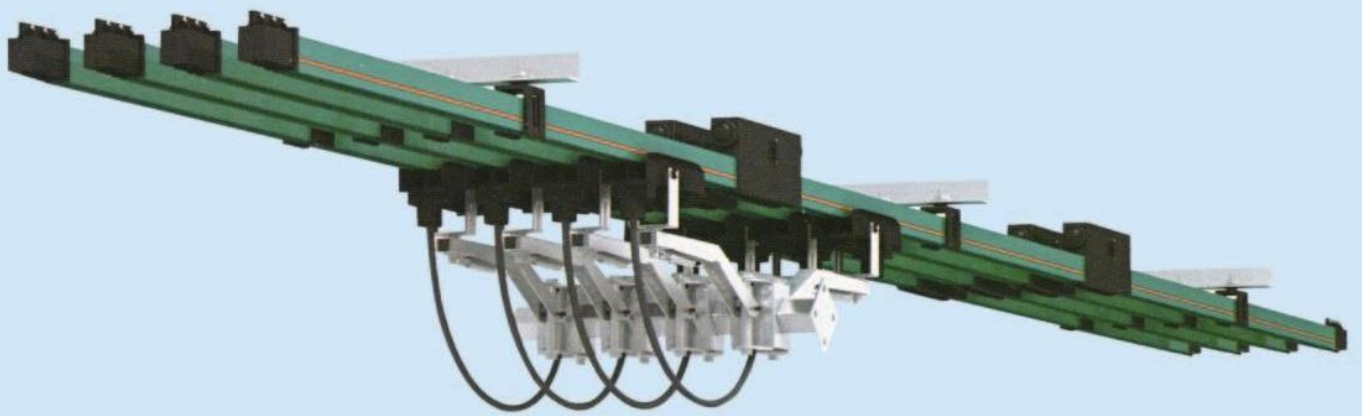


JDC-H单极滑触线

INSULATED CONDUCTOR SYSTEMS JDC-H



产品概述

JDC-H 系列是一款单极组合式组装的滑线，符合移动供电行业的各项标准。JDC-H 有铜质滑线和铝质滑线两大系列，铜滑线覆盖 200A-5000A，铝滑线覆盖 150A-3000A，其中铝滑线 V 型槽需压嵌不锈钢条（如作为母线使用，则无需加装不锈钢条）。

JDC-H 系列可室内外均可垂直或水平安装，可制成圆弧。

JDC-H 系列室内外均可使用，室外采用抗氧化、防紫外线、耐冲击的“三防”优质护套，并有可耐受 +115℃ 的耐高温护套供应，以及耐受 -40℃ 低温的耐低温护套供应。

JDC-H 滑线按护套尺寸的不同可分为 H19 系列、H24 系列、H32 系列、H38 系列、H52 系列等几大系列。

R 型为弧型滑线，可制成 $R \geq 1200\text{mm}$ 的弧型滑线。

通过以下认证：CCC、ISO9001 和 CE 认证。

护套

一般情况下，相线的护套颜色为绿色，零线护套颜色为黄绿双色；除 H19 系列标准定尺为 4.5 米外，其余系列标准定尺均为 6 米。

连接装置

快速安装的接头为滑线提供了机械和电气的连续性。包括绝缘保护的连接盒。

供电点

中间供电（任意接头位置）或端部供电点。

端帽

滑线系统的末端使用 1 个端帽，起保护作用。

吊夹

可提供将滑线固定在起重机行车大梁上的标准支架。可使用滑动吊夹和固定吊夹。标准间距为 1500 mm - 2000 mm。

膨胀节（热补偿段）

膨胀节用于补偿因环境温度改变而导致滑线轴向长度变化的装置。当位于供电点、弯段、道岔或其他固定点间的滑线段距离大于 200 m 时使用膨胀节。膨胀节安装间距视具体情况而定。

检修段

用于设备停电检修的功能段。通常在同一滑线系统上有两台或两台以上受电设备时需加装检修段，安装位置通常在系统的两端。

道岔

滑线道岔应用请查看 H19 系列端帽喇叭口。

集电器

集电器是由碳刷、防生锈的金属部分和高耐磨性的塑料件制造而成。集电器拉簧能够确保使碳刷保持良好可靠的接触。每组集电器还包括牵引臂。双集电器可用于导向装置或更高电流量的设备。

General

The JDC-H conductor rail 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 material is copper (200A-5000A), aluminium (150A-3000A). The aluminium conductor rail is provided with a proven and patented stainless steel contact surface. Any numbers of poles can be installed vertically or horizontally, on straight or curved systems.

The conductor rail system can be installed indoor or outdoor. For high temperature conditions, a high temperature insulation cover up to +115°C is available, also for low temperature conditions, it could be up to -40°C.

The entire conductor rail system is insulated to current Safety Regulations, it is entirely protected against direct contact. Ground insulation cover is marked yellow-green on one side over the entire length of the rail.

Type -R: Curves for $R \geq 1200\text{mm}$.

Approved and listed by: CCC, ISO9001 and CE.

Insulation

Generally, the phase line is Color green, the ground line is yellow-green plastic housing. For H19 system, the standard length is 4.5 m long, and for other systems, the standard length is 6.0 m long. Other sections are available.

Jointing material

Snap-in joint splices provide mechanical end electrical continuity. They include insulated protection covers.

Feed Sets

Line feeds (any joints) or end feeds.

End caps

The open ends of the conductor are closed by end caps.

Hangers

Standard brackets for conductor attachment to crane girders are available. Conductor with sliding and fixpoint hangers.

Standard distance between suspension points for indoor and outdoor installations: 1500 mm to 2000 mm.

Expansion section

The Expansion sections are required to compensate the different expansions between copper conductors and steel or concrete structures, in varying temperatures without interrupting electrical power. Expansion joints are used when the Powerail length between feeds, curves, switches or other fix points is exceeding 200 m. Install one expansion joint according to actual installation.

Isolating section

Isolating sections are required if parts of the system or individual rails are to be de-energized within a conductor rail system. To prevent a voltage bridging by current collector two air gap isolating sections should be installed.

Switches

Powerail for working areas and transfer applications see H19 End cap.

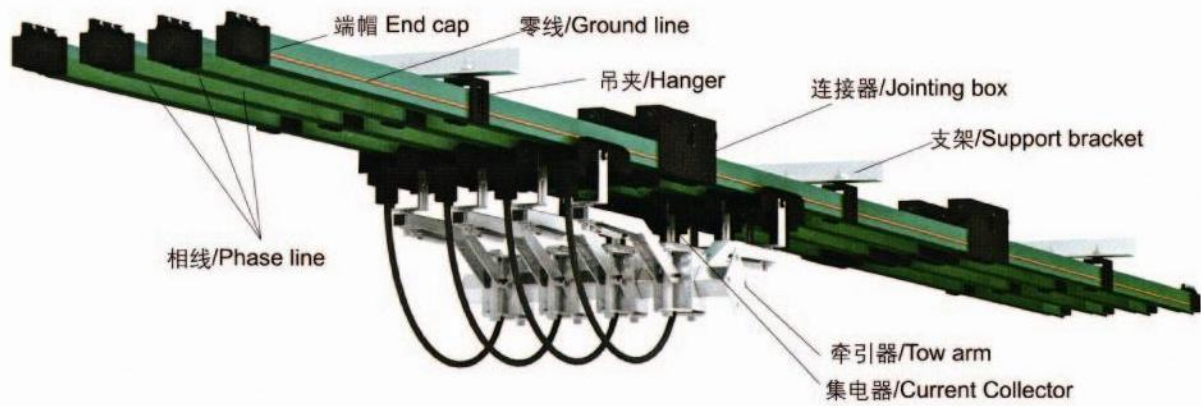
Collectors

The current collectors are made of carbon brush, re-inforced nylon and galvanized or spray-paint metal material. Spring loaded carbon brushes maintain uniform contact. Connecting cables and hinged or flexible towing arms included. Double collectors for transfer applications and higher amperage.

