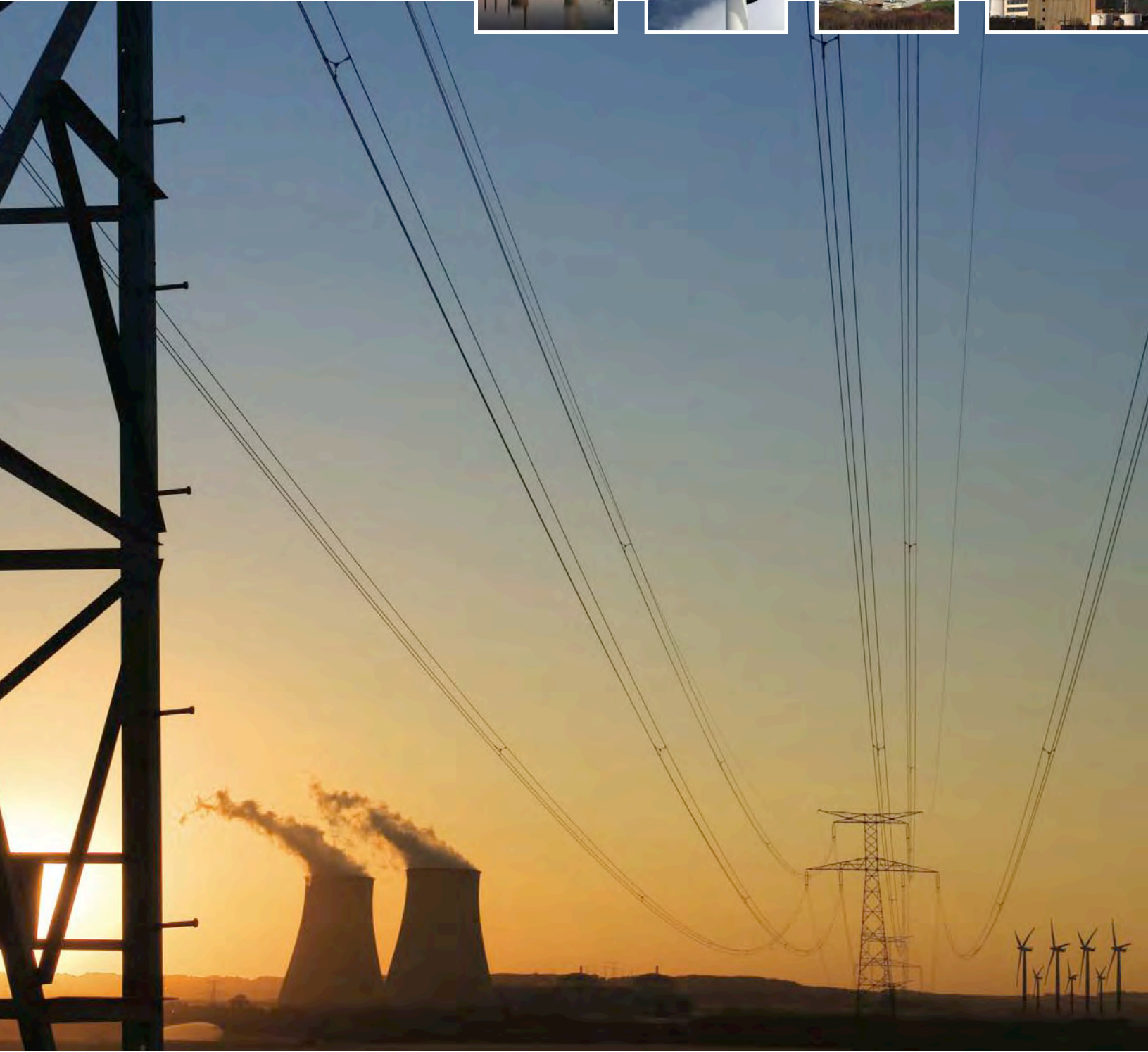
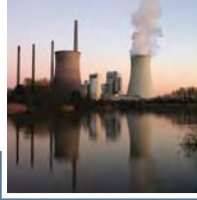


# hydratight®

## POWER GENERATION



# One Company – Meeting Stringent Standards

Hydratight is the market leader in the supply of joint closure systems for diverse applications in the Power Generation industry.

Over many years Hydratight has provided, as its core business, world class bolted joint solutions and continues to set international standards in joint integrity for its customers on a global scale.

Hydratight works in partnership with the world's leading OEMs using the latest computer technology and market leading development facilities. We continue to push back the boundaries of technology to provide fast, accurate and reliable solutions to critical assembly problems.

Our people are the key to our success: qualified, competent and innovative – working closely with our customers ensures a total understanding of their requirements.

State of the art design capabilities, combined with in-house manufacture in four locations on two continents, provide innovative solutions to any bolting application.

