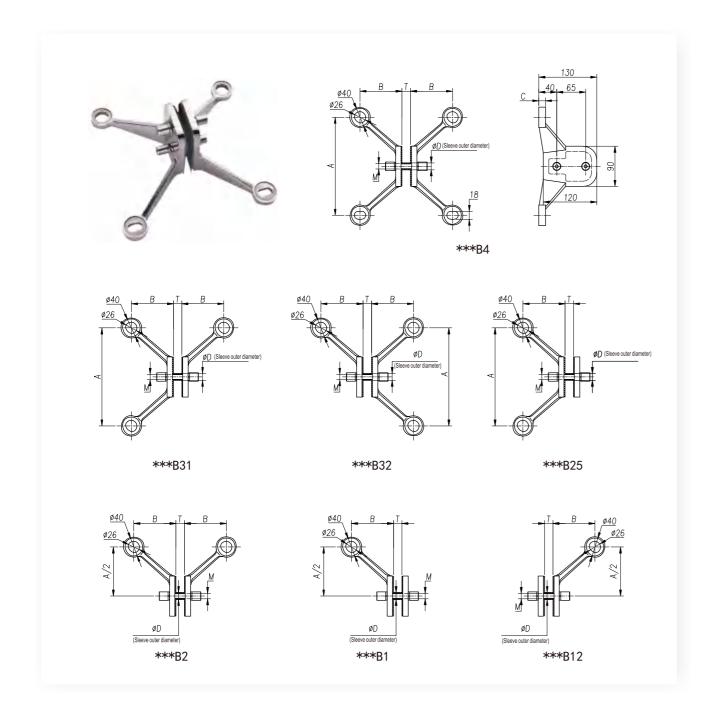
 3. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

Size	^	_	С		F	_		Main material	: CF8M, Cf8	Main mater	ial: CD3MN	
Model				D	E			Fx≤	Fy≤	Fx≤	Fy≤	
L220A Series	220	97	17	18	15	_	The Recommended	2500	1500	2200	2000	
L250A Series	250	119	17	18	15	_	Value of Load	2500	1500	3300	2000	
CL220A Series	220	97	18	18	18	_	Capacity (N)	4000	0500	_	_	F _r
CL250A Series	250	119	18	18	18	_		4000	2500	_	_	I.F.
DL220A Series	220	97	19	20	19	_		5000	2500	_	_	117
DL250 Series	250	119	19	20	19	_		5000	3500	_	_	



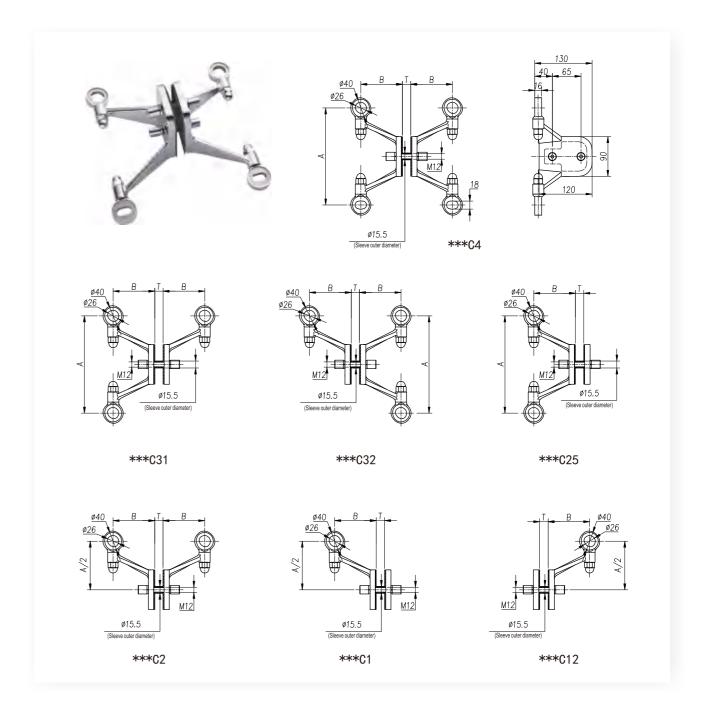
- Note:
 1. The standard thickness of glass fin is T=19mm;
 2. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

The Recommended	Madal	Main material	: CF8M, Cf8	Main mater	ial: CD3MN	
Value of Load Capacity (N)	Model	Fx≤	Fy≤	Fx≤	Fy≤	F.
	CL300A Series	5000	3500	_	_	,F,



- Note: 1.The model of spider consists of series number+ arm code like L250B4,L250B25 and so on.
 2.The standard thickness of glass fin is T=19mm;
 3. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

Size	^	В	C	_	М			Main material		Main mater	rial: CD3MN	
Model	A				IVI			Fx≤	Fy≤	Fx≤	Fy≤	
L220B Series	220	94	15	15.5	M12	_	Value of Load Capacity (N)	2500	1500	3300	2000	
L250B Series	250	115	15	15.5	M12	—	Capacity (11)	2500	1500	3300	2000	
CL250B Series	250	115	18	19.5	M16	_		4000	2500	_	_	

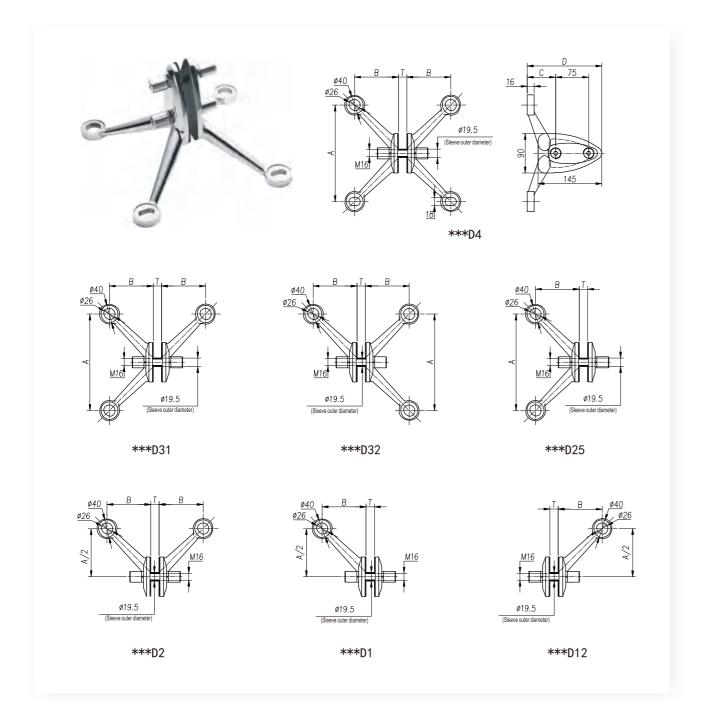


- Note: 1. The model of spider consists of series number+ arm code like L250C4, L250C25 and so on.

 2. The standard thickness of glass fin is T=19mm;

 3. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

Size			_		Main material	: CF8M, Cf8	Main mater	ial: CD3MN	Q 0
Model		В			Fx≤	Fy≤	Fx≤	Fy≤	F. A
L220C Series	220	94	_	Capacity (N)	2500	1500	2200	2000	
L250C Series	250	115	_		2500	1500	3300	2000	V ¹ y

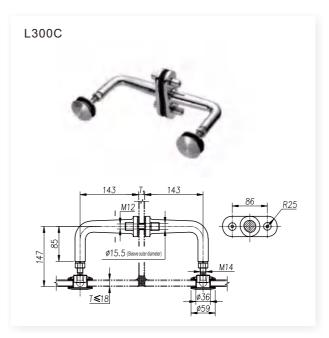


- Note: 1. The model of spider consists of series number+ arm code, like L250D4, L250D25 and so on.

 2. The standard thickness of glass fin is T=19mm;

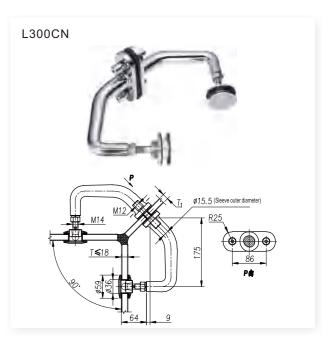
 3. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

Size										ial: CD3MN	Q , p
Model		В				The Recommended Value of Load	Fx≤	Fy≤	Fx≤	Fy≤	F _v
L220D Series	220	100	65	170	_		2500	1500	3300	2000	IF.
L250D Series	250	115	90	195	_		2500	1500	3300	2000	ү-у





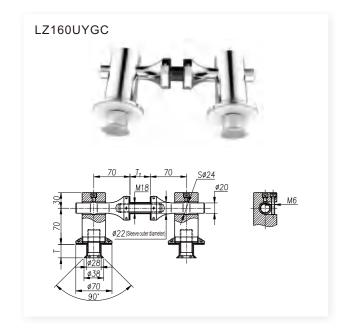




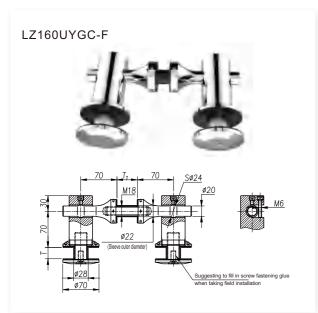
Note:
1.The standard thickness of glass fin is T,=19mm;
2. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

		Model	Main material: CF8M, Cf8		Main material: CD3MN				
		Model	Fx≤	Fy≤	Fx≤	Fy≤			
	The Recommended Value of Load	L300C	3000	1500	3900	2000	L. P.		
	Capacity (N)	L240D	3500	1000	4500	1300	177		
		L300CY	3000	1500	3900	2000			
		L300CN	3000	1500	3900	2000			











- Note:

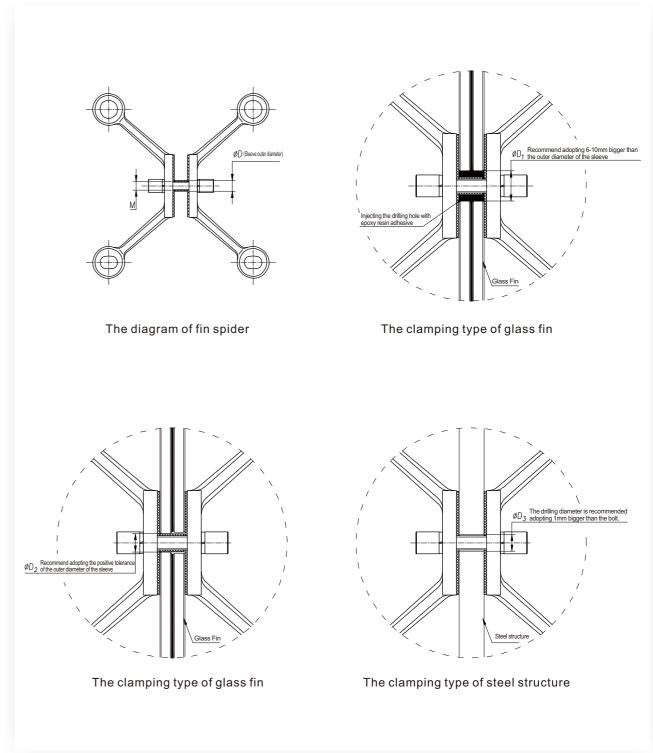
 1. The standard thickness of glass fin is T₁=19mm;

 2. Facade glass thickness for standard items is: 8≤T≤26mm;

 3. Please place the order with note of removing rubber gasket or nylon sleeve while they are not needed. The drilling diameter on structure should be suit for the bolt dimension.

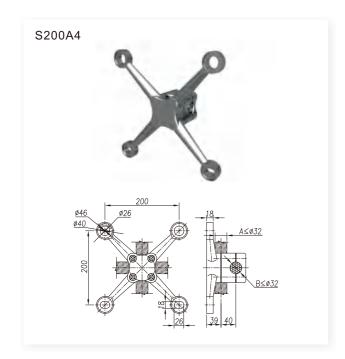
	Model	Main materi		
	Model	Fx≤	Fy≤	\sim
The Recommended Value of Load	LZ160UYGC			Fr O
Capacity (N)	LZ160UYGC-D	2000		F _y
	LZ160UYGC-F	2000		
	LZ160UYGC-FD			

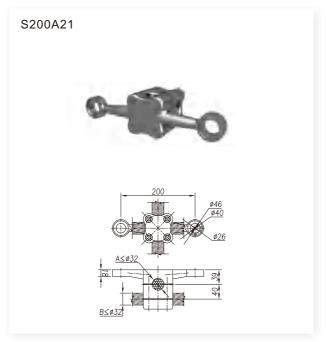
Glass Fin Drilling Diagram

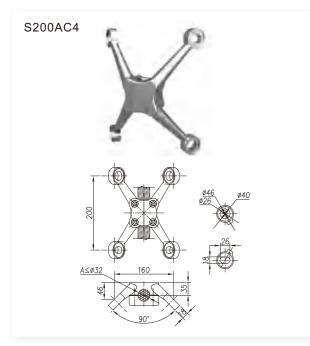


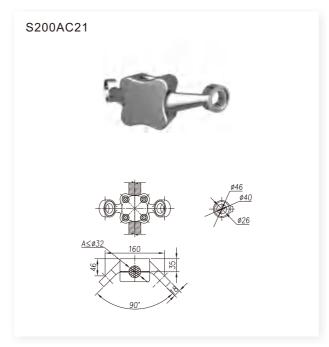
- 1. When installing the fin spider, the glass drilling diameter can be bigger than outer diameter of the nylon sleeve, and be injected with epoxy resin adhesive (Recommendation).
- 2. When installing the fin spider, different drilling diameter of two panels is available, the smaller hole will bear the loads.
- When installing the fin spider on steel structure, the nylon sleeve is not necessary and the drilling diameter is recommended to adopt 1mm bigger than the bolt.
 The above drilling diagram is only for reference.

