Up-tower recovery

MAN PrimeServ

The focus on up-tower repairs in the wind energy sector is increasing, and the link between cost savings and reducing downtime is more evident now than ever before.

When a large mechanical component is damaged, we help wind turbine operators save costs and reduce downtime by bringing the workshop up-tower and recovering the wind turbine on-site instead of transporting the component to a workshop on the ground.

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.

Whether onshore or offshore, we have extensive experience in up-tower repair minimizing expensive downtime for the wind energy sector worldwide. We work closely with our customers constantly improving our repair processes and finding new and innovative tools that restore wind turbine performance.

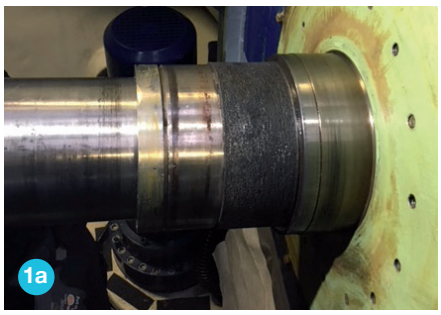
Our services to the wind industry include:

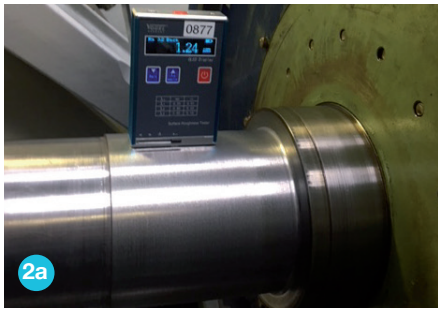
- Generator shaft recovery
- Yaw / brake disc recovery
- Tooth recovery
- Hollow shaft recovery
- Stud & thread recovery
- Flange recovery
- Measurement & alignment
- Customized recovery

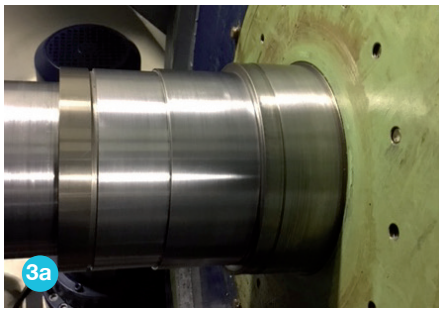
As a company that thrives most when challenged, we are proud to evolve with the exciting technology in the wind industry.

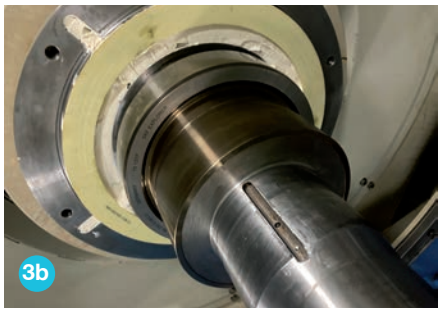
Generator shaft recovery

Drive end or non-drive end









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 perform up-tower recovery of the shaft.

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. Complete recovery of the shaft to manufacturer's specifications is performed in three days.

1a Shaft damaged by bearing failure

2a Shaft after machining

3a Sleeve fitted after machining

1b Part of bearing attached to shaft

2b Bearing partly removed

3b Sleeve fitted after machining

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