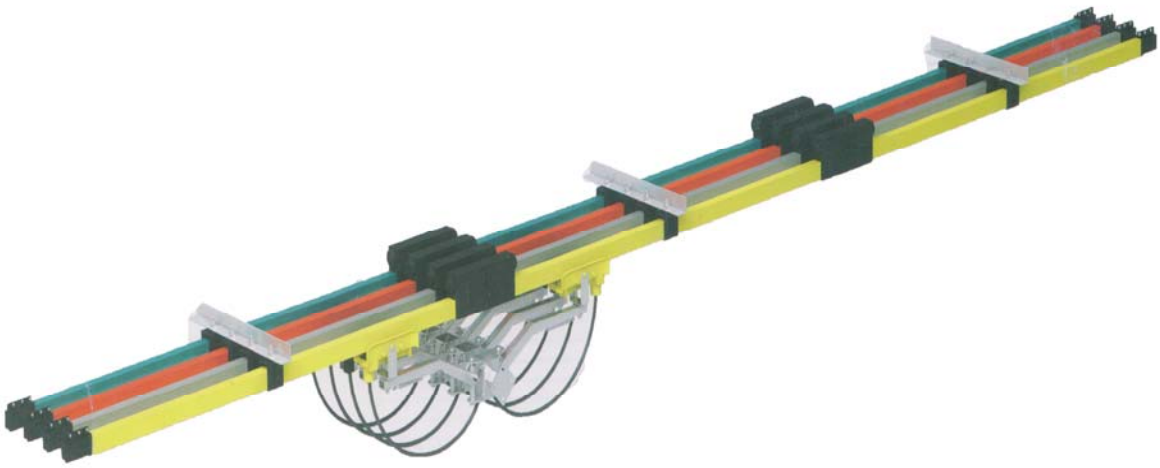
Shandong Kaiqiang Electric Technology Co., Ltd

KW Insulated Copper Conductor Bar System



Catalogue

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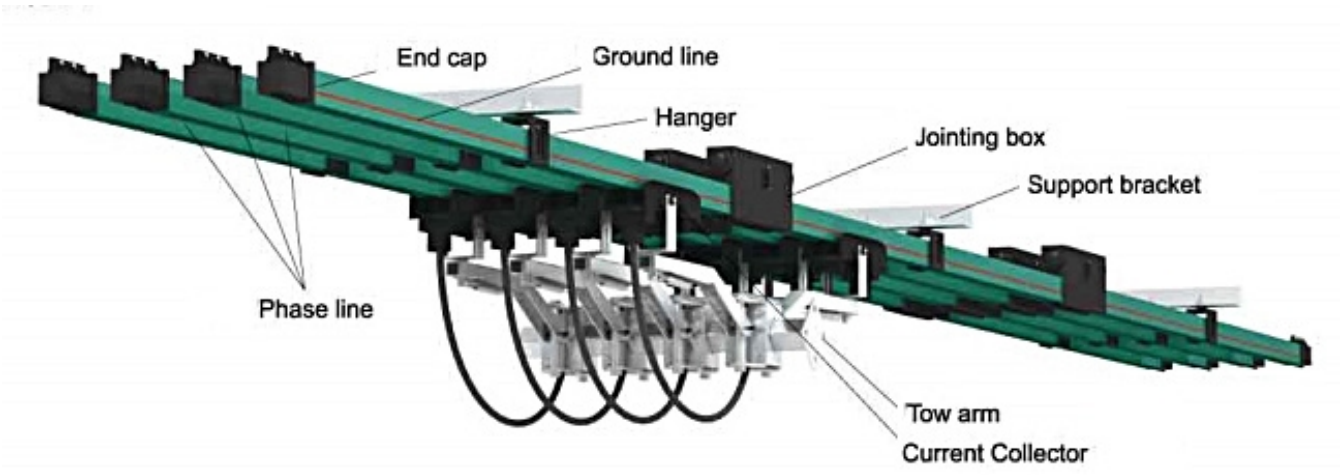
KW Insulated Copper Conductor Bar System



General

1. The KW conductor bar system is a modern power supply system using single pole insulated conductor rails. It complies with the latest regulations and provides the electric energy for mobile consumers. The conductor rail is material copper (200A-5000A). Any numbers of poles can be installed vertically or horizontally, on straight or curved systems.

2. The conductor bar system can be installed indoor or outdoor. For high temperature conditions, a high temperature insulation cover up to +115℃ is available, also for low temperature conditions, it could be up to -40℃. The entire conductor rail system is insulated to current safety regulations, it is entirely protected against direct contact.

