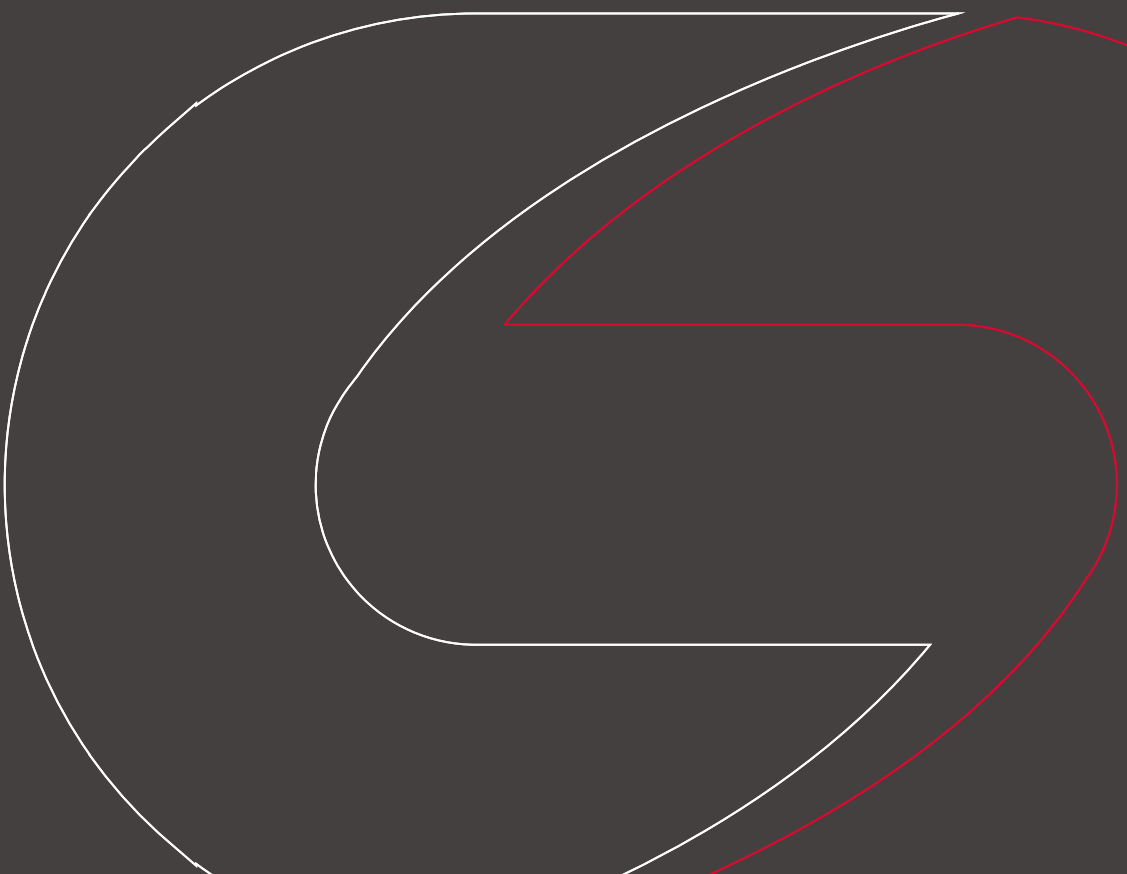


MT international

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Global Expert on the wind Energy carbon brush
Brush holder and slip ring





Company profile

Morteng headquartered 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.

With steady accumulation and a sudden release of strength, Morteng has now entered a stage of diversified and rapid development. It has several wholly-owned subsidiaries, including Morteng Rail Transit, Morteng International, Morteng Intelligent Manufacturing, Morteng Operation and Maintenance, and Morteng Investment's Jinengbao Company. The company has a professional talent team, with R&D personnel accounting for about 20% and skilled workers accounting for about 30%. It has won more than 120 national invention patents and utility model patents. In 2018, the company was rated as a high-tech enterprise in Shanghai.

The Shanghai headquarters is equipped with a technological research and development center, a school-enterprise joint research and development center for new graphite materials, a CNAS national accredited laboratory, and Morteng Zhihe Business School. It has also passed multiple system certifications such as ISO9001, ISO14001, ISO45001, and APQP4WIND, as well as international product certifications like CE and RoHS.

Production Base: Located in the High-tech Zone of Lujiang, Hefei, Anhui Province, it has a building area of 60,000 square meters and is equipped with multiple automated intelligent production lines for wind power carbon brushes and slip rings, providing supporting products for manufacturers and motor factories around the world.

