



Graphite Catalogue

High Performance Graphite Parts



Carbon Brushes

We offer world class carbon brushes. Selecting the correct grade carbon brush is important for commutator performance, maximum brush life, and high motor performance. The correct carbon brush is available to meet your requirements for your motors or generators. The benefits to our customers include carbon brushes that can increase uptime and reduce maintenance costs by improving machine reliability and availability. The correct brush grade is the key to meeting the unique operating requirements of such diverse applications as Mining, Battery Electric Vehicles, Aerospace, Power Generation, Traction and Industrial.

We offer many different carbon brush grades such as:

- Electro Graphite
- Resin Bonded
- Pitch Bonded
- Copper impregnated
- Silver Impregnated
- Copper Graphite

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Brush holders

We supply a wide range of brush holders, including traction, transit, and industrial holders.

The stocked range includes the "Calliper" type Double Arm holders for simple slip ring applications through to the popular cast body, constant force, RTR type for DC motor duty.

There are also heavy-duty brush holders for large AC Slip Ring Motors and special " Spark Plug" Style holders for clutch supply applications.

Industrial Brush Holders

We supply brush holders to suit industrial applications used throughout industries such as:

- Steel manufacturing Aluminium manufacturing
- Paper & Pulp producers Printing Packaging & Plastics
- Open cut and underground mining industry

MorganAM&T™



Slip Rings & Commutators

We can supply slip rings and commutators for industrial and traction applications.

Slip Rings whether built up or moulded, supply both, as well as the brush holders and carbon brushes to suit, we also offer repairs and refurbishment.

Supplied in a wide range of sizes and designs for both power and signal transmission.

- 1 to 8 rings
- 24 to 500 mm outside diameter
- To 550 V AC / 600 V DC
- high mechanical and thermal resistance.
- excellent dielectric properties.
- diameter of 500 mm.
- Insulation class H.

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Collectors – Transport

We offer carbon and metalised carbon current collector strips and assemblies for pantograph and third rail applications. We offer a collector solution for all application requirements, from 600v right through to 25KV on mainline rail, light rail systems or tramways, local speed through to high-speed we have the current collector solution for you. Used to transfer current from the rail or overhead line we have optimised our materials, supported by our applications engineers with global expertise, ensuring long life and high performance of both the collector, overhead wire or rail.

Please see below the types of products we offer:

Pantograph Strips

- Metal impregnated and plain carbon- Material grades for overhead current collection
- Bonded design
- Sheathed -soldered & non Soldered
- Kasperowski
- Integrated and fitted end horns
- Auto drop- Auto drop impact detection system
- Carbon section in a variety of sizes-examples of carbon sections
- Metal Sheaths designs adaptable for an easy refit- Examples of available metal carrier profiles

Third Rail Shoes

- Metalised Carbon and Plain Carbon- Material grades for third rail shoes
- Fitted & Unfitted
- T bolt

Trolley Bus Inserts

- Metalised Carbon and Plain-Material grades for trolley bus systems
- Plain Carbon
- Fitted and unfitted
- Tapered and double tapered designs



Bearings and Seals

Carbon, graphite, and silicon carbide materials are used extensively in the mechanical sealing industry. As a components manufacturer for the leading Original Equipment Manufacturers (OEMs),

The inherent self-lubricating properties of the carbon graphite, along with chemical resistance and dimensional stability, make these materials an ideal choice as bearings in many applications, wet or dry. As the requirements in the fluid stream change, formulas can be tailored to suit the needs of the application. In addition, our silicon carbide materials are available to address abrasive conditions.

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Felt and Insulation

Focusing on the needs of industries such as aerospace, semiconductor and photovoltaic, metallurgical, optical fibre manufacturing, glass processing and ceramics, we supply a wide range of carbon and graphite felt and cloth materials unequalled in performance.

Carbon and graphite felts are available in thicknesses from 1/8" to 1" and in standard widths of 44" and 49". Custom widths and shapes can be cut to your specification.

For applications where contamination is a performance factor, our industry leading purification treatment ensures demanding high tech processes are afforded the high purity levels they require.

MorganAM&T™



Specialty Graphite

We are supplying specialty graphite products for over a century gaining expert knowledge in this field, providing products such as continuous casting dies precision machined from Isostatic graphite used for casting non-ferrous alloys, precious metals and grey iron in the metallurgical industry. Resistance heating elements and component handling trays manufactured from extruded and isostatic pressed graphite for use in high temperature environments such as furnaces. Fine grained high purity graphite, sometimes with glassy coating or impregnation used for ion implantation and plasma etching equipment in semiconductor production.

High purity graphite for graphite heaters and furnace components, used in the manufacture of fibre optics. Engineered graphite powder with controlled particle morphology and composition for synthetic diamond production. Graphite components are utilised in many aspects of hot glass handling where its unique combination of properties confers the functionality required for diverse manufacturing and glass/metal sealing applications key components in float-glass systems for the continuous manufacture of large format plate glass are made using specialty graphite components.

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