Cable Spider





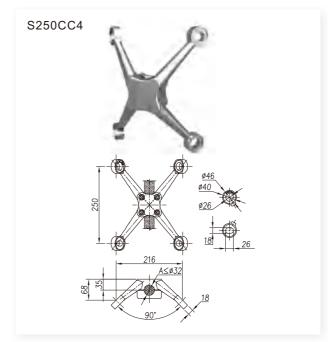


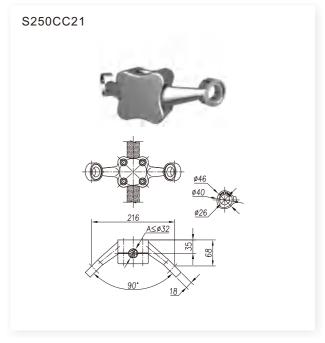


	Madal	Main material: CF8M, Cf8		Main material: CD3MN		A
The Recommended Value of Load	Model	Fx≤	Fy≤	Fx≤	Fy≤	
Capacity (N)	S200A Series	2500	4500	2200	0000	Fx.
	S200AC Series	2500	1500	3300	2000	Fy OF

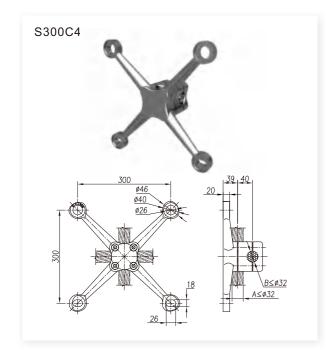


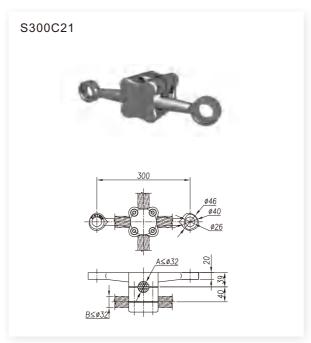


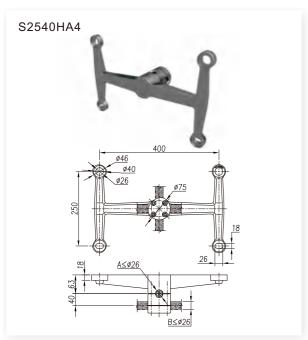




	Model	Main material: CF8M, Cf8		Main material: CD3MN		
The Recommended Value of Load Capacity (N)		Fx≤	Fy≤	Fx≤	Fy≤	
	S250C Series	2500	4500	2200	2000	Fx. The same of th
	S250CC Series	2500	1500	3300	2000	√ Fy Oyr

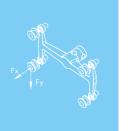








	Model	Main material:	CF8M, Cf8	Main material: CD3MN		
The Recommended Value of Load	Model	Fx≤	Fy≤	Fx≤	Fy≤	
Capacity (N)	S300C Series	3000	2000	3900	2600	
	S2540HA Series	6500	2000	8000	2600	



Clamp

- I. Clamp Ssupporting advantages:
- 1.Simpler structure, lower cost;
- 2.No need drilling hole, can avoid glass manufacture defects and reduce the drilling fee;
- 3.No hole sealing issue of insulating glass;
- 4. Having kinds of gasket types, convenient for project request;
- 5. Plate is close to structure, which can decrease the structure bending effect;
- 6. Clients can choose and customize from many appearance types.
- II. Clamp supporting disadvantages:
- 1. Glass bear the force for the bending plate;
- 2. Supporting plate locates at the glue-line, so curtain wall glue-line need to be designed more wider;
- 3.Once fixed on the corner, it can't decrease the glass calculation span;
- 4.Large dimension of appearance;
- 5. Having a long glue side and located at the glue-line, so it has a high construction requirement for silicone sealant.



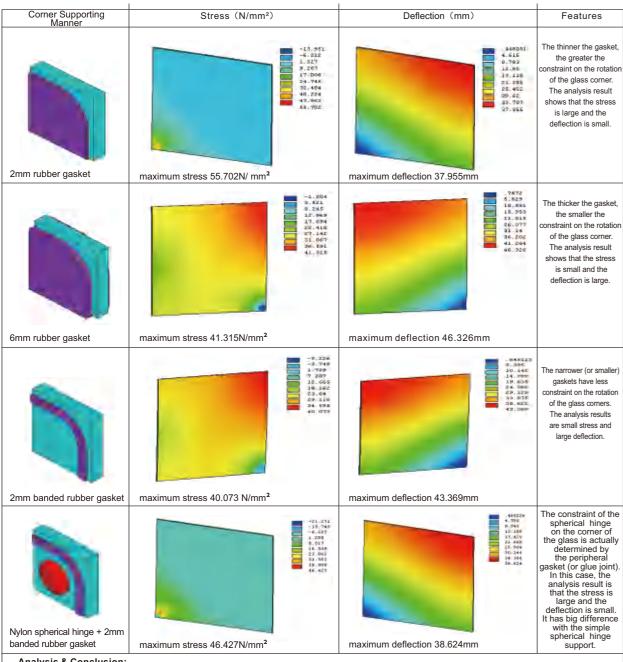






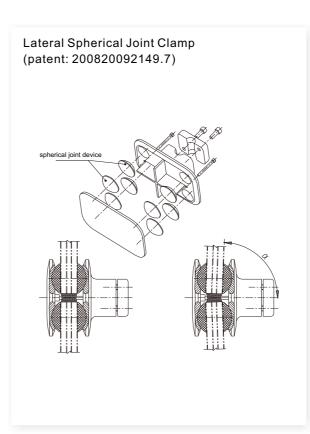
III. The glass loading features under the clamp supporting

The glass loading, when it's under clamp supporting, has the relation with glass dimension, thickness, shape, etc. After the glass dimension confirmed, the glass loading will be more affected by clamp gasket. Common gasket supporting type and loading features as following:

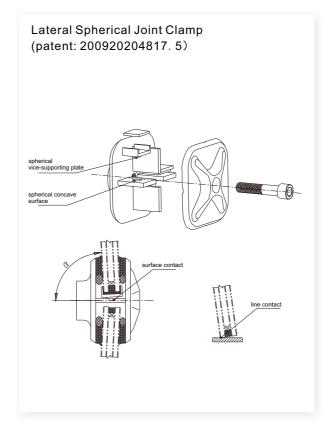


Analysis & Conclusion:

- 1.In the above cooperation, the glass specification is 1800mm*2000mm. Glass type is 12mm tempered glass. Wind stress is 2.0Kpa. Glass strength design value is 84 N/mm².
- 2. From the comparison, we can see that more rotating restrain capacity to the glass corner, bigger glass stress related corner supporting stress but the deflection turns smaller. On the contrary, it does also do this.
- 3. The main purpose of this analysis is contrast different supporting glass force features. The result accuracy just can responsible for the model. And It will exsit small different This analysis for reference only.









IV. Clamp usage instructions:

1. Using taboo for gasket & glue

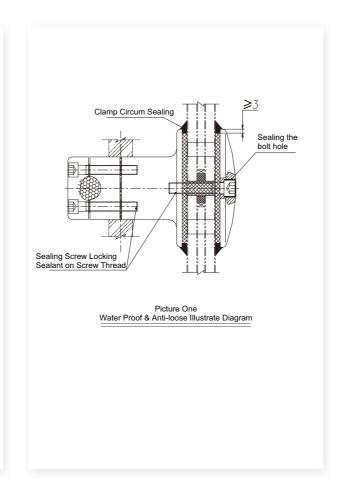
- (1) To avoid the sealant color changing to yellow (as below picture) and affect the appearance, so suggesting choose black sealant.
- (2) Before sealing, suggest make the glue and dyeing gasket or compatibility test according to the manufacture standard.
- (3) Sealant suggesting use it with neutral silicone weather-proof attributes.
- (4) The glue area must be clean before sealing, and the exact requirement can consult the supplier.

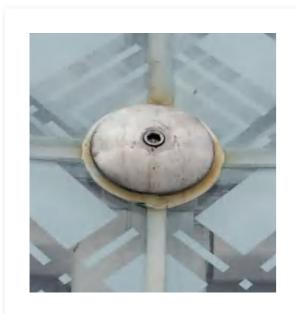
2. Sealing measure

- (1) RG unilateral distance design should be ≥3mm on glass clamp edge and two glass facade sides.
- (2) Clear the glue area before sealing and guarantee the glue-line consistency, in order to guarantee the glue-line quality.

3. Anti-loose measure

Suggest sealing screw locking sealant on the screw thread, which can prevent clamp screw bolt become loose under long time vibration.

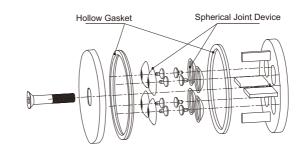


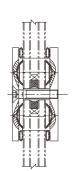


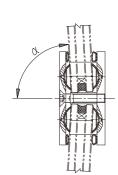


V. Clamp new technique

New spherical clamp



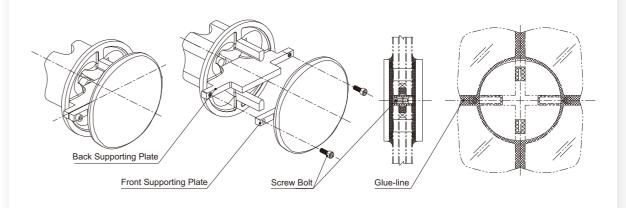




Product highlights:

- 1.Decrease the glass restriction effect of the edge gasket and sealing, come into play the spherical full effect.
- 2.No need fill in foam stick before sealing and it can get the same wide sealant, which increases the installation efficiency.

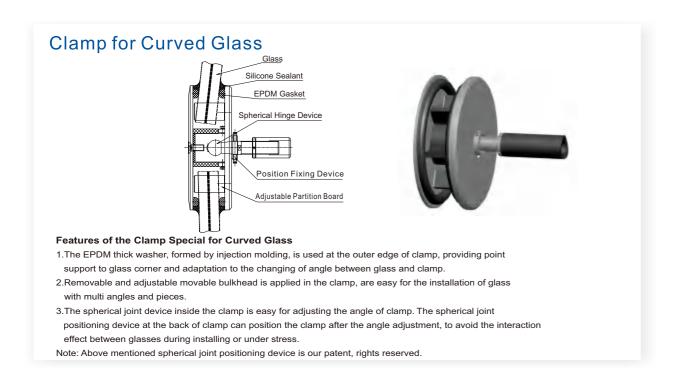
Screw concealed clamp

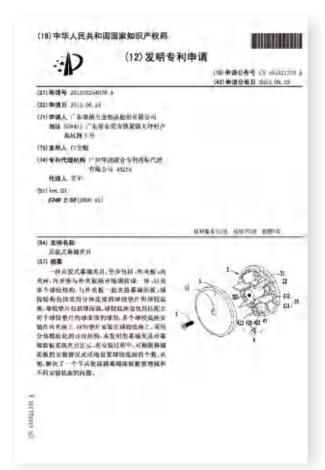


Product highlights:

- 1. The installation blot is invisible from indoor & outdoor, good appearance.
- 2.Can prevent clamp screw bolt become loose under long time vibration.
- 3.No screw hole sealing and can perfect solve the screw water leakage.

