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工程机械行业产品应用

Product application in construction
Machinery industry





总部·中国·上海

基地·中国·合肥

公司简介

Company Profile

摩腾始创于1998年，总部位于上海嘉定。公司发展初期，主要提供碳制品和滑环产品的代工服务，2004年成立股份制企业，走向自主研发设计、制造、销售及服务于一体的发展道路，专业开发碳制品、电刷、刷架、滑环系统等产品，广泛应用于风电、火电、水电、铁路、航空、船舶、医疗、纺机、线缆、钢厂、消防、冶金、矿山、工程机械、橡胶等多个行业领域，产品远销全球多个国家和地区。

Morteng was founded in 1998, its headquartered is in Jiading, Shanghai. The company mainly provides OEM services for carbon products and slip ring products. We specialized in the development of carbon product, carbon brush, brush holder, Slip ring system and lightening protection products, which are widely used in Wind Renewable Energy, global leading OEMs, Generator manufacturers, aftermarket service companies. Morteng products are exported to many countries and regions in the world.

厚积薄发，摩腾现已步入多元化高速发展阶段，旗下设有摩腾轨交、摩腾国际、摩腾智造、摩腾运维、摩腾投资、吉能宝公司等数十家全资子公司。公司拥有专业的人才队伍，研发人员占比20%左右、技术工人占比30%左右。荣获国家发明及实用新型专利30余项，2018年公司被评为上海市高新技术企业。

上海总部，设有技术研发中心、石墨新材料校企联合研发中心、CNAS国家认可实验室、摩腾智和商学并通过了ISO9001、ISO14001、ISO45001、APQP4WIND多项体系认证及CE、RoHS等国际产品认证。摩腾合肥生产基地，建筑面积6万平米，拥有多条现代化碳刷和滑环智能生产线，产能将满足全球客户的需求

摩腾致力于服务好用户，为客户提供先进材料与旋转传输技术全流程解决方案，并将“无限可能、更多价值”作为企业使命，助推世界绿色能源的持续发展。

Morteng is committed to providing customers with high-quality product and services, know-how background developing; mature materials and whole-life-cycle solutions. "Rotation Creates More Values" as our corporate mission to support the sustainable development of green energy in the world.

Business area

■ 全业务领域

01

机械设备领域 Rotation machinery

自动化设备用碳刷 Carbon brush

自动化设备用刷架 Brush holder

自动化设备用滑环 Slip rings

自动化设备用电气滑环 Electrical slip rings



02

风电领域 Wind renewable

风电碳刷 Wind carbon brush

风电刷架 Wind brush holder

风电刷架总成 Wind brush holder assembly

风电滑环 Wind power slip ring



03

工业领域 General industry

工业碳刷 Industrial brush

工业刷架 Industrial brush holder

工业刷架总成 Industrial brush holder assembly

工业滑环 Industrial slip ring



04

轨道交通领域 Railway locomotive

接地装置及碳刷 Grounding device carbon brush

受电弓碳滑板 Pantograph

机车滑环 Locomotive slip ring

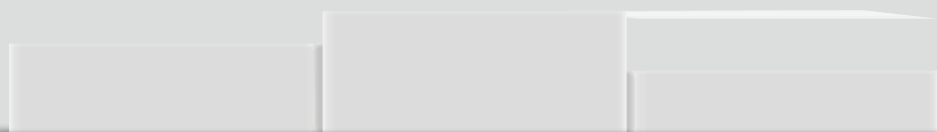
集电靴 Collector shoe





社会荣誉 Social honor

- 2010年荣获上海环球经济城“2009-2010年度综合实力奖”
- 2013年荣获上海环球经济城“2011~2012年度经济发展奖”
- 2013年荣获南翔政府颁发的“劳动关系和谐企业”奖
- 2014年通过阿里巴巴“精品诚企”认证
- 2017年荣获上海环球经济城“2015~2016年度先进制造业”金奖
- 2018年被安亭镇人民政府颁发“2017年度安全生产先进企业”
- 2018年荣获联合动力“2017年度优秀服务”奖
- 2018年荣获三一集团“2017年度重要合作伙伴”奖
- 2018年评为上海市高新技术企业
- 2019年荣获上海环球经济城“2017-2018年度先进制造业”金奖
- 2019年荣获湘电动力“2018年度优秀供应商”奖及“最佳协作”奖
- 2020年被评为“2018-2019年度上海市合同信用AAA”企业
- 2020年荣获三一集团2019年度“核心供应商”奖
- 2021年荣获西安电气2020年度“优秀供应商”奖
- 2021年荣获中车永济2020年度“最佳协作”奖
- 2021年荣获华永电机2020年度“优秀供应商”奖
- 2022年入选上海市“专精特新”企业名单。