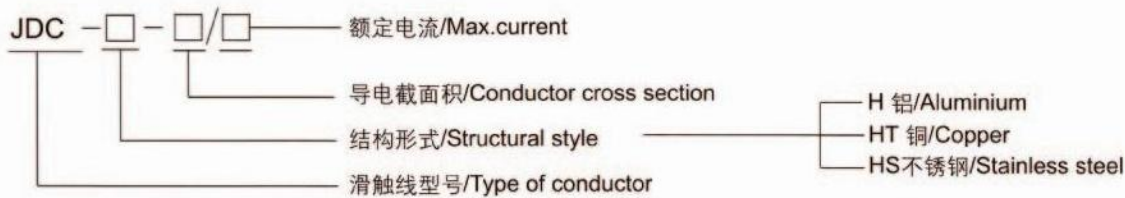
技术参数/Technical data

滑线系统/Conductor rail system						JDC-H系列/Program JDC-H				
导轨/Conductor rail	铝排/Aluminium					铜排/Copper				不锈钢 Stainless Steel
型号/Type	H19	H24	H32	H35	H52	H19	H24	H32	H52	H19
额定电流/Nominal current at 100% DC and 35℃ [A]	150	250-300	320-1250	230-800	1250-3000	150-500	500-800	800-1600	1250-5000	25
直流电阻/D.C.resistance at 35℃ [Ω/km]	0.376	0.203-0.187	0.153-0.046	0.153-0.067	0.043-0.015	0.376-0.156	0.116-0.067	0.067-0.039	0.036-0.007	11.652
阻抗/Impedance at 35℃ [Ω/km]	0.381	0.209-0.195	0.155-0.048	0.155-0.069	0.044-0.017	0.377-0.158	0.118-0.069	0.069-0.040	0.038-0.008	11.663
支架间距/Support spacing [m]	1.5	1.5	1.8	1.8	2.0	1.5	1.5	1.8	2.0	1.5
导轨长度/Rail length [m]	4.5	6.0	6.0	6.0	6.0	4.5	6.0	6.0	6.0	4.5
护套长度/Housing length [m]	4.42	5.88	5.83	5.83	5.75	4.42	5.88	5.83	5.75	4.42
额定电压/Max.voltage [V]	660V(国内常用为380V)				绝缘强度/Dielectric strength [KV/mm]				30-40	
运行速度/Travelling speed	≤ 600 m/min				行业标准/standard			GB7251.2-2006		
膨胀节/Expansion joint	最长不得超过200米，必须安装膨胀节/not required uo to 200 m installation length									
阻燃性/Flame retardant	B1级-无火焰微粒，自熄/Class B1-no flaming particles,self-extinguishing									
温度范围/Permissible ambient temperature	标准护套/Standard insulation 耐高温护套/High temperature insulation 耐低温护套/Low temperature insulation						-30℃ - +70℃ -20℃ - +115℃ -40℃ - +85℃			

系统图/System photo



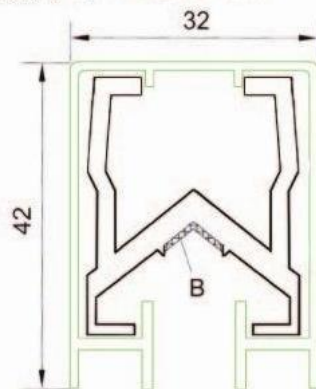
型号说明/Introductions of Type



滑触线基本型号/PARTS OF THE CONDUCTOR RAIL SYSTEM

H32系列/H32System

比例尺 1: 1 Scale 1:1



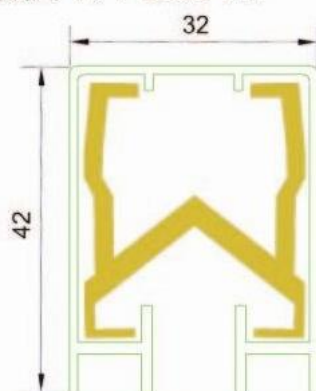
铝导体
Aluminium conductor

标准长度/Standard Length:6.0 m,其它长度需协商订购/other lengths on quest
支架间距/Support spacing:1.8 m or 2.0 m.

不锈钢带宽
Stainless steel belt
B = 9.8 mm

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-H-230/320	铝/Aluminium	230	320	80	0.153	320126
JDC-H-285/500	铝/Aluminium	285	500	80	0.116	320136
JDC-H-360/630	铝/Aluminium	360	630	80	0.087	320156
JDC-H-420/800	铝/Aluminium	450	800	80	0.067	320166
JDC-H-550/1000	铝/Aluminium	550	1000	80	0.058	320176
JDC-H-600/1250	铝/Aluminium	600	1250	80	0.046	320186

比例尺 1: 1 Scale 1:1



铜导体
Copper conductor

支架间距/Support spacing:1.8 m or 2.0 m.
标准长度/Standard Length:6.0 m,其它长度需协商订购/other lengths on quest.

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-HT-230/800	铜/Copper	230	800	80	0.067	320266
JDC-HT-300/1000	铜/Copper	300	1000	80	0.058	320276
JDC-HT-360/1250	铜/Copper	360	1250	80	0.046	320286
JDC-HT-450/1600	铜/Copper	450	1600	80	0.039	320296

零线护套为黄绿双色护套。
The ground insulation cover is marked yellow-green on one side.

标准护套温度范围: -30℃ to +70℃ Standard insulation suitable from -30℃ to +70℃ ambient temperature.
高温护套温度范围: -20℃ to +115℃ High temperature insulation suitable from -20℃ to +115℃ ambient temperature.
低温护套温度范围: -40℃ to +85℃ Low temperature insulation suitable from -40℃ to +85℃ ambient temperature.

