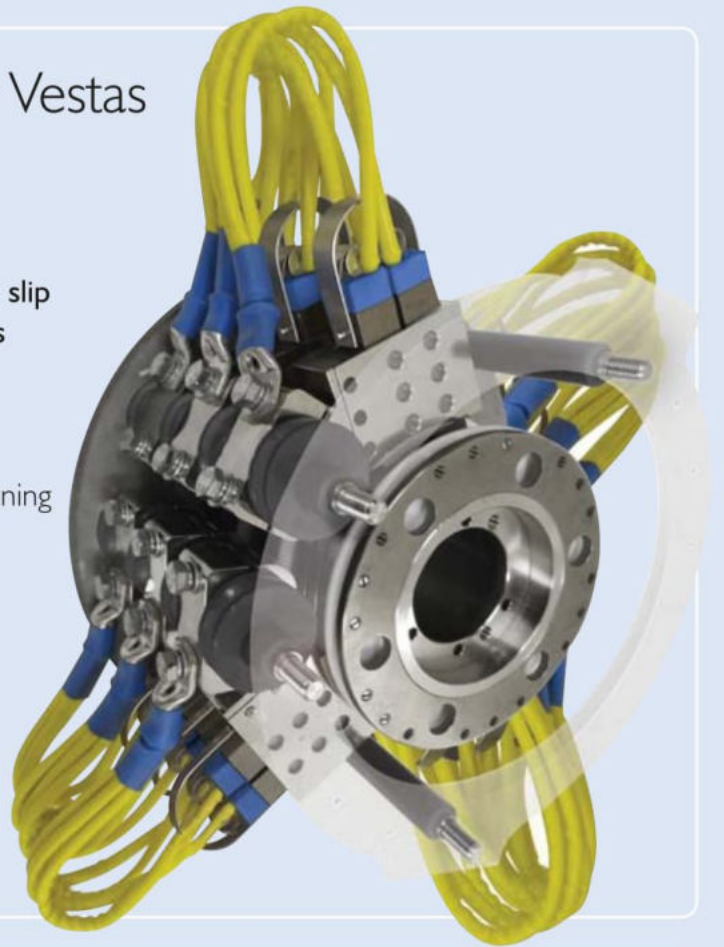


Morgan Standard Parts for Vestas SiemensWind Turbines*

V90 3MW Morgan Upgrade

Morgan have optimised the brush, holder and slip ring system to reduce your maintenance costs providing -

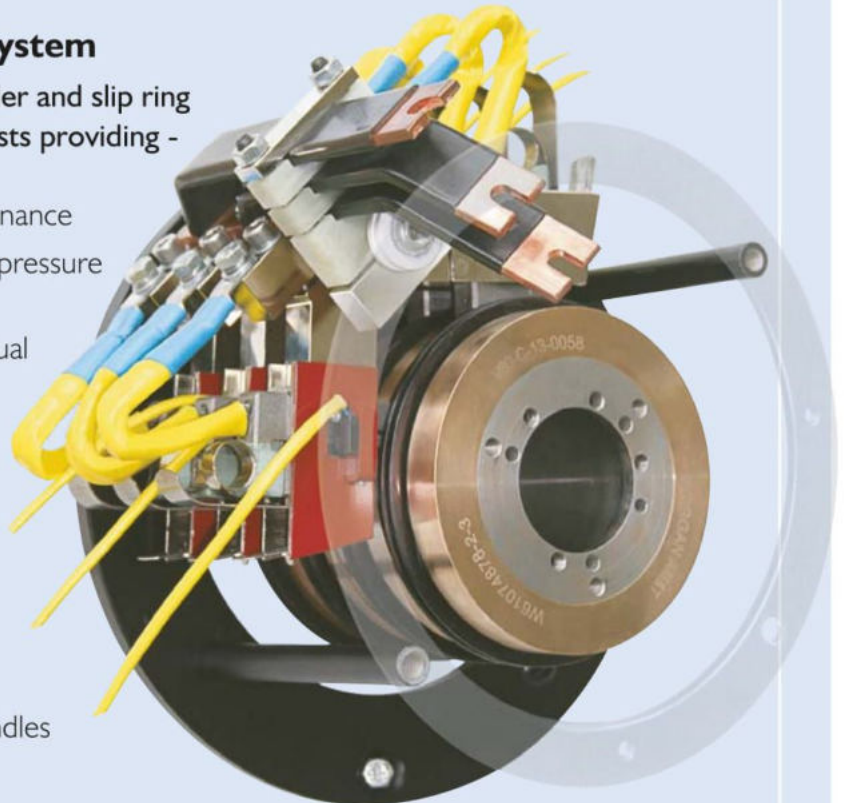
- Reduced slip ring wear and damage
- Optimised brush length for more efficient running
- Improved spring coil location
- Improved brush support and stability
- Unobstructed simple brush removal
- Ease of brush fitment
- Brush wear viewing
- Improved brush running conditions, brush life and slip ring life



