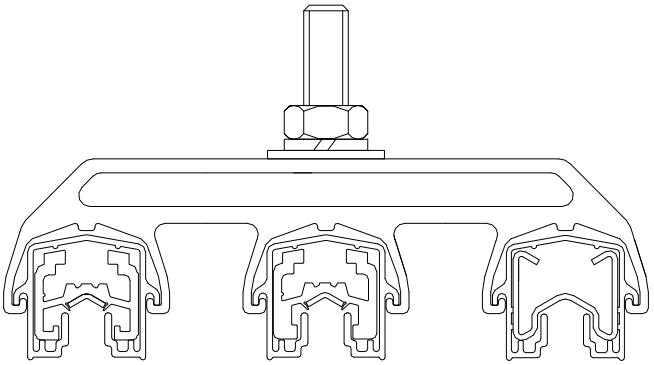
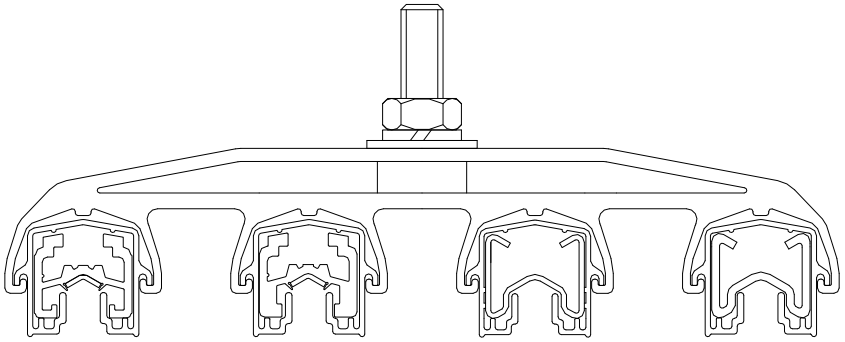
KLIFTING INDUSTRY CO., LTD.

Aluminum (6101A) / Stainless Steel Conductor Bar System

(Heavy II Series: 630A 800A 1250A)

(Heavy III Series: 1600A 2000A 2500A)





Catalogue

www.klifting.com

Catalogue

Aluminum / Stainless Steel Conductor Bar

Applications

1. Supplying power to all kinds of cranes and hoists used in many industries: power plants, steel industry, oil & chemical industry, auto industry, port, plating mills, ship building industry, paper mills, textile mills, transportation system, sugar & wine plants, cement plants, warehouse and material handling system.
2. Supplying power to some special equipment used in automatic production line, amusement parks, airports, bridges, studios, sewage & water treatment plants.

Advantages

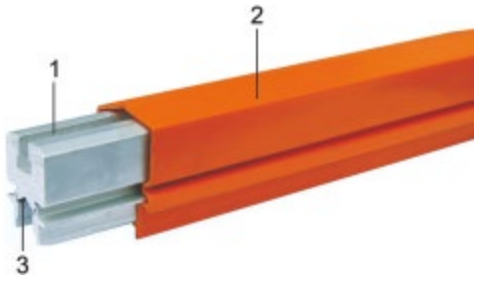
1. Safe, reliable, waterproof and dirt-proof as per IP 23 requirement.
2. Save power and lessen waste, use international conductive material to reduce the loss of voltage as much as possible.
3. Longer service life relying on unique formula.
4. Curved conductor bar system available according to specific working condition.
5. Convenient installation and daily maintenance, especially fit for aloft work.
6. Can be used in seashore, acidic and alkaline atmospheres.
7. Ice-removing system for frozen area.
8. Conductor bar covers in PVC and PPO can adapt to different working conditions.