## One Company – Meets Standards

Totally committed to safety and quality, all Hydratight products and services are designed, manufactured and carried out within a management system in accordance with ISO 9001:2008 (quality management); ISO 14001:2004 (environmental management); OHSAS 18001:2007 (occupational health and safety)

Our extensive engineering services include:

- Torque and tension bolting equipment
- Portable machining equipment
- Product sales, rental and technical support
- Product service and training



# What Makes Us Different

## One Company – A Multitude of Solutions

Hydratight plays a leading role within the complex and changing world of power generation, providing innovative and unique services to improve cost effectiveness in this competitive industry.



### Innovative Engineering with Proven Results

Eliminating risk and saving time - our range of specialized equipment and technical support will not only save you time and money, but also improve safety and help increase reliability of your plant or turbine.



#### Tension

- Pioneer in the design and implementation of tensioning equipment
- Full range of safe and accurate tooling
- Time saving technology that is easy to handle and operate
- Flexible tensioning operations
- Maximum economy over any given size range
- Multi-stud flange and rotor stacking tensioning systems
- Durable and reliable designs



#### Torque

- Recognized leader in torque engineering design
- Versatile and compact
- Tough stainless steel, most coming with a three year warranty
- Convertible from square drive to hex wrench
- Easy onsite maintenance
- High power-to-weight ratio
- Universal, plate and reaction arm style torque multipliers



#### Service

- Unsurpassed quality supplied from our global service network
- 'Right first time' philosophy
- Culture devoted to safety
- Comprehensive range of services tailored to customer needs
- Innovative value driven service solutions
- International standards delivered locally

#### On-Site Machining and Heat Treating

- Hydratight's DL Ricci division offers a world leading product line
- Experience in all nuclear power plant applications
- Patented, innovative and portable machine tool designs
- Portable pipe cutting and beveling
- Onsite boring bars, milling, grinding and end prepping
- In-place heat treating specialists



# Nuclear Power Generation

The complex and demanding nature of the commercial nuclear power generation market sets exacting standards for bolted joint integrity. Hydratight's world leading engineering ability has been providing innovative solutions to nuclear contractors and utilities for more than 30 years, helping them to achieve their ALARA objectives.



## Tensioners

Proven hydraulic tooling and techniques ensures that Hydratight will meet your stringent maintenance and build requirements of reduced time, increased safety and improved reliability.

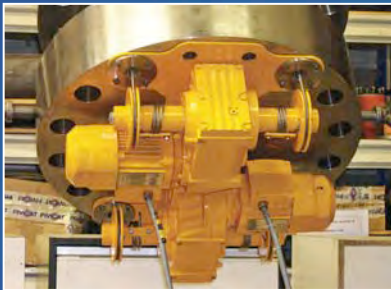
## Multi-Stud Tensioners for Nuclear Plants

This purpose built Multi-Stud Tensioner from Hydratight ensures safe, efficient, accurate and simultaneous tensioning, to meet critical stud loads and cycle time.



MST systems are the fastest and most accurate means of loosening and tightening the studs on primary and secondary manway covers, hand-holes and inspection ports. 100% coverage allows all the studs to be tensioned simultaneously.

And the lightweight, flexible design meets the needs of this critical path application demanded by industry. The MST reduces bolting time by as much as 75% and allows users to incorporate DTI or ultrasonic load measurement for load verification.



## Applications:

- Steam generator manway covers
- Steam generator hand holes
- Steam generator inspection ports
- Pressurized manways

## Mechanical Handling Systems

The Manway Lifting System offers safe, efficient and effective manipulation, plus minimum tooling in containment, helping to achieve ALARA objectives.

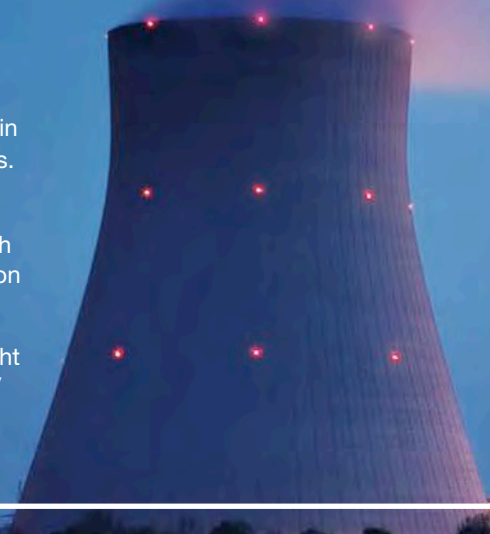


## Hydraulic Torque Wrenches

Safe, reliable and powerful torque tooling with high power-to-weight ratio to suit any bolting application

## Hydraulic Coupling Bolts

This hydraulic coupling bolt system from Hydratight ensures reliable operation and reduced assembly/disassembly times.



Hydratight through their DL Ricci brand, has also been a critical supplier of on-site machining equipment and nuclear qualified technicians for a variety of nuclear machining projects.