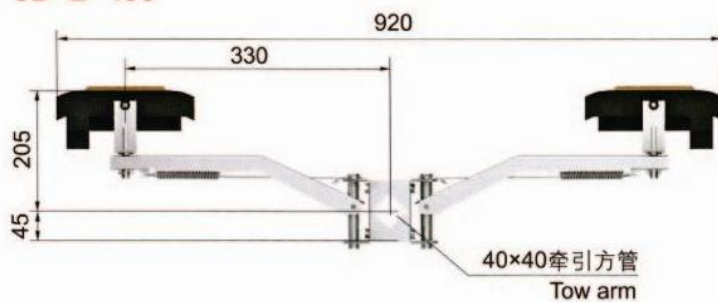
H32集电器/Current Collector

技术参数参见H24系列/Technical data please see H24 system

JD-400



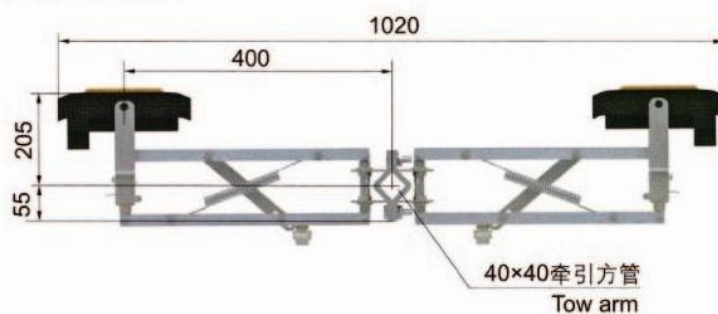
JD-2-400



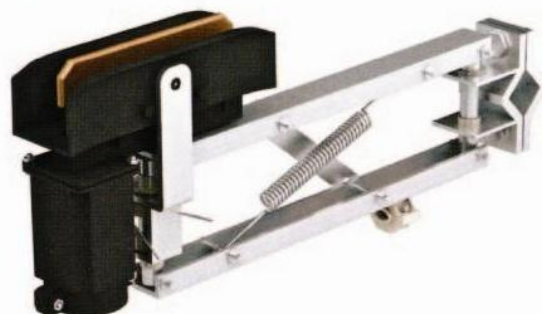
JDT-400



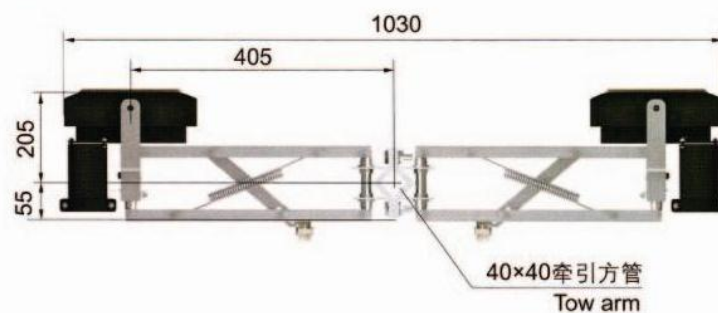
JDL*2-400



JDT-500



JDT*2-500



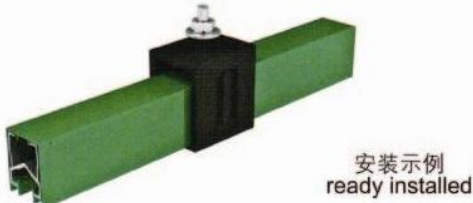
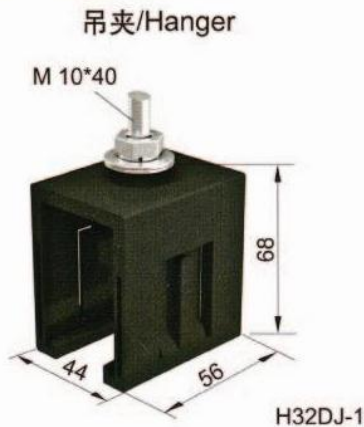
型号/Type	支撑架/Hardware	额定电流/Nominal current	产品编码/Order-NO.
JD-400	镀锌钢/Galvanized	400Amp	323110
JD*2-400	镀锌钢/Galvanized	800Amp	323120
JDL-400	铝/Aluminum	400Amp	323130
JDL*2-400	铝/Aluminum	800Amp	323140
JDT-500	铝/Aluminum	500Amp	323150
JDT*2-500	铝/Aluminum	1000Amp	323160

牵引器/Tow arm
HQY-400



产品编码/Order-NO.
325040

H32系列配件/Accessories for H32



型号/Type	材质/Material	产品编码/Order-NO.
H32DJ-1	ABS(白色/white)	323901
H32DJ-2	ABS(黑色/black)	323902
H32DJ-3	尼龙/ Nylon	323903
H32DJ-5*	聚酯/ Polyseter	303905

※用于高温环境/be used for high temperature.

连接盒/Joining box

型号/Type	材质/Material	产品编码/Order-NO.
H32LJ-1	ABS(白色/white)	323401
H32LJ-2	ABS(黑色/black)	323402
H32DJ-5*	聚酯/ Polyseter	323905

* 用于高温环境/be used for high temperature.

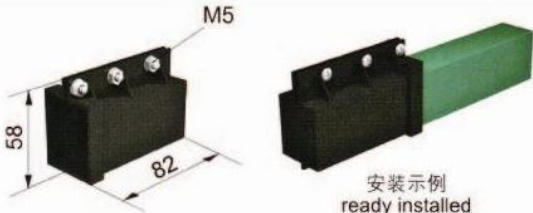
接头/Joints 每个接头均可做供电器使用
Every joint could be use for feeding joint.

型号/Type	材质/Material	产品编码/Order-NO.
H32JT-500A	铝/Aluminium	323422
H32JT-800A	铜/Copper	323423
H32JT-1000A	铝/Aluminium	323425
H32JT-1250A	铜/Copper	323427
H32JT-1600A	铜/Copper	323429



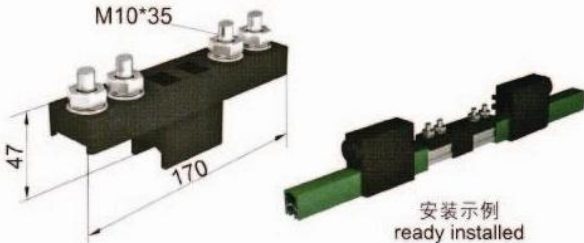
端帽/End cap

型号/Type	材质/Material	产品编码/Order-NO.
H32DM	工程塑料/ plastic	323701



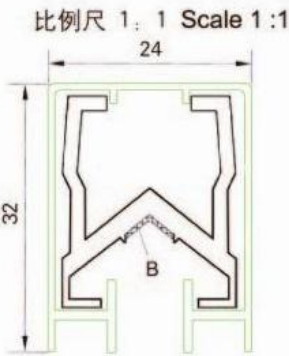
分段装置/Isolating Section

型号/Type	材质/Material	产品编码/Order-NO.
H32FD	工程塑料/ plastic	326030



滑触线基本型号/PARTS OF THE CONCUCTOR RAIL SYSTEM

H24系列/H24 System



铝导体
Aluminium conductor

不锈钢带宽
Stainless steel belt
B = 8.5 mm

标准长度 Standard Length:6.0 m

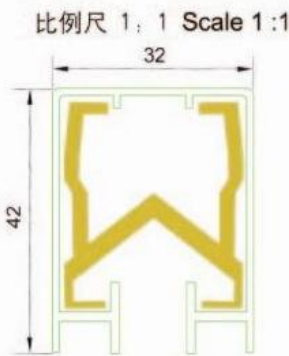
其它长度需协商订购 other lengths on quest.

支架间距/Support spacing:1.5 m

弧线段/Curves

最小半径1200mm.min.R=1.2m

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-H-160/250	铝/Aluminium	160	250	45 or 80	0.203	240126
JDC-H-180/300	铝/Aluminium	180	300	45 or 80	0.187	240136



铜导体
Copper conductor

标准长度 Standard Length:6.0 m

支架间距/Support spacing:1.5 m

其它长度需协商订购 other lengths on quest.

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-HT-160/600	铜/Copper	160	500	45 or 80	0.112	240256
JDC-HT-180/600	铜/Copper	180	600	45 or 80	0.098	240266
JDC-HT-200/700	铜/Copper	200	700	45 or 80	0.087	240276
JDC-HT-230/800	铜/Copper	230	800	45 or 80	0.076	240286

零线护套为黄绿双色护套。

The ground insulation cover is marked yellow-green on one side.

标准护套温度范围： -30℃ to +70℃ Standard insulation suitable from -30℃ to +70℃ ambient temperature.

高温护套温度范围： -20℃ to +115℃ High temperature insulation suitable from -20℃ to +115℃ ambient temperature.

低温护套温度范围： -40℃ to +85℃ Low temperature insulation suitable from -40℃ to +85℃ ambient temperature.

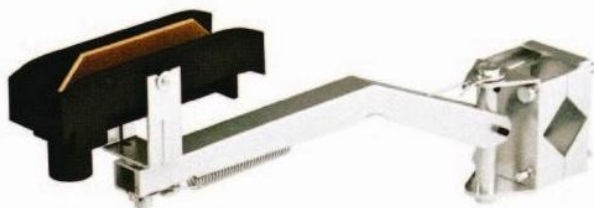
H24集电器/Current Collector

集电器参数表

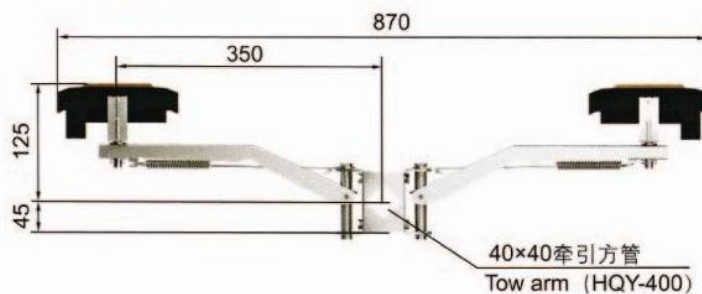
技术参数/Technical data

电刷材料/Brush material	铜基石墨/Copper-graphite brush
环境温度/Temperature	-40℃ — +115℃
运行速度/Speed	≤360m/min
工作电压/Voltage	交流电压/ACV: ≤ 750V, 直流电压/DCV: ≤ 1000V
电刷接触压降/Contact voltage drop	0.20-0.25V
电刷有效磨损量/Abrasion loss of brush	6-8 mm
牵引力/Contact pressure	$F \leq 25N$
水平方向移动误差/Horizontal movement	± 100 mm
垂直方向移动误差/Vertical movement	± 40 mm