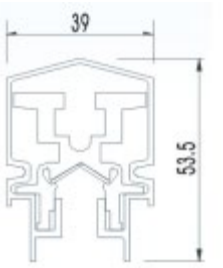
Technical parameters

Product Type		Aluminum / stainless steel						
Amp. (A)		630A	800A	1000A	1250A	1600A	2000A	2500A
Sectional area (mm^2)		318	406	618	770	1124	1313	1570
Max. voltage	AC	550V	550V	550V	550V	550V	550V	550V
	DC	700V	700V	700V	700V	700V	700V	700V
Conductor material		Aluminum						
Material class		6101A	6101A	6101A	6101A	6101A	6101A	6101A
DC (20℃μΩ/m)		104	77	51	40	28	24	20
AC (20℃μΩ/m)		137	117	102	96	78	76	73
Full load permissible temperature		25℃	25℃	25℃	25℃	25℃	25℃	25℃
Covers flame test		Self extinguish						
Conductor bar length		6.0M	6.0M	6.0M	6.0M	6.0M	6.0M	6.0M
Standard distance between hanger clamps		3.0M	3.0M	3.0M	3.0M	3.0M	3.0M	3.0M
Min. phase spacing		50mm	50mm	50mm	50mm	70mm	70mm	70mm
Max. system length for no expansion section		200M	200M	200M	200M	200M	200M	200M

Products (630A--1250A)

➢ Conductor Bar



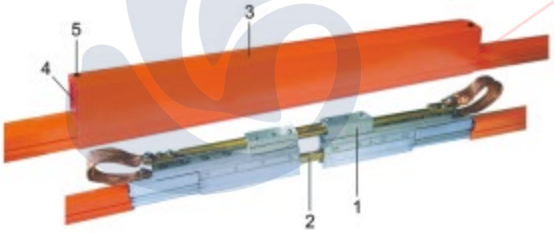


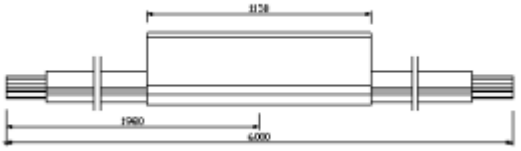
The conductor① is in aluminum material, with vertical and horizontal direction stiffness, and large surface area, guaranteeing fully heat dissipation. It has stainless steel conductor③ as the durable surface.

The sheath② can meet safety standard in IP23, and it's shape is waterproof and dust proof.

Conductor Bar - length 6.0m	630A	800A	1000A	1250A
With standard phase sheath	1063001	1080001	1100001	1125001
With standard ground sheath	1063002	1080002	1100002	1125002
With medium heat sheath	1063003	1080003	1100003	1125003
Weight (kg)	10.38	12.66	17.28	20.58

➢ Expansion Section

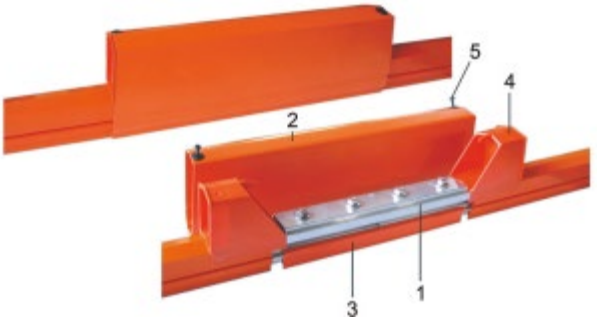


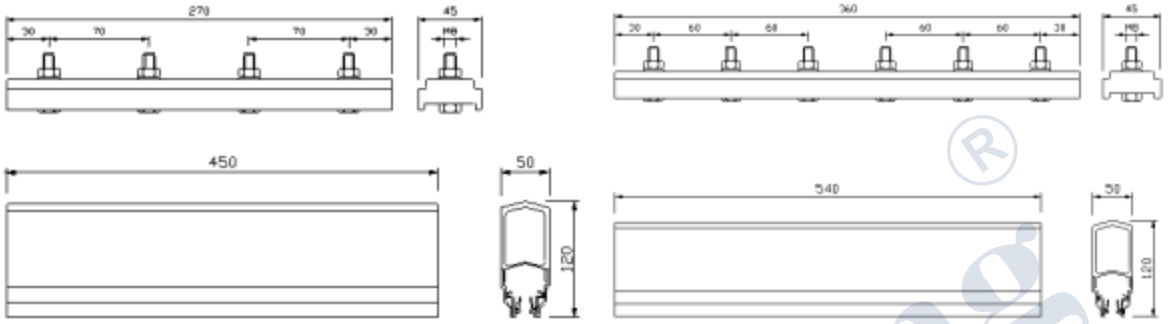


The expansion section is equipped with key sliding part①. The overlap of copper strips② can be used as sliding wire's contact surface, so as to ensure the continuity of the conductive. Copper rod slides in the plastic conductive bearing, which plays a machinery guiding role. At both ends③ of the connector sheath, there are end cover④, and fixed plastic bolt⑤. The maximum Gap is 200mm.