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

■ Five major business segments

01

Wind power field

- Wind power carbon brush
- Wind power brush holder
- Wind power brush holder assembly
- Slip ring for wind turbines
- Wind power slip ring system
- Wind power pitch slip ring



02

Mechanical equipment field

- Carbon brushes for automation equipment
- Brush holders for automation equipment
- Slip rings for automation equipment
- Electrical slip rings for automation equipment



03

Industrial field

- Industrial carbon brushes
- Industrial brush holders
- Industrial brush holder assemblies
- Industrial slip rings





Contents

Wind Energy product Application	01
Carbon Brushes	03
Brush holder . Brush holder Assembly for Wind Turbines-----	07
Slip ring for Wind Turbines	09
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04

Trains & Railway field

Grounding device and carbon brush
Pantograph carbon strip
Slip ring
Collector shoe

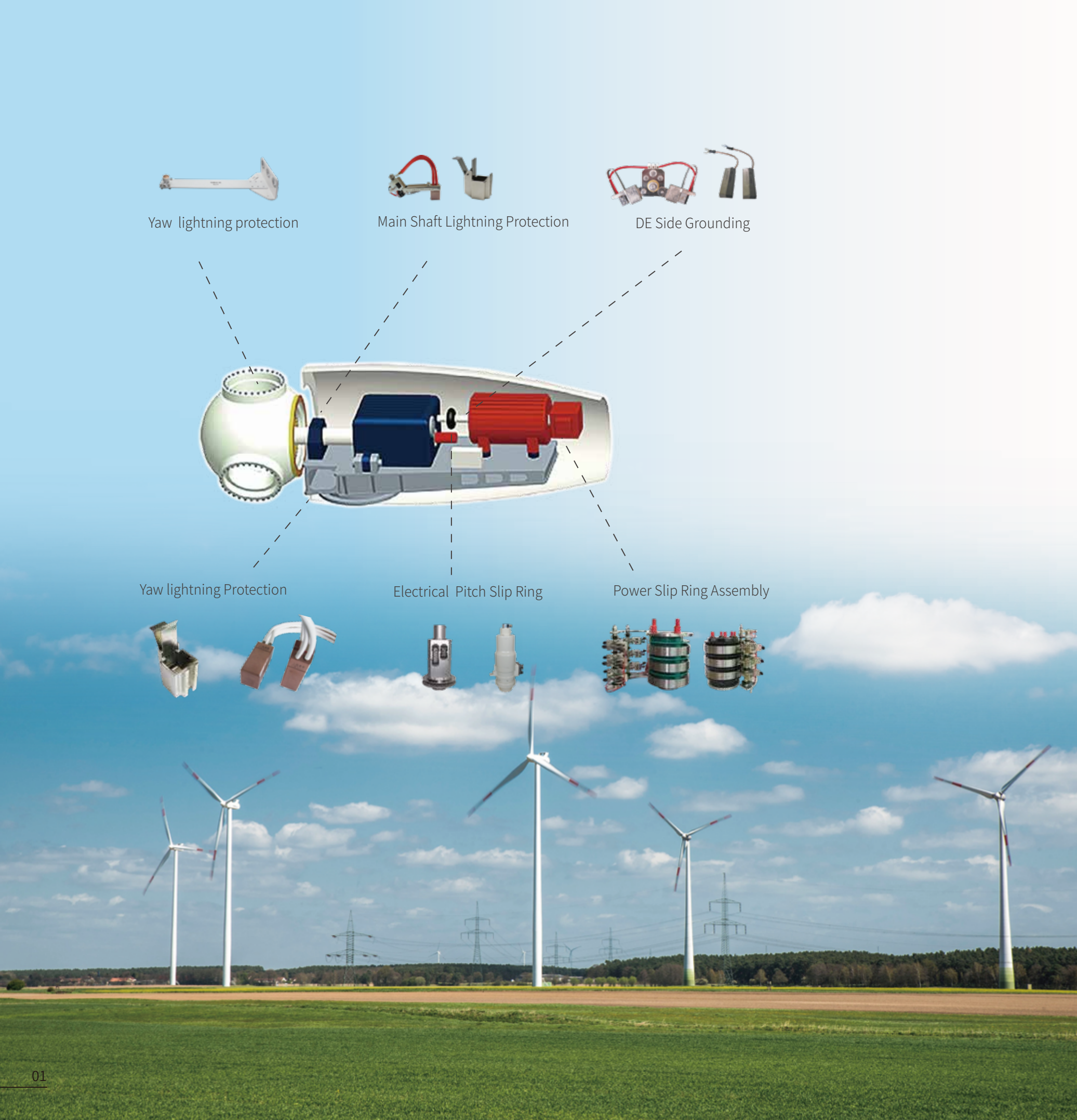


05

Medical devices

Carbon brush for medical equipment
Brush holder for medical equipment
CT slip ring





Wind Energy Product Application

Morteng specializes in the research, development, and production of carbon brushes, brush holders, and slip rings specifically designed for wind turbines. Through independent technological innovation, the development of new materials, the introduction of advanced equipment, and the enhancement of quality standards, Morteng ensures that its products exhibit superior performance and a prolonged service life. These products have been widely adopted by various OEMs both domestically and internationally and have received positive feedback from customers.

