

## PEES Power Systems

# Wind turbine generator shaft repair method



## Overview

---

After machining the damaged shaft, the basis material is tested for micro cracks, hardness and roughness. Finally, a pre-made bushing is shrink-fitted to restore the original dimensions of the generator shaft. Modern in-situ repair eliminates the need to disassemble the turbine. You save time, cut costs, and reduce risk. Here's how a typical wind turbine shaft repair is completed on-site: L&H Industrial, leveraging its deep roots in high-precision machining and innovation, pioneered two groundbreaking repair solutions tailored specifically to GE and Siemens main shaft designs: the Weld Overlay Journal Repair and Roller Burnishing Journal Repair. These capabilities are available in several SKF locations around the world, where the same standards and methodologies are applied. The standard repair capabilities include In addition to the standard repair, we also. 24/7 and 365 days a year, our skilled service engineers recover generator shafts, yaw rings and other large components to the manufacturer's specifications on-site. ADVANTAGES Metallurgical Bond.

## Wind turbine generator shaft repair method

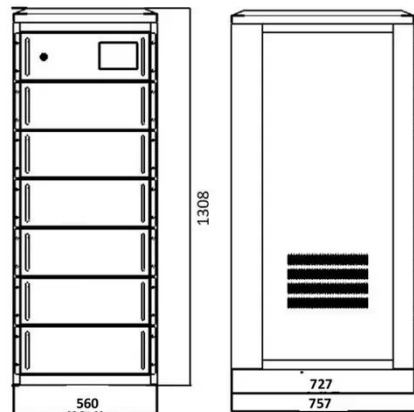


### Wind Turbine Repair and Maintenance , Sadler Machine Co.

Planet carrier repair, upwind and downwind (pin bores, caps and journals) are repaired typically using one or more of five methods, sleeving, HVOF coating welding, plating and boring.

### In Action: Shaft Repair Keeps Wind Turbine Spinning

Whether it is excessive wear, corrosion of the metal or even electrolysis, Belzona solutions are able to help restore the damage and protect it for the long term. This is the case in the ...



### Up-tower recovery

Different degrees of ball bearing seizure is the most frequent reason for damages to the generator shaft. For different wind turbine models of 2 MW and larger, we have the tools and the experience to ...

## Wind Turbine Generator Repair , H& N Wind Power Systems

In order to minimize our customer's downtime, we have obtained the latest rigging and jigs to provide up-tower repair on both generators and gearboxes from multiple manufacturers.



## Wind Turbine Main Shaft Repair , Oregon and Washington

Specializing in wind turbine main shaft restoration, shaft repair, engineering, and bearing fit repairs of wind turbine main shaft assemblies, including GE, Siemens, Vestas, Suzlon, and Mitsubishi.

## Wind Turbine Shaft Repair: Fast On-Site Solution for Shaft Wear

When deciding how to fix a worn shaft, you have two main options: factory-based or on-site wind turbine shaft repair. Modern in-situ repair eliminates the need to disassemble the turbine. ...



## Case Study: Main Shaft Repairs



Extend the life of your main shaft by accessing the case study on L& H's revolutionary main shaft repair process and enable your assets to run like the wind.

## Wind turbine main shaft repair

Follow the process SKF has developed to repair and upgrade wind main shaft solutions.

LiFePO<sub>4</sub> Battery, safety

Wide temperature: -20~55°C

Modular design, easy to expand

Wall-Mounted&Floor-Mounted

Intelligent BMS

Cycle Life:> 6000

Warranty:10 years



## Wind Turbine Main Shaft Repair

The function of a wind turbine main shaft, like the one pictured below, is to transmit the rotational energy of the turbine blades to the gearbox - then ultimately to the generator. Over time, the bearing journal ...

## Wind Turbine Main Shaft & Components Repair

Our team worked on the main shaft and components, providing engineered

solutions from precision machining, thermal spray, and reverse engineering, completing all repairs and replacements within ...



---

## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://www.peregrine-energy.co.za>