Expansion Section - length 6.0m	630A	800A	1000A	1250A
With standard phase sheath	3063004	3080004	3100004	3125004
With standard ground sheath	3063005	3080005	3100005	3125005
With medium heat sheath	3063006	3080006	3100006	3125006
Weight (kg)	17.85	20.13	24.75	28.05

➢ Joints Assembly





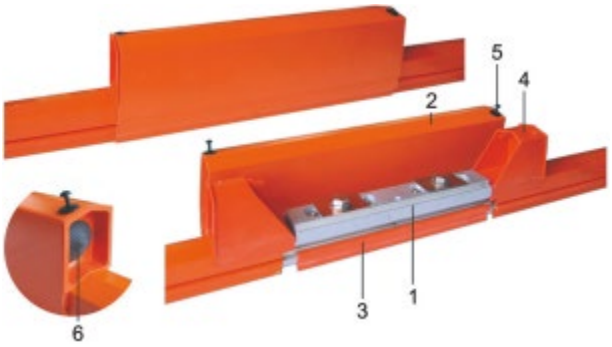
(630A/800A) (1000A/1250A)

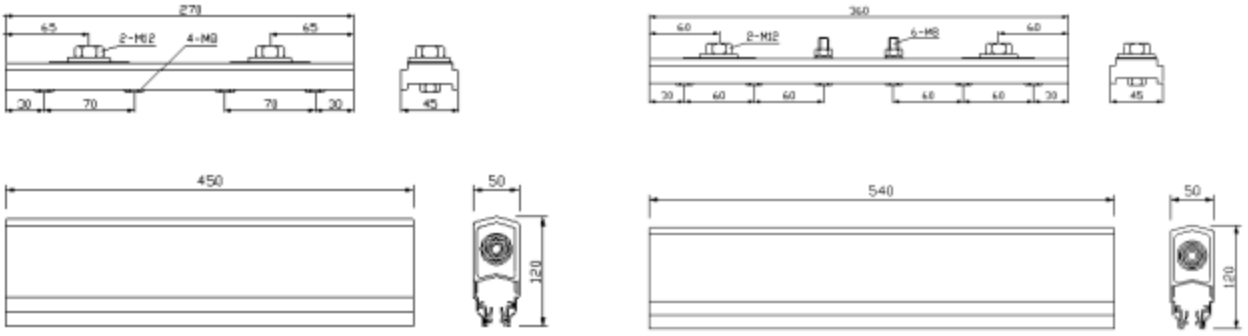
The joint plate① is in aluminum material, using 4 or 6 bolts according to the conductor bar's specification, so it can ensure each conductor bar's linearity and conductive continuity.

Each joints assembly include one connector cover②, two pieces of plastic holders③, two end caps④, and two plastic bolts⑤.

Joints Assembly	630/800A	1000/1250A
With standard phase sheath	181201	181204
With standard ground sheath	181202	181205
With medium heat sheath	181203	181206
Weight (kg)	0.75	1.05

➢ Power Feed Assembly





(630A/800A) (1000A/1250A)

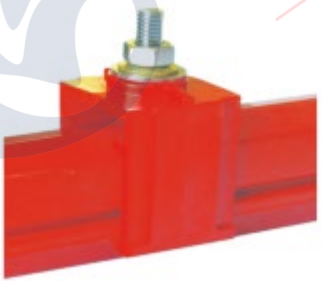
The power input plate① is in aluminum material, and can connect two cables in 150mm^2.

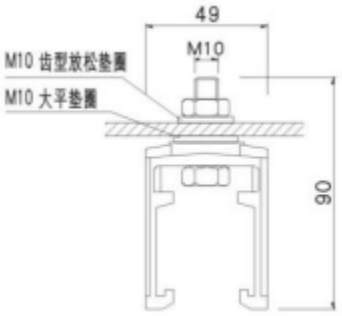
Each power feed assembly includes one connector cover②, two pieces of plastic holders③, two end caps④ with cable cover⑥, and two plastic bolts⑤.