As a leading supplier of carbon brushes for globally recognized motor manufacturers, Morteng has garnered the attention and preference of an increasing number of clients due to its outstanding products and exceptional services. The company has secured over 60% of the domestic market share, and its product range accommodates generators with capacities from 0.85 MW to 11 MW.

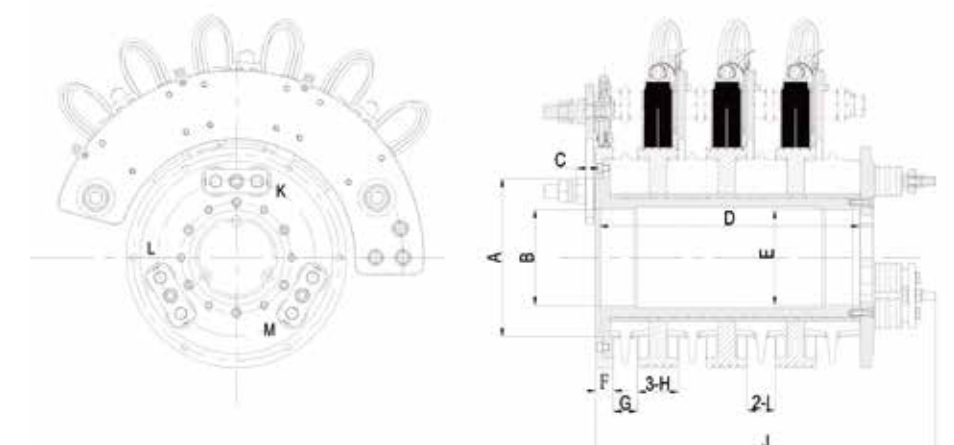
Wind Energy Product Design

Standardized Products

- Power range: 0.85MW - 16MW
- Short production cycle
- High level of technical maturity
- Significant cost advantages

Customized Products

- Based on customer-provided drawings
- Collaborative design process
- Utilizing customer samples
- Upgrades and transformations

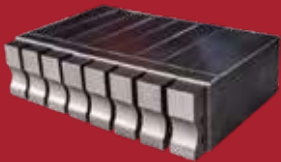


Crabon Brushes TDS

Type	Resistivity (μΩm)	Rated Current Density (A/cm²)	Max Peripheral Speed (m/s)	Remark
CTG5	0.3	25	30	High electrical density, low loss
CA70	0.4	18	40	Applicable to standard stainless steel rings
CT53	1.3	18	40	Applicable to brass, bronze and steel rings, standard stainless steel rings
CT53Y	1.1	25	40	Improve corrosion resistance
CT55	0.9	20	35	Applicable to grounding rings (steel)
RS93/EH7U	2.2	18	40	Silver-carbon combined design
RS90/EH7U	3.2	16	40	Applicable to copper bronze and steel rings, standard stainless steel rings
CT73H	0.23	25	25	Standard materials
CM90S	0.06	25	20	Enhance mechanical strength
ET54	18	12	50	Standard materials
ET75X	25	12	50	Improve switching performance
CM90T	0.12	25	20	Enhance mechanical strength
CB90S	0.1	25	20	Applicable to brass rings, bronze rings and stainless steel rings

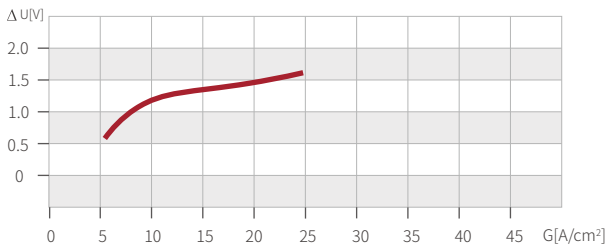
CT53 Data Technical parameters

Material Data

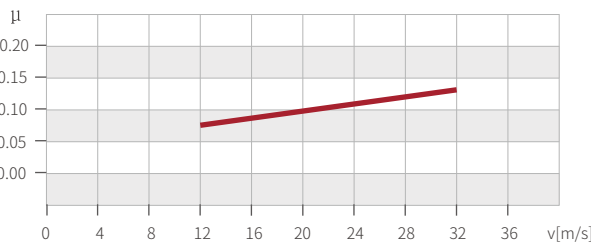


Metal graphite
Density 3.20g/m³
Bending Strength 32Mpa
Peak current 25A/cm²
Resistivity 1.3 μΩm

Operation Characteristics



Voltage Drop ΔU [V]
From one carbon brush to another, when
the peripheral speed v=25m/s



Friction coefficient μ
When the current is 18A/cm²

The voltage drop and friction coefficient are measured at a steel slip ring temperature of 90°C, a single carbon brush with a thickness x width = 20*40mm and a carbon brush pressure of 200-250cN/cm'. Maximum current 200A.

