



Insulating Shafts for Wind Turbines



In the drive section of wind turbines with gearboxes, the generator should be electrically insulated from the gearbox. This safely prevents leakage currents out of the generator into the gearbox, where it can lead to electrochemical corrosion. Adequately constructed insulation also reliably prevents damage to the generator and electronic components in case of lightning strikes in the rotor.

Of course, the insulating shafts do not need to perform only an insulating function, but also transmit the torques securely and permanently.

Reinhausen Power Composites has many years of experience in manufacturing of insulating tubes made from glass fiber-reinforced epoxy resin, which are simultaneously exposed to considerable electrical and mechanical stress, as well as in manufacturing of high-strength connections between GFRP parts and metal. Our Design department can support you upon request in the construction of shafts, using 3D CAD and electrical as well as mechanical FEM analysis.

