NORD-LOCK GROUP

CCGT MAINTENANCE UPGRADES

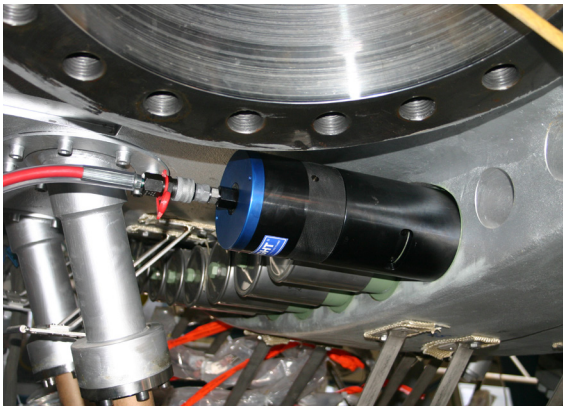
CRITICAL BOLTING SOLUTIONS FOR 7FA AND D11/D12

BOLTIGHT™ SUPERBOLT™

REDUCE CCGT MAINTENANCE COSTS – INCREASE AVAILABILITY

Bolting problems can extend gas and steam turbine outage programs dramatically

Nord-Lock Group bolting solutions are designed to assist in ensuring that your schedule is easily maintained.



CASINGS

Minimize times for accurate, damage-free bolting procedures

Boltight hydraulic bolting systems are available for either purchase or hire. These systems have been developed to maximize efficiency of bolting procedures, thus minimizing times required whilst guaranteeing that there will be no thread galling or spot face damage to casings.

Tops on / tops off steam turbine casing procedures can be carried out in just a few hours rather than the possible days required where bolt heating is used.

Whether gas or steam turbine casings, bolting procedures can now be accurately programmed without concern regarding bolt seizure problems.

VALVES

Hydraulic and Mechanical Bolt Tensioners

Applying direct tension to bolts means accurate bolt load with no possibility of thread galling. Bolting in confined space is easily achieved without heavy and cumbersome equipment, enhancing safety in the tightening of large diameter bolts.

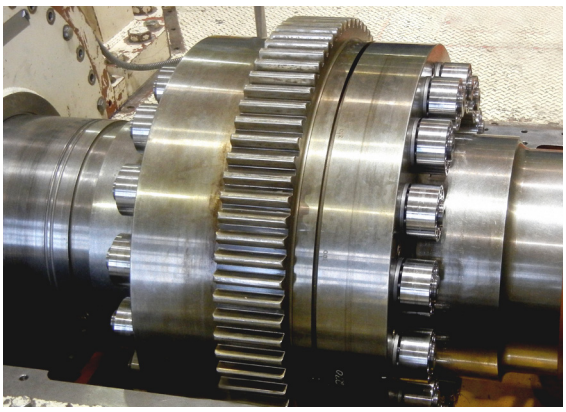
Ease of disassembly is assured, maintaining critical path schedules effortlessly.

ROTORS

Rotor disc compression using Hydraulic Bolt Tensioners

Boltight systems are installed at all major service centers for GE rotors. Flexibility is key, with a modular system ensuring best possible application suitability.

Nord-Lock Group experience can be utilized to provide bolting solutions for any critical bolting application, whatever the challenge may be.



COUPLINGS

Prevent coupling bolt/hole damage

With Superbolt EzFit Expansion Bolts, a conical bore sleeve is fitted onto a conical body bolt in clearance condition for the hole. The sleeve is held in place inside of the hole whilst the bolt is pulled through, thus expanding the sleeve into the hole to give a truly fitted bolt. By subsequent removal of the bolt from the sleeve, the sleeve retracts in diameter and the sleeve is again removed in clearance condition, preventing bolt and hole damage.

PUMPS/ANCILLARIES

Hydraulic or Mechanical bolt tensioning solutions for all critical bolting applications for CCGTs

Nord-Lock Group bolting experts are available to assist in relieving your bolting issues. With literally hundreds of years' experience in power generation applications, we are number one in being first for bolting solutions.

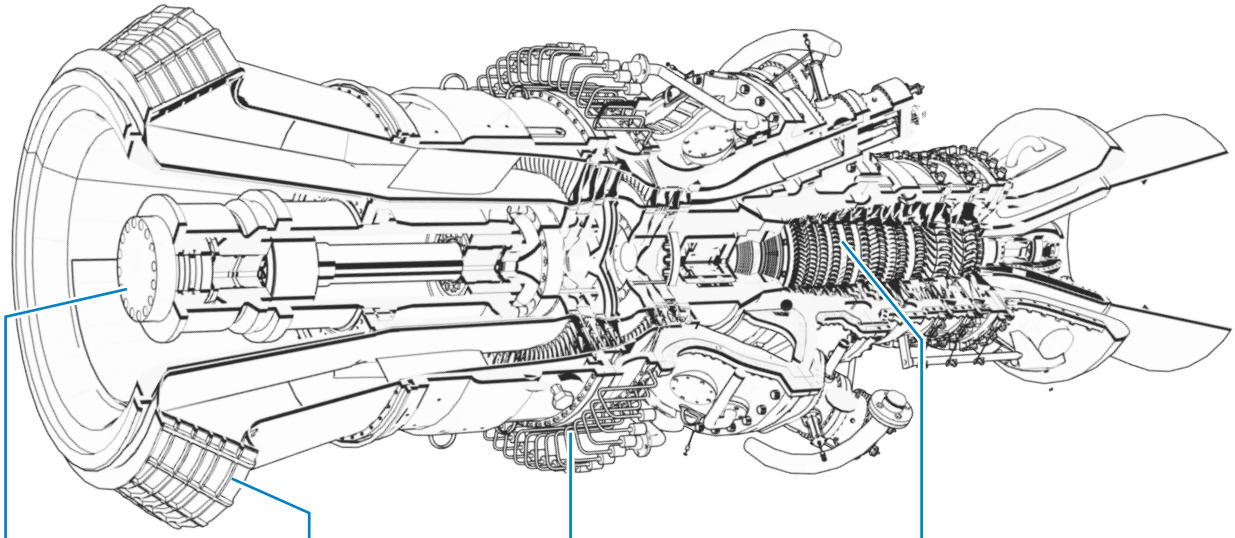
EZFIT

Superbolt Mechanical Expansion Bolts

The EzFit mechanical coupling bolt has been developed to be easily installed and removed using only simple hand tools. Specially designed captive jackbolt and split sleeve technology is used to provide greater expansion capability and reliable operation for gas turbines, steam turbines and ancillaries.

7FA – BENEFIT MAP

Carry out reliable, efficiently scheduled and safe bolting procedures with ease



Main Shaft - Mechanical Tensioners and EzFit Coupling Bolts

Nord-Lock Washers

Casing - Hydraulic Tensioners
Horizontal, vertical and body-bound

Compressor Rotor - Hydraulic Tensioner Kits

NORD-LOCK GROUP

The Nord-Lock Group is committed to providing cost-effective, practical, best-suited bolt securing systems.

#HAPPYENGINEERING #NORDLOCKFORLIFE

NORD-LOCK®

Creator of the original wedge-locking washer technology and global leader in industrial washer solutions.

SUPERBOLT™

Inventor of the patented Superbolt multi-jackbolt tensioners, designed to eliminate unsafe bolting methods.

BOLTIGHT™

Pioneer in innovative hydraulic bolt tensioning, specializing in extreme environments.

Expander®

Leader in pivot pin technology, on a mission to end lug wear on industrial sites everywhere.

Contact us at info@nord-lock.com or visit www.nord-lock.com

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