

## OPTIMUS V-TYPE

The in-house developed Carbex Optimus V-Type Brush holder is designed to suit most common place generators or shaft diameters on the market.

The Optimus V-Type is a brush holder designed to attain balanced spring pressure, even current distribution between all brushes, and reduce carbon brush wear and tear by up to as much as 25%.

We achieve this by using a main spring for all the brushes in the same phase and, at the same time, ensuring the angle to the slip ring is always 90°.

This allows for adjustment of the angle of the pressure fingers to compensate for the spring's various properties and the carbon brush's actual weight when the brush is worn down.

The Optimus V-Type also has a pressure plate that distributes the pressure and prevents conductors in the carbon brushes from coming into contact with the slip ring when the brushes are worn down.

A carbon brush is not homogenous but pressed with a specific density that results in wear with small variations. To solve this, the V-Type is equipped with compensation rings for each individual carbon brush resulting in even wear of all brushes.

### THE OPTIMUS V-TYPE HAS MANY ADVANTAGES COMPARED WITH TRADITIONAL AND MORE COMMONPLACE SYSTEMS ON THE MARKET.

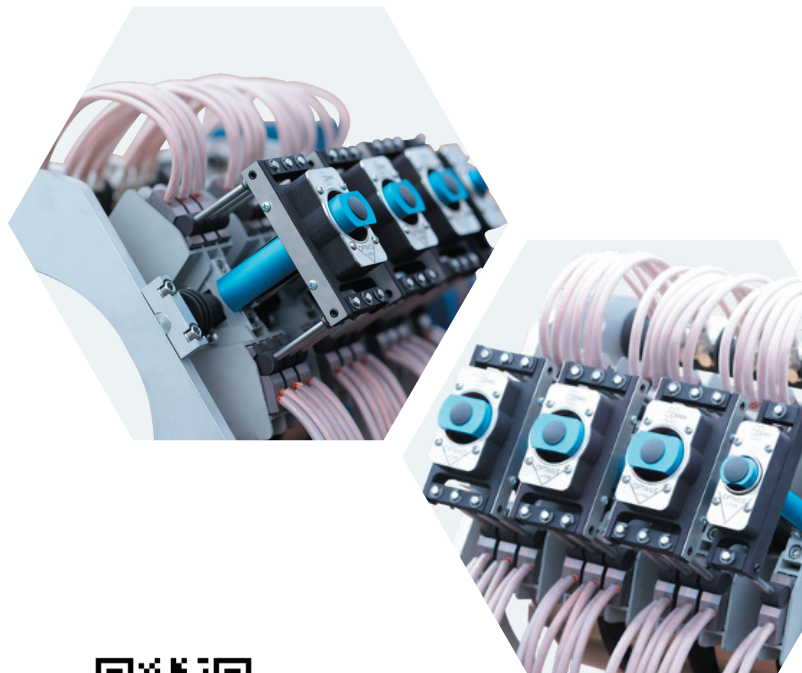
- Equal spring pressure on all carbon brushes.
- Prevents uneven brush wear and tear.
- Reduces brush wear by up to 25%.
- Reduced maintenance.
- Slimmer design enables better cooling of the slip ring system.
- Space-saving design.
- Microswitch for wear and tear.
- Simple and fast assembly/disassembly.
- Lower total weight than other commonplace systems on the market.
- Integrated mechanical wear stop function.
- Designed to suit most commonplace generators or shaft diameters on the market.

### ACCESSORIES

- Sensor for measuring the temperature of the brush holder
- Continuous live monitoring of wear and tear (4-20mA) mm.

### THE OPTIMUS V-TYPE BRUSH HOLDER IS ALSO AVAILABLE IN A GROUNDING EXECUTION

Developed in-house, the Carbex Grounding brush Holder "OPTIMUS V-TYPE – GROUNDING" is available in two versions, for internal and external mounting. The grounding brush holders are designed to suit most commonplace generators or shaft diameters on the market. These holders have many advantages compared with traditional and more commonplace systems on the market.



PRODUCT AND DATA  
SHEETS FOR DOWNLOAD

BEYOND THE BOUNDARIES OF BRUSH TECHNOLOGY