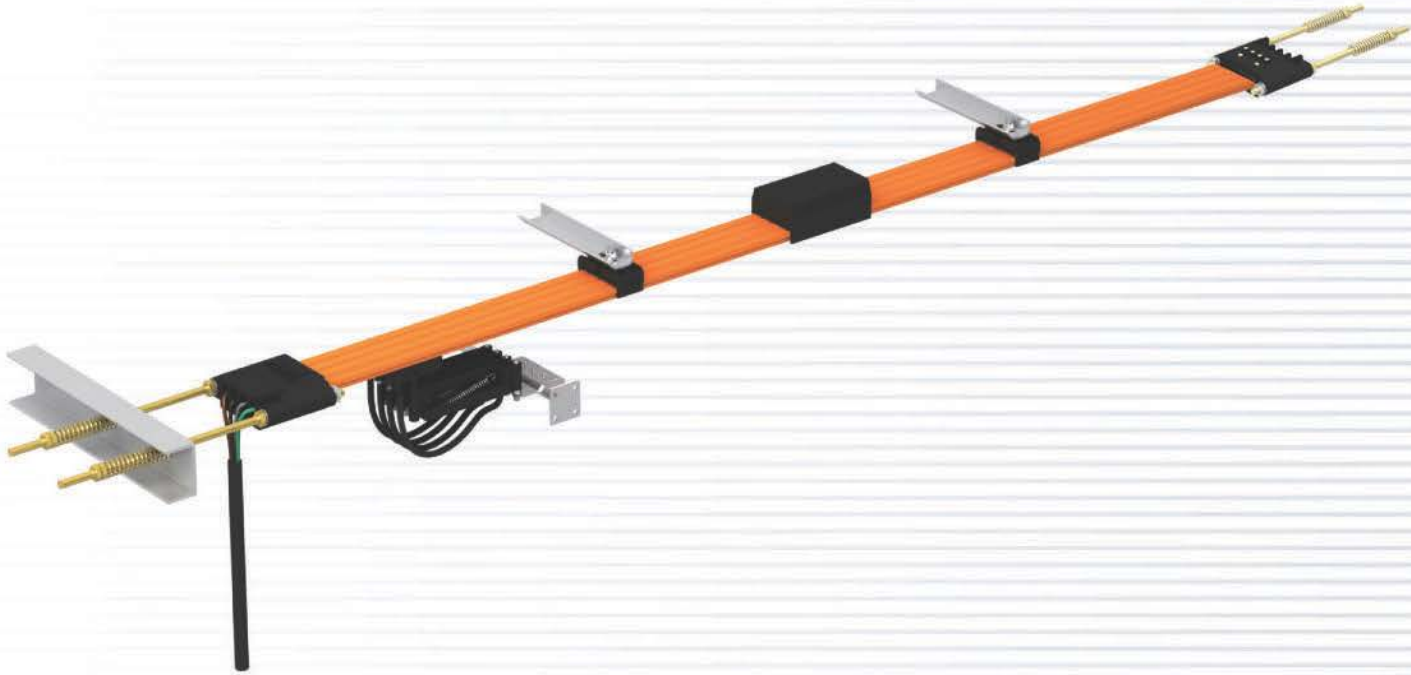


◆ 无缝滑触线KM系列

HIGH-TRO-REEL SYSTEMS KM



Mobile Electrification System  
**KOMAY**<sup>®</sup>

## 产品简介 / Introduction of products

随着 FMS 化，无人工厂化，设备的自动化程度越来越高，因此滑触线的小型化、安装简便性、高速平稳性显得极为重要。为满足市场发展的需要，本公司成功开发了 KM 系列无缝滑触线，本系统具有运行平稳，速度快，噪音低，供电方式随意性高等特点。

