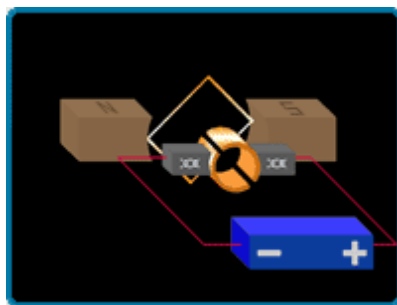


Technical Support – Rotating Machines

What is a Brush

Although they differ in size, shape and technical composition carbon brushes and collectors all fulfil the same basic function, which is to transfer current from a moving device to a stationary point within an electric circuit.



How a Brush is made

There are two stages in our manufacturing at Morriston:

- The processing of various raw materials to produce a range of grades of carbon.
- Machining and assembly to produce finished carbon brushes and other collectors from the processed grades.

Our processes start with raw materials such as coke, graphite, carbon black, copper powder and pitch. Measured amounts of these materials are ground, blended and mixed together according to the grade required.

After pressing to shape in a die, the materials are kilned (heated in high temperature ovens). Further processes such as impregnation and high temperature heat treatment are used to obtain special properties.

Brushes and other components are produced from these materials by a series of light machining and assembly operations.

Some of these are conventional, for example grinding and drilling, metal stamping and soldering; while others are specialised.

To meet the range of demand, our manufacturing methods extend from one-off production to a customer's specification to automated production of hundreds of parts per hour.

With all our products, quality is vital; all output is quality approved to the highest standard.