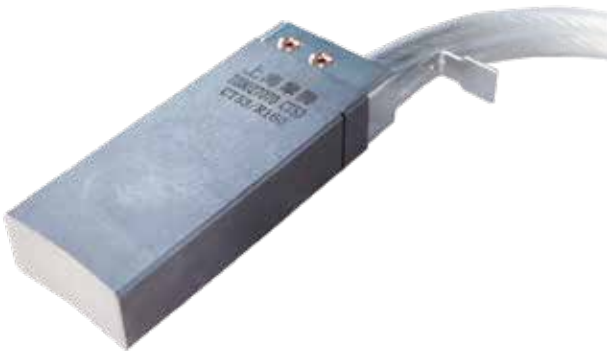
Usual Operation Conditions

Current density 10~20A/cm²
Carbon brush pressure 180-275cN/cm²
Maximum short-term temperature 135°C

Peripheral speed 40m/sec
Rated operating temperature 20-110°C

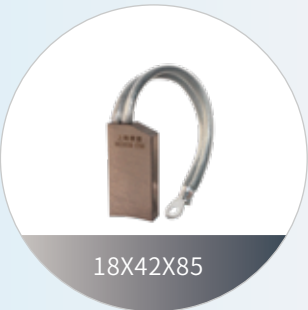
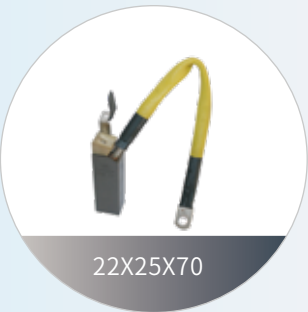
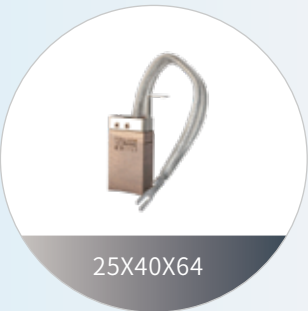
Recommend Application

Our company's new CT53 carbon brush material is specifically designed for use in wind power slip rings. It demonstrates excellent performance in protecting slip rings effectively. Utilizing advanced lamp black technology and metal powder metallurgy, this product is suitable for both overloaded and underloaded motors (with a current density of 15-20A/cm²) and is appropriate for a range of large and medium-sized generators.



Power Carbon Brush

Moteng wind power carbon brushes are developed independently through the synthesis of metal and graphite powder metallurgy, utilizing high-temperature metallurgical processes. These brushes exhibit excellent wear resistance and lubricity, along with stable electrical conductivity, making them suitable for diverse environments including land, sea, and plateau regions.



Grounding Carbon Brush



The grounding carbon brush is used on the shaft extension end of the generator to protect the shaft extension end bearing. The grounding carbon brush is utilized at the shaft extension end of the generator to safeguard the bearing at that location.

Lightning Protection



Lightning Carbon Brush

Lightning protection carbon brushes are installed on the main shaft, as well as the yaw and pitch position of the wind turbine, to safely conduct lightning currents and effectively safeguard the bearings in the rotating parts.



