

HYTORC

The World's Most Trusted Industrial Bolting Systems

HYTORC provides solutions to the Power Generation industry, from Nuclear, Coal and Gas Turbines to Wind, Solar and Hydro, HYTORC bolting systems can provide the power generation with significant productivity enhancements by reducing job time, enhancing safety and improving overall job quality.

POWER GENERATION Industry Booklet



WHY HYTORC FOR POWER GENERATION

In the power generation business, every minute of downtime results in a loss of production and revenue. HYTORC has developed new bolting systems and fasteners that have proven to reduce maintenance times by as much as 50%. From gas, steam and wind turbines to solar farms and everything in between, our productivity enhancing bolting systems are a dependable way to get back on line faster.

RELIABILITY

- HYTORC is the oldest and largest company in our field
- Accredited by ASME* and OSHA* for bolting procedures and safety
- Worldwide 24/7/365 service by trained bolting experts
- The most experienced job oversight teams in the industry

INNOVATIONS

- HYTORC has invented every single major improvement in Torque and Tension since 1972
- The only technology in the industry that can reach the desired bolt load within 5% without requiring measurements
- The first torque wrench that can stretch bolts without side load, torsion, or bolt relaxation

*ASME and OSHA are registered and used with permission.

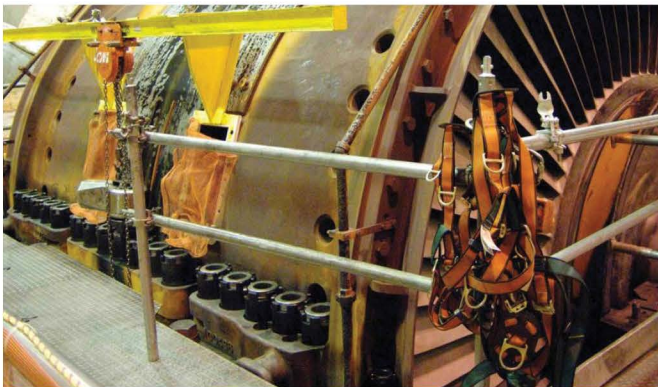
STEAM AND GAS TURBINES / APPLICATIONS AND CASE STUDIES

BLADE CARRIERS / EXHAUST DIFFUSER



- Precision cold stretch tensoning
- 100% to load in one bolt pass

COMPLETE LP TURBINE



- 82 Internal and external bolts:
- Previous method: 21 hours, 50 minutes
 - HYTORC method: 3 hours
 - **Time savings: Nearly 20 hours**

STEAM TURBINES



- Safe Bolting: Hands-free remote operation on horizontal, vertical and inverted applications.

LP STATIONARY BLADE RINGS



- (16) 2-1/2" - 8 bolts:
- Previous method: 5 hours, 45 minutes
 - HYTORC method: 30 minutes
 - **Time savings: Over 5 hours**

STEAM LINES / CROSS-OVER FLANGES



- (60) 2" bolts:
- Previous method: 5 hours
 - HYTORC method: 2 hours, 15 minutes
 - **Time savings: Nearly 3 hours**

THE HYTORC UNIVERSE IS MADE UP OF OVER
1,000 TRAINED BOLTING SPECIALISTS TO SUPPORT
YOUR BOLTING NEEDS IN OVER 100 COUNTRIES.

FROM CRITICAL PATH TO ON-TIME STARTUP



1. Survey

HYTORC will visit your site for a project evaluation.

2. Procedures and Solution

HYTORC will provide a custom solution for your project.

3. Hardware Inspection

HYTORC will inspect your tools for guaranteed performance.

4. Joint Preparation

HYTORC will help prepare your joints prior to beginning.

5. Installation

HYTORC will help install the proper tools for the job.

6. Startup Guarantee

HYTORC guarantees a seamless startup to your project.

There is no bolting challenge too big or too small. Reach out to us today and let us know how we can help improve your productivity through advancements in bolting.

hytorc.com/contact-us

POPULAR TOOLS OF CHOICE FOR POWER GENERATION



Torque Tools (Clockwise from top):
AVANTI® Hydraulic Torque Wrench
ICE® Hydraulic Torque Wrench
STEALTH® Hydraulic Torque Wrench
LITHIUM SERIES® II Electric Torque Tool



Hydraulic Pumps (Clockwise from top):
 JETPRO 18.3 SA
 VECTOR FA-DOC
 JETPRO S
 ATEX-Certified (optional, not shown)



Fasteners (Top to bottom):
 HYTORC Washer
 HYTORC Nut

TOOL AND EQUIPMENT RENTALS



HYTORC has the largest stock of rental equipment in the industry, available worldwide. Strategically located at service centers around the globe, our experienced representatives will work with you to determine the most cost-effective solution for your job. With over 50 years of experience in this industry, you can rest assured that we have a solution for your bolting challenge!

- 100% rental credit* towards purchase
- Rent only the equipment you need on a daily, weekly or monthly basis
- Complimentary safety and operational training with all rentals
- Worldwide availability of all bolting systems
- Improve safety, speed, and accuracy with custom tool kit rentals
- Tool containers for large jobs are available for monthly rentals
- All rental equipment is inspected and re-certified before its next rental

*All rental credits are available to use within six months after the rental.

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Headquarters:
 333 Route 17 N., Mahwah, NJ 07430
 +1-201-512-9500

Email:
 info@hytorc.com

Phone:
 1-800-FOR-HYTORC

Online:
 hytorc.com