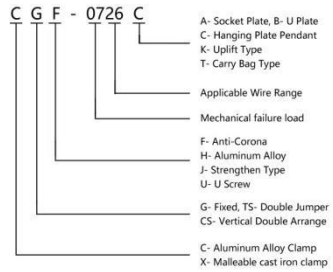
Overview

Suspension clamps are mainly used for overhead power lines. Wires are suspended from insulators or lightning conductors are suspended from pole towers through connection fittings.
Traditional malleable cast iron clamps have the disadvantages of large hysteresis loss, large hole current loss, and bulky products. The aluminum alloy clamp has the advantages of extremely small hysteresis loss and eddy current loss, light weight, and convenient construction. It meets the requirements of energy saving and consumption reduction in the national power grid transformation and construction.
When the suspension clamp is used for aluminum stranded wire and steel core aluminum stranded wire, it can be wrapped with aluminum sheathing or protective wire to protect the wire. The applicable outer diameter of the wire includes wrappings.
The clamp body and pressure plate of the CGH aluminum alloy envolope-type overhanging clamp are made of high-strength aluminum alloy and have undergone heat treatment process. There is no hysteresis effect and it has energy saving effects. It is recommended to replace the high energy consumption XGU series malleable cast iron suspension clamps.
CGF corona-proof type suspension clamp adopts anti-halo design, especially suitable for 110KV and above lines. The clamp body and pressure plate are made of high-strength aluminum alloy, and have undergone heat treatment process, no hysteresis effect, and energy saving.
XTS & CTS type suspension clamps for twin jumper conductor are adopted melleable iron casting & aluminum alloy, respectively. They are especially suitable for more than 110KV overhead transimission line; after thermal treatment, they are of hysteresis-free & energy-saving efficiency.
The energy-saving products developed by our company have passed the inspection of the Quality Inspection and Testing Center of the Ministry of Electric Power Industry, meet the requirements of GB2314 and relevant standards, and have passed the national energy-saving certification.

Percentage of suspension clamp gripping force to rated tensile force of wire:

Wire Class		Wire Structure(Aluminum Ratio)	Percent
		>1.7	12
	ACSR(Steel core aluminum stranded wire)	4.0-4.5	18
		5.0-6.5	20
		7.0-8.0	22
		11.0-20.2	24
	Steel stranded wire	Ultimate strength 1176-1274	14
	Aluminum stranded wire		30

Parameter

CGF Aluminum Alloy Corona-Proof Suspension Clamp

Type	Equivalent model	IMG	Suitable for wire diameter range	Main Dimensions(mm)				Nominal failure load	Reference weight
			(including wrapped wrapped)(mm)	H	R	C	M	(kN)	(kg)
CGF-0734K	CGF-5K	IMG 1	Φ26.0 ~ 34.0	55	17	24	16	70	3
CGF-1040K			Φ34.0 ~ 40.0	60	20	24	18	100	3.6
CGF-1046K	CGF-6K		Φ40.0 ~ 46.0	63	23	26	18	100	3.6
CGF-0734C	CGF-5C	IMG 2	Φ26.0 ~ 34.0	130	17	20	16	70	3.3
CGF-1040C			Φ34.0 ~ 40.0	140	20	22	18	100	4.1
CGF-1046C	CGF-6C		Φ40.0 ~ 46.0	153	23	20	18	100	4.3

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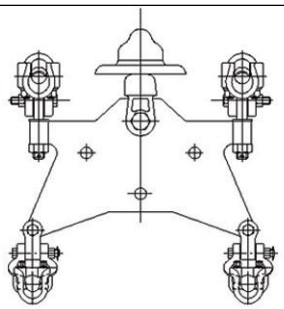
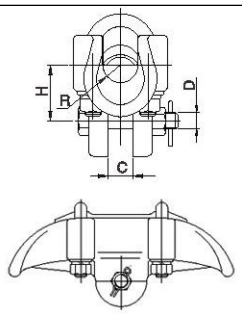
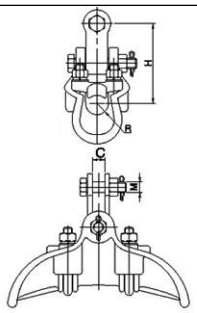


500kV single string suspension insulator string assembly drawing

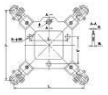


IMG 1 (Uplift Type)



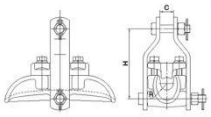
IMG 2 (Pendant Type)

XT Jumper suspension clamp

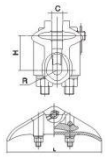
Type	Suitable for wire diameter range (including wrapper wrapped) (mm)	Main Dimensions (mm)						Reference weight(KG)	
		B	B1	Φ	L1	L2	L		
XT4-45300	Φ20.8 ~ 24.0	10	16	18	240	175	450	6.6	
XT4-45400	Φ24.0 ~ 28.0	10	16	18	240	175	450	6.6	

Type	Suitable for wire diameter range (including wrapper wrapped) (mm)	Main Dimensions(mm)						Reference weight (KG)	
		B	B1	Φ	L1	L2	L		
XTF4-45300	Φ20.8 ~ 24.0	10	16	18	240	165	450	8.6	
XTF4-45400	Φ24.0 ~ 28.0	10	16	18	240	165	450	8.6	