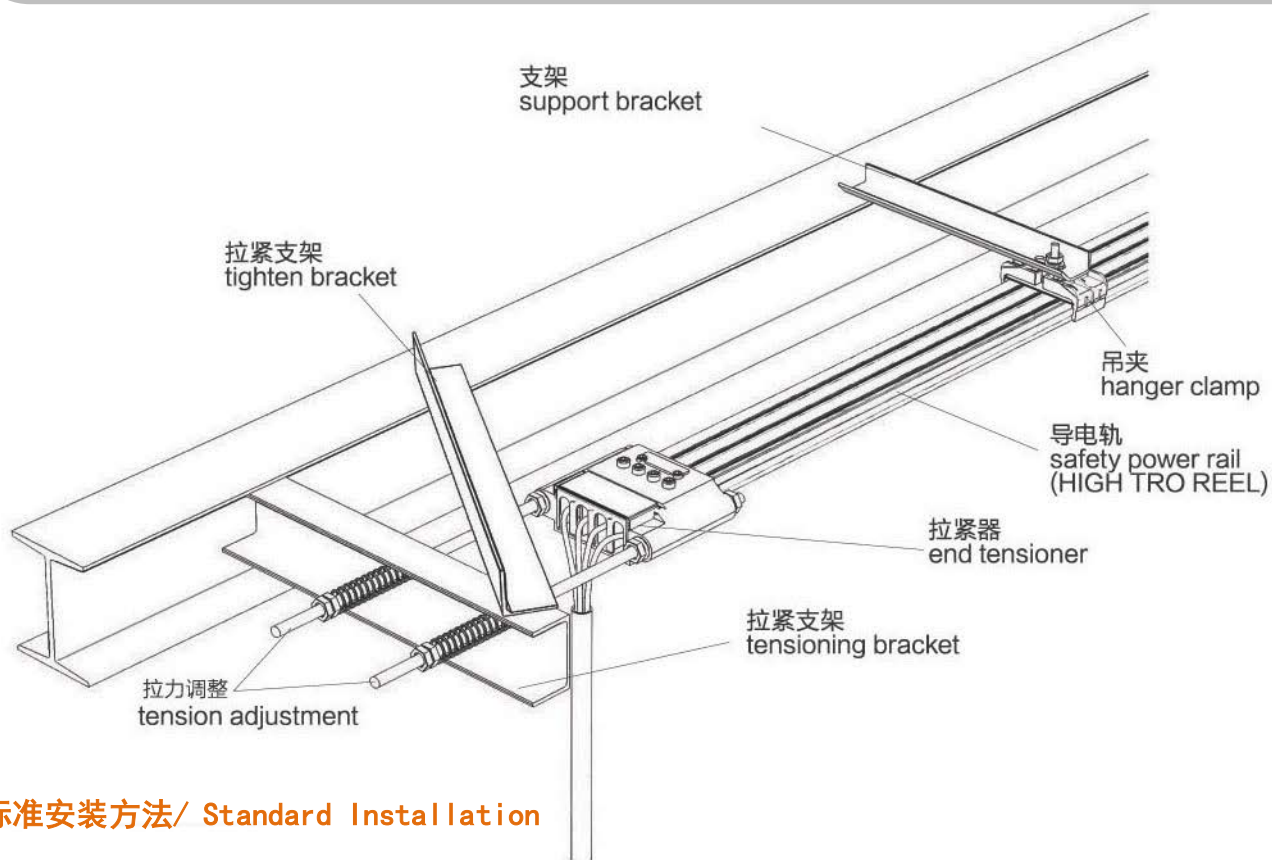
With FMS, unmanned factory, increasing the degree of automation of the device, the miniaturization of the conductor rail system, ease of installation, high-speed stability is extremely important. To meet the needs of market development, we has successfully developed the KM series seamless conductor rail system, the systems has the following advantages, run smoothly, high speed, low noise, powered way arbitrariness.

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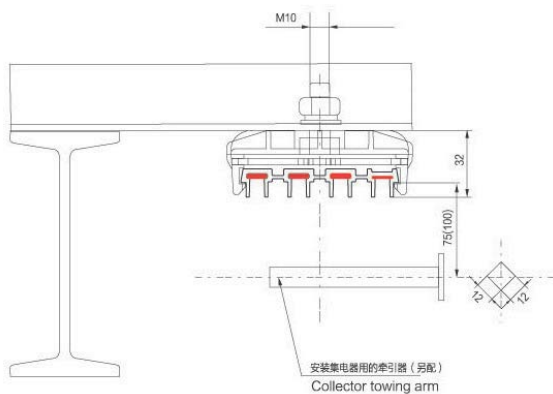
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## 安装示意图/ Installation View

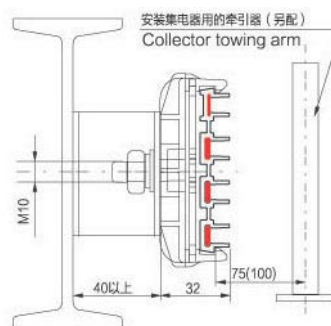
- 提供 1000 米以内无缝滑线本体
- 方便快速安装。根据不同的负载要求提供 3P、4P (35A、50A、65A、80A、100A、120A、140A)、6P (50A、80A) 共 3 种型号，可与负载进行匹配，经济的选择利用。同时 3P、4P、6P 可组合成其他型号。
- Supply 1000m conductor without any joint.
- Installation easily and quickly. Offer 3P, 4P (35A, 50A, 65A, 80A, 100A, 120A, 140A), 6P (50A, 80A) total three types, with the load matching, selection and utilization economically. Meanwhile 3P, 4P can be combined into other types.



