

Wind Turbine HydraJacs

HydraJac to ease hub bolt tightening procedures

Wind Turbine HydraJacs have been designed specifically with the requirements of wind turbine manufacturers and constructors in mind.

Two stage hydraulic power ensures that bolts are correctly loaded within the very tight restrictions of hub design.



Fast run down onto the exposed bolt is facilitated by a drive to adapt electric tooling.

Similarly, the standard nut is rotated quickly down by means of the gear drive. The gearbox housing is made from one piece and is therefore extremely rigid, guaranteeing positive seating and removal of nuts.

The units can be interconnected for speedy joint make up.



How does it work?

Using the simple formula **pressure x area = load**, hydraulic fluid is introduced into the Hydraulic Chambers to sufficient pressure to give the required bolt load.

This elongates the bolt, creating a gap between the nut and the joint face. This gap represents the bolt elongation and is taken up by screwing the gear drive to seat the nut on the hub face.

The pressure is released and a known load is now retained in the bolt.



Benefits:

* Fast

* Accurate

* Simple

* Safe



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