JD-200



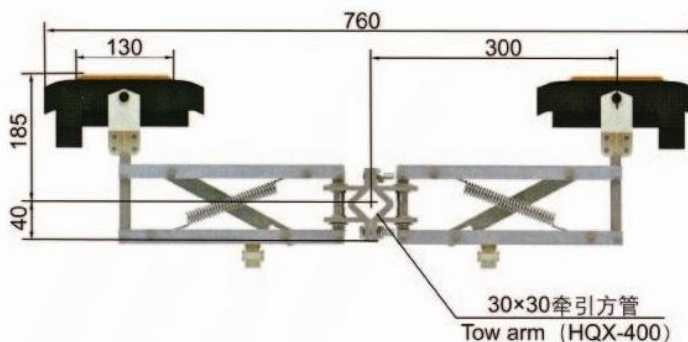
JD*2-200



JDL-200



JDL*2-200



适用于H24系列

Be used for Conductor rail H24 System

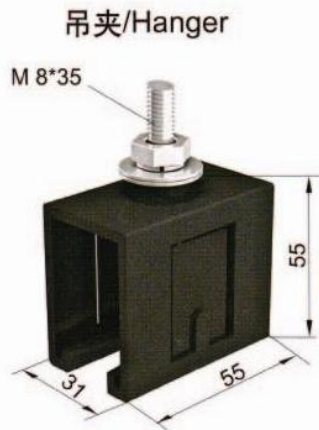
型号/Type	支撑架/Hardware	额定电流/Nominal current	产品编码/Order-NO.
JD-200	镀锌钢/Galvanized	200Amp	243110
JD*2-200	镀锌钢/Galvanized	400Amp	243120
JDL-200	铝/Aluminum	200Amp	243130
JDL*2-200	铝/Aluminum	400Amp	243140

牵引器/Tow arm
HQX-400



产品编码/Order-NO.
245040

H24系列配件/Accessories for H24



型号/Type	材质/Material	产品编码/Order-NO.
H24DJ-1	ABS(白色/white)	243901
H24DJ-2	ABS(黑色/black)	243902
H24DJ-3	尼龙/ Nylon	243903
H24DJ-5*	聚酯/ Polyseter	243905

※用于高温环境/be used for high temperature.

连接盒/Joining box

型号/Type	材质/Material	产品编码/Order-NO.
H24LJ-1	ABS(白色/white)	243401
H24LJ-2	ABS(黑色/black)	243402
H24DJ-5*	聚酯/ Polyseter	243905

※用于高温环境/be used for high temperature.

接头/Joints

每个接头均可做供电使用
Every joint could be use for feeding joint.

型号/Type	材质/Material	产品编码/Order-NO.
H24JT-50A	镀锌钢/Galvanized steel	243421
H24JT-140A	镀锌钢/Galvanized steel	243422
H24JT-250A	铝/Aluminium	243425
H24JT-500A	铜/Copper	243426
H24JT-800A	铜/Copper	243428



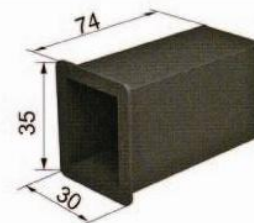
铝接头/Aluminium joint

铜接头/Copper joint



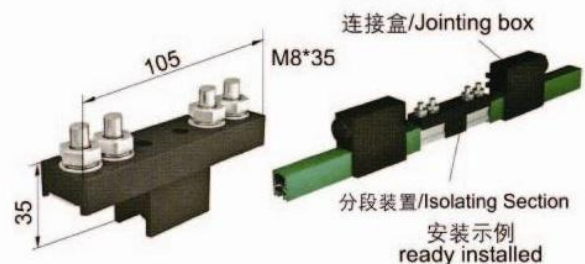
端帽/End cap

型号/Type	材质/Material	产品编码/Order-NO.
H24DM	工程塑料/ plastic	243701



分段装置/Isolating Section

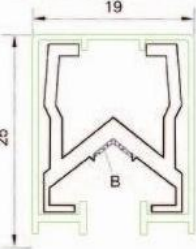
型号/Type	材质/Material	产品编码/Order-NO.
H24FD	工程塑料/ plastic	246030



滑触线基本型号/PARTS OF THE CONCUCTOR RAIL SYSTEM

H19系列/H19 System

比例尺 1: 1 Scale 1:1



铝导体
Aluminium conductor
不锈钢带宽
Stainless steel belt
B = 7.2 mm

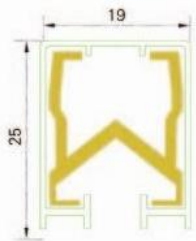
标准长度 4.5米,其它长度需协商订购.
Standard Length:4.5 m,other lengths on quest.
支架间距/Support spacing:1.5 m*
弧线段/Curves
最小半径800mm.min.R=0.8m

应用范围:起重机、单轨道供电系统、升降设备、
车床、流水线、自动仓储分拣系统、照明系统等。
Main application:for overhead and elongated
tracks for cranes , monorails , electric hoists,
electric tools , stacking systems , as well as
many other applications for supplying power to
moving power loads.

* 当用于流水线生产等设备时，支架间距为0.5米-0.8米。
For producting line,the support spacing is 0.5m-0.8m

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-HS-95/25	不锈钢/Stainless steel	95	25	35 or 80	11.652	190415
JDC-H-100/150	铝/Aluminium	100	150	35 or 80	0.376	190135

比例尺 1: 1 Scale 1:1



铜导体
Copper conductor

标准长度,其它长度需协商订购。 Standard Length:4.5 m,other lengths on quest.

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-HT-50/150	铜/Copper	50	150	35 or 80	0.376	190255
JDC-HT-65/200	铜/Copper	65	200	35 or 80	0.289	190265
JDC-HT-110/300	铜/Copper	110	300	35 or 80	0.195	190275
JDC-HT-130/500	铜/Copper	130	500	35 or 80	0.156	190285

零线护套为黄绿双色护套。
The ground insulation cover is marked yellow-green on one side.

标准护套温度范围: -30℃ to +70℃	Standard insulation suitable from	-30℃ to +70℃ ambient temperature.
高温护套温度范围: -20℃ to +115℃	High temperature insulation suitable from	-20℃ to +115℃ ambient temperature.
低温护套温度范围: -40℃ to +85℃	Low temperature insulation suitable from	-40℃ to +85℃ ambient temperature.

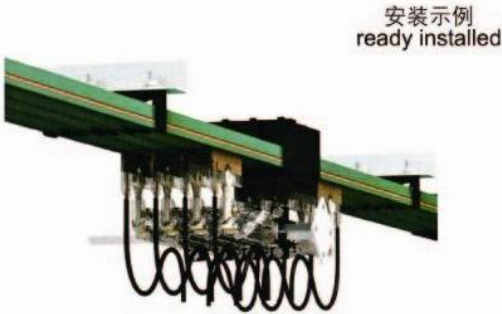
集电器/Current Collector

集电器参数表

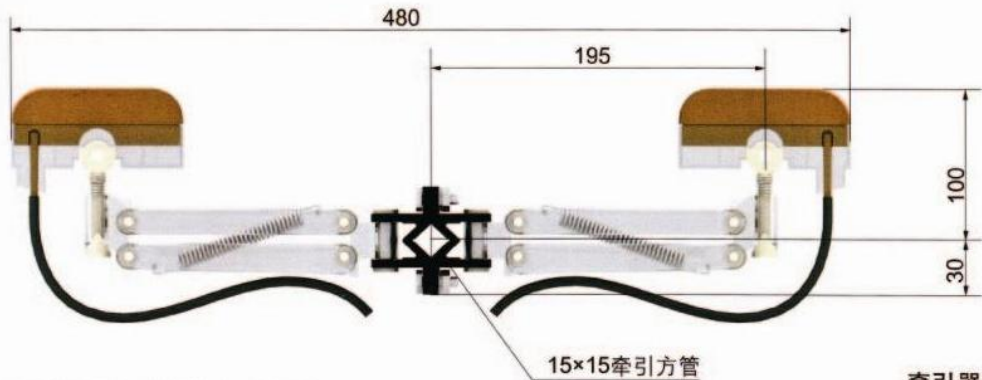
技术参数/Technical data

电刷材料/Brush material	铜基石墨/Copper-graphite brush
环境温度/Temperature	-40℃ —— +115℃
运行速度/Speed	≤360m/min
工作电压/Voltage	交流电压/ACV: ≤ 750V,直流电压/DCV: ≤ 1000V
电刷接触压降/Contact voltage drop	0.15V
电刷有效磨损量/Abrasion loss of brush	8 mm
牵引力/Contact pressure	F≤ 18N
水平方向移动误差/Horizontal movement	± 80 mm
垂直方向移动误差/Vertical movement	± 15 mm