## 标准安装方法/ Standard Installation



水平安装  
Horizontal installation

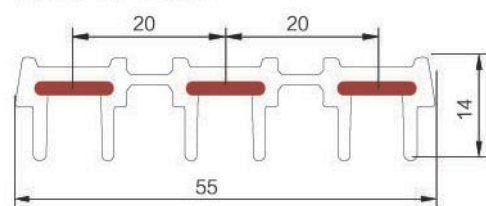


垂直安装 (工字钢轨)  
Vertical installation

**KM3P 本体 (室内专用) / KM3P Body (indoor only)**

- 额定值/Rating: 3P; 690V 50A~120A
- 导体材质: 铜 Conductor material: copper
- 绝缘外套材质: 硬质聚氯乙烯 (耐热: 75℃)  
Insulated Jacket Material: rigid PVC (heat resistance: 75 °C)

比例尺: 1:1 Scale 1:1

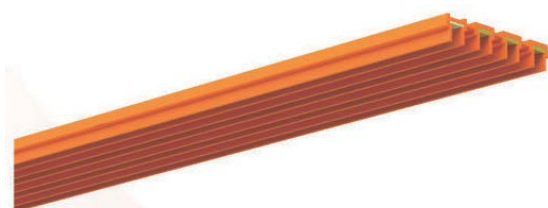
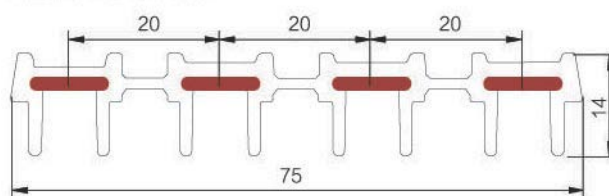


型号 Type	级数 Poles	截面积 Conductor cross section (mm <sup>2</sup> )	额定载流量 Max. current (A)
761003	3	3 x 10 mm <sup>2</sup>	50A
761503	3	3 x 15 mm <sup>2</sup>	80A
762003	3	3 x 20 mm <sup>2</sup>	100A
762503	3	3 x 25 mm <sup>2</sup>	120A
763503	3	3 x 35 mm <sup>2</sup>	140A

**KM4P 本体 (室内专用) / KM4P Body (indoor only)**

- 额定值/Rating: 4P; 690V 50A~120A
- 导体材质: 铜 Conductor material: copper
- 绝缘外套材质: 硬质聚氯乙烯 (耐热: 75℃)  
Insulated Jacket Material: rigid PVC (heat resistance: 75 °C)

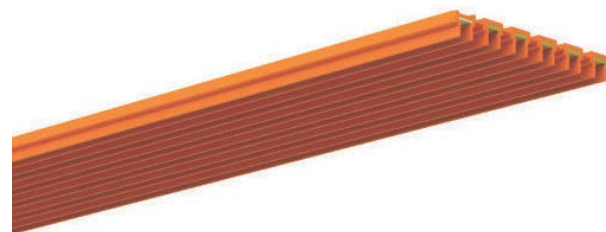
比例尺: 1:1 Scale 1:1



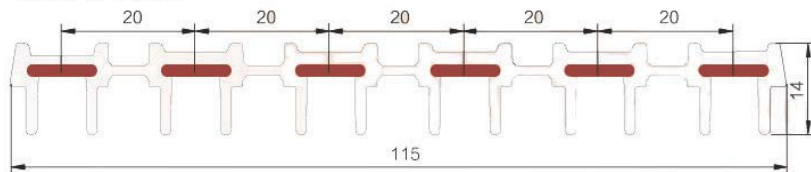
型号 Type	级数 Poles	截面积 Conductor cross section (mm <sup>2</sup> )	额定载流量 Max. current (A)
761004	4	4 x 10 mm <sup>2</sup>	50A
761504	4	3 x 15 mm <sup>2</sup> + 1 x 10 mm <sup>2</sup>	80A
762004	4	3 x 20 mm <sup>2</sup> + 1 x 10 mm <sup>2</sup>	100A
762504	4	3 x 25 mm <sup>2</sup> + 1 x 12.5 mm <sup>2</sup>	120A
763504	4	3 x 35 mm <sup>2</sup> + 1 x 12.5 mm <sup>2</sup>	140A

**KM6P 本体 (室内专用) / KM6P Body (indoor only)**

- 额定值/Rating: 6P; 690V 50A~80A
- 导体材质: 铜 Conductor material: copper
- 绝缘外套材质: 硬质聚氯乙烯 (耐热: 75℃)  
Insulated Jacket Material: rigid PVC  
(heat resistance: 75 °C)

