

Press release

CNC Onsite to present innovative yaw ring repair at WindEurope 2023

Using the company's patented, portable and compact tool onsite and uptower, the yaw ring is repaired, not replaced, resulting in cost reduction, both offshore and onshore, while eliminating the CO2 emissions from crane and transport needed for replacement

VEJLE, Denmark, 11 April, 2023 – At its stand E-D54 at WindEurope 2023, 25-27 in Copenhagen, Denmark, CNC Onsite, a mobile machining expert, will be demonstrating its patented yaw ring repair method that eliminates the costly, time-consuming and potentially risky disassembly of the rotor and nacelle. When applying CNC Onsite's patented custom-built tool and method, the yaw ring does not need to be replaced.

A crucial component in securing maximum power production from a wind turbine, the yaw ring, also called a “yaw gear rim”, is complex to replace and the costs are so high that damage to the teeth can leave operators of older wind turbines with little choice other than scrapping them.

CNC Onsite offers the repair service for both onshore and offshore wind turbines at a fraction of the cost of replacing the entire yaw ring, and that makes it viable to keep perfectly good turbines operating for longer. Launched in 2019, the machine has repaired yaw rings in several countries across Europe on both onshore and offshore wind farms.

At WindEurope, CNC Onsite will use graphics and live commentary to demonstrate how its portable precision machine repairs the yaw ring, removing damaged areas and reinserting prefabricated teeth.

CNC Onsite designed the machine to be disassembled into manageable components to allow lifting and handling. After reassembly in the nacelle, the compact machine can be operated in the confined working space around the yaw ring.

The repairs, which are carried out inside the turbine, can be completed in most weather conditions, ideal for both work schedules and costings.

The toothed yaw ring is a gear that engages with motors mounted on the nacelle to align the rotor blades with the wind. CNC Onsite estimates that turbines on some 5 to 10 percent of wind farms will experience damage to their yaw ring teeth during their service life. Typical causes include unpredictable wind events or uneven loads sustained over time.

Replacing the yaw ring requires the entire nacelle to be detached using a crane and specialist resources – a process that is expensive, labor intensive and time consuming and, whenever a nacelle is taken down, there is a potential risk of damage, especially to the blades. CNC Onsite

repairs are completed within days - minimizing downtime - and contributing to significantly reduced CO2 emissions as no cranes and trucks are needed.

About CNC Onsite

Headquartered in Vejle, Denmark, CNC Onsite operates in the onshore and offshore wind sector, designing and delivering high-precision mobile machining solutions for large diameter steel flanges and blade roots. CNC Onsite also offers specialized repairs of yaw ring, blade root inserts, rotor lock, generator shaft, bearing housing and fixings. Website: www.cnconsite.dk

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