



TECHNO
CARBON BRUSH



THE CARBON BRUSH COMPANY



TECHNO ENGINEERING & CARBON BRUSH CO

An Iso 9001:2015 Certified Company

TECHNO CARBON BRUSH
info@technocarbonbrush.in

Product Range

- 1 CARBON BRUSHES
- 2 CARBON BRUSH HOLDERS
- 3 PENTOGRAPH CARBON BRUSHES
- 4 GRAPHITE ELECTRODES
- 5 CARBON VANES & ROTORS
- 6 CARBON BEARING AND BUSHING
- 7 CARBON SEALS & STEAM JOINTS
- 8 CARBON SEGMENTED RINGS
- 9 BRUSH HOLDER ARM
- 10 SLIPRINGS
- 11 CURRENT COLLECTOR
- 12 COLLECTOR SHOES & SLIDING CONTACTS
- 13 HT COPPER CONTACTS
- 14 CF SPRINGS
- 15 TERMINAL BLOCK
- 16 INSULATORS



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Carbon Brushes

A Carbon Brush is a conductor serving to provide, at a rotating surface, electrical contact with a part moving relatively to the brush. In a generator or motor, the commutator rotates on a shaft and the fixed carbon brush rides on it to permit the flow of electricity and complete a circuit.

Our brushes can be custom engineered and manufactured to meet the requirements of your particular motor or generator. Finding the proper brush design for the operating conditions of your motor is the key to maximizing the life of the brush and contact surface. Poor brush selection can result in fast brush wear and damage to the contact surface. Techno Carbon's engineers are industry-leading experts on sliding electrical contacts found in:

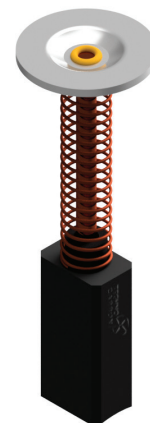
- Turbine Generator
- Wind Turbine
- Traction Generator
- DC Motor
- Synchronous Motor
- Hoist / Drag Generator
- AC Synchronous Motors
- Hydro Generator
- Traction Motor
- Ball Mill Motor
- Exciter
- Swing / Hoist Motor
- Induction Slip Ring Motors
- AC Generators
- Steam Turbine
- Traction Alternator
- Slipring Motor
- Synchronous Generators
- Swing Generator
- Fractional HP Motors
- Grounding Applications

Types Of Carbon Brushes We Offer



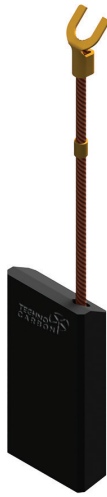
WIRELESS BRUSH

- Sometimes referred to as shuntless brushes
- Commonly used in FHP motors, micro-motors, power tools, household appliances, or other small DC motors
- Cost-effective parts, manufactured by molding or press-to-size process



TAMPED WITH SPRING BRUSH

- Typically a smaller brush, with a tamped shunt surrounded by a spring coil and topped with a soldered cap
- Commonly used in FHP motors, medical imaging equipment, tachometers, aerospace, Bearing Protection Kits™, power/signal/data transmission, and variable transformers (variac brush)
- Cost-effective parts manufactured by molding or press-to-size process



TAMPED SINGLE WIRE BRUSH

- A simple design, one wafer, one tamped shunt, one terminal.
- Commonly used in DC Motors & Generators, industrial, elevators, lift trucks or forklifts, grinders, FHP Motors and paper mills, variable transformers (variac brush)
- Precision machined by Techno Carbon through automation and master handiwork



TAMPED MULTIPLE WIRES BRUSH

- A simple design: one wafer, two tamped shunts, one terminal
- Commonly used in DC motors, slips-rings, power generation, general industrial, elevator, FHP motor, and railroad
- Precision machined by Techno Carbon through automation and master handiwork



TAMPED MULTI-SECTION BRUSH

- Multi-wafer brushes are typically seen with 2 or 3 wafers and commonly connected to a single terminal. A Techno Carbon's rubber top is also popular with multi-section brushes as it helps secure each wafer together, insulate the spring from carrying current, and absorbs excess vibration.
- Commonly used in slip-rings, general & heavy industrial, paper mill and railroad
- Precision machined by Techno Carbon through automation and master handiwork