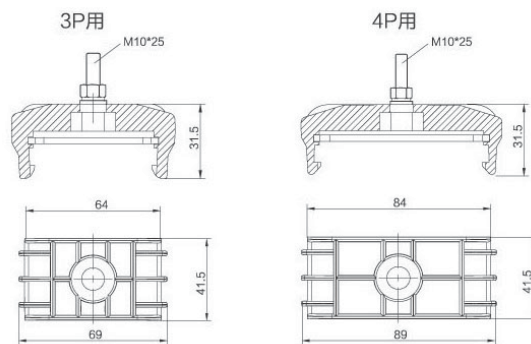


比例尺: 1:1 Scale 1:1



型号 Type	级数 Poles	截面积 Conductor cross section (mm <sup>2</sup> )	额定载流量 Max. current (A)
761006	6	6 x 10 mm <sup>2</sup>	50A
761506	6	6 x 15 mm <sup>2</sup>	80A

## 吊夹/Hanger Clamp



型号/Type	类型/Model	重量/Weight (Kg)	材质/Material
768503	3P 50A-120A 用	0.070	工程塑料/Plastic
768513	3P 140A 用	0.068	工程塑料/Plastic
768504	4P 50A-120A 用	0.080	工程塑料/Plastic
768514	4P 140A 用	0.078	工程塑料/Plastic
768506	6P	0.098	工程塑料/Plastic

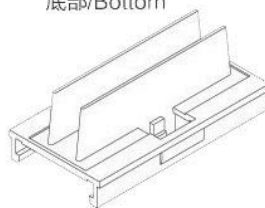
## 连接盒（中间供电）/Jointing Box (Line Feeding)



弯连接头  
Bended joints



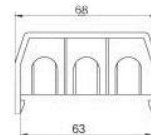
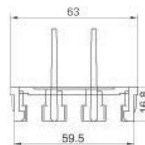
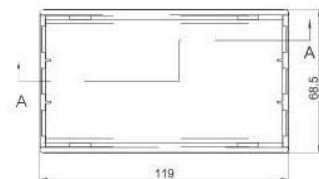
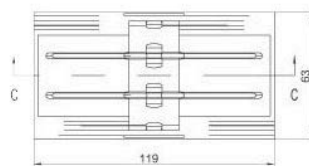
底部/Bottom



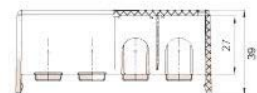
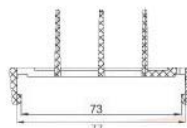
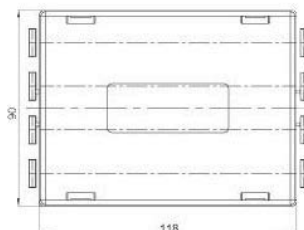
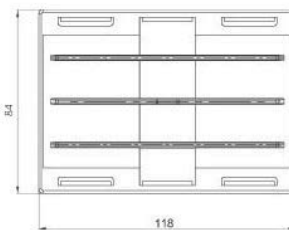
顶盖/Cover



3P用



4P用

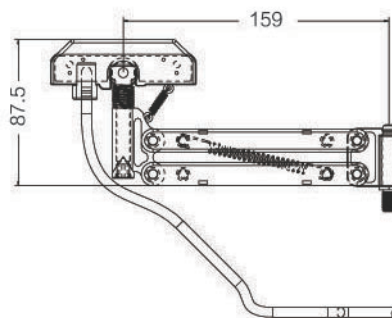


型号/Type	类型/Model	额定值 /Rating	重量 /Weight (Kg)
768303	3P, 弯连接 Bended joints	3P690V100A	0.20
768304	4P, 弯连接 Bended joints	4P690V100A	0.25
768306	6P, 弯连接 Bended joints	6P690V100A	0.35