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机械产品应用

Application of mechanical products



港口机械 Port Machinery

摩腾是专业的滑环制作厂家，无论是大电流、总线信号传输，还是液体、气体或光纤滑环，摩腾都有一揽子的解决方案。摩腾集成式滑环产品广泛用于岸边吊机，包括门座式起重机，岸桥式起重机，卸船机，装船机，堆取料机及港口岸电设备。

港口应用环境比较苛刻，无论是从产品的防护等级、防盐雾性能以及产品的抗震抗冲击性能都有着严格的要求，摩腾专门为港机研制的滑环具有高导电率、寿命长、防盐雾、耐高低温、抗振动、抗冲击等优点。

Motum is a professional slip ring manufacturer. Whether it is high current, bus signal transmission, or liquid, gas or optical fiber slip rings, Motum has a package of solutions. Motum integrated slip ring products are widely used in shore cranes, including portal cranes, shore bridge cranes, ship unloaders, ship loaders, stackers and reclaimers, and port shore power equipment.

For the application at harbor environment is relatively harsh, no matter from the protection level of products, salt spray and anti-seismic impact performance of products is much strict requirements, Morteng specially developed for port machinery slip ring with high conductivity, long service life-time, salt spray, high and low temperature resistance, vibration resistance, impact resistance and other advantages.

参数 Specifications

盐雾等级: C4H

工作温度范围: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

存温度范围: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$

防护等级: IP65

设计寿命: 10 年, 不包括易损件

工程机械 Engineering machinery

工程机械户外作业，受温度、气压、风力、污染、雨雪、雷电、含尘量、水质等环境因素对性能及寿命影响，摩腾针对这种环境，专门研发用于工程机械用电滑环，防护等级最高可达IP67。广泛运用于挖掘机、解体机、抓钢机，消防车，工程起重机，桩工机械，凿岩机械等设备。

When construction machinery working outdoor, its performance and life is affected by temperature, air pressure, wind, pollution, rain and snow, lightning, dust content, water quality and other environmental factors. For this kind of environment, Morteng specially designed electrical slip rings for construction excavator and tower crane, the highest protection level can reach IP67. Widely used in excavators, disassembly machine, steel grasping machine, fire trucks, construction cranes, pile machinery stone machinery and other equipment.



参数 Specifications

额定电压/电流: AC380V/50Hz/400A

绝缘等级: H级

驱动电机能效等级: IE2

防护等级: IP55及以上

行走速度: 6Km/H

卷起长度: 400米

适用场地: 矿山机械 抓料机、拆解机



机械产品应用

Application of mechanical products



塔式起重机滑环 Slip Ring for tower crane

集电环总成是一款防护等级 IP65级建设机械用滑环, 适用于露天或室内环境、低速等工况。

该产品是摩腾公司生产的配套型集电环, 具有安装简单, 性能稳定, 使用便捷等特点, 广泛运用于各种型号的塔式起重机。

Collector ring assembly is IP65 grade construction machinery slip ring, suitable for outdoor or indoor environment, low speed and other hash conditions.

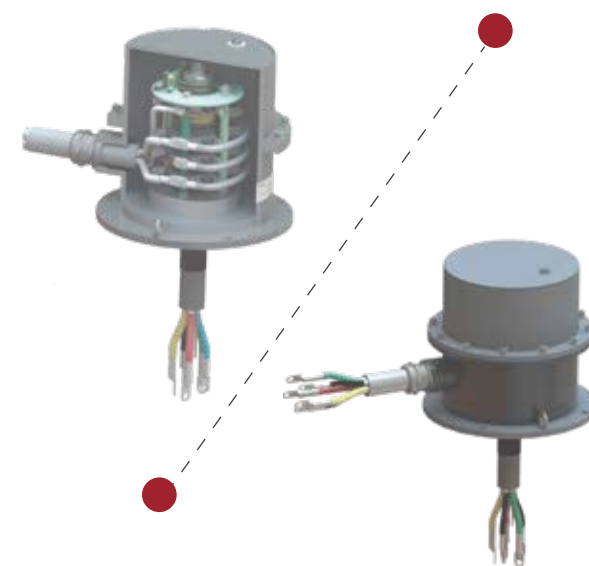
Morteng develops slip ring for tower crane has the characteristics of simple installation, stable performance and convenient use, and is widely used in various types of tower cranes.



电动挖掘机滑环 Electric Excavator Slip Ring

摩腾针对钢厂、矿山等场地研发的一款防护等级IP67级用于电动挖掘机滑环, 适用于露天或室内环境、低速等工况。长期稳定传输大电流及Can信号。

Moteng is a protection product developed for steel mills, mines and other sites Class IP67 for slip ring of electric excavator, suitable for outdoor or Indoor environment, low speed and other working conditions. Long term stable transmission of large current And a can signal.