XLU Center Rotary Aluminum Alloy Suspension Clamp

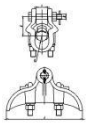
Type		Enterprise Standard model	Suitable for wire diameter range (including wrapped wrapped)(mm)	Main Dimensions(mm)			Nominal failure load(kN)
				H	C	R	
	XLU-1	CLU-1	Φ8 ~ 14	113	20	7	40
	XLU-2	CLU-2	Φ14 ~ 20	125	22	10	70
	XLU-3	CLU-3	Φ20 ~ 26	145	28	13	80
	XLU-4	CLU-4	Φ26 ~32	150	36	16	
	XLU-5	CLU-5	Φ32 ~ 38	160	42	19	100

XGJ Malleable Iron Casting Suspension Clamps

Type	Suitable for wire diameter range (including wrapper wrapped) (mm)	Main Dimensions(mm)				Nominal failure load(kN)	
		H	L	R	C		
XGJ-2	Φ 11.0 ~ 13.0	75	300	7	18	40	
XGJ-3	Φ 13.1 ~ 18.0	75	300	11	27	40	
XGJ-4	Φ 21.1 ~ 23.0	75	300	12	27	40	
XGJ-5	Φ 23.0 ~ 43.0	80	390	18	38	70	

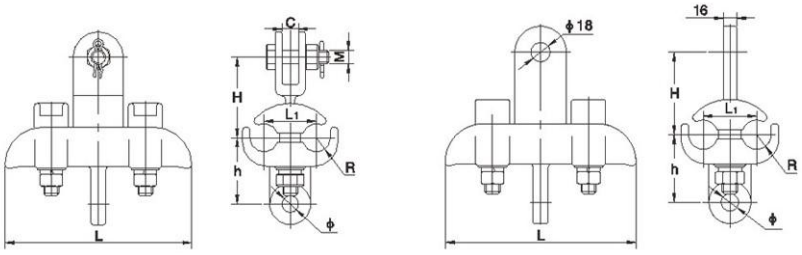
XGJ-5A	Φ 34.0 ~ 45.0	90	476	23	48	90	
XGJ-5B	Φ 34.0 ~ 45.0	90	476	23	48	90	

CGH Aluminum Alloy Envelope Suspension Clamp

Type		Equivalent model		Suitable for wire diameter range (including wrapped wrapped)(mm)	Main Dimensions(mm)			Nominal failure load (kN)	Reference weight (kg)
	CGH-0418	CGH-2	Φ	Φ5.0 ~ 12.4	9	19	16	40	1.1
	CGH-0422	CGH-3	HS-220	Φ12.4 ~ 20.0	11	22	16	40	1.4
	CGH-0426	CGH-4	HS-280	Φ20.0 ~ 26.0	13	28	16	40	1.9
	CGH-0734	CGH-5	HS-330	Φ26.0 ~ 34.0	17	36	16	70	2.5
	CGH-0742	CGH-6	HS-370	Φ34.0 ~ 40.0	21	45	16	70	2.8
	CGH-0746	CGH-7	HS-480	Φ40.0 ~ 46.0	23	48	16	70	3.2

XTS & CTS Suspension Clamps for Twin Jumper Conductor

Type	IMG	Suitable for Wire Diameter Range (Including Wrapped)(mm)	Main Dimensions(mm)								Nominal Failure Load	Weight
			Φ	R	L	L1	M	C	h	H		
XTS-2	IMG 1	25.0~31.0	18	16	200	56	16	19	62	77	40	5
XTS-2A	IMG 1	17.0~21.0	18	11	200	50	16	19	57	76	40	4.5
XTS-2B	IMG 1	21.0~27.0	18	14	200	52	16	19	59	77	40	5
CTS-2	IMG 2	17.0~27.0	18	14	200	52	/	/	55	70	40	Φ
CTS-5	IMG 2	24.0~34.0	18	17	200	30	/	/	55	70	40	3

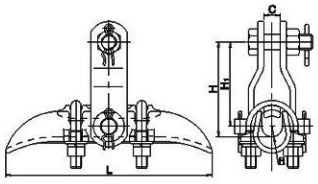


IMG 1 IMG 2

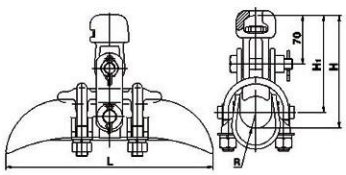
XGU Trunion Type Fixing Suspension Clamp

Type	Remark	Suitable for Wire Diameter Range (Including Wrapped)(mm)	Main Dimensions(mm)					Nominal Failure Load(kN)	Weight(kg)
			H	H1	L	R	C		
XGU-1	Equivalent Model XGZ-4009	5.0~7.0	82	70	180	4	18	40	1.4
XGU-2	Equivalent Model XGZ-4014	7.1~13.0	82	70	200	7	22	40	1.5
XGU-3	Equivalent Model XGZ-4022	13.1~21.0	102	90	220	11	18	40	2

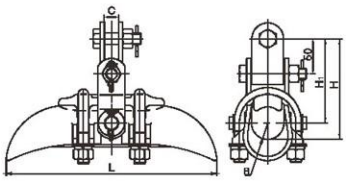
XGU-4		21.1~26.0	110	90	250	13.5	18	40	3
XGU-5A	with Socket	23.0~33.0	157	140	300	17		70	5.7
XGU-5B	with U Plate	23.0~33.0	137	120	300	17	20	70	5.4
XGU-6A	with Socket	34.0~45.0	163	140	300	23		70	6.1
XGU-6B	with U Plate	34.0~45.0	143	120	300	23	20	70	5.8
XGU-7B	with U Plate	45.0~48.7	156	130	300	26	20	70	6.2



XGU Center Rotary



XGU-A With Socket



XGU-B With U Plate