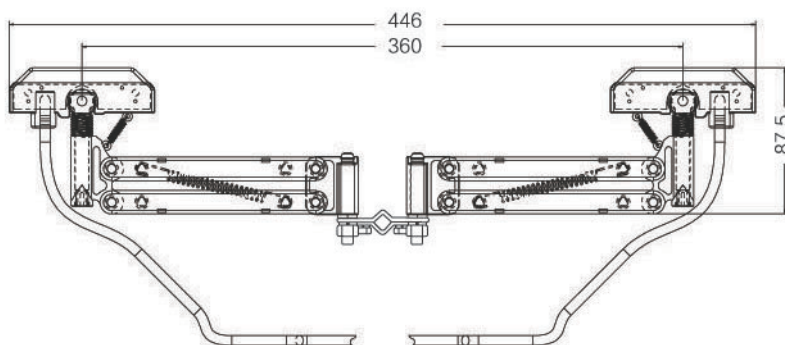
## 集电器/Collector



单集电器/Single Collector 769020



双集电器/Double collector 769040

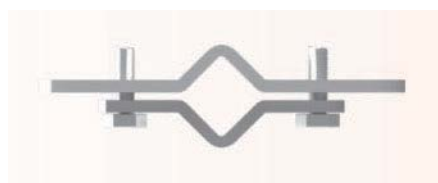


型号/Type	类型/Model	重量/Weight (Kg)	材质/Material
769010	690V 30A	0.16	工程塑料/Plastic
769020	690V 60A	0.17	工程塑料/Plastic
769030	690A 60A	0.32	工程塑料/Plastic
769040	690A 120A	0.34	工程塑料/Plastic

## 牵引底板/Towing Bracket

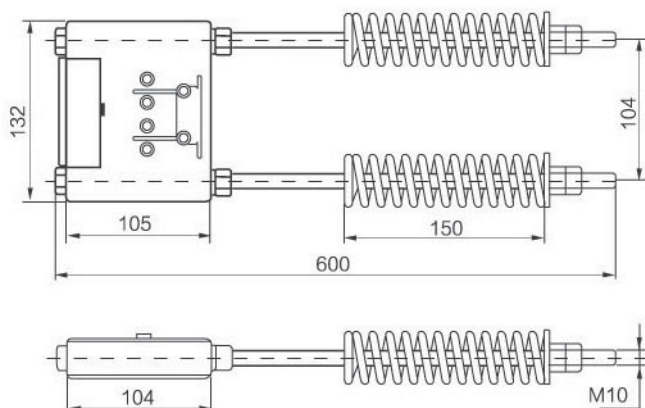
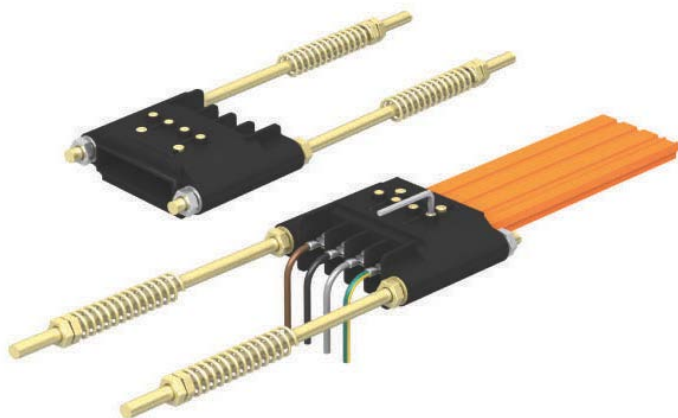


集电器安装示例  
collector ready installed



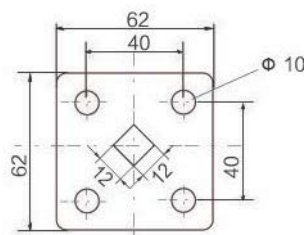
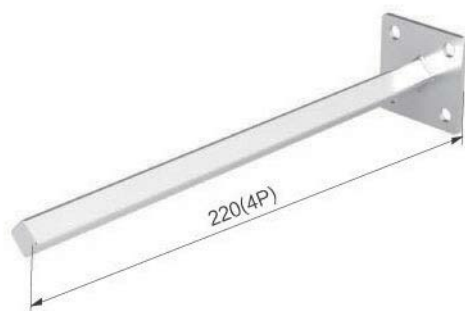
型号/Type	类型/Model	重量/Weight (Kg)	材质/Material
769103	3P 用	0.122	镀锌钢/steel
769104	4P 用	0.168	镀锌钢/steel

## 拉紧器（端供）/ End Tensioner (End Feeding)



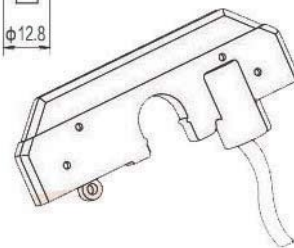
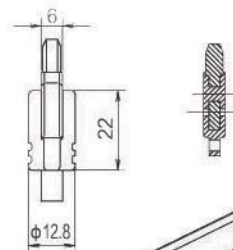
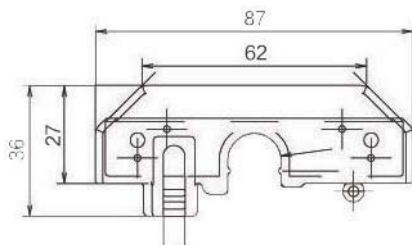
型号/Type	类型/Model	额定值 Rating	重量/Weight (Kg)
KM768003	3P 带馈电端子	3P 690V 120V	1.80
KM768004	4P 带馈电端子	4P 690V 120V	2.15
KM768006	6P 带馈电端子	6P 690V 120V	2.95