电动拆解机滑环 Electric Disassembling Machine Slip Ring

在国家实现“双碳”目标、构建双循环新发展格局的背景下，工程机械作为生产资料，电动化相比燃油的全生命周期成本逐步具备吸引力和经济性，电动化成为工程机械绿色发展的重要方向之一。

摩腾作为电传输的专业厂家，积极响应国家政策及客户要求，专门研制出一款用于汽车拆解机滑环，帮终端用户实现高效节能、安全、环保等要求。

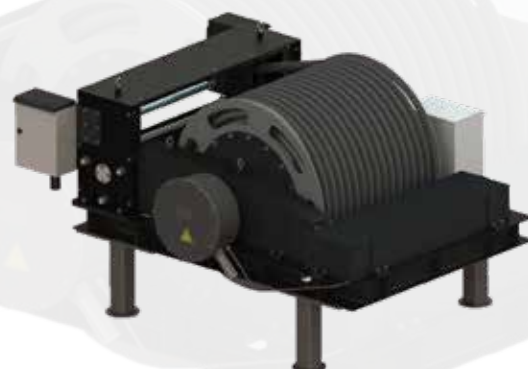


In the context of the country's realization of the "double carbon" goal and the construction of a new development pattern of double cycle, as the means of production, electrification has become increasingly attractive and economical compared with the full life cycle cost of fuel oil. Electrification has become one of the important directions for the green development of construction machinery.

As a professional electric transmission manufacturer, Morteng specially designed a slip ring for electric dismantling machine to help end users achieve high efficiency, energy saving, safety and environmental protection requirements.

参数 Specifications

额定电压/电流:AC380V/50Hz/350A
绝缘等级:H级
驱动电机能效等级:IE2
防护等级:IP55及以上
行走速度:6Km/H
卷起长度:200米
适用场地:拆解机



登高消防车用电滑环

14路通道, 10路电流, 4路信号

产品性能

电压:380V 绝缘等级:F级 防护等级:IP67
传输电流及Can总线



电动挖掘机用电滑环

5路通道, 3路电流, 1路零线, 1路地线

产品性能

电压:380V 绝缘等级:F级 防护等级:IP67
适用于64吨电动挖掘机



电动挖掘机用电滑环

7路通道, 3路电流, 1路零线, 1路地线
2路信号(信号环用于连接控制电缆卷筒)

