

公司介绍 Company Profile

作为享誉全球的先进碳材料生产技术及研发公司,摩腾科技十几年来一直致力于为客户提供碳技术及衍生产品的定制解决方案,使其产品和流程更高效、更可靠、更耐久。公司坐落于上海大虹桥板块毗邻上海虹桥机场,上海虹桥站以及国家会展中心,车程仅15分钟。员工170余名,其中具有本科及以上学历的员工占研发部总人数的90%以上。

摩腾公司积极引进消化欧洲具有领先地位的制造技术和生产工艺,在上海建立了自主完备、全流程,更高效的生产工艺控制系统。与此同时,摩腾公司严格遵照中国及欧洲的型式试验实验大纲建立了上海研发中心和实验中心,并拥有全球专业团队和本地领先研发团队的技术应用支持。公司恪守致力于以贴近客户为本,本着正直、诚信为广大客户提供产品和服务。

摩腾公司期待您的莅临指导和考察!

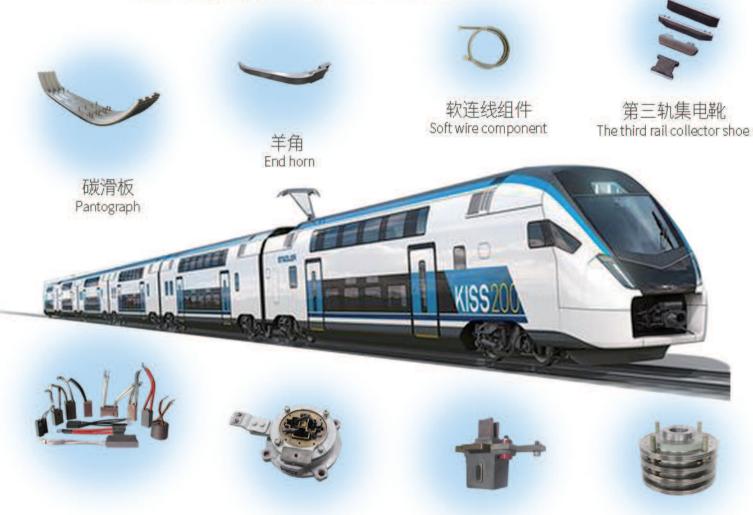
As a world-renowned company in the production, technology and research and development of advanced carbon materials, Morteng Technology has been committed to providing customers with customized solutions for carbon technology and derivative products to make its products and processes more efficient, reliable and durable. The company is located in Shanghai Hongqiao area adjacent to Shanghai Hongqiao Airport, Shanghai Hongqiao Station and the National Convention and Exhibition Center, only 15 minutes by car. There are more than 170 employees, among which employees with a bachelor degree or above account for more than 90% of the total number of R&D partments.

Moteng actively introduces and digests European leading manufacturing technologies and production processes, and has established an independent, complete, and more efficient production process control system in Shanghai. At the same time, Morteng has established a Shanghai R&D center and an experimental center in strict accordance with China and Europe's type test experiment outline, and has technical application support from a global and local professional teams.

We look forward to your visit!

铁路及城轨应用产品线





牵引及接地碳刷 Traction and grounding brush

轴端接地装置 Shaft earth device

齿轮箱接地装置 Gearbox earth device

铁路滑环 Railway slip ring

摩腾研发实验室 Morteng R & D Lab

公司建立有国内领先的产品型式试验室,可以针对客户包括铁标要求产品性能进行各项型式试验,确保产品质量能满足客户的需求。

We have established the domestic leading laboratory, We can conduct various type tests for the product performance for customers, including railway standard requirements, to ensure that the product quality can meet the needs of customers.





● 电流温度特性试验

Current and temperature characteristic test

● 挠曲延伸试验(机械性能)

Flexural elongation test (mechanical properties)

● 弯曲特性试验(机械性能)

Bending characteristic test (mechanical properties)

● 剪切强度(高低温,常温)

Shear strength (high and low temperature, normal temperature)

● 粘接电阻 碳条性能 硬度

Bonded resistance, hardness, performance of strip

● 自动降弓装置性能(流动连续性)

Performance of automatic bow lowering device (flow continuity)

● 自动降弓装置性能(密封完整性)

Performance of automatic bow lowering device (seal integrity)

● 自动降弓装置性能(动作性能)

Performance of automatic bow lowering device (operating performance)

● 磨耗....

Abrasion...