RIVETED SINGLE WIRE BRUSH

- Typically a single wafer brush, one shunt wire, and one terminal. Riveted for an extra secure brush-to-shunt connection and often will include a Techno Carbon's Rubber Top.
- Commonly used in elevators, slip-rings, FHP motors, general & heavy industrial, paper mills, hydro or other power generation
- Precision machined by Techno Carbon through automation and master handiwork



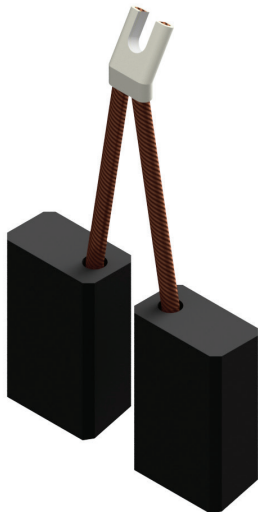
RIVETED MULTIPLE WIRE BRUSH

- Typically a single wafer brush, with 2 or more shunt wires, and one terminal. Riveted for an extra secure brush-to-shunt connection and often will include a Techno Carbon's Rubber Top or a hammer plate.
- Commonly used in elevators, slip-rings, FHP motors, general & heavy industrial, paper mills, hydro or other power generation
- Precision machined by Techno Carbon through automation and master handiwork



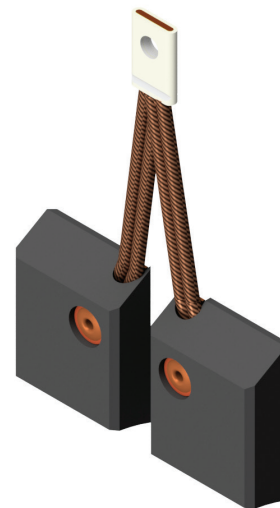
RIVETED MULTI-SECTION BRUSH

- Multi-wafer brushes are typically seen with 2 or 3 wafers and commonly connected to a single terminal. A Techno Carbon's Rubber Top is also popular with multi-section brushes as it helps secure each wafer together, insulate the spring from carrying current, and absorbs excess vibration.
- Commonly used in elevators, slip-rings, general & heavy industrial, paper mill, and railroad
- Precision machined by Techno Carbon through automation and master handiwork



TAMPED PAIRED BRUSH

- Paired brush wafers with separate shunts, commonly connected by one terminal.
- Commonly used in slip rings, lift truck or forklifts
- Precision machined by Techno Carbon through automation and master handiwork



RIVETED SINGLE WIRE BRUSH

- Two separate brush wafers, with separate shunts paired at the terminal. Riveted for an extra secure shunt-to-brush connection.
- Commonly used in aerospace, lift truck or forklifts, FHP motors or industrial
- Precision machined by Techno Carbon through automation and master handiwork

Brush Holders

Brush Holder, One of the best indicators of the operating conditions of a DC or AC machine is the performance of the carbon brush on the commutator. The ability of the brush to perform is directly related to the design and quality of the brush holder that contains it on the commutator or slip-ring. A robust design of Techno Engineering & Carbon Brush Co's brush holder technology ensures precise positioning of the carbon brush every time. A range of anti-corrosive and non-ferrous alloys are used to manufacture our products which are used in commutators and slip rings (AC/DC Motors)—all the designs we made as per International Standards and client's needs.

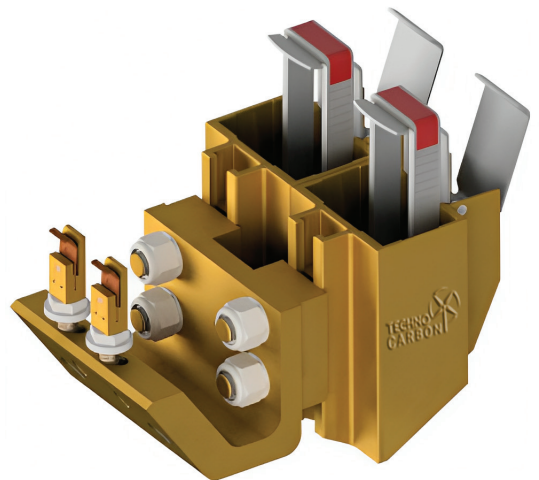
Techno Engineering & Carbon Brush Co. offers high-quality brush holders approved by OEM for the followings:

- Turbine Generator
- Wind Turbine
- Traction Generator
- DC Motor
- Synchronous Motor
- Hoist Motor
- Hydro Generator
- Traction Motor
- Ball Mill Motor
- Exciter
- Swing Motor
- Hoist Generator
- Steam Turbine
- Traction Alternator
- Slipring Motor
- Synchronous Generators
- Swing Generator
- Drag Generator

Types Of Carbon Brush Holder We Offer

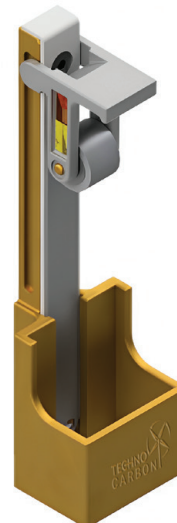
INDUSTRIAL HOLDERS

- Solid construction provides better performance, longer brush life and lower maintenance costs than the original holder
- Over 40 standard models in stock for GE, Reliance, Westinghouse, etc.
- Easy to install
- Constant Force Springs for increased performance out of your brush
- Custom engineered designs for any applications



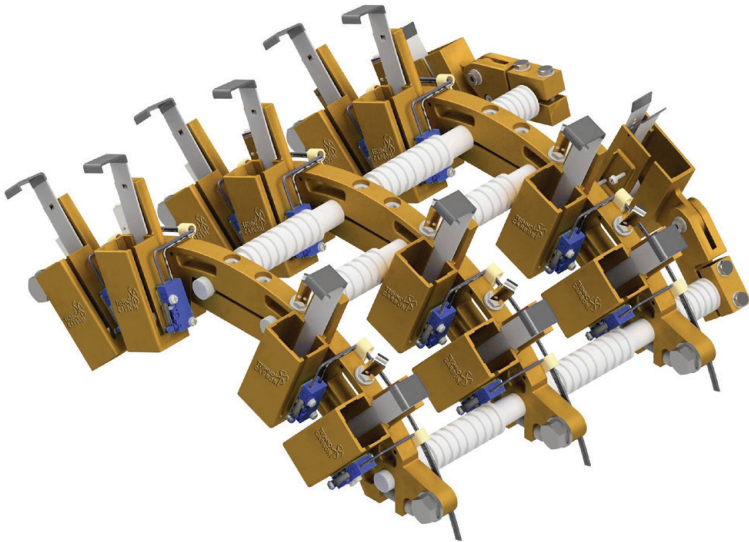
TURBINE STYLE HOLDERS

- Direct retrofit and custom designs for upgrades are available
- Adjustable mounting bolts to increase installation flexibility for proper height above rings
- Constant force holder design with Wear Indicators to easy maintenance
- Replaceable spring clips provide less costly downtime



ADJUSTABLE SLIPRING HOLDERS

- Fully adjustable slip ring holder designed to fit a wide array of applications
- Custom designed holders easily retrofit existing equipment and exceed performance of the original holder
- Custom designs for Carbon Brush Holders used in all types of motor discussed earlier.
- Standard holders in stock for GE, CGL, Kirloskar, Alstom, Marathon, IEC, BHEL power generation
- Replaces single holder and bank of two designs
- Constant force spring design
- Offered in specific standard box sizes as per requirement