24X38X76

Integrated Carbon Brush



40X65X100



Brush Holders



25x32
Lightning Protection Brush Holder



16x42
Main Brush Holder



8x20
Grounding Brush Holder



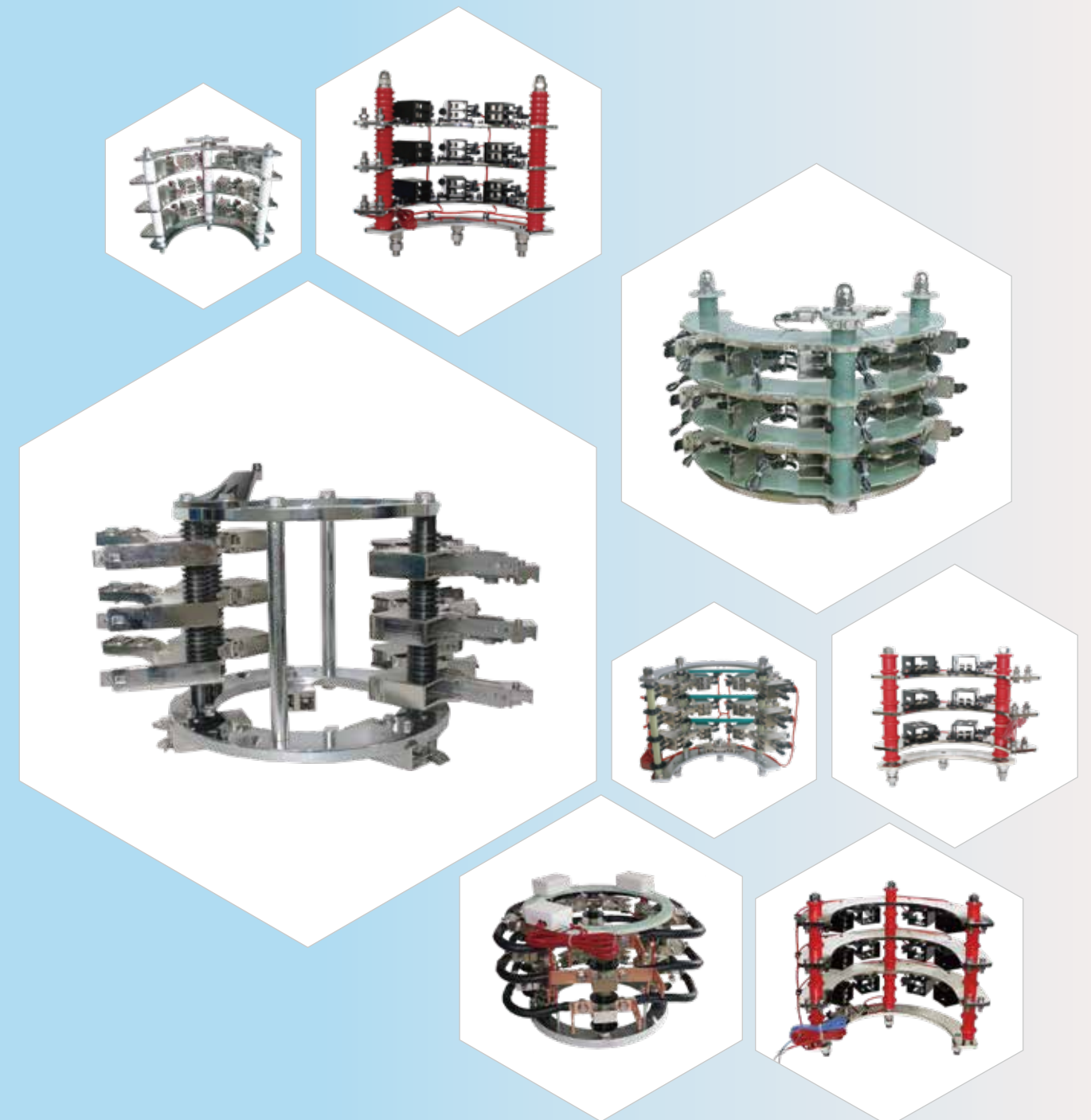
8x20
Grounding Brush Holder



12.5x25
Grounding Brush Holder



20x40
Grounding Brush Holder



Brush Holders Assembly for Wind Turbines

The wind turbine brush holder assembly works in conjunction with the generator slip ring to ensure stable current transmission from the generator rotor. After years of development, Morteng has attained independent intellectual property rights and has successfully created an integrated carbon brush holder assembly designed for turbines over 5 MW. This advancement replaces the conventional multi-small carbon brush combination structure, effectively addressing issues related to uneven current distribution in carbon brushes. Furthermore, it reduces the number of contact points and potential failure points, leading to enhanced performance stability.



Slip Ring for Wind Turbines

Mechanical Technical Specifications

Speed Range : 1860~2350 rpm
Operating Temperature : -40°C~+155°C
Dynamic Balance Level : G1
Operating Environment : Land
Corrosion Resistance Level : C3
Hipot test : 4000V
Ring Outer Diameter : 154mm



Mechanical Technical Specifications

Speed Range : 850~1950rpm
Operating Temperature : -40°C~+125°C
Dynamic Balance Level : G1
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 2.2MW
Hipot test : 6500V
Ring Outer Diameter : 180mm



Mechanical Technical Specifications

Speed Range : 850~1950rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G1
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 0.85MW
Hipot test : 3000V
Ring Outer Diameter : 239mm



Mechanical Technical Specifications

Speed Range : 400~2200rpm
Operating Temperature : -40~125°C
Dynamic Balance Level : G6.3
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 3MW
Hipot test : 5000V
Ring Outer Diameter : 300mm



Mechanical Technical Specifications

Speed Range : 400~2200rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G6.3
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 5MW
Hipot test : 5000V
Ring Outer Diameter : 330mm



Mechanical Technical Specifications

Speed Range : 930~2070rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G2.5
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 2.1MW
Hipot test : 7000V
Ring Outer Diameter : 300mm



Mechanical Technical Specifications

Speed Range : 900~2100rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G2.5
Operating Environment : Land
Corrosion Resistance Level : C3
Hipot test : 5000V
Ring Outer Diameter : 260mm



Mechanical Technical Specifications

Speed Range : 1000-2000rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G1
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 6MW
Hipot test : 8700V
Ring Outer Diameter : 320mm