JD-100



JD*2-100



适用于H19系列、H24系列、H32系列
Be uesd for Conductor rail H19 System,H24 System,H32 System

型号/Type	支撑架/Hardware	额定电流/Nominal current	产品编码/Order-No.
JD-100	聚酯/Polysete	100Amp	193110
JD*2-100	聚酯/Polyseter	200Amp	193120



H19系列配件/Accessories for H19

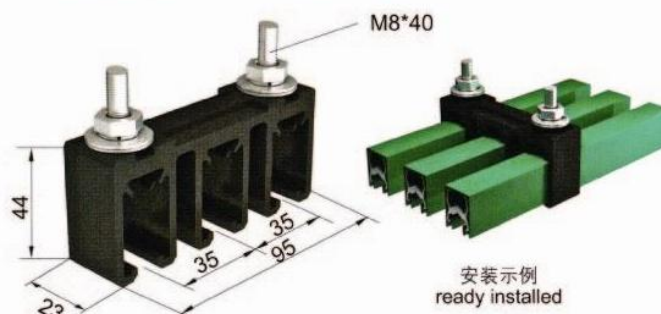
单孔吊夹/Single-Pole hanger



型号/Type	材质/Material	产品编码/Order-NO.
H19DJ-1	ABS(黑色/black)	193901
H19DJ-5*	聚酯/ Polyseter	193905

* 用于高温环境/be used for high temperature.

三孔吊夹/Three-Pole hanger



型号/Type	材质/Material	产品编码/Order-NO.
H19DJ-13	ABS(黑色/black)	193913
H19DJ-35*	聚酯/ Polyseter	193915

连接盒/Joining box

型号/Type	材质/Material	产品编码/Order-NO.
H19LJ-1	ABS(黑色/black)	193401
H19LJ-5*	聚酯/ Polyseter	193405

* 用于高温环境/be used for high temperature.

接头/Joints

每个接头均可做供电使用
Every joint could be use for feeding joint.

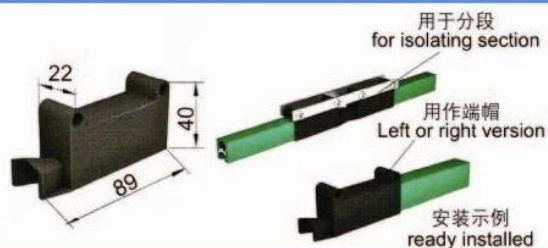
型号/Type	材质/Material	产品编码/Order-NO.
H19JT-25A	不锈钢/Stainless steel	193421
H19JT-150A	铝/Aluminium	193423
H19JT-200A	铜/Copper	193425
H19JT-300A	铜/Copper	193426
H19JT-500A	铜/Copper	193427



端帽喇叭口/End cap

可用作道岔或分段 It could be used for switch or isolating section.

型号/Type	材质/Material	产品编码/Order-NO.
H19DM	工程塑料/ plastic	193701



分段装置/Isolating Section

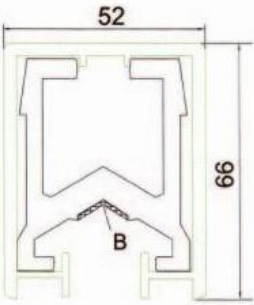
型号/Type	材质/Material	产品编码/Order-NO.
H19FD	工程塑料/ plastic	196030



滑触线基本型号/PARTS OF THE CONCUCTOR RAIL SYSTEM

H52系列/52 System

比例尺 1: 2 Scale 1 :2



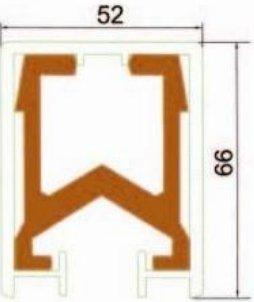
铝导体
Aluminium conductor

不锈钢带宽
Stainless steel belt
B =16 mm

标准长度,其它长度需协商订购/ Standard Length:6.0 mother lengths on quest.

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-H-700/1250	铝/Aluminium	700	1250	100	0.043	390116
JDC-H-1100/1600	铝/Aluminium	1100	1600	100	0.037	390126
JDC-H-1350/2000	铝/Aluminium	1350	2000	100	0.028	390136
JDC-H-1600/2500	铝/Aluminium	1600	2500	100	0.018	390156
JDC-H-2000/3000	铝/Aluminium	2000	3000	100	0.015	390166

比例尺 1: 2 Scale 1 :2



铜导体
Copper conductor

标准长度,其它长度需协商订购/ Standard Length:6.0 mother lengths on quest.

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-HT-500/1600	铜/Copper	500	1600	100	0.036	390226
JDC-HT-700/2000	铜/Copper	700	2000	100	0.026	390236
JDC-HT-850/2500	铜/Copper	850	2500	100	0.018	390256
JDC-HT-1000/3000	铜/Copper	1000	3000	100	0.011	390266
JDC-HT-1200/3500	铜/Copper	1200	3500	100	0.009	390276
JDC-HT-1600/4500	铜/Copper	1600	4500	100	0.008	390286
JDC-HT-1800/5000	铜/Copper	1800	5000	100	0.007	390296

零线护套为黄绿双色护套。

The ground insulation cover is marked yellow-green on one side.

标准护套温度范围: -30℃ to +70℃ Standard insulation suitable from -30℃ to +70℃ ambient temperature.

高温护套温度范围: -20℃ to +115℃ High temperature insulation suitable from -20℃ to +115℃ ambient temperature.

低温护套温度范围: -40℃ to +85℃ Low temperature insulation suitable from -40℃ to +85℃ ambient temperature.

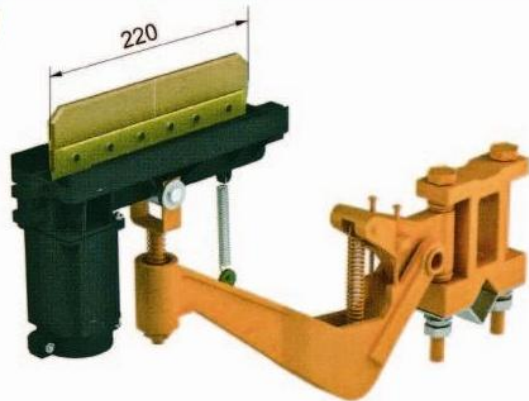
H52集电器/Current Collector

集电器参数表

技术参数/Technical data

电刷材料/Brush material	铜基石墨/Copper-graphite brush
环境温度/Temperature	-40℃ —— +115℃
运行速度/Speed	≤360m/min
工作电压/Voltage	交流电压/ACV: ≤ 750V,直流电压/DCV: ≤ 1000V
电刷接触压降/Contact voltage drop	0.20-0.25V
电刷有效磨损量/Abrasion loss of brush	6-8 mm
牵引力/Contact pressure	F≤ 35N
水平方向移动误差/Horizontal movement	± 100 mm
垂直方向移动误差/Vertical movement	± 40 mm