Cable guard ring eyelet⑥ can be adjusted according to the cable's diameter.

Power Feed Assembly	630/800A	1000/1250A
With standard phase sheath	181207	181210
With standard ground sheath	181208	181211
With medium heat sheath	181209	181212
Weight (kg)	0.85	1.27

➢ Hanger Clamp (one pole)

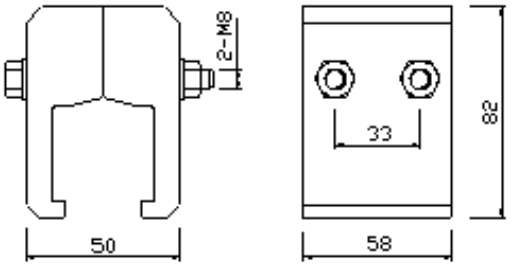




The Max. distance between hanger clamps is 3m.

Hanger Clamp (one pole)	Product No.	Weight (kg)
Standard	181001	0.11
With Insulator	181002	0.33
Stainless steel outdoor standard	181003	0.11
Stainless steel outdoor with insulator	181004	0.33

➢ Fixation Clamp



The fixation clamps① are usually used in pairs, installed on both sides of the hanger clamp②, which is in the middle of the system or between the two expansion sections.

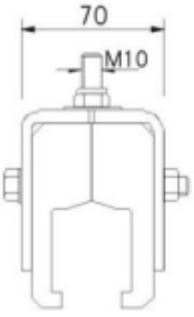
Fixation Clamp accessories			
Product No.:	181011	Weight (kg):	0.45

➢ End Accessories

End accessories are installed in the both ends of the system to protect the system's ends.

End Accessories			
Product No.:	181215	Weight (kg):	0.13

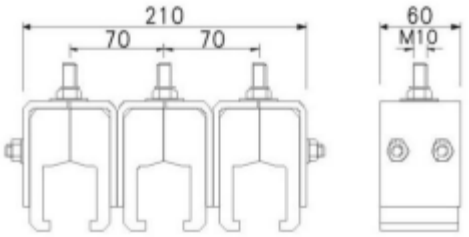
➢ Strengthen Hanger Clamp (one pole)



The Max. distance between hanger clamps is 3m.

Strengthen Hanger Clamp (one pole)			
Product No.:	181105	Weight (kg):	0.897

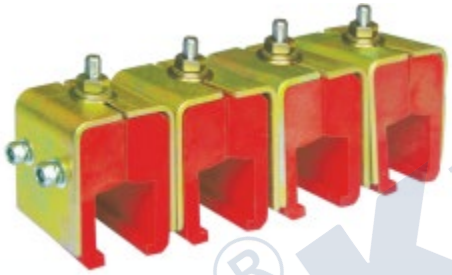
➢ Strengthen Hanger Clamp (three poles)

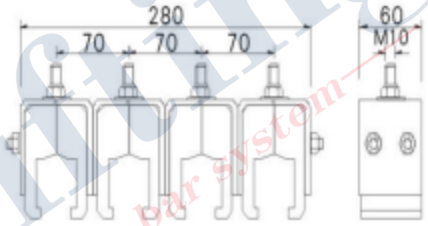


The Max. distance between hanger clamps is 3m.

Strengthen Hanger Clamp (three poles)			
Product No.:	181106	Weight (kg):	2.691

➢ Strengthen Hanger Clamp (four poles)



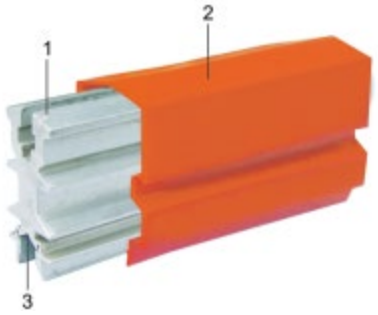


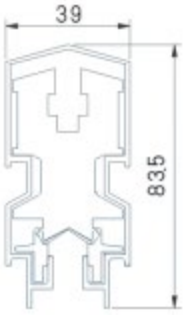
The Max. distance between hanger clamps is 3m.