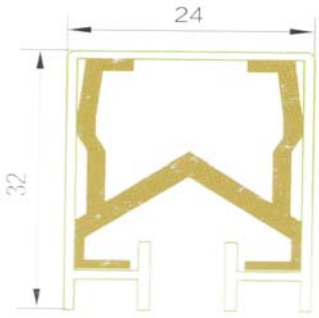
3. Ground insulation cover is marked yellow-green on one side over the entire length of the rail. Type-R: Curves for R ≥ 1200mm.
Approved and listed by: CCC, ISO9001 and CE.

Technical parameters

	KW copper conductor bar system		
Type	W24	W32	W52
Nominal Current at 100% DC and 35℃ (A)	500-800	800-1600	1250-5000
D.C resistance at 35℃ (Ω/km)	0.043-0.015	0.067-0.039	0.036-0.007
Impendance at 35 ℃ (Ω/km)	0.118-0.069	0.069-0.040	0.038-0.008
Support spacing (m)	1.5	1.8	2.0
Rail length (m)	6.0	6.0	6.0
Housing length (m)	5.88	5.83	5.75
Max. Voltage	690V		
Travelling speed	≤600m/min		
Expansion joint	Not required up to 200m installation length		
Flame retardant	Class B1-no flaming particles, self-extinguishing		
Permissible Ambient temperature	Standard insulation -20℃-+70℃ High temperature insulation -20℃-+70℃ Low temperature insulation -20℃-+70℃		

W24 Copper conductor bar（500A--800A)

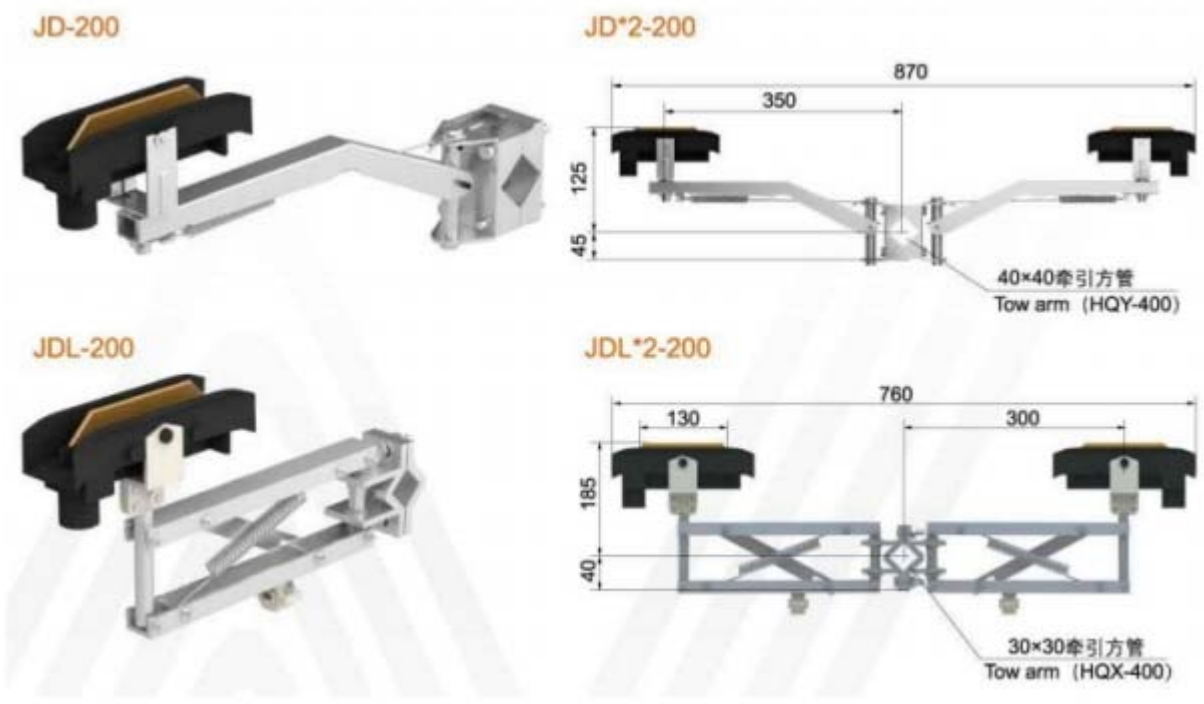
➢ Conductor bar



Copper conductor bar, Support spacing: 1.5m, Standard Length: 6.0m. Other lengths on request.