Clamp Introduction for Curved Glass







Project Cases:

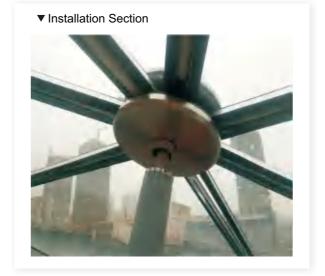
Beijing Huaifang Sports Complex // Henan Provincial Tennis Stadium // Qingdao World Horticulture Expo Park Nanjing Xiaohonghua Art Primary School // Yunnan Science and Technology Museum // Dali Taiye International Plaza Nanjing Xianlin Wanda MAO // Quanzhou Public Cultural Center // Yangjiang Yingxin Plaza



▲ Nanjing Small Red Flower Art Primary School

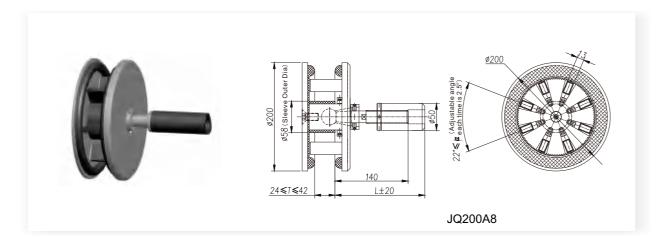


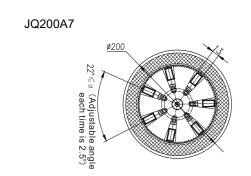
▲ Yangjiang Yingxin Plaza

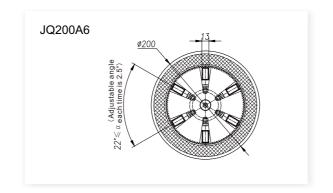


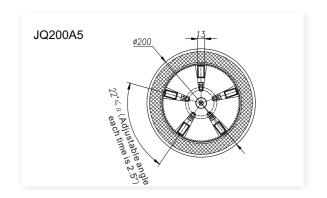


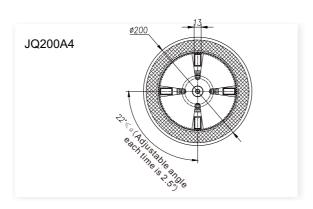
JQ200A Series





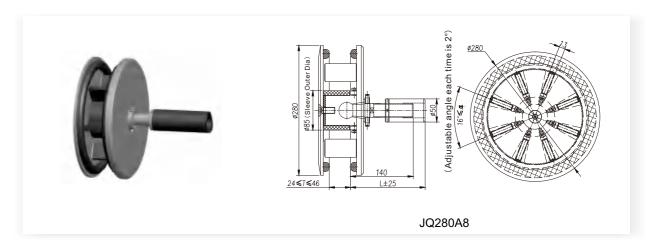


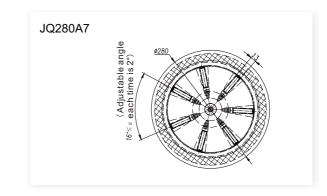


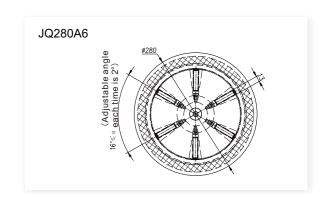


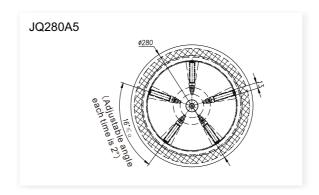
	Main material: CF8M, CF8				
The Recommended Value of Load Capacity (N)	Fx≤	Single Reinforcement Plate Fyd≤			
Capacity (14)	10000	1000			

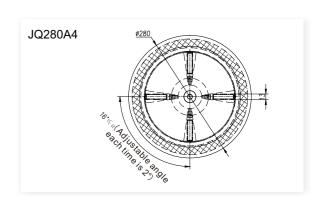
JQ280A Series





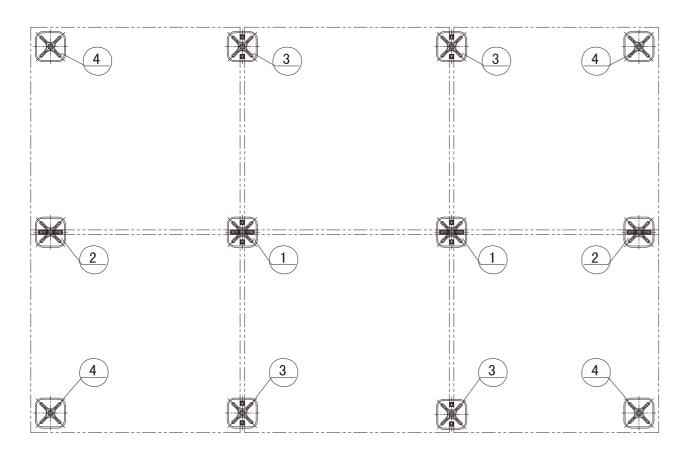


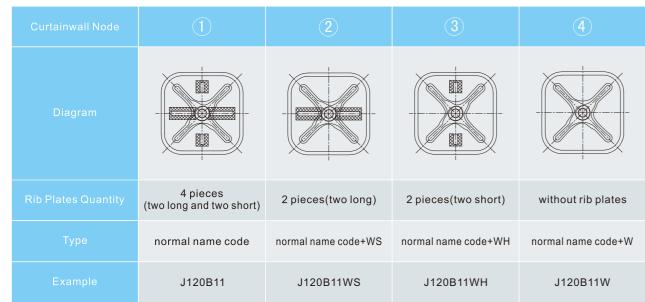




The December of	Main material :	CF8M, CF8	
The Recommended Value of Load Capacity (N)	Fx≤	Single Reinforcement Plate Fyd≤	Fx
Сарасну (М)	10000	1000	Fy

Clamp Naming Definition



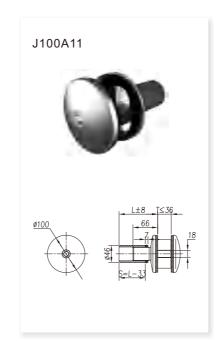


Note:1. Normal name code means the clamp has both vertical and horizontal rib plates. Normal name code + W/WS/WH means clamp without rib plates/without vertical rib plates/ without horizontal rib plates;

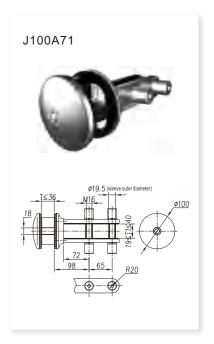
2.Normal name code + W means the glass need to be drilled holes ,and because of different way of clamping glass ,it has different ways to drill the glass holes and the glass holes will also have different sizes ,for details ,please consult KIN LONG company.

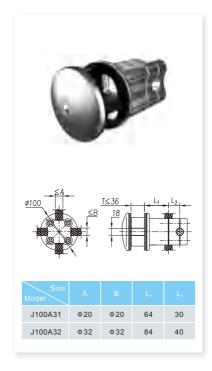
Clamp

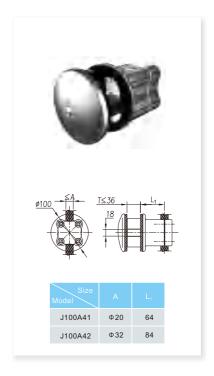
J100A Series Clamp (round shape)

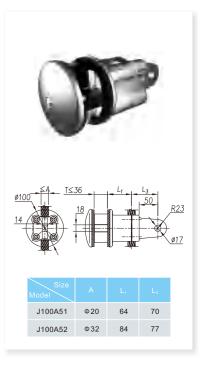






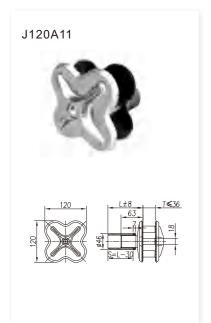


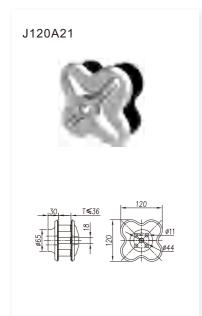


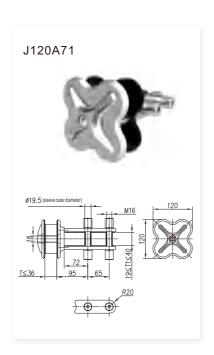


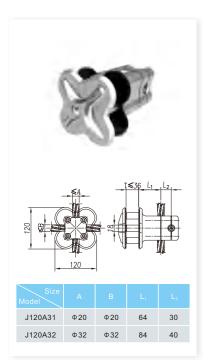
7. 5	Main material	: CF8M, CF8	
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
	16000	3000	Fy♥

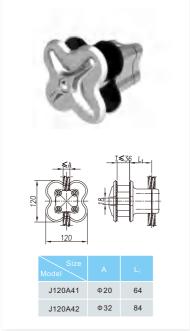
J120A Series Clamp (flower shape)

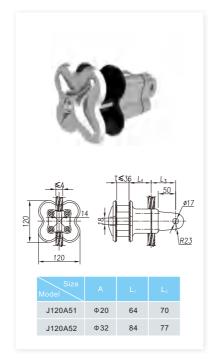


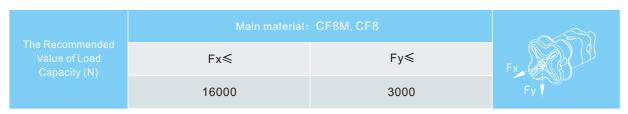




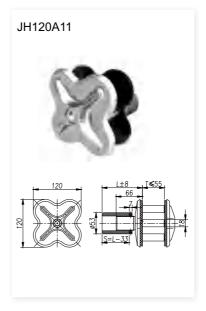


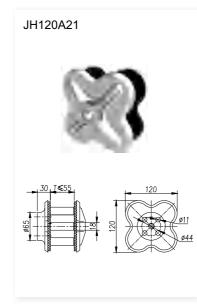


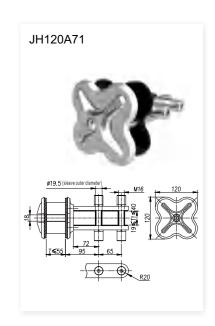




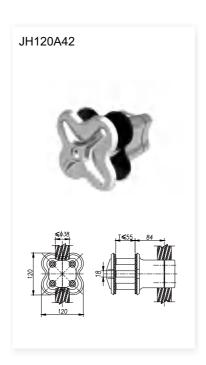
JH120A Series (flower shape)

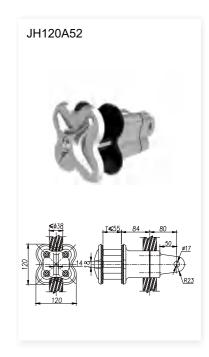








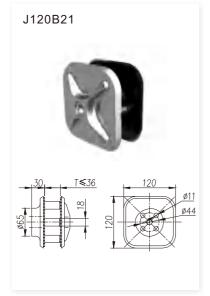


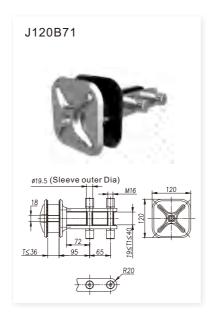


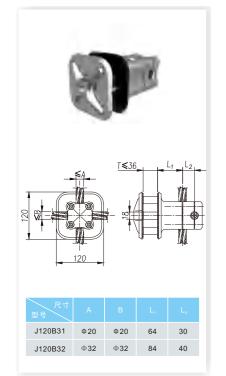
The Decemberded	Main material:(CF8M, CF8	
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
Supucity (11)	16000	5000	Fy V

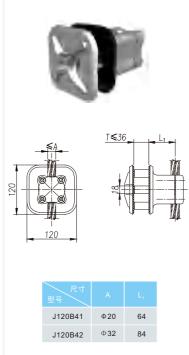
J120B Series (square shape)

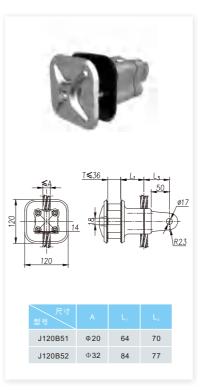


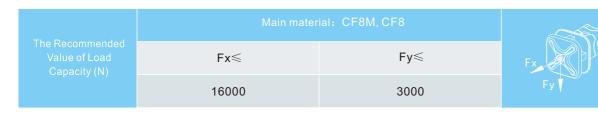




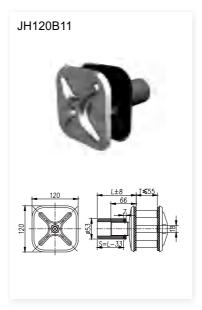


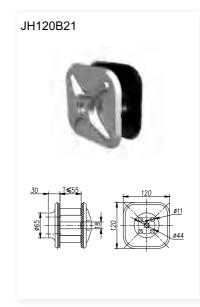


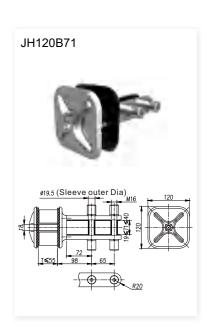


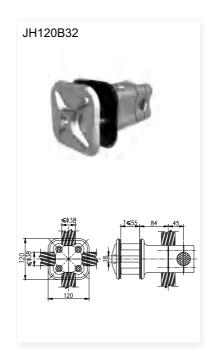


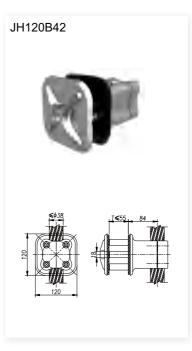
JH120B Series (square shape)

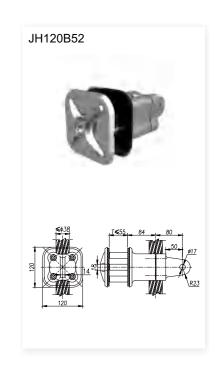






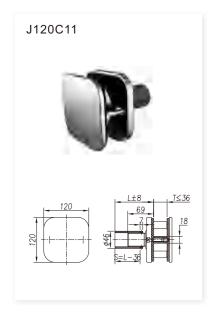


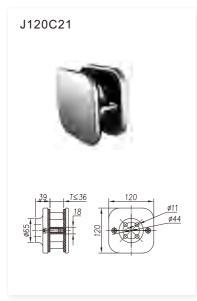


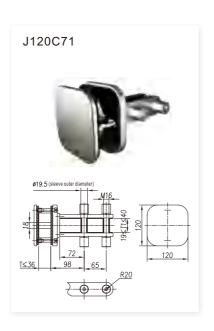


	Main material: CF8M, CF8		
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	F <u>x</u>
Supusity (11)	16000	5000	Fy 🗍

