



Wind Turbines

GAMESA 2.0 MW Doubly Fed Generator

Many GAMESA generators are experiencing poor brush life, heavy dusting, and damaged slip rings. These symptoms can be corrected by applying the correct technology.

Morgan Advanced Materials has developed a solution to **SOLVE** these problems. The main improvements and results of this upgrade are:

- Brush life is easily extended past 30 months, **MINIMUM**. Reducing the amount of brush dust translates to reducing overall maintenance cost and reducing or eliminating flashovers.
- The brush is an Aerospace grade material that films well in both low and high load conditions, and equally as well in low humidity atmospheres.
- Complete replacement kit #: W61074860G1 is easily installed up-tower in two hours.
- Ground yoke features a three-point contact design that optimizes brush and slip ring interface by preventing loss of contact and minimizing or eliminating slip ring grooving. Resulting in significantly extending service life of both brushes and the slip ring.
- This improved robust yoke and clamp design stabilizes the entire brush rigging which includes three power phases and one ground yoke. The brush holders are precision machined and fully support the longer brush, increasing brush stability and decreasing side wall friction.
- The innovative split clamp design allows the entire yoke to move so the brush holders can be adjusted to the recommended height above the slip ring; **improving stability**.
- Constant force type of spring; delivering the proper and equal brush pressure for a low wear differential from brush to brush.
- The spring clip assembly allows for easy, economical replacement without removing the brush holder.
- The upgrade utilizes an EZ Connector termination system allowing for easy brush change outs without the need for tools. Brush change out time is **reduced by half**. There is no wasted effort looking for dropped bolts and washers!
- The resulting **improved brush life** reduces the cost of replacing brushes and inventory. Morgan brushes are economical and long-lasting.

Complete Assembly Includes 3 Phase Yokes and 1 Ground Yoke
(all brushes, springs, and wiring harness' are also included)
W61074860G1



EZ Connector and
Power Brush



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