JD-800

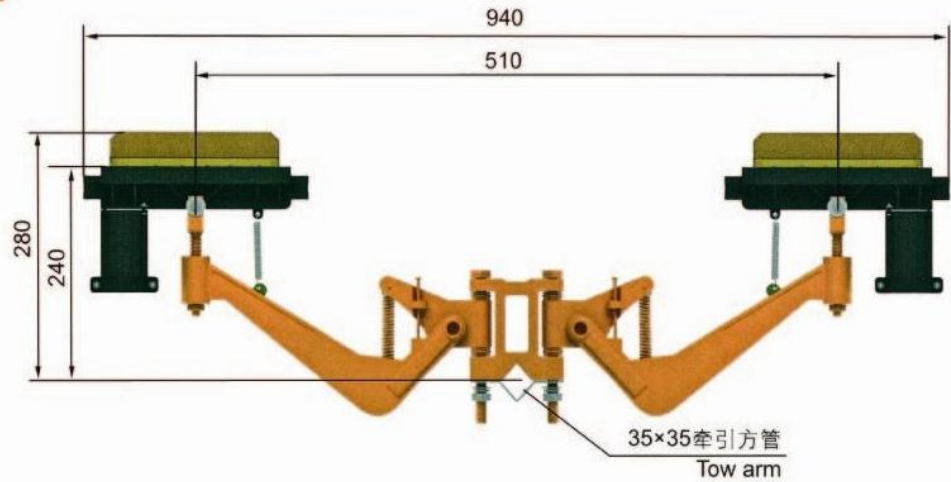


牵引器/Tow arm
HQZ-450



产品编码/Order-NO.
395045

JD*2-800



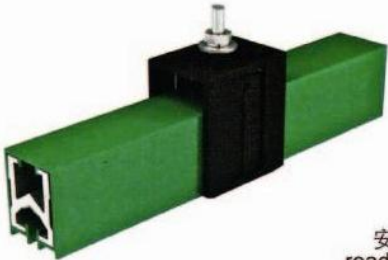
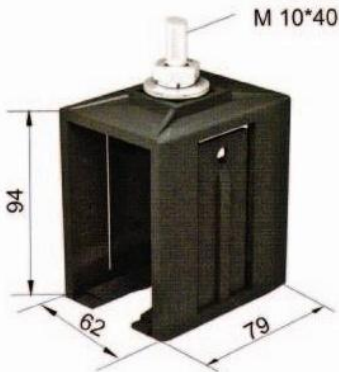
35×35牵引方管
Tow arm

适用于H52系列
Be uesd for Conductor rail H52 System

型号/Type	支撑架/Hardware	额定电流/Nominal current	产品编码/Order-NO.
JD-800	钢/Steel	800Amp	393180
JD*2-800	钢/Steel	1600Amp	393190

H52系列配件/Accessories for H52

吊夹/Hanger



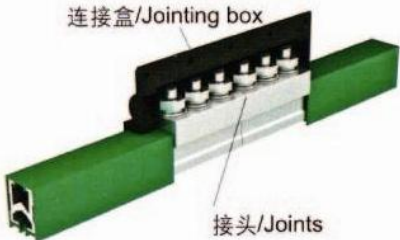
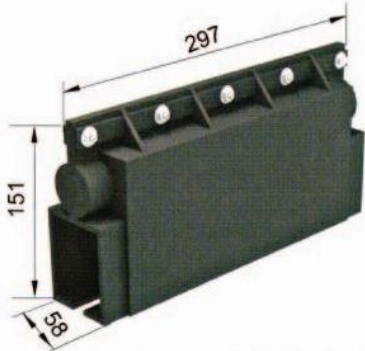
安装示例
ready installed

型号/Type	材质/Material	产品编码/Order-NO.
H52DJ-1	ABS(白色/white)	393901
H52DJ-2	ABS(黑色/black)	393902
H52DJ-3	尼龙/ Nylon	393903
H52DJ-5*	聚酯/ Polyseter	393905

※用于高温环境/be used for high temperature.

连接盒/Joining box

每个接头均可做供电器使用
Every joint could be use for feeding joint.



接头/Joints

安装示例
ready installed

接头/Joints

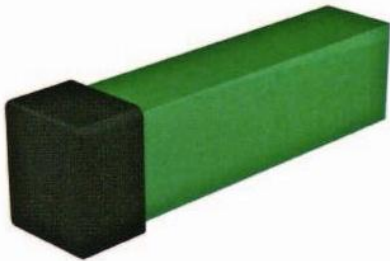
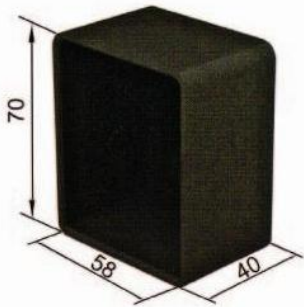


型号/Type	材质/Material	产品编码/Order-NO.
H52LJ-1	ABS(白色/white)	393901
H52LJ-2	ABS(黑色/black)	393902
H52LJ-5*	聚酯/ Polyseter	393905

※用于高温环境/be used for high temperature.

型号/Type	材质/Material	产品编码/Order-NO.
H52JT-1500A	铝/Aluminium	393422
H52JT-2000A	铝/Aluminium	393425
H52JT-2500A	铝/Aluminium	393427

端帽/End cap



安装示例
ready installed

型号/Type	材质/Material	产品编码/Order-NO.
H52DM	ABS	393701

滑触线基本型号/PARTS OF THE CONDUCTOR RAIL SYSTEM

H35防尘系列/H35 Enclosed System*

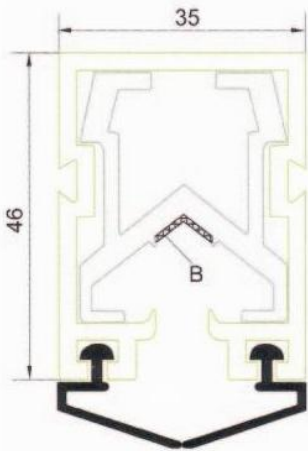
标准长度/Standard Length:6.0m,其它长度需协商订购/other lengths on quest.

型号 Type	导轨材质 Conductor material	截面积(mm ²) Cross section	额定载流量(A) Nominal current	每相间距(mm) Leakage-distance	电阻(Ω/km) Resistance	产品编码 Order-NO.
JDC-HE-230/320	铝/Aluminium	230	320	80	0.153	350126
JDC-HE-285/500	铝/Aluminium	285	500	80	0.116	350136
JDC-HE-360/600	铝/Aluminium	360	600	80	0.087	350156
JDC-HE-420/800	铝/Aluminium	420	800	80	0.067	350166

*H38系列仅提供标准护套。/Only Standard Housing is available.

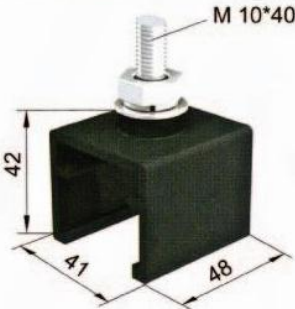
产品截面图/Sectional view

比例尺 1: 1 Scale 1:1



不锈钢带宽
Stainless steel belt
B = 9.8 mm

吊夹/Hanger



型号/Type	材质/Material	产品编码/Order-NO.
H35DJ-1	ABS(白色/white)	353901
H35DJ-2	ABS(黑色/black)	353902
H35DJ-3	尼龙/ Nylon	353903

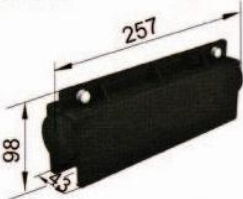
密封条/Sealing strip



型号/Type	材质/Material	产品编码/Order-NO.
56FCT	ABS(白色/white)	569905

连接盒/Joining box

每个接头均可做供电器使用
Every joint could be use for feeding joint.



