

HYDRAULIC CLOSURE SYSTEM (HCS)



Boltights Hydraulic Closure System (HCS) is a fast and reliable method for the temporary closure of a steam turbine cylinder casing for clearance and distortion checks, or Tops On, Tops Off procedures during outages.

OPERATION:

A Hydraulic Closure System is a versatile and customisable kit which can be configured in a number of ways. Designed to suit a specific steam turbine, the hydraulic closure nuts are temporarily installed replacing existing top nuts typically on 50% of the casing fasteners. Nuts on the underside of the casing remain as standard.

A hydraulic hose / manifold arrangement is then used to connect all the hydraulic closure nuts to a pump.

When pressurised, the system simultaneously remove the bolts and exerts a controlled and uniform force on the turbine casings sufficient to close the casing flange face to allow clearance checks to be carried out during outages.

SPECIFICATION

- Hydraulic Closure Nuts
- Hydraulic Hose / manifold arrangement
- Air Driven Pump

BENEFITS

- Direct retrofit - no modifications needed.
- Suits all turbine geometries.
- No torque tightening or bolt heating needed.
- Considerable time saving.
- Large database for many OEM turbines held.



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