#### **Pipe Cutting and Beveling**

Hydratight's DL Ricci range of portable machining tools are ideal for on-site pipe cutting, beveling, boring, flange facing, and milling.

#### **On-Site Heat Treating**

Hydratight's DL Ricci division offers state-of-the-art portable resistance or induction heat treating equipment along with fully qualified technicians.

#### **On-Site Machining for Power Plants**

Hydratight offers an extensive range of on-site machining equipment which is designed, manufactured and supported completely in-house. This range of tooling includes portable clamshells with flange facing attachments, valve repair and pipe replacement machining tools, and onsite align boring bars.



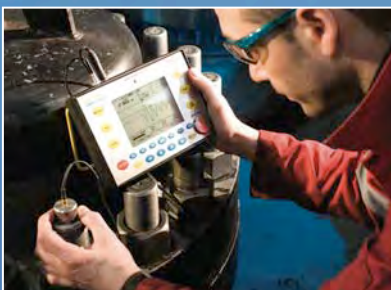
Supporting the finest tooling on the market is a skilled workforce of highly trained and experienced operators.

#### **Applications:**

- Valve and pump maintenance
- Heat exchanger maintenance
- Steam piping replacements
- Pump and motor base machining
- Nut-splitting and stud removal
- Journal turning, shaft repair and tire grinding

#### **Load Measurement**

The Bolt-Scope II™ ultrasonically measures the stress developed in fasteners to ensure accurate loading.



# Gas Turbines

Hydratight addresses the bolted joint needs of the power industry as a partner to Original Equipment Manufacturers (OEMs).

When it comes to joint integrity for applications within a power plant or at the OEMs' various manufacturing facilities, no other company in the world has the range of technology, experience and expertise.



### Rotor Stacking Tensioners

Rotor stack assemblies are fully tensioned utilizing MSTs or ring-mounted systems to OEM design requirements. Tension is accomplished safely, efficiently and effectively.

### Turbine Casing Tensioners

Hydratight has developed a complete range of stud tensioners ensuring accuracy, safety, reliability and speed.

### Hydraulic Torque Wrenches

Site proven hydraulic torque wrenches can be easily converted from a standard square drive to a low profile hex wrench design for limited or restricted access applications.



### Customized Shutdown Kits for Gas Turbines

Used by major OEM's and service companies for manufacturing and maintenance operations, Hydratight's customized tooling for both torqued and tensioned joints will improve speed and safety for all workers.

Each kit is customized for each turbine design and is supplied with all necessary accessories. The tooling kits are available for purchase or rental. Tested kits can be supplied for: 7FA, 9FA, 501F, 501G, N11, GT24, GT26, M501G and many more.

### Applications:

- Gas turbine casings
- Valves and piping
- Couplings
- Generator alignment



## Wind Energy

Hydratight consistently supply quality products that have been specifically designed to meet the requirements of the Wind Energy market.

Hydratight assist wind turbine manufacturers and contractors to meet the delivery demands placed upon them, by reducing bolting times and achieving accurate bolt loads, first time.

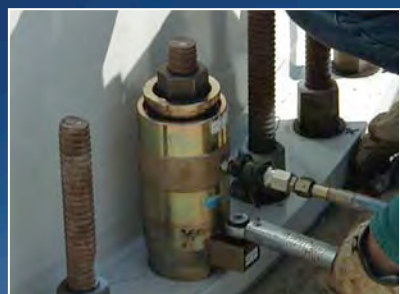


### Micro Tensioners

Hydratight has developed a specialized range of hydraulic bolt tensioners to solve even the wind energy industry's most critical bolting problems.

### Base Bolt Tensioners

Hydratight's range of long stroke, fast acting and spring return base bolt tensioners provide the quickest and easiest solution for most foundation designs.



### Torque Systems

Hydratight provides a comprehensive range of hydraulic torque wrenches and torque multipliers, ideal when working on a variety of nut sizes on one or more applications, including tower sections.

### Electric Pumps

A range of high pressure electric pumps has been developed by Hydratight to meet the rigorous and demanding needs of the high volume assembly associated with the wind energy market.



### Bolting Systems for Wind Turbines

Whatever the problem or application, Hydratight has a safe, simple and accurate bolting solution. With Hydratight's specifically designed range of tension, torque, hydraulic and load measuring equipment, supported by experienced technical engineers, you can be confident that we will provide the perfect solution for all of your wind turbine applications.

#### Applications:

- Hub bearing
- Base bolting
- Blade to bearings
- Tower sections



# hydratight®

*Global Standards Local Delivery*

Our global network means you can rely on the right people, products and services wherever you are in the world.

Email us at: [solutions@hydratight.com](mailto:solutions@hydratight.com)

Or find your local representative at:

[hydratight.com/contact](http://hydratight.com/contact)