Mechanical Technical Specifications

Speed Range : 1000-2000rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G2.5
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 1.5MW
Hipot test : 5000V
Ring Outer Diameter : 225mm



Mechanical Technical Specifications

Speed Range : 1000~2000rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G1
Operating Environment : Land, Plateau
Corrosion Resistance Level : C3
Power : 2.5MW
Hipot test : 6000V
Ring Outer Diameter : 250mm



Mechanical Technical Specifications

Speed Range : 680~1300rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G2.5
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 2.17MW
Hipot test : 3000V
Ring Outer Diameter : 320mm



Mechanical Technical Specifications

Speed Range : 1000-2000rpm
Operating Temperature : -40°C~125°C
Dynamic Balance Level : G1
Operating Environment : Land
Corrosion Resistance Level : C3
Power : 2.1MW
Hipot test : 7000V
Ring Outer Diameter : 300mm





Electrical Pitch Slip Ring

The pitch slip ring is primarily utilized to supply power to the wind turbine's pitch system, as well as to transmit control signals. It is installed on the low-speed shaft of the gearbox, rotating coaxially and at the same speed as the wind turbine hub, making it a crucial component of the variable pitch control system. Our company has independently developed a silver alloy brush type for pitch slip ring, which features self-lubrication, maintenance-free operation, strong compatibility, and zero signal loss.



22MWElectrical slip ring

- The components are compact and simple to install;
- Each ring is composed of premium metal contact material and features a small, compact design;
- It offers a high level of protection, suitable for harsh environments such as plateaus, deserts, and coastal areas.;
- A unique anti-interference design has been implemented;
- It is capable of transmitting Canbus, Profibus, and RS485 bus signals;
- The housing is constructed from aluminum with a painted finish, achieving a C4 anti-corrosion level;
- The anticipated service life is up to 20 years.

Electrical Pitch Slip Ring

Morteng pitch slip rings are manufactured in a dust-free workshop environment utilizing an assembly line process, ensuring the use of precision electrical components. The stability of current and signal transmission is meticulously tested using advanced instruments and equipment.



3MWElectrical slip ring



5.5MWElectrical slip ring



10MWElectrical slip ring



Power Ring Conductive Module



Signal Ring conductive module



Slip ring core



Housing

Modular design of the product

Electrical Pitch Slip Ring



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	5channels	8channels
Current rating	65A	5A
Communication protocols		1channels Canopen



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	4channels	9channels
Current rating	50A	2A
Communication protocols		2channels Canopen



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	5channels	7channels
Current rating	80A	4A
Communication protocols		1channels optical fiber



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	5channels	12channels
Current rating	75A	6A
Communication protocols		3channels Profibus



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	3channels	22channels
Current rating	20A	
Communication protocols	1channelsProfibus 2channelsPowerlink	1channels Ethernet



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	5channels	9channels
Current rating	80A	6A
Communication protocols		1channels Canopen



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	5channels	9channels
Current rating	75A	2A
Communication protocols	1channels Canopen	1channelsEthernet



Parameter	Power channel	Signal channel
Rated voltage	0-400VAC/VDC	0-24VAC/VDC
Insulation resistance	≥1000MΩ/1000VDC	≥500MΩ/500 VDC
Dielectric strength	2500VAC@50Hz, 60s	500VAC@50Hz, 60s
Dynamic resistance change value	<10mΩ	<10mΩ
Number of channels	5channels	8channels
Current rating	80A	5A
Communication protocols		1channelsCanopen



Off shore Wind Hydraulic Slip Ring

The power channel is entirely distinct from the signal channel and is divided into two slip ring chambers. This design integrates both contact seal and gap seal principles, ensuring the reliability of contact sealing while benefiting from the extended lifespan associated with gap sealing.



- Two large precision bearings ensure stable operation and are designed for lifetime maintenance-free use;
- Imported specialized seals provide extended operational longevity;
- The stainless steel shaft core undergoes special treatment to guarantee optimal wear resistance;
- The innovative drain hole reflux design effectively prevents leakage;
- The oil-electric combination integrates continuous liquid supply and power supply functionality during equipment rotation;
- Each ring incorporates precious metal silver alloy carbon brushes, designed for a compact and efficient structure;
- High protection level makes it suitable for harsh environments, including plateaus, deserts, and coastal regions;
- Capable of transmitting CAN bus, Profibus, and RS485 bus signals;
- The shell is constructed from aluminum alloy material with a baked paint finish, achieving a C4 anti-corrosion rating, with a projected lifespan of 20 years or 200 million revolutions.



Constant spring

The constant force spring is primarily utilized in a variety of balancing devices and applications that require a consistent force output.



Examples include the lifting balance device and for carbon brush for DC motors. The key characteristics are as follows:

The output of the spring tension torque remains relatively stable, with minimal variation. The non-contact planar scroll spring is primarily utilized for the return mechanism in instrument watches and as reference springs, including motor carbon brush springs. It is notable for its excellent linear relationship between torque and rotation angle.