Type	Material	Cross section (mm2)	Nominal current (A)	Leakage-distance mm	Resistance (Ω/km)	Weight (Kg/m)	No.
JDC-HD-160/500	Copper	160	500	45 or 80	0.112	1.70	240500
JDC-HD-180/600	Copper	180	600	45 or 80	0.098	1.90	240600
JDC-HD-200/700	Copper	200	700	45 or 80	0.087	2.10	240700
JDC-HD-230/800	Copper	230	800	45 or 80	0.076	2.30	240800

➢ W24 Current collector



Be use for conductor rail W24 system

Type	Weight Kg	Hardware	Nominal Current	No.
JD-200	1.45	Galvanized	200Amp	242110
JD*2-200	2.72	Galvanized	400Amp	242120
JDL-200	1.18	Aluminum	200Amp	242130
JDL*2-200	2.25	Aluminum	400Amp	240140

Brush material	Copper-graphite brush
Temperature	-40℃ ~+115℃
Speed	≤360m/min
Voltage	ACV : ≤750V DCV: ≥1000V
Contact voltage drop	0.20-0.25V
Abrasion loss of brush	6-8mm
Contact pressure	F≤25N
Horizontal movement	±100 mm
Vertical movement	±40 mm

➢ Hanger

Type	Weight Kg	Material	No.
W24HD-1	0.05	Plastic	241101
W24HD-2	0.04	Plastic	241102
W24HD-5	0.05	Polyseter	241103

➢ Joint Box

Type	Weight Kg	Material	No.
W24JD-1	0.12	Plastic	241201
W24JD-5	0.13	Polyseter	241202

➢ Joints

Every joint could be used for feeding joint.

Type	Weight Kg	Material	No.
W24JD-250A	0.15	Aluminum	241301
W24JD-500A	0.23	Copper	241302
W24JD-800A	0.31	Copper	241303

➢ End Cap

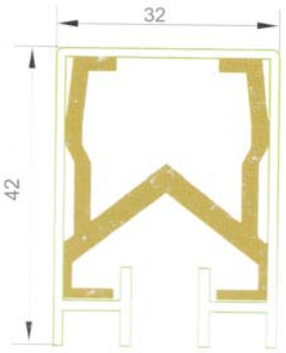
Type	Weight Kg	Material	No.
W24EC	0.02	Plastic	241401

➢ Isolating Section

Type	Weight Kg	Material	No.
W24SE	0.07	Plastic	241501

W32 Copper conductor bar（800A--1600A)

➢ Conductor bar



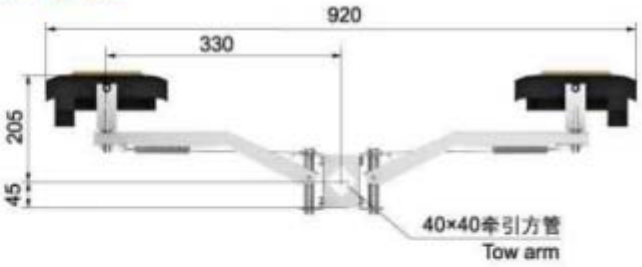
Copper conductor bar, Support spacing: 1.8m or 2.0m, Standard Length: 6.0m. Other lengths on request.

Type	Material	Cross section (mm2)	Nominal current (A)	Leakage-distance mm	Resistance (Ω/km)	Weight (Kg/m)	No.
JDC-HD-230/800	Copper	230	800	80	0.067	2.50	320800
JDC-HD-300/1000	Copper	300	1000	80	0.058	3.10	321000
JDC-HD-3601250	Copper	360	1250	80	0.046	3.60	321250
JDC-HD-450/1600	Copper	450	1600	80	0.039	4.40	321600

➢ W24 Current collector

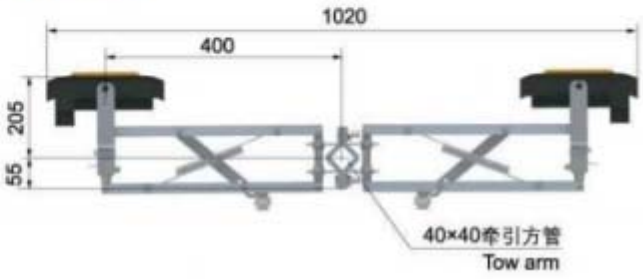
JD-400

JD*2-400



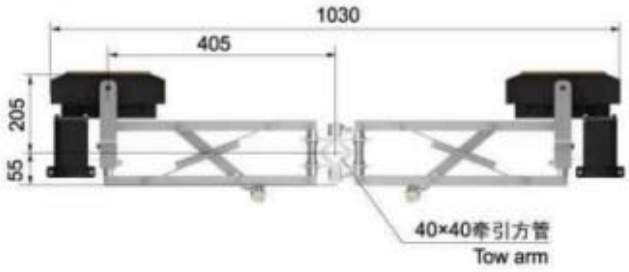
JDL-400

JDL*2-400



JDT-500

JDT*2-500



Type	Weight Kg	Hardware	Nominal current	No
JD-400	1.75	Steel	400 Amp	320101
JD*2-400	3.45	Steel	800 Amp	320102
JDH-400	2.35	Aluminum	400 Amp	320103
JDH*2-400	4.61	Aluminum	800 Amp	320104
JDT-400	3.05	Aluminum	500 Amp	320105
JDT*2-400	6.01	Aluminum	1000 Amp	320106

