

## Metal and combined metal and plastic products

- brush holders
- metal contacts
- slip rings
- other metal and combined metal and plastic products

New products such as brush - brush holder - slip ring - insulator assembly are the results of our continuous development and research. Today we also produce parts made of metal and combined metal and plastic necessary in production of electric machinery.

Technology similar to sintering of metal - graphite brushes resulted in another new product - metal contact for electrical control gears.

### Brush holders

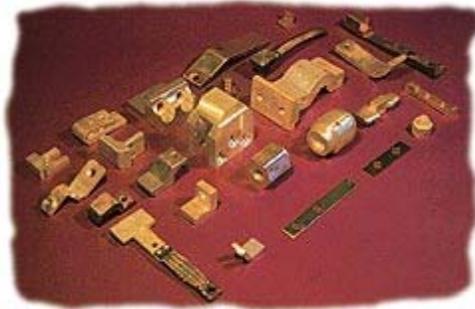


The brush and brush holder assembly plays an important part in maintaining stable contact between the brush and collector. It should provide resilience and provision for maintenance of correct brush pressure at the contact surface as the brush length is reduced due to wear.

We produce various types of brush holders designed for large and medium sized electrical machines and fixtures needed for mounting the brush holder as close as practical to the collector or slip ring surface.

Brush holders for rail traction motors are a special group.

## Metal contacts



In our production of electrical contacts for switches, circuit breakers, contacts, relays etc. we mostly use sintered materials based on silver, copper, and tungsten and cadmium oxide.

These materials have high oxidation stability, good thermal and electrical conductivity and resistance to burn - off through arcing.

## Slip rings

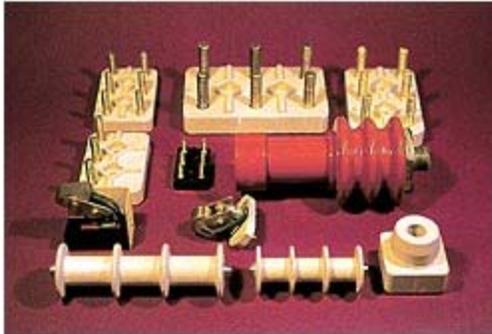


Because of their service reliability pressed slip rings have replaced the conventional slip rings consisting of single rings insulated from each other, with a screwed connection.

Compared with the latter, pressed slip rings show considerable advantages, primarily due to their totally enclosed design, small dimensions, high mechanical and dielectric strength, impact strength and vibration resistance and required insulation class.

A slip ring usually consists of three rings, but it is also may be produce with two or four rings on request.

### Other Metal and Combined Metal and Plastic Products



This part of our production program refers to parts used in the production of electrical machines such as roller contacts, terminal boards made of plastic for all kinds of electrical equipment, insulators and insulated brush holder arms, and many other metal and plastic products mainly used in electric engineering industry.