## 牵引方管/ Towing Arm



型号/Type	类型/Model	重量/Weight (Kg)	材质/Material
KM769133	3P	0.58	镀锌钢/steel
KM769144	4P	0.65	镀锌钢/steel

## 电刷/Carbon Brush



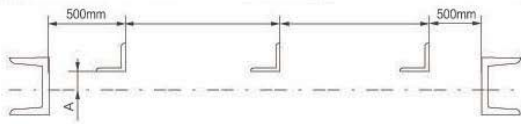
型号/Type	类型/Model	重量/Weight (Kg)	材质/Material
30A	集电器用/For collector	0.070	工程塑料+碳刷 Plastic & Carbon
60A	集电器用/For collector	0.075	工程塑料+碳刷 Plastic & Carbon

## 安装技术参数/Installation Technical Parameters

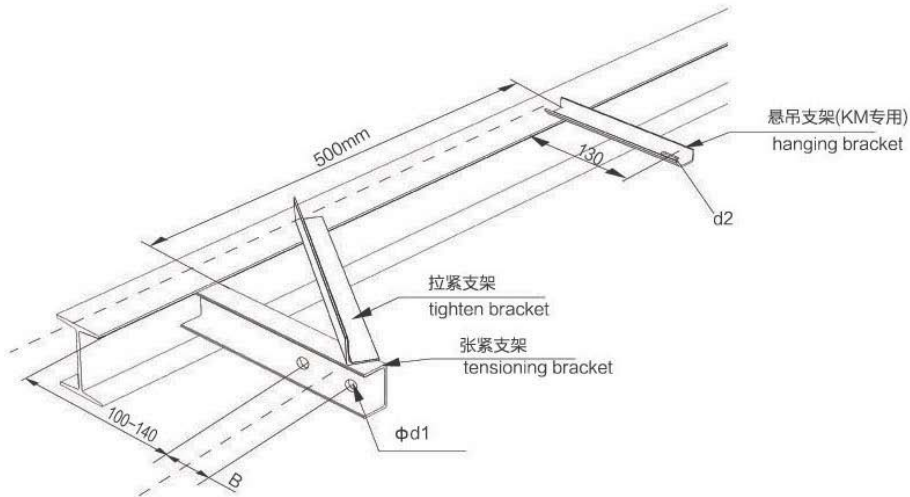
### 1 基本参数 Basic Parameters

#### 2 悬吊支架与拉紧支架的结构布局

The structure and layout of the hanging bracket and tighten bracket



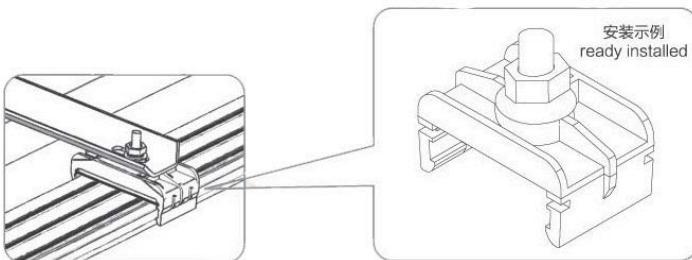
应用范围 Application Range	A=20
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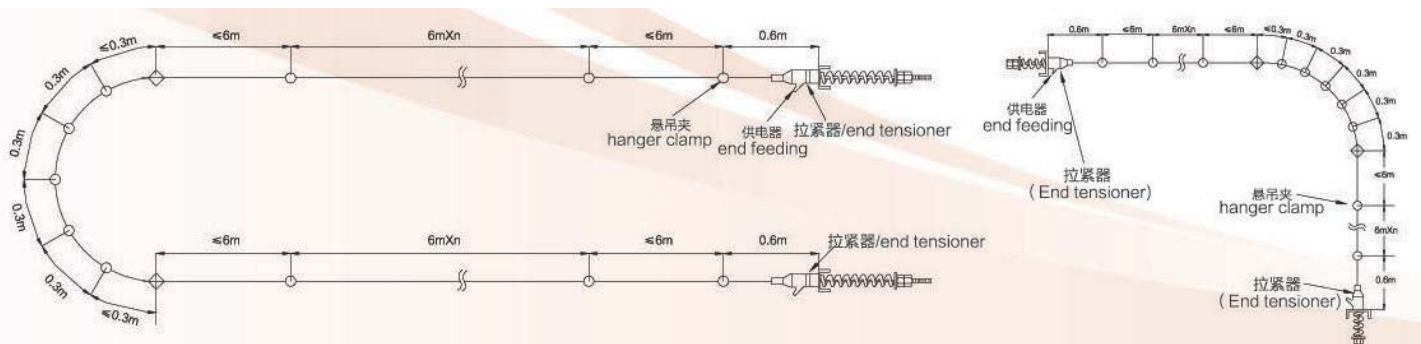
滑线形式 /Model	B	C	d1	d2
3P	84	130	11	10.5 X 30
4P	104	130	11	10.5 X 30
6P	182	130	11	10.5 X 30