产品性能

电压:380V 绝缘等级:F级 防护等级:IP67
适用于21/24/42吨电动挖掘机



电动解体机用电滑环

4路通道, 3路电流, 1路零线

产品性能

电压:380V 绝缘等级:F级 防护等级:IP67
适用于25吨电动挖掘机



电滑环产品

Electric slip ring products



电动抓钢机用电滑环

5路通道, 3路电流, 1路零线, 1路接地

产品性能

电压: 380V 绝缘等级: F级 防护等级: IP67
适用于50吨电动抓钢机



消防车用电滑环

17路通道, 2路电流, 15路信号

产品性能

电压: 380V 绝缘等级: F级 防护等级: IP65
传输电流及Can总线



塔式起重机用电滑环

29路通道, 动力环电流1000A,
零线、地线、防雷电流400A, 信号环20A

产品性能

电压: 380V 绝缘等级: F级 防护等级: IP65
传输电流及Can总线



塔式起重机用电滑环

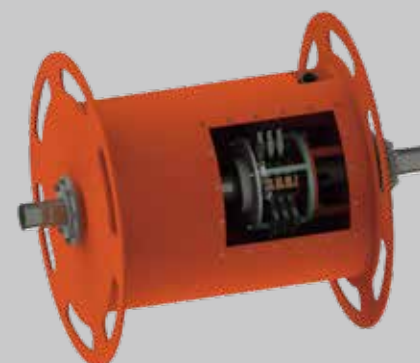
6路通道, 传输900A电流

产品性能

电压: 380V 绝缘等级: F级 防护等级: IP56
传输电流

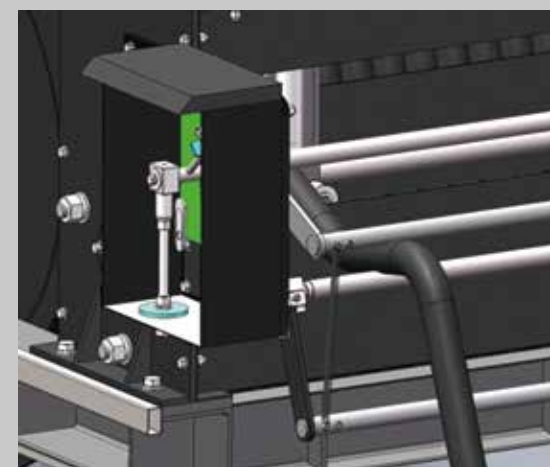
电缆卷筒

Cable Drum



卷筒内部的电滑环结构紧凑, 载流能力强。采用特殊的铜石墨碳刷, 匹配锡青铜铜滑道, 形成良好的摩擦副, 碳刷和滑环易形成氧化膜, 降低磨损。

The electric slip ring inside the drum has compact structure and strong current carrying capacity. The special copper-graphite carbon brush is used to match the tin, bronze and copper slide to form a good friction pair. The carbon brush and slip ring are easy to form an oxide film and reduce wear.



特殊的收放线控制机构, 获得国家专利。电缆卷筒能够自动卷电缆和放电缆, 收放电缆速度保持与抓料机行走, 不会囤积多余电缆被车碾压和拉力过大损坏电缆。

Special retracting and releasing control mechanism, obtained the national patent. The cable reel can automatically roll the cable and release the cable, keep the speed of the cable and the grasping machine walking, will not store the excess cable is rolled by the car and the tension is too large to damage the cable.



额定电压/电流: AC380V/50Hz/350A
绝缘等级: H级
驱动电机能效等级: IE2
防护等级: IP55及以上
车辆行走最高速度: 6Km/H
动力滑环3路(350A)、零线滑环1路(150A)、地线滑环1路(150A)
电缆卷筒能卷曲 100 米 $3 \times 95+2 \times 35$ 的橡套电缆线, 电缆线外径约 $\phi 54 \pm 2\text{mm}$

Rated voltage/current: AC 380V/50Hz / 350A
Insulation class: H class
Energy efficiency grade of driving motor: IE2
Protection grade: IP55 and above;
Maximum walking speed of vehicle: 6Km/H
Power slip ring 3 (350A), neutral slip ring 1 (150A), ground slip ring 1 (150A)
The cable reel can coil 100 meters of $3 \times 95+2 \times 35$ rubber cable, cable diameter of about $\phi 54 \pm 2\text{mm}$.

CNAS实验室 CNAS Laboratory

2021年4月7日，摩腾实验室成功通过了中国合格评定国家认可委员会（CNAS）的审核，并获得实验室认可证书，CNAS注册号为14577。CNAS认证的通过标志着摩腾实验室质量管理体系完全符合国际标准，检测技术能力达到了国际先进水平，可实现国际范围内检测结果互认，促进国际合作交流。



摩腾公司测试中心下设几个科室：材料研发实验室、物理实验室、环境实验室、碳刷磨损实验室、机械动作实验室、三坐标测量室、工作载流量及通讯功能实验室、大电流输入及滑环室模拟实验室、气候模拟实验室。

测试中心投资金额1000万，各类主要检测仪器设备50余台套，可进行各类碳制品、风电滑环、电气滑环及刷架的原材料、半成品及成品的机械力学性能测试、环境可靠性试验、工程机械滑环等工作。

The test center of Motum has several departments: material research and development laboratory, physical laboratory, environmental laboratory, carbon brush wear laboratory, mechanical action laboratory, three coordinate measurement laboratory, working current carrying capacity and communication function laboratory, large current input and slip ring room simulation laboratory, and climate simulation laboratory.

The investment amount of the test center is 10 million yuan, and more than 50 sets of various major testing instruments and equipment can be used to test the mechanical properties of various carbon products, wind power slip rings, electrical slip rings and raw materials of brush holders, semi-finished products and finished products, environmental reliability tests, engineering machinery slip rings, etc.



On April 7, 2021, Morteng laboratory successfully qualified the audit of China National Accreditation Committee for Conformity Assessment (CNAS), and obtained the laboratory accreditation certificate, Morteng Lab list CNAS number is 14577. The CNAS qualification indicates that Morteng laboratory quality management system is fully in line with international standards, and the testing technology ability has reached the international advanced level. It can realize the mutual recognition of test results in the international level and better for inspection levels.



三坐标精密检测台 CMM Testing Machine

测试中心由多名风电行业、碳制品行业高级工程师以及高校相关专业人士组成核心技术力量，按照标准实验室管理要求建立了科学、系统的质量保证体系，保证提供科学、准确的检测数据。

The test center consists of a core technical force composed of several senior engineers in the wind power industry, carbon products industry and relevant professionals from colleges and universities. According to the International standard laboratories, a scientific and systematic quality assurance system has been established to ensure the provision of scientific and accurate monitoring data.

Testing Center

合作伙伴 Client Examples



全球业务分布

Global business sector