型号/Type	材质/Material	产品编码/Order-NO.
H35LJ-1	ABS(白色/white)	353401
H35LJ-2	ABS(黑色/black)	353402

接头/Joints**

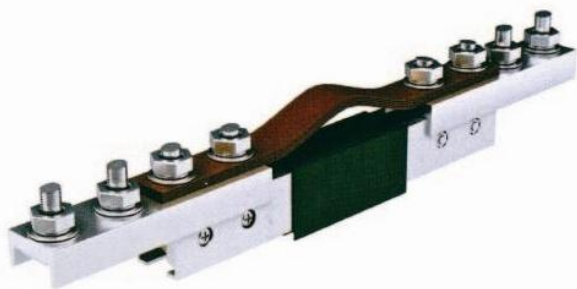
端帽/End cap**

分段装置/Isolating Section**



**请参考H32 系列./Plesae see "H32 System"
产品编码相同/Order-NO. is same .

温度补偿器/EXPANSION JOINT



型号 Type	导体材质 Conductor material	订购编码 Order-NO.
H19PZJ-Al	铝 Al	193501
H19PZJ-Cu	铜 Cu	193502
H24PZJ-Al	铝 Al	243501
H24PZJ-Cu	铜 Cu	243502
H32PZJ-Al	铝 Al	323501
H32PZJ-Cu	铜 Cu	323502
H52PZJ-Al	铝 Al	393501
H52PZJ-Cu	铜 Cu	393502

关于热膨胀补偿的解决方案 /Solution about expansion section

热膨胀补偿的解决方法主要有两种，即分散补偿法和集中补偿法，通常推荐使用分散补偿法。

(1)分散补偿法

分散补偿法就是在每根导线之间有一定间隙，对每根导线单独进行补偿。

* 分散补偿法的重要提示：

采用分散补偿法时，每根导线上必须安装一套且仅仅一套固定架。

预留间隙 x 的确定：采用分散补偿法时，预留间隙 x 与材质和温差 Δt 有关，可以按以下经验公式进行计算：

$$x=a(T_1+T_{max}-T)$$

a：补偿系数，与导体材质有关，

材质为铜 a 取 0.10；为铝时 a 取 0.14

T_1 ：导体温升， $^{\circ}\text{C}$ ，一般取 $+30^{\circ}\text{C}$

T_{max} ：环境最高温度， $^{\circ}\text{C}$

T：安装温度， $^{\circ}\text{C}$

注意预留间隙值 x 不得大于 5mm，超过允许值时应考虑采用集中补偿的方法。

(2)集中补偿法

集中补偿法就是将全线或一定长度的滑线长度变化，在一处或几处进行补偿的方法

a 使用条件：

分散补偿无法满足要求时
全长超过 200m，温差较大时

b 集中补偿的形式

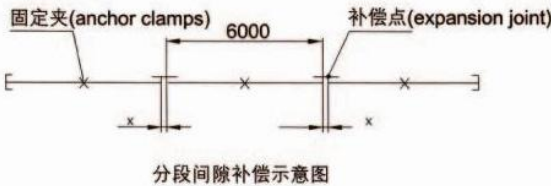
集中补偿有热膨胀段补偿和喇叭口补偿两种形式，通常采用热膨胀段补偿。

(3)安装全线长度超过 200m 时，补偿段数量的确定

补偿段的数量与全线长度和温差 Δt 有关，请查下表：

Installation hint:

The expansion joint section is supplied fully assembled in a 6 m length(H19 is 4.5 m length).With the exception of the rail connector installation no extra work is required on site.Please note,however,that the two air gaps in the eapansion joint must be adjusted as pen diagram 1 corresponding to the ambiet temperature during assembly.The air gaps must be rechecked after fitting the anchor clamps. Both air gaps in an expansion joint must be identical.



安装全线长度超过200米事，补偿数量的确定
 Expansion joints are installed at certain distance or conductor on conductor rail installations over 200 m in length.

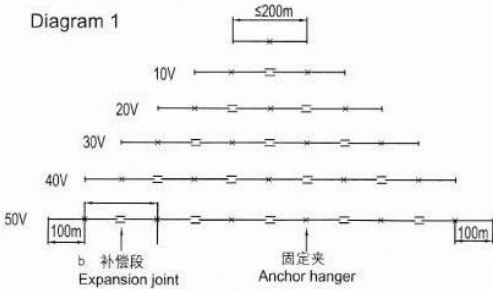
补偿段数量 n Number of expansion joints		1		2		3		4		5		补偿距离 a Intermediate length a	
滑线系统总长度 (米) Total length of conductor rail installation(m)												m	
材质 material		铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu
温差 △t℃	10	400	400	600	600	800	800	1000	1000	1200	1200	200	200
	20	387	400	575	600	762	800	950	1000	1138	1200	187	200
	30	325	376	450	553	575	729	700	905	825	1082	125	176
	40	293	332	387	464	481	597	575	729	669	862	93	132
	50	275	306	350	412	425	517	500	623	575	729	75	106
	60	262	288	325	376	387	464	450	553	512	641	62	88
	70	253	275	307	351	360	427	414	502	468	578	53	75
	80	247	266	294	332	340	398	387	464	434	531	47	66
	90	242	259	283	317	325	375	366	435	408	494	42	59
	100	237	253	275	306	312	359	350	412	387	464	37	53

$\Delta t = \Delta t_a + \Delta t_h$
 Δt_a : 环境温差 ambient temperature range $^{\circ}\text{C}$
 Δt_h : 温升, 其值查温升表 temperatyre rise due to current heating $^{\circ}\text{C}$
 DV: 补偿段 eapansion joint

当安装长度超过表中所列值时补偿段数量按下式进行计算 For longer installations than shown in our table:

$$n = \frac{L - 200}{a}$$

Diagram 1



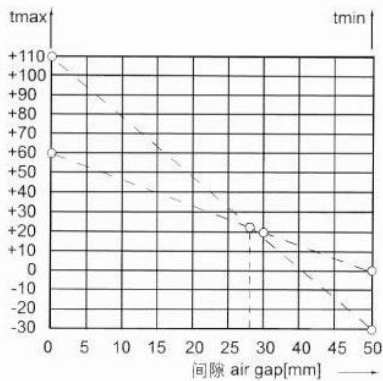
安装示意图 Diagram of installation

负载持续率 Duty cucle	温升 Δt_h $^{\circ}\text{C}$
40%	10
60%	20
100%	30

(4)预留间隙确定

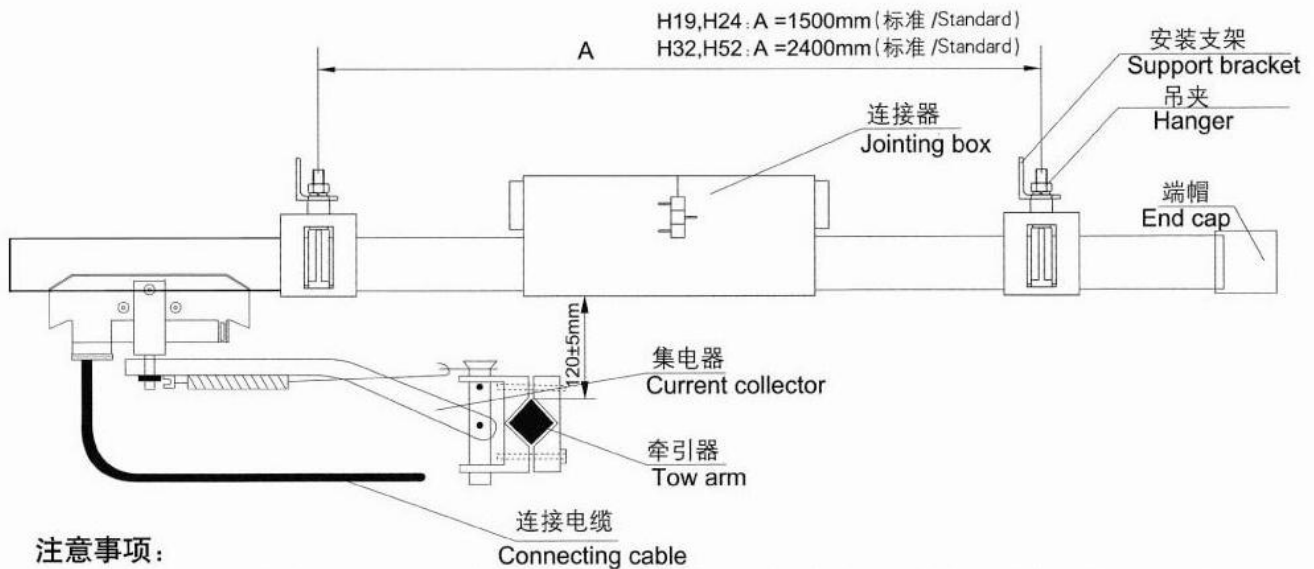
集中补偿的预留间隙值 $\times$ 值，与安装温度和当地温差有关。按下表进行计算。