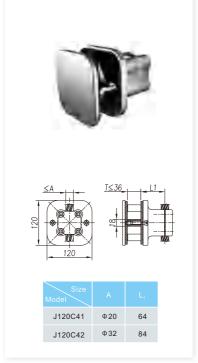
J120C Series(square shape)

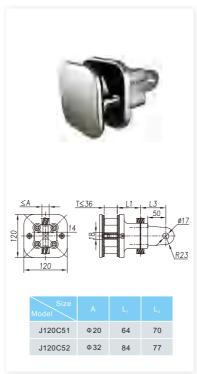








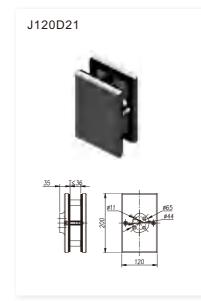


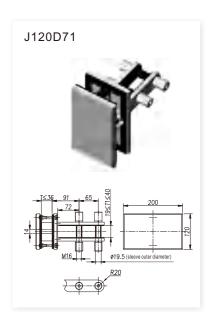


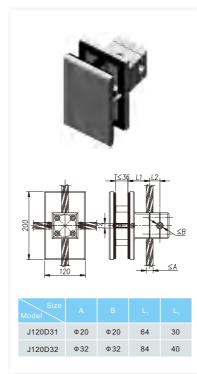
	Main materia	al: CF8M, CF8	
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
33,233.7	16000	3000	Fy

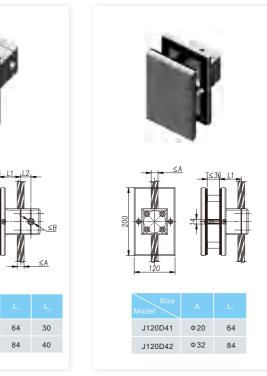
J120D Series (rectangle shape)

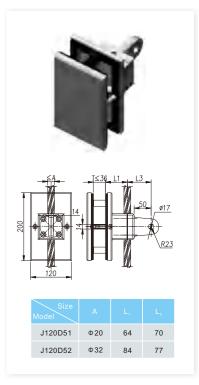












	Main material:	CF8M, CF8	
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
	16000	4000	Fy

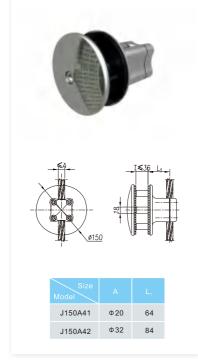
J150A Series(round shape)

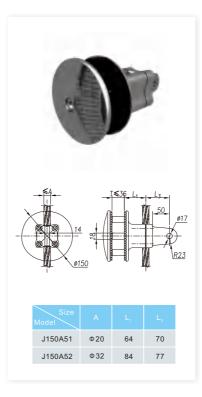


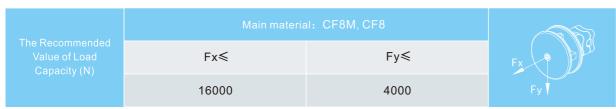






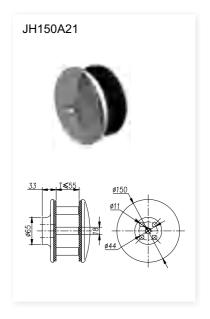




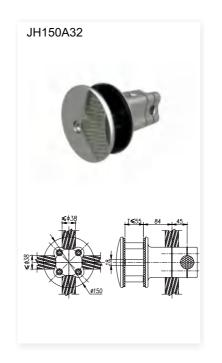


JH150A Series (round shape)

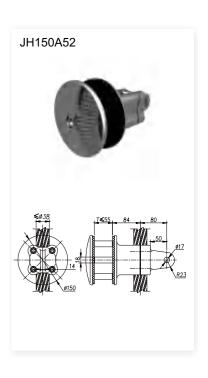






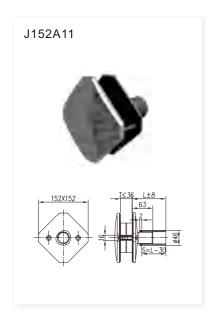


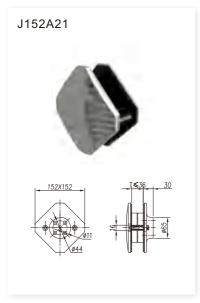


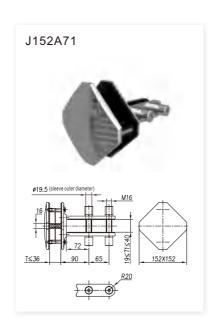


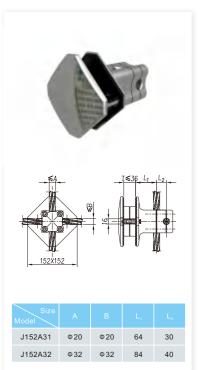
	Main material: CF8M, CF8		
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
	16000	6000	Fy♥

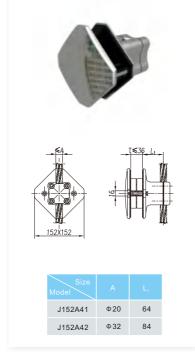
J152A Series(rhombus shape)

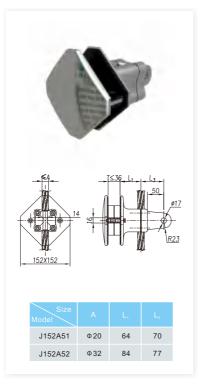


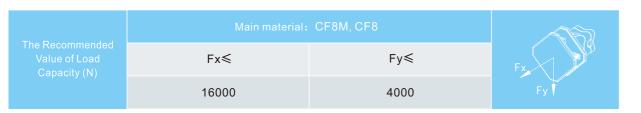




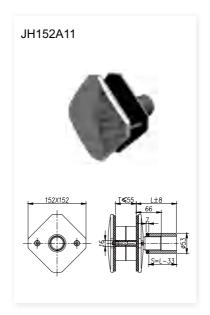


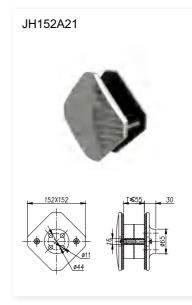


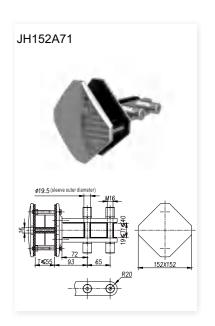


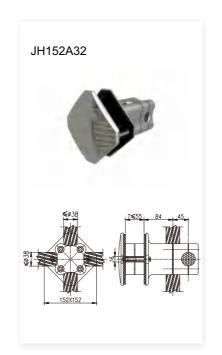


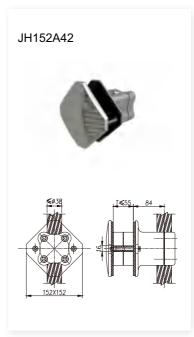
JH152A Series (rhombus shape)

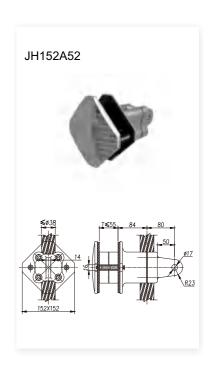






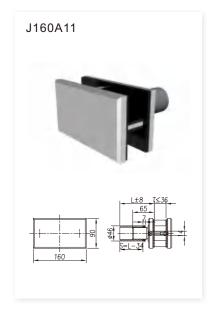


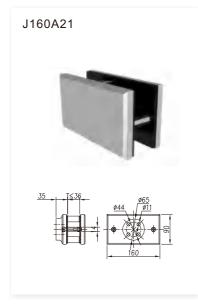


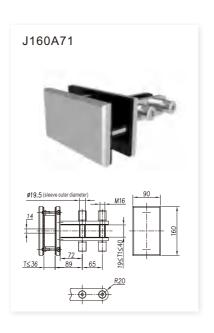


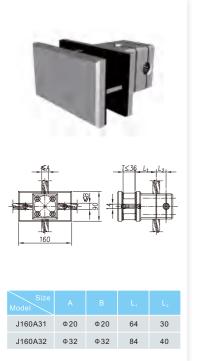
	Main material: CF8M, CF8		
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx.
Gapacity (iv)	16000	6000	Fy

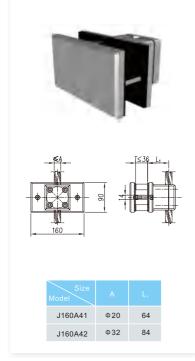
J160A Series(rectangle shape)

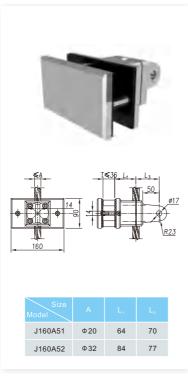


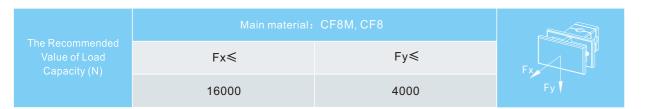




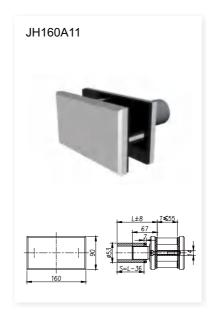


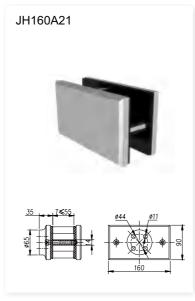


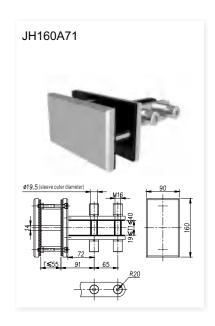


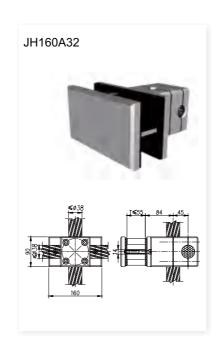


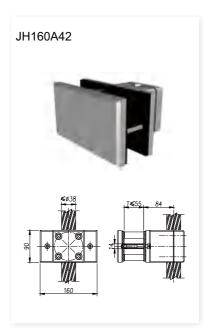
JH160A Series (rectangle shape)

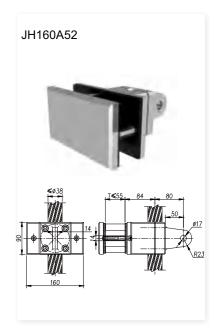












	Main material: CF8M, CF8		
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
Сараску (М)	16000	6000	Fy

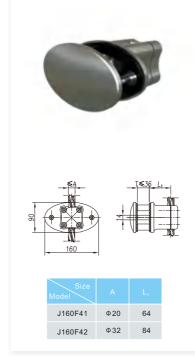
J160F Series(oval shape)

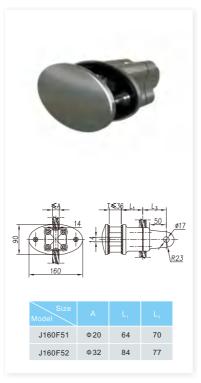






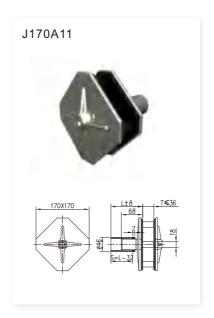


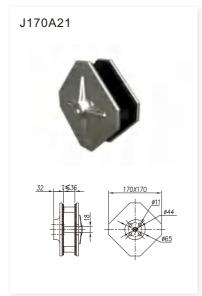




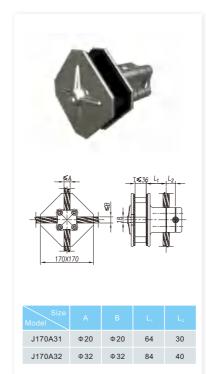
	Main material:		
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
	18000	4000	Fy

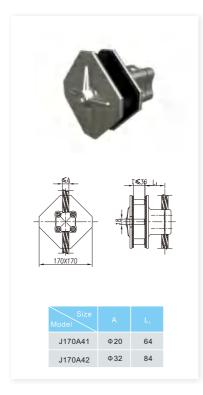
J170A Series(rhombus shape)