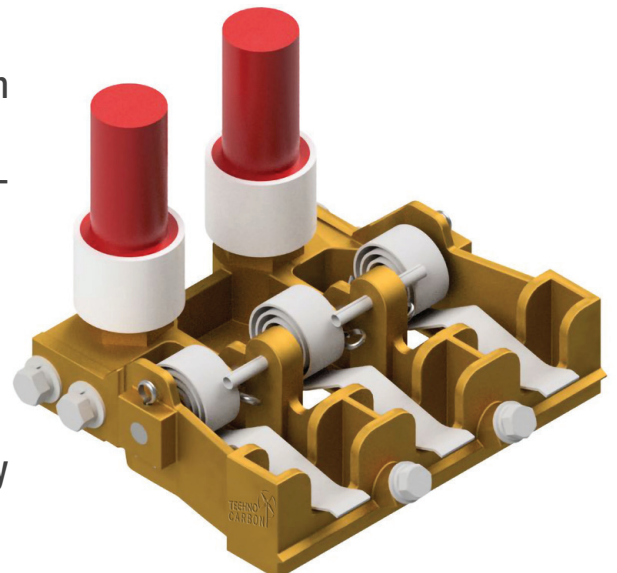


WIND RETROFIT HOLDERS

- Robust design exceeds OEM holder performance
- Engineered for maximum reliability, easier maintenance, and fewer up-tower repairs
- Replaceable and adjustable brush boxes
- Simplified wiring harness
- Teflon spacers to protect ring phases
- HQDs for faster brush changes
- ISO 9001 Certified

TRACTION HOLDERS

- Enhanced replacement for 752 drilling & traction holders
- Heavy-Duty gunmetal cast and brass alloy for extremely rough mining & traction applications
- Internally reinforced insulator studs
- Reduces vibration
- Minimizes stud breakage
- Durable clock style spring
- Includes a stud to hold spring finger for fast and easy brush changes



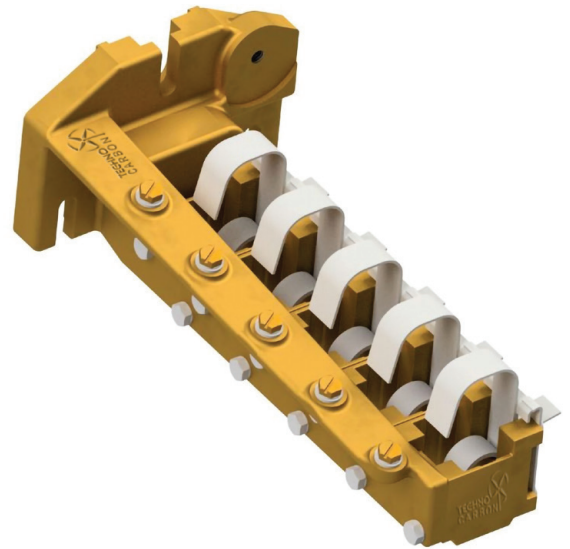
CAST HOLDERS

- Made from premium brass alloys and gun metals
- Best for high volume quantities but can offer smaller quantities as per your requirement
- A wide range of casted brush boxes are stocked in both imperial and metric sizes
- Multiple castings for popular industrial motor/generators
- Enhanced replacement of all GE, Westinghouse, BHEL, CGL.



MULTIPLE BOX HOLDERS

- Commonly used on large DC Motors
 - GE, Westinghouse, Siemens, ABB, CGL, Kirloskar, Marathon and other mill motors
- Multiple box holders are engineered with adjustable and replaceable brush boxes
- Designed with longer brush boxes for increased brush life, lowering maintenance costs
- Spring Assemblies allow for safer and quicker brush changes



FINGER STYLE HOLDERS

- Recommended for rough, high-vibration or excessive run-out applications
- Designed to retrofit existing holders and spring combinations
- Improved brass holder to withstand extreme environments
- Engineered for individual holder replacements when needed
- Able to use your existing brush – same length brush box



OTHER STYLE HOLDERS

TECHNO CARBON can custom engineer any holder to your desired specifications. For custom engineering projects, please contact us directly at +91 95939 07840 or sales@technocarbonbrush.in

ABOUT US

To manufacture an electrical equipment, we need a good expertise of different kind of teams. In an industrial, automotive and transportation sector a carbon brush plays a critical role as all of them is having a strong relation with electrical motors and generators. The value of a motor's rotating element is higher than a static element. A good quality of Carbon Brush, Brush Holders and Sliprings can improve the maintenance operations of a motor and increase life of a motor and other elements. If there is any problem with a motor, it may cause a inappropriate condition to work and might be a time consuming process to resolve the issue. We can understand the value of your time and for that reason Techno Engineering & Carbon Brush Co. has established in 2006.

We, Techno Engineering & Carbon Brush Co., are leading supplier of Carbon Brush, Brush Holders, Sliprings, Springs, Terminals etc. Our products are made from best class raw materials. We manufacture our products as per the customer's needs and the Indian & International Standard. We use both Imported and Indigenous product to manufacture our product.

Our Clients :





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