Strengthen Hanger Clamp (four poles)			
Product No.:	181107	Weight (kg):	3.588

Products (1600A--2500A)

➢ Conductor Bar

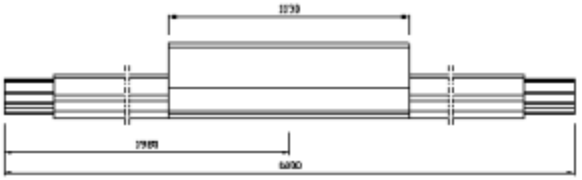




The conductor① is in aluminum material, with vertical and horizontal direction stiffness, and large surface area, guaranteeing fully heat dissipation. It has stainless steel conductor③ as the durable surface. The sheath ② can meet safety standard in IP23, and it's shape is waterproof and dust proof.

Conductor Bar - length 6.0m	1600A	2000A	2500A
With standard phase sheath	1165001	1200001	1250001
With standard ground sheath	1165002	1200002	1250002
With medium heat sheath	1165003	1200003	1250003
Weight (kg)	22.31	25.37	29.57

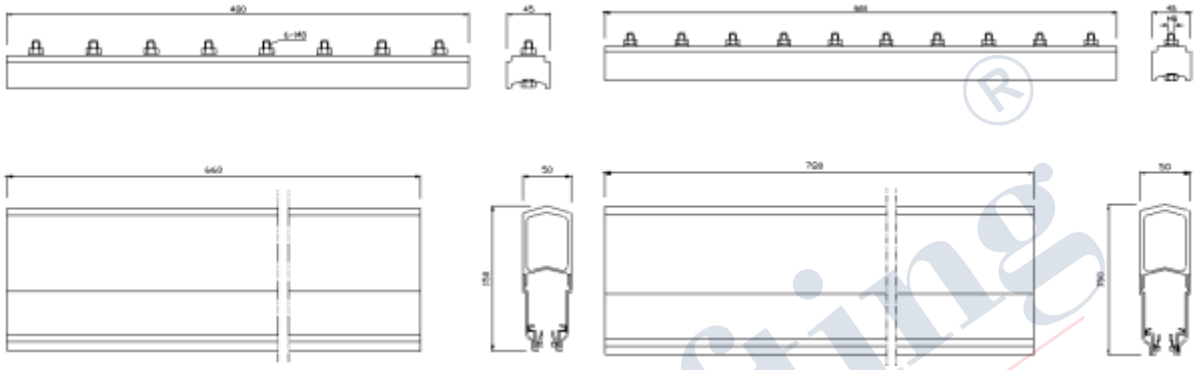
➢ Expansion Section



The expansion section is equipped with key sliding part. The overlap of copper strips can be used as sliding wire's contact surface, so as to ensure the continuity of the conductive. Copper rod slides in the plastic conductive bearing, which plays a machinery guiding role. At both ends of the connector sheath, there are end cover and fixed plastic bolt. The maximum Gap is 200mm.

Expansion Section - length 6.0m	1600A	2000A	2500A
With standard phase sheath	3160004	3200004	3250004
With standard ground sheath	3160005	3200005	3250005
With medium heat sheath	3160006	3200006	3250006
Weight (kg)	31.27	35.08	40.78

➢ Joint Accessories



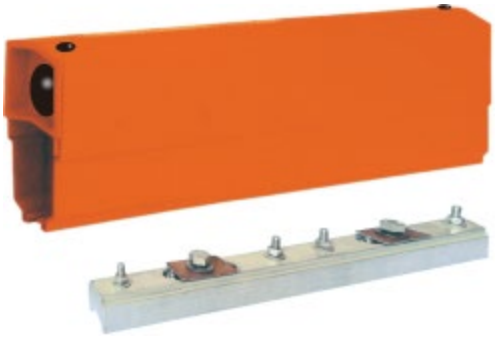
(1600A) (2000A,2500A)