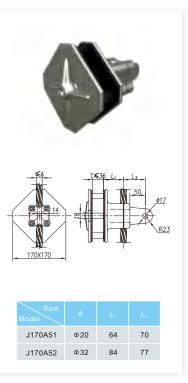






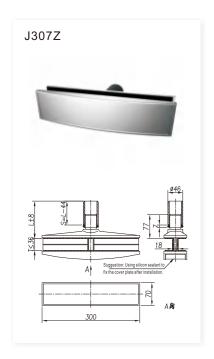


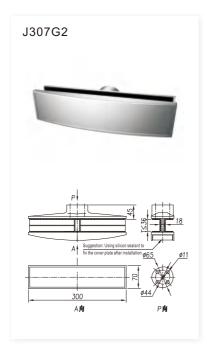


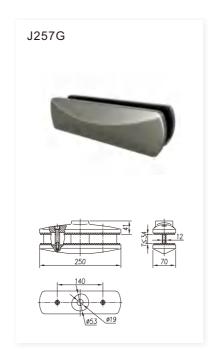


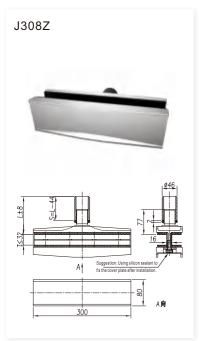
The December deal	Main material		
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
oupacity (iv)	16000	4500	Fy

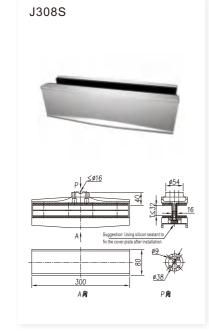
Rectangle Series

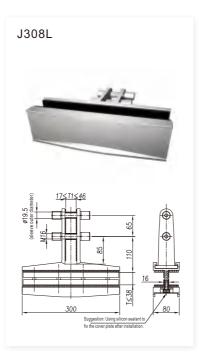






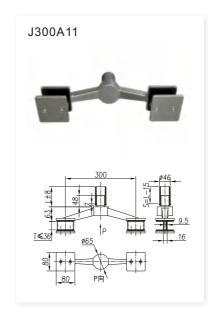


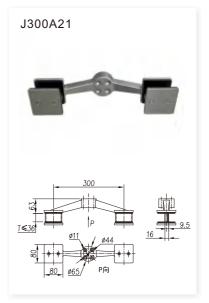


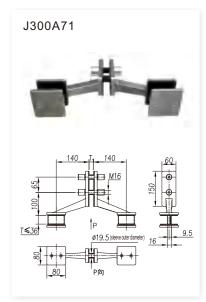


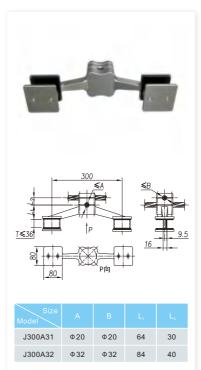
The Recommended Value of Load Capacity (N)	Main material		
	Fx≤	Fy≤	Fx
Supporty (11)	27000	8000	Fy

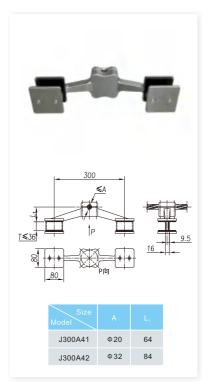
J300A Series(shape of spider)

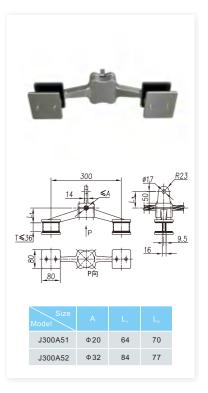






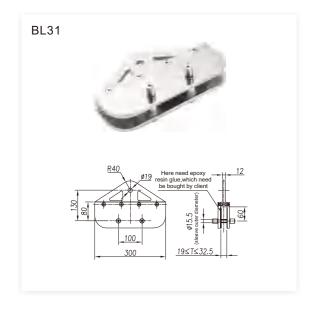


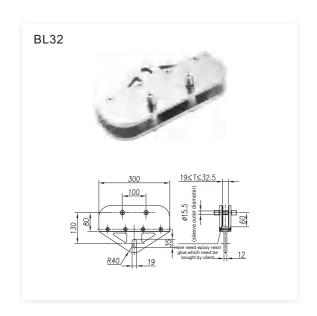


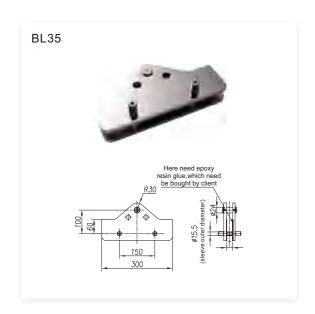


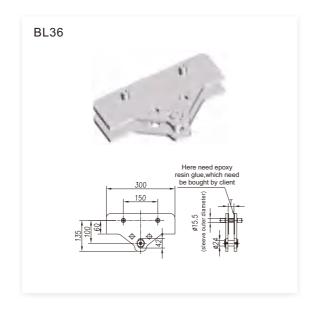
The Decemmended	Main material		
The Recommended Value of Load Capacity (N)	Fx≤	Fy≤	Fx
Supusity (11)	5000	2500	Fy †

Glass Fin Suspending Clamp



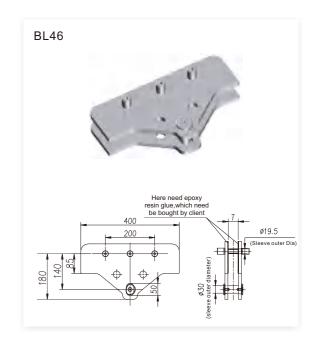


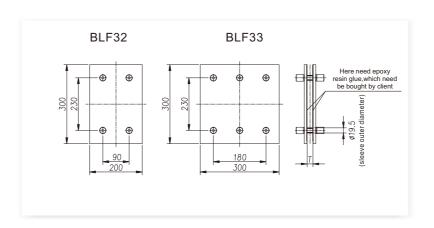


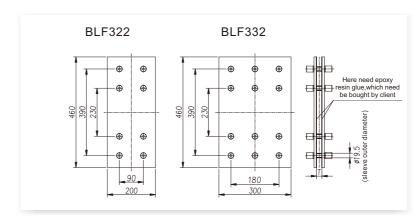


	Model	Main material: CF8M/316, CF8/304		
	Wiodoi	Fx≤	Fy≤	
The Recommended Value of Load Capacity (N)	BL31	12000	12000	
	BL32		1	
	BL35	15000	15000	Fx.
	BL36	13000	1	/ Fy ∤
	BL45	22000	22000	
	BL46		1	



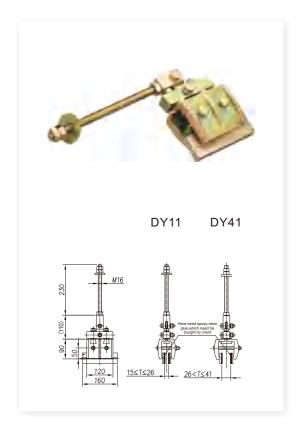


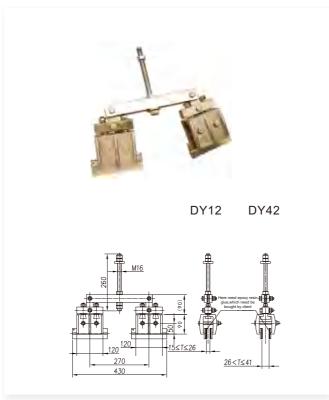


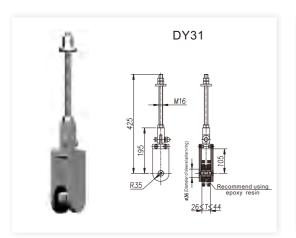


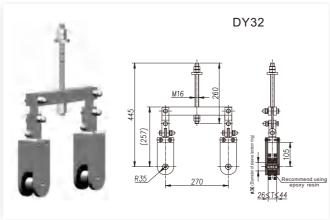


Glass Fin Clamp





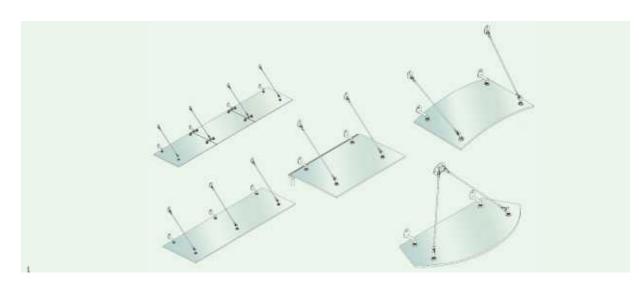


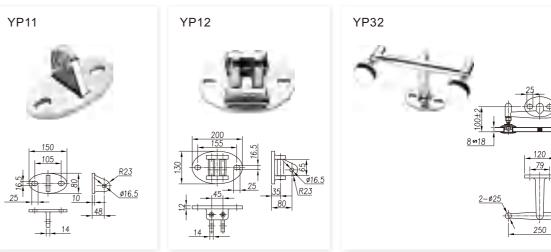


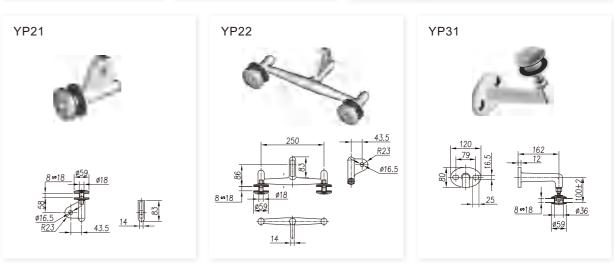
The Recommended Value of Load Capacity (N)							
Material		Carbon steel 31					
Model	DY11	DY11 DY12 DY41 DY42					
Bearing Capacity(N)	ng Capacity(N) 4000 7000 4000 7000 600						

Note: This product can not bear the horizontal load.

Canopy Fittings

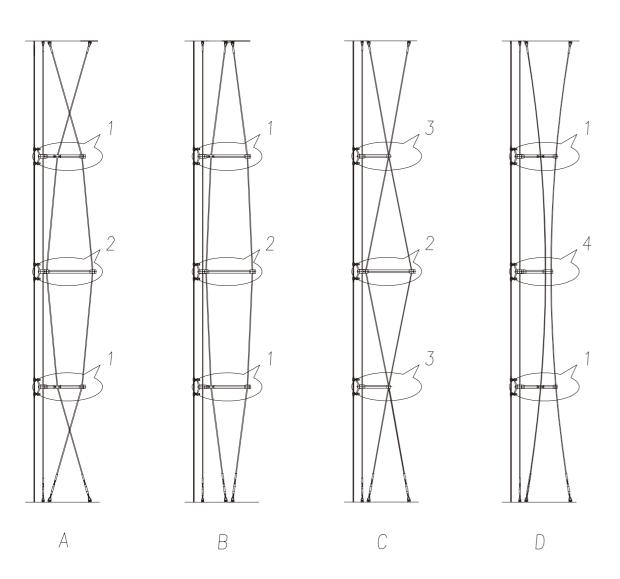






Note: The above fittings are used together with standard Q01A-16 or Q01B-16 anchor.

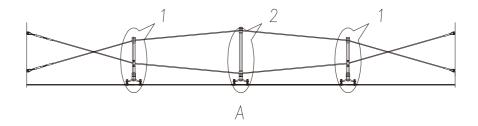
Common Forms of Supporting Structure with Tension Cable($\[\] \]$

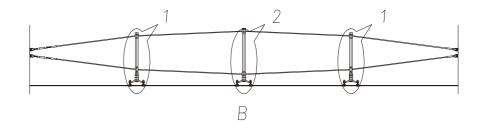


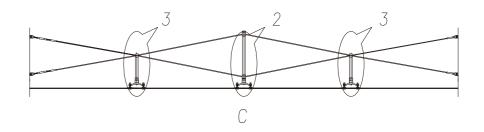
Forms of Vertical Cable Arrangement

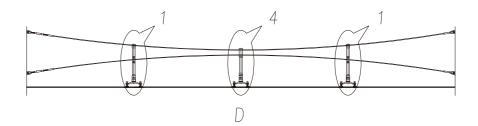
Available support bar type at node 1	SSA-21, SSA-22
Available support bar type at node 2	SSA-11, SSA-12
Available support bar type at node 3	SSA-31, SSA-32
Available support bar type at node 4	SSA-41

Common Forms of Supporting Structure with Tension Cable(${ m II}$)





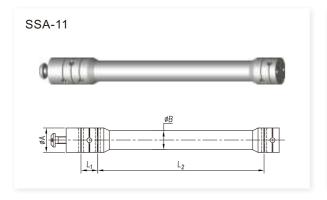


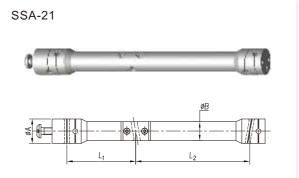


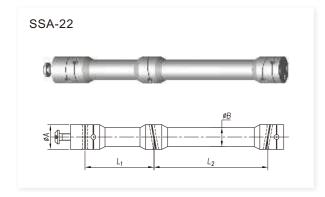
Forms of Horizontal Cable Arrangement

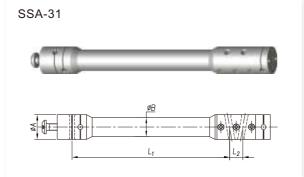
Available support bar type at node 1	SHA-21, SHA-22
Available support bar type at node 2	SHA-11, SHA-12
Available support bar type at node 3	SHA-31, SHA-32
Available support bar type at node 4	SHA-41

