

GE Steam Turbine - 'Tops On: Tops Off'

Fast, reliable and repeatable system

The Closure System is a fast method for temporary assembly of a steam turbine casing for performing tops on: tops off checks.

Designed to suit the GE stud bolt sizes, thread forms and the spot face diameters, the Closure System is ideal for all 'A' and 'D' frame steam turbines.

The system is a complete package delivered to site and comprises purpose designed hydraulic nuts, a hose manifold arrangement, an air driven hydraulic pump and a selection of operational spares. It is flexible with additional components to ensure that all the equipment can locate and operate in difficult access locations.

The system also provides great time savings when compressing valve flange covers and when bolt tightening during the final turbine assembly.

System operation

A simple system to use, any number of hydraulic nuts can be located on existing stud bolts and screwed down into the spot face. A closed loop manifold connects all the hydraulic nuts to the air driven pump. When pressurised, the system quickly and simultaneously pressurises the hydraulic nuts, exerting a uniform and accurate force on the turbine casing to close the faces. The work is performed at ambient temperature thus providing a great time saving by eliminating the need for bolt heating or torque.

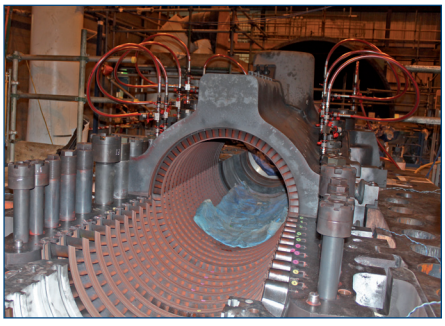
- Fast tops on: tops off
- Accurate and repeatable
- Even casing compression
- Designed for GE turbines
- A retrofit system
- No bolt heating
- Saves time during final turbine assembly
- Ideal for use on valve covers



Closure System Hydraulic Nuts



Air Driven Pump and Hoses



Closure System in use

BOLTIGHT
HYDRAULIC BOLT TENSIONING
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