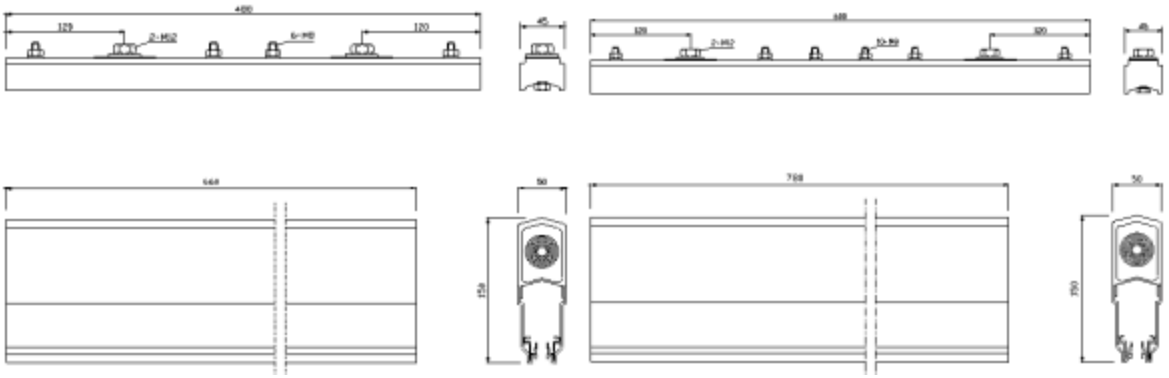
The joint plate is in aluminum material, using 8 or 10 bolts according to the conductor bar's specification, so it can ensure each conductor bar's linearity and conductive continuity.

Each joints assembly include one connector cover, two pieces of plastic holders, two end caps, and two plastic bolts.

Joint Accessories	1600A	2000/2500A
With standard phase sheath	3160104	3200204
With standard ground sheath	3160105	3200205
With medium heat sheath	3160106	3200206
Weight (kg)	2.722	3.889

➢ Power Feed Assembly





(1600A) (2000A,2500A)

The power input plate is in aluminum material, and can connect two cables in 150mm^2.

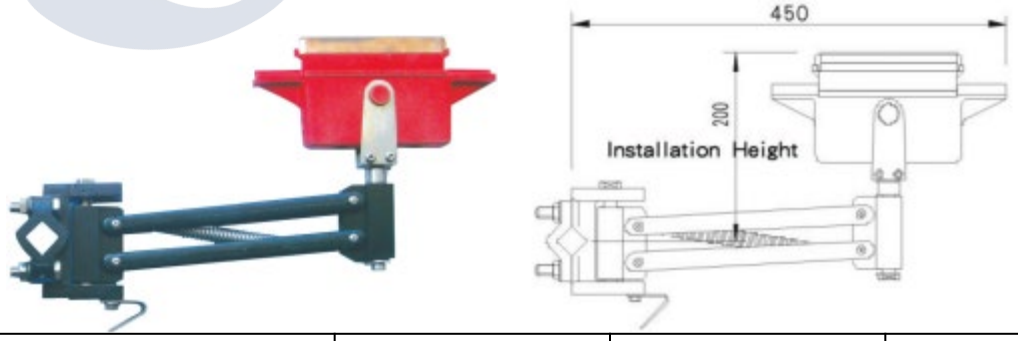
Each power feed assembly includes one connector cover, two pieces of plastic holders, two end caps with cable cover, and two plastic bolts.

Cable guard ring eyelet can be adjusted according to the cable's diameter.

Power feed assembly	1600A	2000A
With standard phase sheath	3160201	3160202
With standard ground sheath	3160203	3160204
With medium heat sheath	3160205	3160206
Weight (kg)	2.722	3.889

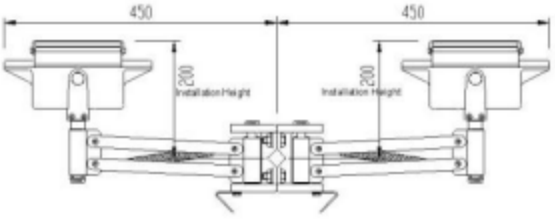
Current Collector (630A--2500A)