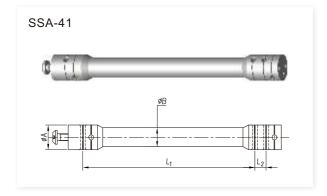
The Strut Bar of Tension Cable

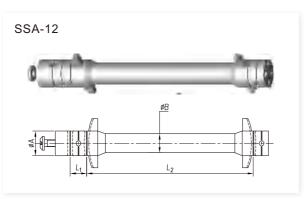


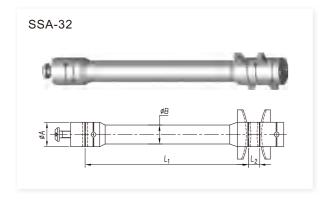


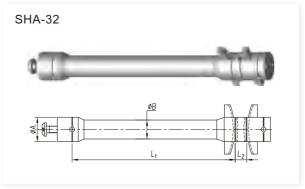


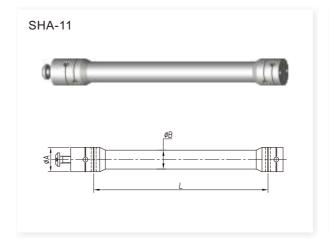


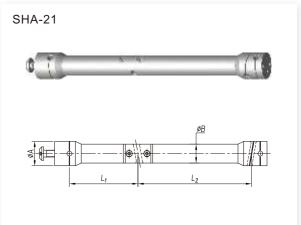


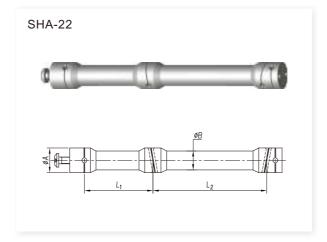


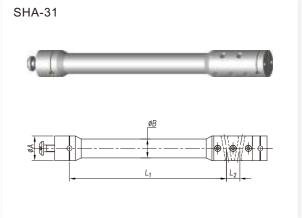


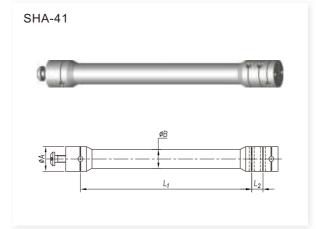


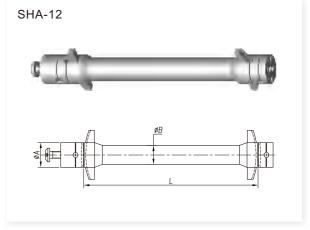








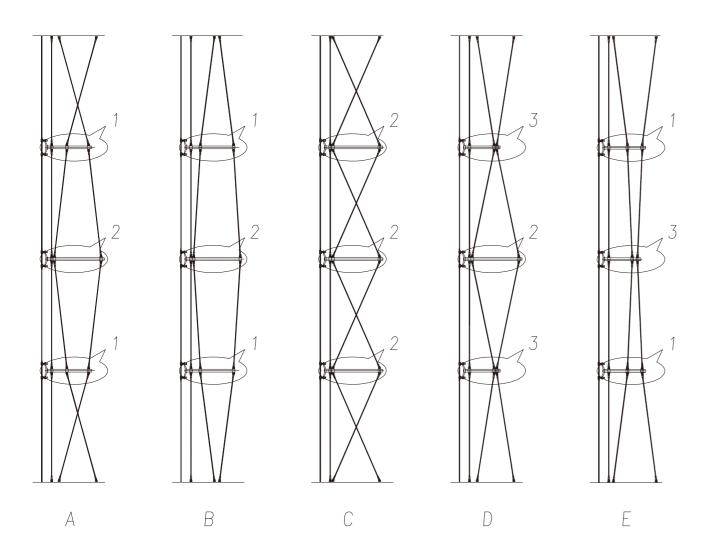




Notes:

- 1. There are two types of diameter of lock block $\,\Phi$ A: $\,\Phi$ 65 and $\,\Phi$ 75, select proper one according to the diameter of cable.
- 2. There are two specifications of the joint sleeve $\,\Phi$ B of the strut : $\,\Phi$ 50X5 and $\,\Phi$ 60X8, the exact dimension is based on the calculation.

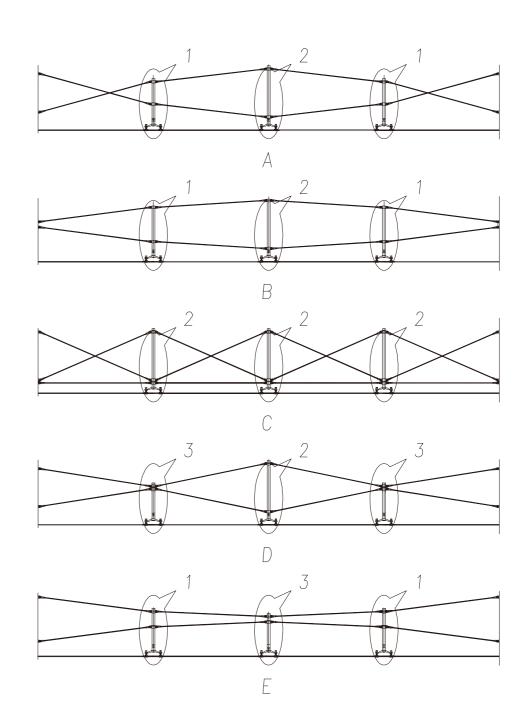
Common Forms of Supporting Structure with Tension Rod(${\tt I}$)



Forms of Vertical Rod Arrangement

Available support bar type at node 1	GA-2, GB-2
Available support bar type at node 2	GA-1, GB-1
Available support bar type at node 3	GA-31, GA-32, GB-3

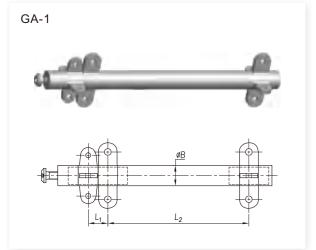
Common Forms of Supporting Structure with Tension Rod(${\mathbb H}$)

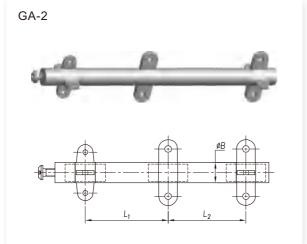


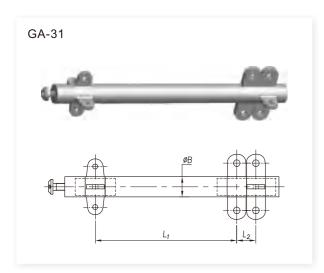
Forms of Horizontal Rod Arrangement

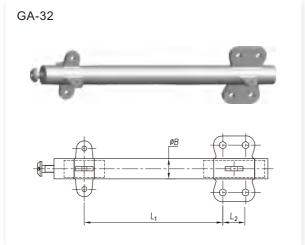
Available support bar type at node 1	GA-4
Available support bar type at node 2	GA-1, GB-1, GA-5
Available support bar type at node 3	GA-61, GA-62

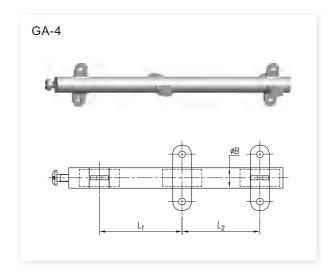
The Strut Bar of Tension Rod

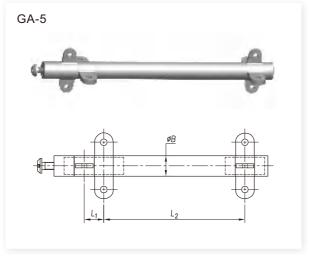


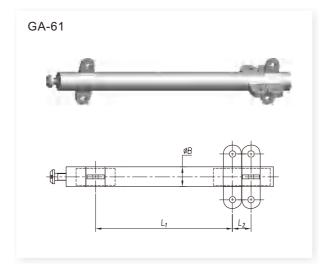


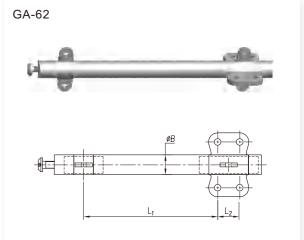


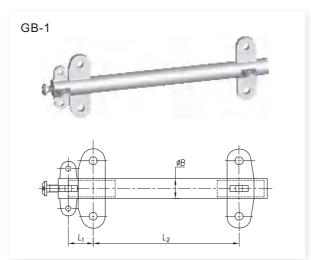


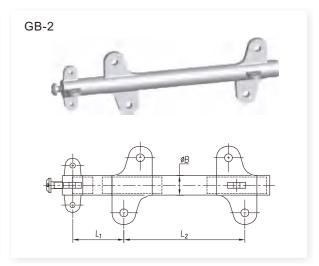


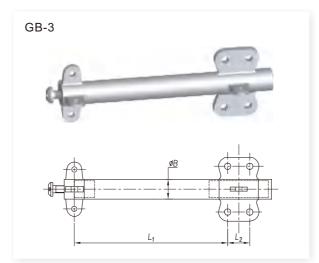














Note: The otic placode of strut bar is depended on the size of tension rod. Two specifications $(\Phi B = \Phi 50x5 \& \Phi 60x8)$ are available for the connecting sleeve ΦB of strut bar.

Stainless Steel Tension Rod



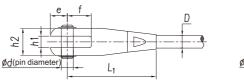
Material

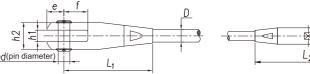
Product Type	Screw Rod	Fastener	Tension Rod Joint	Product Range
Q01A Series	316, 304	316, 304 (A4-70, A2-70)	CF8M, CF8	Ф10-Ф36
Q01B Series	316, 304	316, 304 (A4-70, A2-70)	CF8M, CF8	Ф10-Ф36

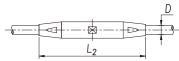
The parameters of the rod body

No.	(mm)	Effective Secion Area	Yield Strength	Tensile Strength	Elongation
1	M10	57.99			
2	M12	84.27			
3	M14	115.44			
4	M16	156.67			
5	M18	192.47			
6	M20	244.79	515	650	≥25
7	M22	303.40	313	030	<i>≥</i> 23
8	M24	352.50			
9	M27	459.40			
10	M30	560.59			
11	M33	693.60			
12	M36	816.72			

Model







Pin fixed by snap spring for diamter $d \le M22$ Pin fixed by screw for diameter d > M22

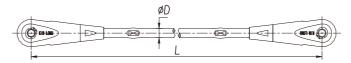
adjustable sleeve

Specification

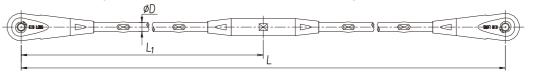
Specific	ation									
Туре	OD of Screw	D			h₁	h ₂			d	Single Side Adjustment Capacity
Q01A-10	M10	ф9	18	23	11	26.5	100	155	13	
Q01A-12	M12	ф10.8	18	23	11	26.5	100	155	13	
Q01A-14	M14	Ф12.6	20	25	13	31	108	166	15	±12.5
Q01A-16	M16	ф14.6	23	28	15	35	117	179	16	
Q01A-18	M18	Ф16.3	25	35	17	40	130	199	18	
Q01A-20	M20	ф18.3	30	35	17	42.5	138	211	20	
Q01A-22	M22	ф20.3	32.5	42	21	47	148	211	22	
Q01A-24	M24	ф24	38	48	21	53	170	244	24	±14
Q01A-27	M27	Ф27	43	52	25	60	182	254	27	
Q01A-30	M30	ф30	47.1	60	25	65	195	265	30	
Q01A-33	M33	Ф33	49.5	65	27	68	205	285	33	±17.5
Q01A-36	M36	Ф36	56.5	72	29	76	220	295	37	±17.5
Q01B-10	M10	ф9	16.5	23	11	21	58	115	13	
Q01B-12	M12	ф10.8	18.1	23	11	23	61	117	13	
Q01B-14	M14	Ф12.6	19.9	25	13	28	66	124	15	
Q01B-16	M16	ф14.6	22.7	28	15	32	76	131	16	
Q01B-18	M18	Ф16.3	26	35	17	35	84	153	18	
Q01B-20	M20	ф18.3	28.7	35	17	37	89	155	20	±5
Q01B-22	M22	ф20.3	31.6	42	21	45	103	157	22	±5
Q01B-24	M24	ф24	33.2	48	21	47	110	184	24	
Q01B-27	M27	Ф27	37.8	52	25	54	123	198	27	
Q01B-30	M30	ф30	43.6	60	25	56	134	205	30	
Q01B-33	M33	Ф33	47.5	65	27	62	147	219	33	
Q01B-36	M36	ф36	50.8	72	29	68	160	231	37	

Order Instruction

The Length of the tension rod is from pin to pin.



When the tension rod length > 6m, please connect as the following picture.