Diagram 2



例 Examples:
 某地最高温度 Tmax=60 $^{\circ}\text{C}$
 lowest temperature that occurs in the application area
 某地最低温度 Tmin=0 $^{\circ}\text{C}$
 highest operational temperature that occurs in the application area
 安装温度: T=20 $^{\circ}\text{C}$
 查表可知: $\times$ =30mm
 说明:
 1 膨胀段两端的预留间隙值相同且都为图标所查的 $\times$ 值。
 2 当采用喇叭口作为膨胀段时,其预留间隙应为 2 $\times$ 。
 3 查表方法为将当地最高温度和最低温度连成一斜线; 然后在安装温度外沿 $\times$ 轴向斜线划线,其对应的值即为 $\times$ 值。

H系列总装图/SYSTEM ARRANGEMENT



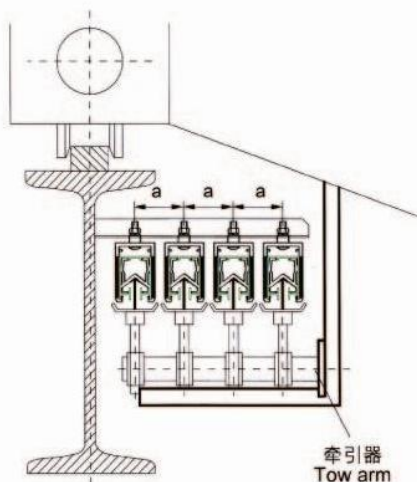
注意事项:

- 1、支架安装: 首先在轨道两端固定两支支架(焊接或螺栓), 调整至水平标准状态(如线路长可在中间增加一至两点)。然后再两支支架间拉线作为基准, 其余支架按标准距离安装(螺栓 1800mm, 焊接 2000mm), 确保导线和轨道高度与水平平行度误差小于 10mm。
- 2、导轨与连接器连接处用砂布打磨去除氧化层, 必要时涂导电膏, 拧紧固定螺丝, 检查导轨之间连接间隙为最小。
- 3、集电器安装: 根据集电器的极数和安装空间确定牵引器的长度, 集电器的安装高度尺寸定位——牵引器上沿与滑线下沿保持 $120 \pm 5\text{mm}$ 的距离为宜(参考滑线总装图)。
- 4、端帽: 滑触线主体安装完毕后, 在两端装上端帽, 并用胶布固定。
- 5、复检: 检查滑线与起重设备的运行轨道的平行度, 要求不大于 20MM, 当试运行重点观察集电器碳刷片通过每一个节点的状况, 发现问题当场解决, 拧紧所有紧固件, 连续运行一月后, 所有紧固件再拧紧一次。

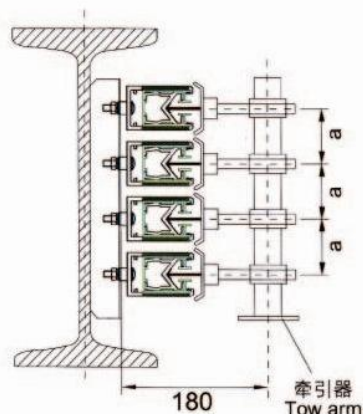
Installation Manual:

1. Support Installation: Fix the two supports of both sides of the guide (welding or bolt) and adjust to the horizontal state (add 1 or 2 points to meet the length of the wiring route). Take the wiring between the two supports as the benchmark, the rest supports should be installed according to the standard distance (1800 mm for bolt and 2000 mm for welding), to ensure the depth of parallelism of the conductor rail between the height of the guide less than 10 mm.
2. The connection part of the guide and the connector should be polished with abrasive cloth to remove the oxide layer, apply the electrical conductive pastes and screw the bolt, double check if the seam of the guides is in minimum.
3. The installation of the current collector: Define the length of the tractor unit according to the amount of electrode and installation space. $120 \pm 5\text{mm}$ distance should be ensured in distance between the upper end and down end of the conductor rail (refer to the installation drawing of the conductor rail for more detail).
4. End cap: Install the end caps on both sides and tighten them with rubberized fabric.
5. Inspection: Inspect the depth of parallelism between the conductor rail and operation guide of the hoisting unit and control the depth within 20mm, make a test run and check the running state of the flake passing through each nodal point, tighten all the fastening piece if some problems occurs, dry run one month without interval and tighten all fastening pieces again.

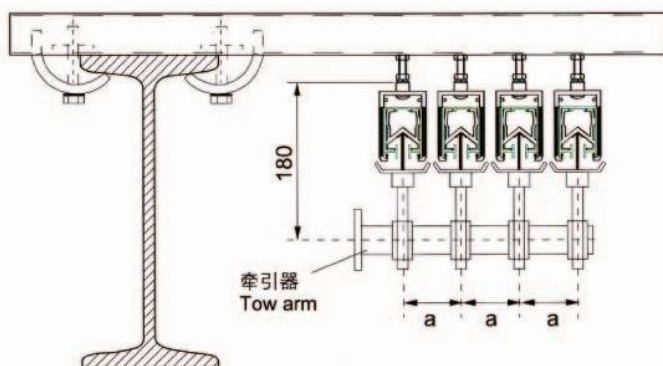
H系列安装图/SYSTEM ARRANGEMENT



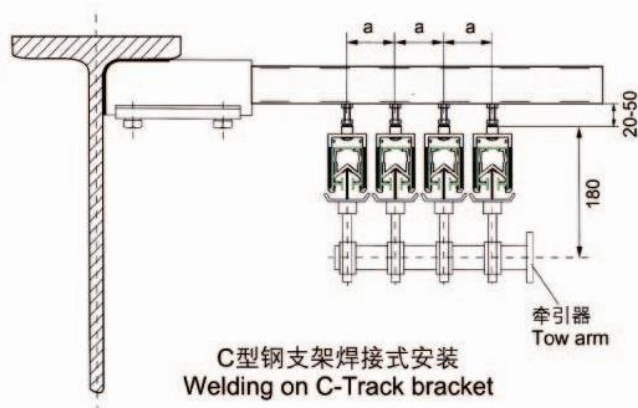
工字钢梁水平安装(角钢焊接式支架)
Vertical operation of power rail(welding on Angle steel bracket)



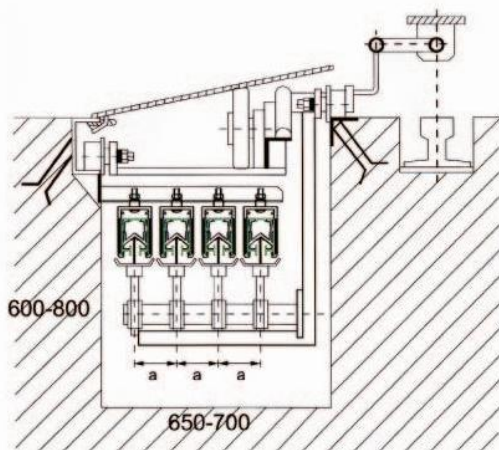
工字钢梁垂直安装(角钢焊接式支架)
Horizontal operation of power rail(welding on Angle steel bracket)



C型钢支架组装式安装
Splitting on C-Track bracket



C型钢支架焊接式安装
Welding on C-Track bracket



地沟安装 Trench installation

滑线相间距尺寸 a Standard spacing of current collector(a)

型号 Type	标准相间距 a(mm) Centre distance between two conductor rail
H19	35 or 80
H24	45 or 80
H32	80
H35	80
H52	100

安装支架/SUPPORT BRACKET

型号 Type	极数 Poles	示意图 Schematic	材质 Material	产品编码 Order-NO.
HZJ-31	3		角钢 Angle steel	320001
HZJ-41	4		角钢 Angle steel	320002
HZJ-32	3		扁钢 Flat steel	320011
HZJ-42	4		扁钢 Flat steel	320012
HZJ-C	3-4		C型钢 C-Track	320021