Yaw Collector Ring



A high-power rotating electrical energy transmission mechanism mainly consists of components such as the collector ring stator, the stator-side junction box, the collector ring rotor, the rotor-side junction box, and related accessories. Its main function is to transmit the electrical energy of the generator under the premise that the incoming and outgoing cables on both the stator and rotor sides are fixedly laid, either in a state of synchronous rotation with the yaw of the unit or in a stationary state.

Yaw collector ring: It includes a rotor assembly, a stator assembly, a protective box body, a cooling system and a heating system. The stator junction box is set on the left (right) side of the protective box body. Inside the protective box body, there are the stator assembly and the rotor assembly. The rotor assembly forms a concentric structure with the stator assembly through the self-lubricating bearing at the lower end and the centering bearing at the upper end. The rotor assembly is connected to the generator through the first conductive bar, and the stator assembly is connected to the transmission cable through the second conductive bar. The rotor assembly is synchronized with the nacelle through a rocker arm rod, and the stator assembly is fixed on the platform of the wind tower. For the electrical power and heat consumption in different environments, external circulation or internal temperature control is adopted to achieve 360° unobstructed and uninterrupted electrical energy transmission for wind power generating units, eliminating the need to stop the machine and unwind the cable, increasing the power generation amount per unit time and avoiding cable oxidation, cracking and spraining.

Product Functions/Applications:

It is applied to the power transmission of wind power generating units during 360° rotation without the need to unwind cables. Through the sliding contact between the slip ring stator and the rotor, combined with the temperature-controlled heating and cooling systems, it can solve problems such as wear, distortion and breakage of the transmission cables of wind generators. It enables wind generators to operate continuously without the need to stop and unwind cables, increasing the power generation volume in the same period and reducing maintenance costs.



6X MW yaw slip ring



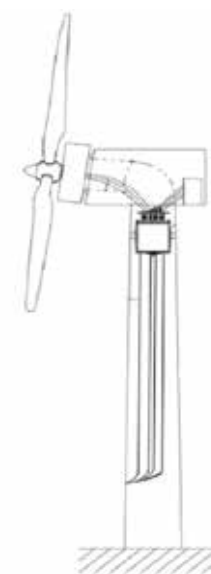
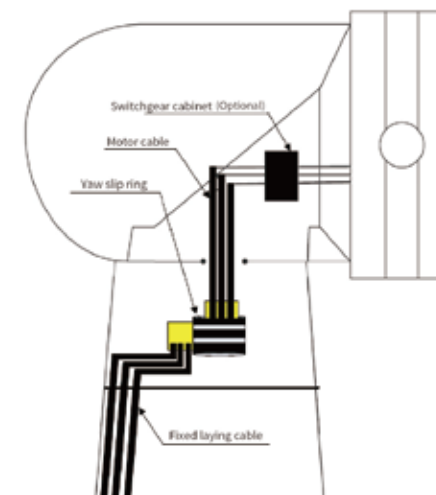
4.55MW yaw slip ring



7.5MW yaw slip ring



11MW yaw slip ring



The Function Of The Yaw Collector Ring

Features:

1. It is applicable to high-power models and is manufactured by leveraging the experience in the fields of wind power slip ring systems and carbon brushes.
2. For key performance indicators, the current sharing and temperature rise meet the actual requirements.
3. It has undergone rigorous experimental verification and complies with various national standards and demanding service conditions.

The nacelle cable and the wind tower cable are connected through the yaw collector ring as the main cable for transmitting electricity, making the nacelle cable in a relatively stationary state relative to the nacelle and the wind tower cable in a stationary state relative to the wind tower. As a result, the cable will not experience cable twisting during the yaw process of the nacelle, which can reduce the technical characteristic requirements for the main cable. There is no need for the cable to have high torsion resistance and high wear resistance properties, thus reducing the cable cost.

The cable adopts a slip ring for transitional connection, which has a minimal (negligible) impact on the yaw load and can reduce the yaw failure rate caused by cable twisting. Since the cable can be in a fixedly laid state during the yaw state, there will be no wear caused by relative motion, nor will there be cracking due to cable twisting.



Morteng Inspection and Testing

The Test Centre was established in 2012 and spans an area of 800m². The Centre comprises several specialized laboratories, including the Physics Laboratory, Environmental Laboratory, Carbon Brush Wear Laboratory, Mechanical Motion Laboratory, Coordinate Measurement Room, Working Load Flow and Communication Function Laboratory, High Current Input and Slip Ring Room Simulation Laboratory, and Climate Simulation Laboratory.

With more than 50 sets of various main testing instruments and equipment, Morteng Testing Centre aims at scientific and rigorous, accurate and efficient experimental analysis, providing testing services for the wind power industry, carbon brushes, slip rings and brush holders and other scientific research and production lines, and comprehensively supporting the development of carbon products and materials and the verification of the reliability of wind power products.