The Stainless Steel Cable With Squeezed Anchor

Material

Type Product	Steel Strand	fastener	Swaged End With Adjustor,Lock Pin	Anchor	Product Range	
A01、B01、M01	316/2205	316(A4-70)	2205	CD3MN	ф 8- ф 36	

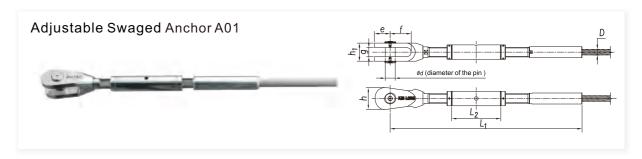


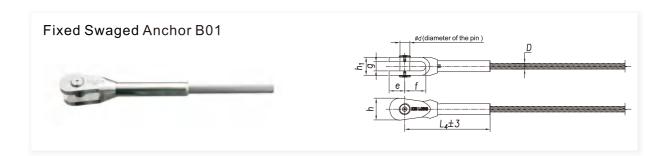
Performance Parameter

Cable Diameter (mm)	Reference Configuration	Steel Wire Diameter (mm)	Sectional Area (mm²)	Minimum Breaking Force(kN)	Modules Elasticity (10⁵N/mm²)
8		1.60	38.20	45.38	
10	1710	2.00	59.69	70.91	
12	1X19	2.40	85.95	102.11	
14		2.80	116.99	138.99	
16		2.29	152.39	181.04	
18	1X37	2.57	192.15	225.68	
20		2.86	237.22	278.62	4.00±0.40
22		2.44	286.27	336.23	1.30±0.10
24	1X61	2.67	340.69	400.14	
26	1701	2.89	399.84	469.61	
28		3.11	463.71	544.63	
30		2.73	531.60	624.37	
32	1701	2.91	604.85	710.39	
34	1X91	3.09	682.82	801.97	
36		3.27	765.51	899.09	

Note: Besides the above mentioned tension cables, we also can fabricate the cable with higher strength. Send your enquiry if in need.

Model

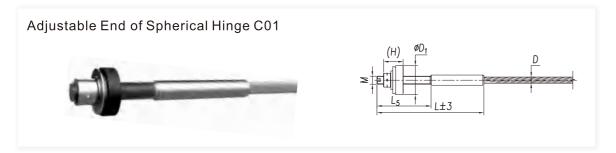




Specification

	2205 Anchor(A01/B01)											
D	d	g										
Ф8	12	11	22	20	24	28	≤275	80	107			
ф10	14	13	26	23	30	32	≤305	80	134			
ф12	16	15	30	26	34	36	≪442	125	163			
Ф14	20	18	36	32	42	44	≪466	125	191			
ф16	22	20	40	36	46	50	≪492	130	209			
ф18	24	23	46	39	52	54	≤523	130	237			
ф20	27	25	50	43	58	60	≤655	175	262			
ф22	30	27	54	48	65	68	≤684	175	294			
ф24	33	29	58	53	74	76	≤728	180	321			
ф26	33	32	64	53	74	76	≤746	180	339			
ф28	36	34	68	58	80	82	≤778	185	364			
Ф30	39	37	74	62	88	88	≤935	230	394			
ф32	42	40	80	67	94	96	≤955	230	417			
ф34	45	42	84	72	100	102	≤992	235	442			
ф36	50	45	90	77	106	110	≤1016	235	464			

Model



Note: Material of ball joint seat is carbon steel.



Specification

2205 Anchor(M01/C01)											
D	M	L	L ₅	D ₁	Н	L ₂	L₃				
Ф8	M12	158	90	55	38	80	≤304				
Ф10	M16	178	92	55	42	80	≤342				
Ф12	M18x2	228	119	65	48	125	≤497				
Ф14	M20x2	250	124	70	53	125	≤523				
Ф16	M22x2	270	132	70	57	130	≤552				
Ф18	M24x2	294	140	70	60	130	≤596				
Ф20	M27x2	350	177	85	67	175	≤736				
Ф22	M30x2	378	187	100	74	175	≤773				
ф24	M33x2	398	190	100	78	180	≤819				
Ф26	M33x2	413	190	100	78	180	≤855				
Ф28	M36x3	453	212	115	86	185	≤893				
Ф 30	M39x3	502	245	115	90	230	≤1061				
Ф 32	M42x3	528	255	130	98	230	≤1084				
Ф34	M45x3	553	263	140	107	235	≤1124				
Ф36	M48x3	573	268	140	108	235	≤1163				

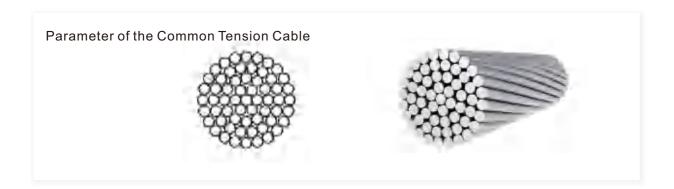
The Stainless Steel Cable with Casting Anchor "Easy extension" Series

Material

Product Type	Steel Strand	fastener	Swaged End With Adjustor,Lock Pin	Anchor	Product Range
G02、H02、K02	316/2205	316 (A4-70)	2205	CD3MN	ф30- ф100

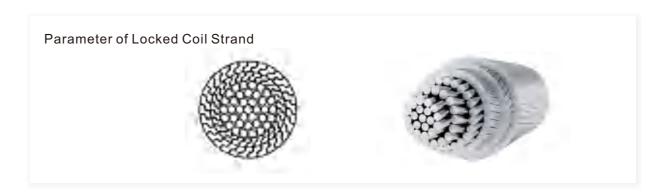






Cable Diameter (mm)	Reference Configuration	Steel Wire Diameter (mm)	Sectional Area (mm²)	Minimum Breaking Force (kN)	Modules Elasticity (10°N/mm²)
30		2.73	531.60	693.74	
32		2.91	604.85	789.33	
34		3.09	682.82	891.07	
36		3.27	765.51	998.99	
38	1x91	3.45	852.93	1113.07	
40		3.64	945.07	1233.32	
42		3.82	1041.94	1359.74	
45		4.09	1196.11	1508.89	
48		4.36 1360.91		1716.78	
52	1x127	4.00	1595.93	2013.26	1.30±0.10
56	17121	4.31	1850.90	2334.91	1.30 ± 0.10
60	1x169	4.00	2123.72	2648.27	
65	12103	4.33	2492.42	3108.04	
70	1x217	4.12	2889.67	3603.42	
75	1x271	3.95	3316.46	4135.62	
80	1/2/1	4.21	3773.39	4705.42	
85		4.05	4259.09	5311.09	
90	1X331	4.29	4774.90	5954.30	
95	17.001	4.52	5320.18	6634.27	
100		4.76	5894.94	7350.99	

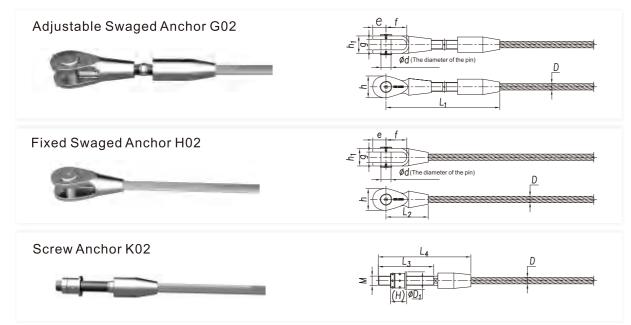
Note: Besides the above mentioned tension cables, we also can fabricate the cable with higher strength. Send your enquiry if in need.



Cable Diameter (mm)	Sectional Area (mm²)	Minimum Breaking Force(kN)	Modules Elasticity (10⁵N/mm²)
30	549.91	710.60	
35	737.40	969.00	
40	968.12	1293.90	
45	1268.29	1641.60	
50	1578.22	2039.65	
55	1928.95	2469.05	
60	2264.12	2880.40	1.30±0.10
65	2703.15	3456.10	1.30 ± 0.10
70	3210.94	3960.55	
75	3621.01	4472.60	
80	4066.54	5195.55	
85	4611.63	5526.69	
90	5163.78	6188.40	
95	5729.24	6866.06	
100	6339.34	7597.22	

Note: Besides the above mentioned tension cables, we also can fabricate the cable with higher strength. Send your enquiry if in need.

Model



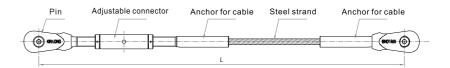
Note: Suggest to use spherical hinged shim at screw end.

Specification

D	d	g	h ₁	е	f	h	L ₁	L_2	L ₃	L ₄	Н	D ₁	M
Ф30	46	50	84	64	99	104	≤ 630	205	250	435	77	85	M45
Ф32	50	53	89	68	105	112	≤673	220	260	456	83	92	M48
Ф34	52	57	95	71	112	116	≤701	230	269	472	84	98	M52
Ф36	56	60	100	76	115	124	≤ 729	236	280	493	93	105	M56
ф38	60	63	106	81	118	132	≤ 758	250	290	509	93	105	M56
ф40	62	65	111	85	132	138	≤ 797	262	300	530	99	110	M60x4
φ42	66	70	117	88	138	145	≤ 817	280	305	541	99	110	M60x4
Ф45	70	75	125	95	148	155	≤ 875	300	318	568	101	115	M64
ф48	74	80	132	100	156	165	≤ 944	320	330	595	105	120	M68
Ф52	80	85	144	108	170	178	≤994	340	360	647	120	125	M72x6
Ф56	88	93	154	117	185	192	≤1063	370	380	684	127	140	M80x6
Ф60	94	100	166	126	196	206	≤1122	395	395	710	130	145	M85x6
ф65	102	108	180	136	214	222	≤1205	435	411	756	136	160	M90x6
Ф70	108	117	194	147	230	240	≤1285	460	435	806	144	175	Tr100x6
Ф75	116	125	208	158	246	258	≤1360	500	455	855	164	180	Tr105x6
ф80	124	133	222	167	263	275	≤1413	530	460	880	169	185	Tr110x6
Ф85	132	141	236	177	280	292	≤1460	556	470	910	176	200	Tr115x6
Ф90	140	150	250	190	296	310	≤1528	595	485	950	181	210	Tr120x6
ф95	148	159	263	200	312	327	≤1593	625	485	985	191	220	Tr130x6
ф100	156	167	278	210	328	344	≤1652	660	490	1005	198	230	Tr135x6

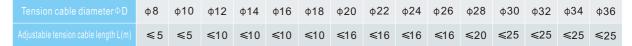
Notes: The above specifications are the corresponding sizes of ordinary cables. For the specifications and sizes of locked coil strand, please consult our company

Order Instruction



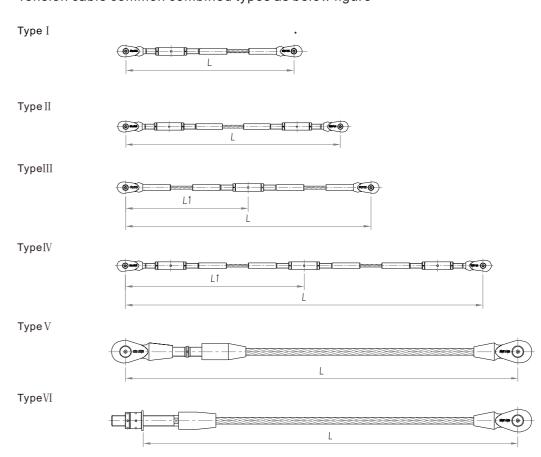
When order the products, please pay attention to the following:

- 1.L is the length as your requirement.(L means pin to pin).
- 2. The below format is the cable length that one adjusting end normally can adjust(L), if the needed cable length is more than L of the below format, it needs to add adjusting anchors or consult KIN LONG company.



- 3. When purchasing this product, please provide the value of pretension force.
- 4.For Φ 8 and Φ 10 cable ,the anchor is hexagon.

Tension cable common combined types as below figure





Stainless Steel Tension Cable Using Instructions

Stainless steel tension cable has high strength, good corrosion resistance, and high stiffness characteristic.

Brightness appearance can maximum reflect metallic texture. It gets most of architects & clients approval.

Therefore, stainless steel tension cable gets widely application in construction cable structure. In order to avoid abnormal appearing, we suggest paying attention to following points during the using:

1.Storage:

After the tension cable ship to the construction site, it shall be inspected as soon as possible.

If not use immediately after the inspection qualified, the product should be still kept in the original packaging box, and then deposits it according to the following conditions:

- (1) Tension cable deposit location should be indoors, storage environment should be ventilated, dry, no acid, alkali, salt and water vapor in high temperature which bad medium could lead to a stainless steel getting rust. Such as the storage time more than one month, then half a month need to unpacking check regularly, to check if the surface is rust. If there is any rust, need to find and eliminate the cause of the corrosion products, when the reason belongs to the storage environment, its location should be changed to another proper one.
- (2) If the indoor storage conditions are not available, except pay attention to the above attentions, still need to make waterproof protection. In addition to the storage area to build above canopy or cover rain wear prevention, bottom should also be padding to prevent rainwater from the bottom into the boxes. Such as packing is wet, the product must be cleaned and change a new deposit box. When in outdoor storage, the inspection cycle should be reduced to a week.
- (3) For the tension cable in the installation stage, after be take out from inside packing, packing boxes shall be kept for a period of time. The rest tension cables must be stored in the original packaging box; In case the tension cables need to be return or repair back to our company, they also need to use the original package.