安装间距 Installation distance	标准悬吊距离 1.2m,最大不超过 2m Standard distance 1.2m, max distance 2m	
支架制作 Type of support bracket	张紧支架 Tensioning bracket	[-80 或 [-100
	中间支架 Hanging bracket	KM 专用支架, L-220 Tailored support bracket

## 吊夹的安装/ Hanger installation



## 特殊安装形式/ Special Installation



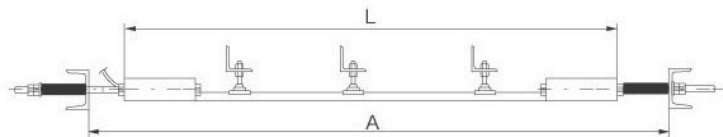
## 拉紧器（端供的安装） / Installation of End Tensioner (End Feeding)

安装重要提示/ Important notes of the installation

a 安装准备工作/ Ready to install

按运行距离确定两张紧支架之间距离如图所示

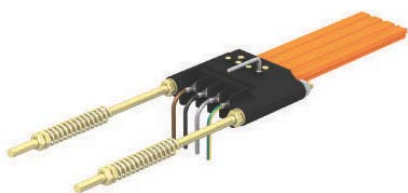
Determine the running distance between two tight brackets as shown in Figure.



张紧支架间距 L tensioning bracket distance	A-500 mm
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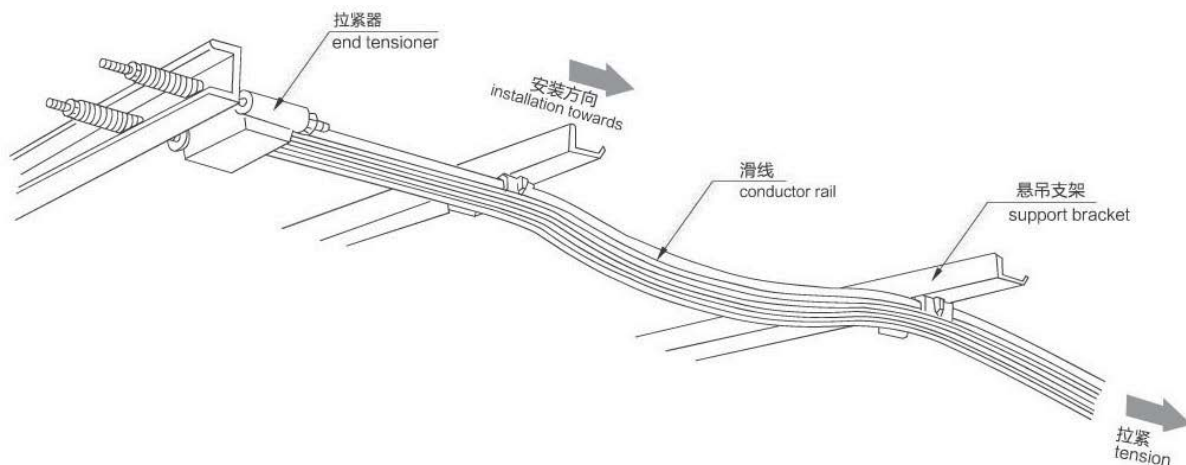
b 将滑线直接穿进拉紧器，用螺钉并紧即可

Put the conductor rail right through the tensioner, screw and tighten it.



c 将一端拉紧器安装好后，用绳子一段段挂起滑线，然后压进悬吊拉紧

After tensioner installed on the one end, hang the conductor rail on with a rope, and then pressed into the hanger and tighten.



拉紧力的设置/ tensioner settings

拉紧力的大小与温度有关，其大小应保证能吸收因温度改变而引起的滑线长度变化。为方便调节按下式进行计算来确定压紧后的弹簧长度 a。

The size of the tension is related to temperature, and its size should be guaranteed to absorb the change of the conductor rail length which led to when the temperature change. For convenience of the adjustment, should calculate to determine the length of the spring after compressing.

$$a = 140 + 16.6 \times 10^3 \times (T+10) \times L \pm 15 \text{ mm}$$

T: 安装时环境温度/ environmental temperature when install

L: 滑线有效长度/ effective length of the conductor rail

滑线有效长度： 当两端加弹簧时，为总长的 1/2。

Effective length of the conductor rail: 1/2 of the total length, when install spring on the ends.