➢ Collector 250A



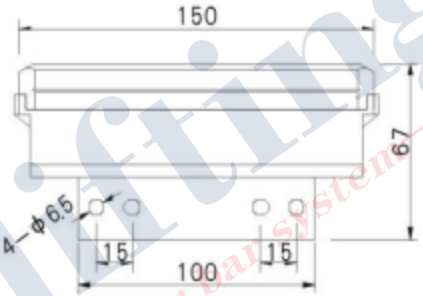
Current Collector 250A (Phase line)	Product No.	1802501	Weight (kg) : 3.50
Current Collector 250A (Ground line)	Product No.	1825002	Weight (kg) : 3.50

➢ Current Collector 2×250A



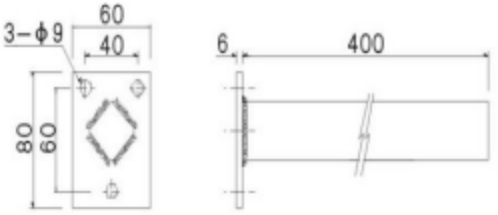
Current Collector 2×250A (Phase line)	Product No.	1850001	Weight (kg) : 7.00
Current Collector 2×250A (Ground line)	Product No.	1805002	Weight (kg) : 7.00

➢ Carbon Brush with Box 250A



Carbon Brush with box 250A (Phase line)	Product No.	1801003	Weight (kg) : 0.362
Carbon Brush with Box 250A (Ground line)	Product No.	1801004	Weight (kg) : 0.362

➢ Collector Support



Collector Support	Product No.	181501	Weight (kg) : 2.55

Calculation

Please offer these information if you need our products.

Company Name:_____Contact _____
Project: _____Address: _____
E-mail: _____Project: _____
Telephone: _____Fax: _____
Date:_____

_____

1. Type of crane/machine to be electrified:_____
2. Voltage: _____Volts ~/=: _____ Phases: c/s:_____
3. Length of conductor system:_____
4. Number of conductors required:
   _____power lines: _____control lines: ____neutral (ground):_____
5. Indoor: _____Outdoor:_____
6. Special site conditions (humidity, dust, chemical influence etc.):_____
7. Temperature conditions: _____°C min., _____°C max.
8. Type of conductors preferably wanted:_____
9. Number and position of feeder points:_____
10. Mounting position envisaged:_____

(prints and sketches should be submitted whenever obtainable)

11. Number of cranes / machines fed from the one system:_____
12. Ampere load of each crane / machine:_____
13. Other pertinent data:_____

_____

_____

For curved tracks, breaks in system etc. please submit prints and sketches.

Motor (please mark run simultaneously and at the same time start the motor)	Crane 1						
	P/(KW)	Rated current			Starting current		
		A	COSϕ^N	%ED	A	COSϕ^A	Start Method
Main Hoisting							
Aux. Hoisting							
Main Traverse							
Aux. Traverse							
Main Travel							
Aux. Travel							
Slewing							
Luffing and any other Service							
The type of motor： K:Squirrel-cage motors； S:Slip-ring motors； F:Inverter motor							

Motor (please mark run simultaneously and at the same time start the motor)	Crane 2						
	P/(KW)	Rated current			Starting current		
		A	COSϕ^N	%ED	A	COSϕ^A	Start Method
Main Hoisting							
Aux. Hoisting							
Main Traverse							
Aux. Traverse							
Main Travel							
Aux. Travel							
Slewing							
Luffing and any other Service							
The type of motor： K:Squirrel-cage motors； S:Slip-ring motors； F:Inverter motor							

Contact

KLIFTING INDUSTRY CO., LTD.

Address: Workshop No.169 Longxiang Road, Industrial Park, East QiYi Road, LianChi District, Baoding City, Hebei Province, China

Phone: 0086-312-679-3605

Email: Sales@klifting.com

Website: www.klifting.com

For further information of KA Aluminum (6101A) / Stainless Steel Conductor Bar System, please contact us in the above ways.

We commit ourselves to constant improvement of our design and processing of the products.

We keep the right of perfecting the instruction book and the product design to achieve the goal.

It's important to select the suit Safe Conductor Bar for each application. Otherwise it will cause serious consequences , such as property damage or personal injury.