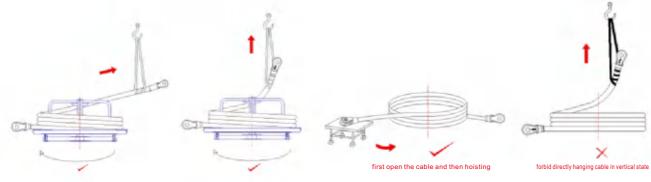
2. Installation

(1) When lifting, please check rotating situation of the cable adjustable connecting screw. Without the stress state, the threaded connecting of tension cable should be smoothly.

If can't goes smoothly, then should find the reason and eliminate them. Common problems are like screw thread out of shape, screw thread damage, having sand & soil on the screw thread. Solve measures have file maintain, clear with steel brush, change the accessories etc.

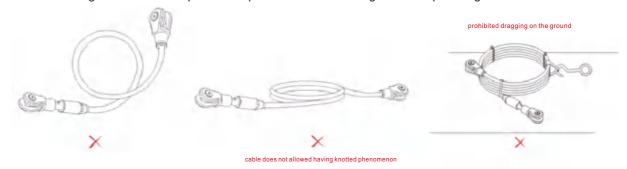
If the problems can not be solved accordingly on the construction site, please contact us timely.

(2) When lifting tension cable on the construction site, small diameter cable should be lifted against the cable bight direction, and after it becomes straight, then make the lifting installation. For big diameter cables should be put on the cable release tray, then spin the cable release tray while lifting. The lifting speed should keep the same with the speed of cable release tray, which can guarantee the cable be lift with natural state. Prohibit vertical lift directly before the cable with the natural state. If the cable being a spiral state when lifting, then the lifting work must be stop immediately. It can go on only after the spiral state turn to natural state. If there is no cable release tray is available on the construction site, then it needs to use folk truck to lift or manpower to lift and rotate. What's more, two anchors on both sides should be taken reference protecting when lifting. The external cable protect layer should not fall off or be damaged, which can prevent scratching and crashing.



- (3) There is no need to put the cables on cable release tray if the cable is short or have the enough places. Concrete operations are: keep the cable tray without move, lifting the cable anchor on the outer ring up from the cable tray opposite spin and expansion, then begin the lift step.
- (4) Once improper lifting operation caused the warp, wire skip, loose strands, injured, it need to inform the professional to check whether can keep using or not.

After the cable lifting at proper position, confirming the length, dimension and no need to dismounting, then coating the screw fasten glue in the screw part of the pin bolt and also using 3N·m torque to tighten the bolt.



3. Construction protection:

- (1) Tension cable should be handled gently on the construction site, prohibit throwing and dropping products, in order to avoid collision between products or damaged by other hard products; During the installation processes, the product should also be well protected to prevent scratches and bruises, especially the thread part of the tension cable.
- (2) When the stainless steel cable is installed, the welding cross operation should be avoided as far as possible. If unavoidable, protection measures should be taken to avoid welding spark or welding slag to splash down to the surface of the tension cable. Particular attention is that cable can not be used as a welding conductor.
- (3) If there are multi-cross operations on the construction site, during the installation process or installation process, product all must be make good protection. To avoid the other type of works materials, such as cement mortar, coating and other pollutants in contact with the surface of stainless steel cable, making the surface contamination or rust. If the improper protective caused the products getting pollution and corrosion, clients should consult our company the remove scheme, after clearing there need to do further strengthen protection.

4. Maintenances:

(1) Surface cleaning:

Stainless steel is point to in the air, water, salt water, acids, alkalis and other corrosive medium, the steel with high chemical stability, but that doesn't mean stainless steel does not rust or getting corrosion. When in the engineering use stage, the product surface accumulation of dust and other pollutants are likely to lead to stainless steel corrosion, and even rupture caused by corrosion. Therefore, stainless steel tension cable must be regularly clean and daily cleaning. Regular cleaning cycle should not be more than one year; daily cleaning cycle depending on the type of surface contaminants and if has led to the product surface rust. If you can confirm the contaminant on the surface of products, that can cause product corrosion or rust, have to surface cleaning, and rust removal at any time. On account of the wire of stainless steel cable is pore structure; therefore, it can not be clear with water, detergent etc liquid in the steel wire directly. Its better dries the wet towel or uses few clear liquid to clearing with soft fabric.

Please pay attention to the following points when taking maintenance processing:

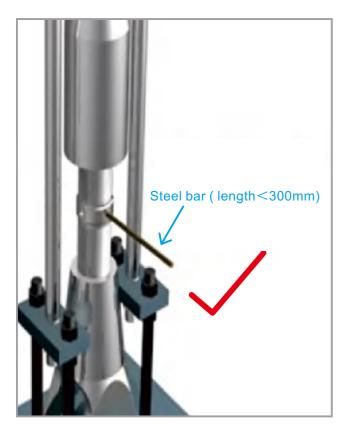
- ① In any case, the surface of stainless steel can not be cleaned with chlorine-containing solution (such as bleach solution, disinfectant 84, etc.). When chlorine-containing solution be used for other purpose (e.g. disinfection), the stainless steel should also be in a good protection.
- ② Stainless steel gets rust is not only concerned with pollutants, but also with the ambient temperature, humidity, atmospheric composition and so on. If in the case of no obvious pollutants, the stainless steel also gets corrosion, in addition to do timely rust cleaning, but also need to find the specific cause of the product rusty, in order to take appropriate measures.

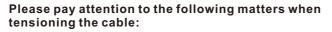
(2) Others:

This manual unsettled the product maintenance and care matters (such as prestress inspection and adjustment, etc.), need to carry on according to the current industry standard glass curtain wall engineering specifications, the relevant provisions.

96/97

Tension instructions of "Easy Tension" series stainless steel tension cable





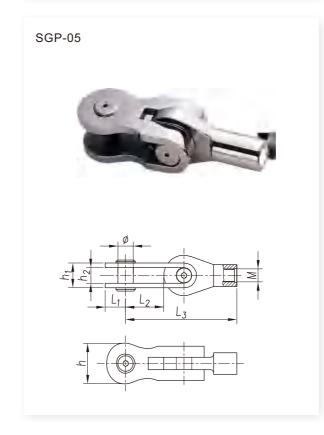
- 1. Before tensioning, the thread should be checked again and remove the attached sand, welding slag and so on.
- 2. Before tensioning, it should be guaranteed the exposed thread length is the same as shown in the diagram.
- 3. Cable tension must use special tension tools.
- 4, During tension process, it is recommended to use bare hands or the bellowing steel rod (L\less 300mm) inserted into the screwdriver hole for rotation. Under normal circumstances, one hand can easily turn the screw (no more than 5KG force). If the above method can not easily turn the screw, it may cause by using improper tensioning tools or improper adjustment, at this moment it should be readjusted or consults our company.
- 5. Under any circumstances, no force rods can be applied on steel rods or using chain wrench, pipe wrenches and similar tools to do the screw rod turning process. Failure to follow the above attention matters could result in subsequent tension difficulties or product damage. If this happens, KIN LONG company will not assume any responsibility.

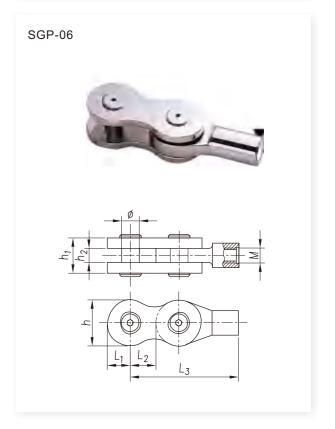


Typical Fittings for Cable





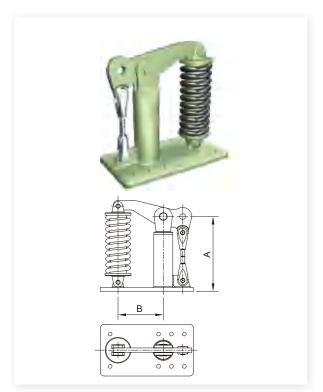




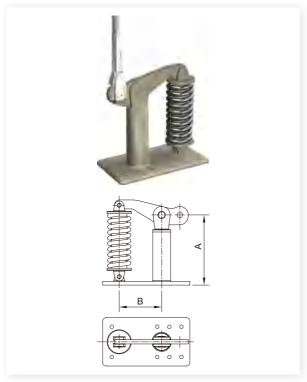




Overload Protection Device



Pretension Keeping Device



Customized Products

With the development of architecture technology and the promotion of green building around world, stainless steel, a green construction material, has been used frequently in many kinds of contructions. Owning a strong design team and many years of experience in manufacture of stainless steel architectural fittings, KIN LONG has made a large number of stainless steel conneting fittings for many customers at home and abroad in recent years. Please contact our representative office all around the world if you need any stainless steel connecting fitting, and we will be delighted to serve you.







Project name: Qingdao Blue Silicon Valley Rail Transit Express

This project is located in Laoshan District of Qingdao city and Jimo city territory, the starting point for the Laoshan Miaoling Road and Shenzhen Road junction, along Miaoling Road, Binhai Highway, Datian Road and Gaoyu River to the north to set site, the end is the Daqiao saltern of Jimo city. The total length is 58.44 km, reserved the conditions of Tianheng town extended to Haiyang city. The whole line adopts overhead laying method. There are 1 underground line at the starting point, about 5km; 3 mountain tunnels; 1 Xianzi tunnel 700m; 1 Laoshan tunnel 4.58km; 1 short tunnel 508m. There are 22 stations along the line, including 4 underground stations and 18 elevated stations. On this project, KIN LONG provided 16,000m non-standard steel pipe products, more than 3,000 sets of non-standard spherical joint hinge connection device.





Project name: Hong Kong Opera Center

The project is located in the prime area of Hong Kong's WKCD east, which is the Canton Road and Austin Road West border, covering an area of 13,800 square meters. It is the earliest open venue for the 17 core arts and cultural facilities in the West Kowloon Cultural District and will provide a platform for interaction among the theater industry. As the east gate of a tourist visiting cultural area, the whole building is like a beautiful lantern with the traditional Chinese moon-shape arch. The exterior design is full of energy and vitality. The smooth appearance and the space arrangement all show a concept of "qi". KIN LONG has provided more than 24,000 sets of non-standard shaped connector products for this project, and the product material is duplex stainless steel.

Zhenjiang Sports International Convention and Exhibition Center





Beijing Golden Center





Beijing Tsinghua Science Park

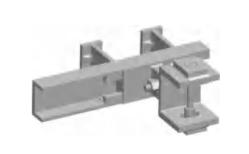






HK West Kowloon

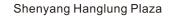
Shenzhen Stock Exchange





Shijiazhuang Airport

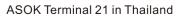






HTC Headquarters Mansion in Taiwan







Shanghai Zhongjian Building



Middle East Petroleum Building in Abu Dhabi



































Satinless Plate & Structral System Products

Stainless steel fin fixed-point supporting glass curtain wall is an important expression of tactics of the building envelope structure, crystal clear walls so that indoor and outdoor mutual response, fusion through, the unique spatial characteristics makes the building perfectly showing its charm. Because of its simple and transparency, large span, wide vision, in the new building it has been widely used, gained the favor of architects. After years of development, KIN LONG already has the design and processing ability of large-size steel plate and structural customized parts, provided technical service and high quality products for many projects. If you're interested in this series products, please contact our local office, we will sincerely service you all.

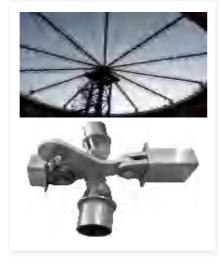




Projects name: Shenzhen Hongfa Xixiang Commercial Center Renovation Project

This project is located in Xixiang Street, Bao'an District, and Shenzhen city. The total renovation project covers a construction area of more than 800,000 square meters. It is an upscale living area, commercial and commercial service area of integrating business, residence and office functions with a total investment of about 1.5 billion yuan. The first phase of the sales office curtain wall adopted ribs supporting glass curtain wall structure, the curtain wall area is about 900 square meters, arc shape, horizontal span of about 30m, and about 34m high. In order to improve the safety performance of the entire curtain wall and beautify the visual effect, the structure form of the glass curtain wall is a combination of a horizontal stainless steel rib, a vertical glass rib and a vertical parallel stabilizing rod. KIN LONG provides stainless steel rib (single panel with 1.6 tons), customized clamps and customized tension rods, etc..





Project name: Iran Commercial Mall

This project has a total construction area of 4 million square meters, a tension cable curtain wall area of about 5700 square meters, a roof area of about 4611 square meters and a dome of diameter 40 meters. It is a high-end commercial and commercial service area integrating commercial and office functions. KIN LONG provided customized structural parts (single weight of 2 tons), tension cables of φ 12, φ 16, φ 22, φ 26, φ 34, φ 40 and φ 45, routels, spiders and customized support rods, etc. for this project.

Installation Tools



Statement

- 1. We compiled this brochure carefully, and based on familiarity and understanding to our products currently, The information in this brochure is correct and workable, but if any error in this brochure, welcome to contact us.
- 2.Please be informed and understood that some contents are a little different from previous versions. We suggest selecting the products from the latest version. Please contact our local offices to check the production and storage information if the requested products are in the previous versions.
- 3. After publication, KIN LONG may update some product improvements (as applicable), which will not affect the use functions. Subject to technical changes without further notice. If you can't select suitable product parameters/ characteristics or any other doubt in the catalogue, please contact our local offices directly or access to our website www.kinlong.com for further information.