## 连接盒（中间供电器）的安装/Installation of Jointing Box(Line Feeding)

弯连接接头方式的安装

The installation of the bend connectors

将外壳剥离 30mm，用老虎钳将铜带折弯 90°，插入连接盒并紧螺钉。本连接盒可作供电器用。

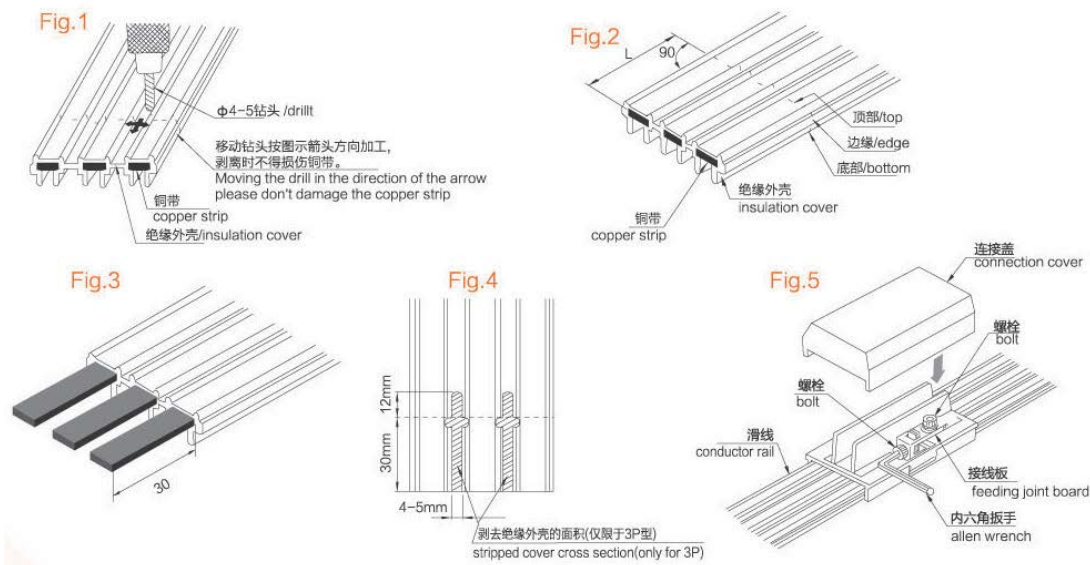
Shell stripped 30mm, bend the copperbelt 90° via pliers, insert it into the jointing box and tighten the screws. The jointing box can be used for power supply.

将需要连接的滑线剥离外壳后，将铜条穿入专用接头内，再 90 度折弯，折弯的标准高度为 3cm，再拧紧螺丝。如需要供电，将电缆连接插件直接拧在如图所示的螺丝上即可，再在连接盒顶盖钻孔，装上电缆防水接头，从防水接头处将电缆引出。

注意：螺丝必须充分拧紧。

After stripping the conductor rail shell which need to connect, to insert the copper strips into dedicated joint, and then 90 degrees bending, bending of the standard 3cm in height and be limited to 3.5 cm, and then tighten the screws. If power needed, screw the connect cable directly on the screw as shown in Figure, then drill on the top of the jointing box cover, and install waterproof cable connector, drag the lead out cable out of the waterproof joints.

Tip: The screws must be fully tightened.



## 集电器的安装/Installation of Collector

a 集电器安装：根据安装空间，确定牵引器和钢梁的位置，集电器的安装高度尺寸定位——牵引器上沿与滑线下沿保持  $70 \pm 5\text{mm}$  的距离为宜，集电器安装时支撑臂杆与滑线平行（参考右侧示意图）。

b 复检：检查滑线与集电器的运行轨道的平行度，要求在  $\pm 20\text{mm}$  变动为正常，当试运行重点观察集电器碳刷片通过的平行度，发现问题当场解决，拧紧所有紧固件，连续运行了一个月后。所有紧固件在拧紧一次。

a The installation of the current collector: Define the length of the tractor unit according to the amount of electrode and installation space.  $70 \pm 5\text{ mm}$  distance should be ensured in distance between the upper end and down end of the conductor rail, it is only natural that support arm parallel to the slip line when the collector installed. (refer to the installation drawing of the conductor rail for more detail)

b Inspection: inspect the depth of parallelism between the conductor rail and operation guide of the housing 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.