➢ Tow arm

Be used for conductor rail W32 system

Type	Weight Kg	Material	Length mm	No.	Remark
HTA-400	1.00	Steel	400	320201	4P
HTA-400	0.85	Steel	350	320202	3P
HTA-X	>1.00	Steel	>400	320203	-

➢ Hanger

Type	Weight Kg	Material	No.
W32HD-1	0.075	Plastic	320301
W32HD-2	0.085	Plastic	320302
W32HD-5	0.088	Polyseter	320303

➢ Joint Box

Type	Weight Kg	Material	No.
W32HJ-1	0.21	Plastic	320401
W32HJ-5	0.23	Polyester	320402

➢ Joints

Every joint could be used for feeding joint.

Type	Weight Kg	Material	No.
W32HT-800A	0.41	Copper	320501
W32HT-1250A	0.66	Copper	320502
W32HT-1600A	0.82	Copper	320503

➢ End Cap

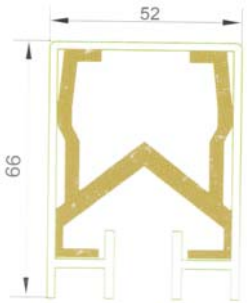
Type	Weight Kg	Material	No.
W32EC	0.04	Plastic	320601

➢ Isolating Section

Type	Weight Kg	Material	No.
W32SE	0.13	Plastic	320701

W52 Copper conductor bar（1600A--5000A)

➢ Conductor bar



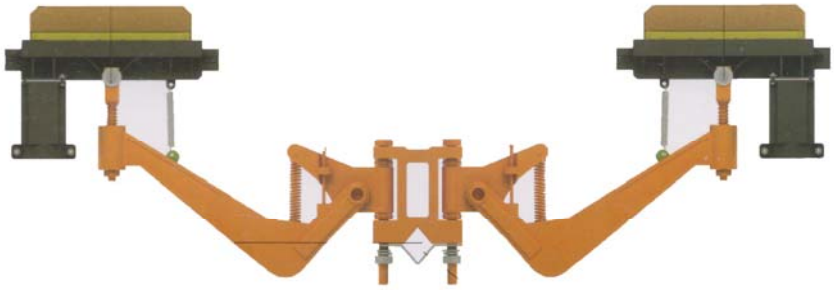
Copper conductor bar. Standard Length: 6.0m. Other lengths on request

Type	Material	Cross section (mm2)	Nominal current (A)	Leakage-distance mm	Resistance (Ω/km)	Weight (Kg/m)	No.
JDC-HD-500/1700	Copper	500	1700	100	0.036	5.20	520101
JDC-HD-700/2000	Copper	700	2000	100	0.026	6.91	520102
JDC-HD-850/2500	Copper	850	2500	100	0.018	8.30	520103
JDC-HD-1000/3000	Copper	1000	3000	100	0.011	9.70	520104
JDC-HD-1200/3500	Copper	1200	3500	100	0.009	11.50	520105
JDC-HD-1600/4500	Copper	1600	4500	100	0.008	15.00	520106
JDC-HD-1800/5000	Copper	1800	5000	100	0.007	16.80	520107

➢ W52 Current collector

JD-800

JD*2-800



Type	Weight Kg	Hardware	Nominal Current	No.
JD-800	5.10	Steel	800Amp	520201
JD*2-800	10.20	Steel	1600Amp	520202

➢ Hanger

Type	Weight Kg	Material	No.
W52HD-1	0.13	Plastic	520301
W52HD-2	0.14	Polyseter	520302

➢ Joint Box

Type	Weight Kg	Material	No.
W52HJ	0.23	Plastic	520401
W52HJ	0.24	Polyseter	520402

➢ Joints

Every joint could be use for feeding joint.

Type	Weight Kg	Material	No.
W52HT-1	4.95	Copper	520501
W52HT-2	5.35	Copper	520502

➢ End Cap

Type	Weight Kg	Material	No.
W52EC	0.04	Plastic	520601

Calculation

Please offer these information if you need our products.

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

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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							

Contacts

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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.