材料性能介绍 Product Introduction

● 碳滑板材料推荐牌号

Recommended grades of carbon skateboard materials

牌号 Grade	機道 Description	滋用 Application	典型运行电流密度 Typical operation current density (A/mm)	典型静态电流器 Typical quiescent current density (A/mm)	电阻率 Resistivity (μΩ·m)	体积密度 Bulk density (g/cm³)	抗折强度 flexural strength (Mpe)	抗压强度 Compressive strength (Mpa)	硬度 Hardness (肖氏)
EK10	纯碳石豐 Pure graphite	助车、机车碳滑板和城市电车滑块 high speed train, locomotive Pantograph and city tram contact	8	90 1 0	38	1.6	35	55	75
скво	報基浸金属材料,渗铜量银少,较轻质 Carbon based metal impregnated material. less copper infiltration, relatively light	电波承载要求相对氮的动车、电力机 车碳滑板 for high speed train and electric locomotive with relatively low ourrent bearing requirements.	10	2	≘ 8-	2.2	80	140	105
CK50	磁基理金属材料, 直好的导电、强度和密度 carbon based material-impregnated material, good conductivity, atrength, and density	广泛应用于各类地铁、高铁、动车 widely used on various underground and high speed train.	14	2.3	- 5	2.5	85	180	95
CK20	OKSO的改进版。有更加高的强度和更加能的电阻 Improved grade for OKSO with higher strength and lower resistivity.	這用于环境恶劣,承載电流大的机车。 动车破滑板 It is suitable for pantograph of loomotive and train with bad environment and high current.	18	2.7	2	2.7	75	180	85
牌号 Grade	MidE Description	应用 Application	典型运行电流密度 Typical operation current density (A/mm)	典型静态电流密 Typical quiescent current density (A/mm)	电阻率 Resistivity (μΩ·m)	体积密度 Bulk density (g/om³)	抗折張度 flexural strength (Mpa)	抗压强度 Compressive strength (Mpa)	硬度 Hardness (肖氏)
скт	港金属碳,有更加高的强度和更加低的电阻 tt is suitable for the pantograph of locomotive and train with bad environment and high current	地铁、矿山、工厂、码头等的第三、 第四轨和架空线滑块 Underground, Mine, Factory, port 3 rd and 4 th rail, overhead line pantograph	13	.7	9	2.3	75	140	92
CKR	粉末冶金材料,电阳率相比碳基材料低, 但对网线保护等于碳基材料 Powder metallurgy materials, the resistivity is lower than carbon-based materials, but the protection of the network cable is weaker than carbon-based materials	地铁、矿山、工厂等的第三、第四轨 Underground, Mine, Factory's 3 ^{cd} and 4 ^{cd} rail.	20	12	0. 20	8.0	120	185	35
скн :	电阻率非常版 Very low resistivity	単轨地鉄、第三轨、第四轨集电戦 Single rail, 3 ^{ng} rail, 4 th rail collector shoe	25	16	0.08	6.2	85	80	10

静态密度值基于以下条件:

单根碳滑板与接触线间加载4KG(8.8IBS)接触压力,截面为107mm²单根有些磨损的接触线,接触线温度最大150℃。在特定状态下可以获得更加高的操作值,典型运行和静态电流密度仅供参考。如需了解详情,请与我们的工程师联系。所有数据可能变更,恕不另行通知,此产品单页不具法律效力,也不作为无证条件下的任何专利发明许可或建议,仅供参考研究和核实。

The static density value is based on the following conditions:

4KG (8.8IBS) contact pressure is loaded between a single carbon sliding plate and the contact line, for load surface is 107mm² and with a little worn single contact line, its highest temperature is 150°C, under certain conditions it can obtain higher operating values, typical operation and quiescent current density are for reference only. For more details, please contact our engineers. All data may be changed without notice. This catalogue does not have legal validity, also under unlicensed conditions it is not used for any patented invention license or suggestion, it is for research and verification reference only.

● 接地装置碳刷和牵引装置碳刷牌号推荐

Grade suggestion for grounding device brush and traction device brush:

牌号 Grade	应用 Application		电阻率 Resistivity (μΩ·m)	技術強度 flexural strength (Mps)	硬度 Hardness (肖氏)	体积密度 Bulk density (g/cm²)	接触压降 Contact drop (V)	摩擦系数 Friction (≤)	額定电流 Rated current (A/cm²)	允许图局速度 Speed (n/e)
MK90	轴端接地碳刷 Shaft earth brush		0. 25	65	10	5.5	0. 2	0.12	25	30
MK70	齿轮箱接地碟刷 Gearbox earth device brush		0.14	67 d	20	4.3	0.9	0.1	22	∃35
MK50	滑环和接地 Slip ring and grounding		1.5	29	25	2.8	2.	0.1	15	35
PKO	发电机用碳刷 Carbon brush for generator		14	22	37	1.73	3	0.1	R12	50
PK63	適用性牵引电机用碳刷 General traction motor brush		57	28	64	1.65	1.5	0.1	12	50
PK65	长寿命碳刷 Long life brush	通用性牵引电机用碳刷 General traction motor brush	55	38	π	1.78	1.5	0.1	12	50
PK67	换向性好 Good commutation performance	適用性牵引电机用碳刷 General traction motor brush	H 52	28	60	1.68	1.6	0.1	12	50
PK69	承载大电流 Big ourrent	通用性牵引及油井电机用碳刷 General traction motor brush and oil well motor brush	50	33	70	1. 68	1.5	0.1	14	50

典型问题图例 Typical Problem







Cracked surface

Aluminum bracket galvanic corrosion

single carbon contacts Partial wear







Side arc Missing corners, broken Wavy wear

故障查询参比表 Fault Query Reference Table



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