On April 7, 2021, Morteng Laboratory successfully completed the audit conducted by the China National Accreditation Service for Conformity Assessment (CNAS) and was awarded the Certificate of Laboratory Accreditation, with CNAS registration number 14577.

Achieving CNAS accreditation demonstrates that Morteng Laboratory's quality management system fully complies with international standards and that our testing capabilities meet advanced international levels. This accreditation facilitates the mutual recognition of testing results globally and fosters international cooperation and collaboration.

Moving forward, we are committed to efficiently conducting testing activities in accordance with CNAS accredited processes and standards. Additionally, we aim to expand our range of testing services to accommodate a wider variety of products, thereby enhancing our ability to serve our customers effectively.



Laboratory CNAS certificate

360 all-round service Supplying the entire operation life time service solutions.



Morteng, a manufacturer of carbon and slip ring systems based in China, is committed to delivering rotary transmission technology solutions to both domestic and international OEMs. We have acquired extensive technical expertise and valuable service experience, enabling us to effectively address the diverse needs of our clients. To ensure optimal customer satisfaction, we offer regular training, technical support, and additional services, providing comprehensive after-sales assistance.

1 Collaborating on research and development initiatives

1. Morteng will provide professional team building according to customer demand;
2. Project collaboration is categorized into two types: team organization and technical division of responsibilities;
3. To provide customers with a variety of programs.

2 Providing tailored solutions

1. Morteng will arrange professional staff to visit the site according to customer's needs;
2. Based on the current conditions at the site, we propose a solution and provide a detailed plan within one week;
3. After the end of the project, Morteng will provide periodic after-sales service.

3 Installations of new products

1. Morteng assures that existing customers will have priority access to trial our new products, with payment due only upon satisfaction;
2. We offer complimentary installation services for new products and will maintain ongoing monitoring of their performance.

4 Offering technical support and training services

1. will conduct regular training sessions for our customers to enhance their understanding of our products, as well as to improve their knowledge regarding installation, usage, and maintenance;
2. Based on the needs of our customers, Morteng will deploy technical personnel to offer professional support, assisting customers in resolving any issues they may encounter while using our products;
3. We will implement regular technical visits to share Morteng's latest technical achievements, aiming to help customers overcome any technical challenges they may face.

5 Establishing a 24-hour response system

1. Morteng has established a 24-hour response mechanism to assist customers, ensuring timely answers and solutions to any issues raised;
2. Based on the requirements of our domestic customers, Morteng's professional service personnel will arrive on-site within 24 hours to provide the necessary services and address any concerns;
3. Following the completion of services, Morteng headquarters will conduct a follow-up call within 72 hours to gather customer feedback regarding their experience.

6 Delivering on-site service and recovery assistance

1. Morteng is committed to delivering comprehensive on-site services for our customers, including product installation, maintenance, and repair;
2. We offer value-added services, such as technical upgrades and maintenance for customers' old models, to optimize the utilization rates of their equipment;
3. Morteng supports environmentally sustainable construction by employing technology to enhance the value of our products, thereby significantly improving their overall utilization.
4. In addressing the issue of consumable residual materials, Morteng provides environmentally responsible treatment services to assist customers in overcoming this challenge.

Certificates-Quality assurance

Certificates



ISO14001certification ISO9001 certification ISO45001 certification CE certification RoHS certification

Qualified QA guarantee system

Since entering the wind power industry in 2006, Moteng has continuously strengthened the construction of its quality assurance system, continuously improved its quality management level, always insisted on independent innovation, served its customers, and is committed to providing customers with full life cycle solutions. It has a quality management system that integrates cost management, project management, knowledge management, and supplier management.

Company Culture

Vision: To be the global leader in advanced materials and rotating technology

Mission: To explore limitless possibilities and deliver enhanced value

- For Customers: We aim to provide innovative solutions that create significant value.
- For Employees: We are committed to offering a platform for unlimited professional development, enabling individuals to realize their full potential.
- For Partners: We strive to foster collaborative opportunities that create a mutually beneficial value proposition.
- For Society: We pledge to harness technological advancements to support sustainable development initiatives globally.

Values: Commitment to Focus, Innovation, Value, and Win-Win cooperation

- We aim for expertise in our field, continuously striving for and achieving excellence.
- "We must embrace change to avoid stagnation; innovation is essential for survival in a competitive landscape. Our focus is on entrepreneurship rather than merely preserving the status quo." We will continue to evolve, prioritize innovation, and welcome change.
- We are dedicated to maintaining high-quality standards to meet customer expectations and generate value with genuine effort.
- We operate with sincerity, trust, fairness, and transparency, fostering a collaborative environment to achieve shared success.



Global business sector



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