## A component journey

## Strong winds – Turbine gears

Modern wind turbines are complex power generation systems, with thousands of components, and are expected to provide reliable operational service for 20-30 years. The drivetrain of a wind turbine – consisting of the gearbox and generator – is exposed to extreme environmental stresses and high torque loading. To withstand such high dynamic loads, gearbox systems use heat treatments to exacting specifications to impart vital material properties such as fatigue strength and surface hardness.





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