V52 - V80 Morgan upgraded system

Morgan have optimised the brush, holder and slip ring system to reduce your maintenance costs providing -

- Increased brush length reduces maintenance
- Constant force spring providing stable pressure over full length of brush life
- Brush wear alarm indication on individual pockets (optional)
- Nickel plated for off shore & coastal applications
- Improved brush running conditions, brush life and slip ring life
- Brush wear envelope on Morgan re-design is double that of the OEM caliper design
- System includes holders, bus bars, spindles
- Plug and play system easy to install



Morgan Equivalent Parts - part number is used for reference purposes only and is a Morgan Advanced Materials equivalent aftermarket part*

We offer complete solutions and in particular the following brush holders, springs, clips, earthing brush cartridges and terminal connectors.



Morgan Vestas wind turbine holder range

V52, V66 & V80 we offer caliper type holders and brushes to fit for a lightweight flexible fit and for the V90 a high end designed brush holder with constant force spring for optimum brush performance.



Earthing brush cartridges and terminal connectors

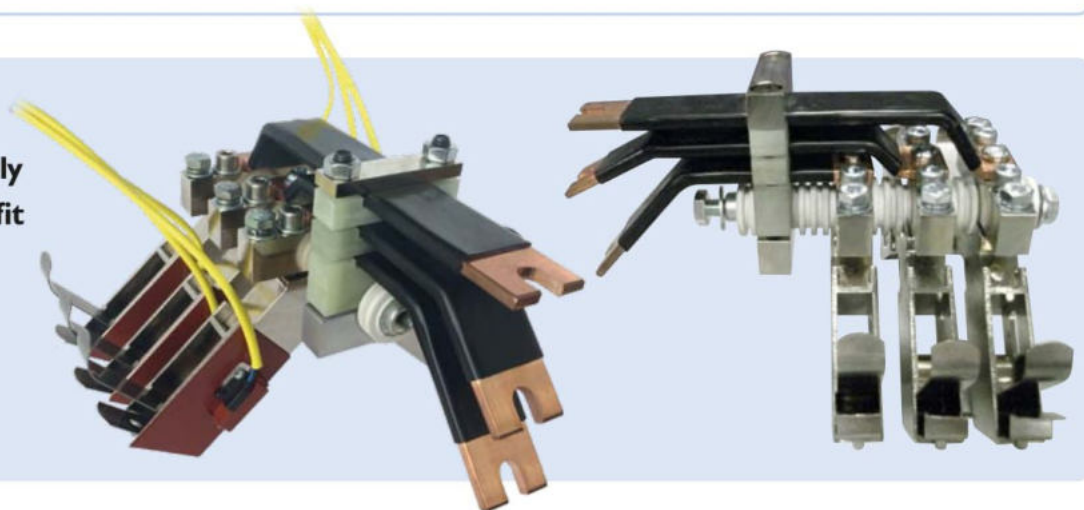
Morgan also offer range of Earthing brush cartridges and terminal connectors for the Vestas wind turbines.



Morgan Siemens/Bonus wind turbine holder range

Morgan offer a complete product portfolio for the Siemens/Bonus wind turbine comprising of power brush holder and lightning dissipation holders, hub control holders all with brushes to fit and we also include lightning coils in our range.

**V80 & V52 upgrade
brush holder assembly
designed for ease of fit
and interchangeable
between V80 and
V52 turbines**



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