

**hydratight**



**HYDRATIGHT**  
**SERVICE SOLUTIONS**  
Right First Time. Safe Every Time



## ABOUT HYDRATIGHT

Hydratight provides specialist mechanical services focused on integrity assurance and leak prevention for critical assets. With decades of experience and a global service footprint, we support construction, commissioning, decommissioning, maintenance, shutdowns, and turnarounds across major industrial regions worldwide. Delivered through disciplined processes and highly trained teams, our services ensure safe, consistent execution. Every job is completed right first time, without compromise.

## GLOBAL PRESENCE

Hydratight delivers specialist mechanical services through an established global network, supporting customers across major industrial regions worldwide.

Americas | Europe | Middle East | Africa | Asia Pacific

## OUR COMMITMENT

- > Technical Authority
- > Safety, Quality, and Productivity
- > Proven Workforce Competency



# Our Services

Hydratight provides specialty mechanical services focused on integrity assurance and leak prevention. Our services support customers across the full asset lifecycle, including construction, commissioning, decommissioning, maintenance, shutdowns, and turnarounds, helping ensure safe and reliable operations.

## Integrity Assurance

A proven approach to preventing leaks, helping keep plant turnaround projects on schedule and on budget.

## Controlled Bolting

Flange joints assembled right the first time. A hassle-free outsourced service to help keep your plant operating.

## On-Site Machining

Highly skilled technicians working in situ to minimize plant downtime and reduce costs. Workshop-level tolerances achieved on site.

## Training Courses

A wide range of instructor-led, online, and blended learning courses delivered worldwide by the Hydratight Academy, a leading integrity assurance training provider.

## Online Services

Leak repairs completed while facilities remain online, with no downtime or loss to production.

## Process Pipeline Services

An extensive range of pipeline services for cleaning, testing, and verification, delivered by highly skilled technicians.



## Controlled Bolting Services

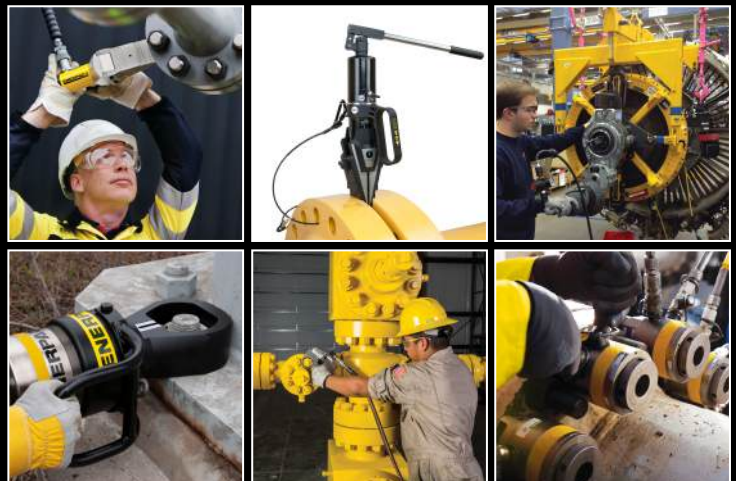
Hydratight delivers specialist controlled bolting services using hydraulic torquing and tensioning to achieve accurate bolt load and reliable, leak-free joint assembly.

- **Hand Torquing:** Accurate tightening of smaller bolts using calibrated hand torque wrenches operated by trained personnel.
- **Hydraulic, Pneumatic, and Electric Bolting:** Controlled bolting using the most appropriate torque tools for the workplace.
- **Hydraulic Bolt Tensioning:** Bolt load applied by stretching the bolt axially, allowing nut rotation with minimal torque.
- **Flange Alignment:** Correction of misaligned flanges to enable safe and efficient bolted joint assembly.
- **Nut Splitting:** Safe removal of seized or damaged nuts using hydraulic nut splitting methods.
- **Flange Spreading and Pulling:** Controlled separation and alignment of flanges during construction and shutdown activities.



### Benefits of Controlled Bolting with Hydratight

- ✓ Right first time assembly
- ✓ Hassle-free outsourced service
- ✓ Highly trained engineers
- ✓ Consistent quality control
- ✓ Improved site safety



# Integrity Assurance

Leaks cause unplanned shutdowns and increase risk. Integrity assurance ensures bolted joints are correctly assembled and tightened, improving safety and reducing time and cost.

## Elements of Integrity Assurance

- > Gap analysis
- > Procedure development
- > Engineering support
- > Flange management software
- > Joint integrity inspectors
- > Training and compliance management
- > Field service technicians
- > Bolt load calculations
- > Joint integrity engineers
- > Bolt load verification and assurance
- > Equipment modification and design engineering

## Benefits

- > A proven approach to preventing leaks
- > Plant turnaround projects kept on schedule and on budget
- > Risks identified before they become problems
- > Reduced rework and multiple tests
- > Improved site safety through right first time joint assembly
- > Industry-proven and trusted quality control and assurance
- > Programs customized to suit your operations
- > Weld-equivalent quality control for bolted joints



## Included in the Hydratight Integrity Assurance Program



Project Planning & Project Management



Evaluation of Processes and Procedures



Inspectors to Verify Work is to Standard



Fully Trained and Competent Engineers



iDMS Flange Management Software



Ultrasonic Bolt Load Measurement



Turnaround Management



Identification of Training Needs

## On-Site Machining Services

Hydratight on-site machining services deliver the capabilities of a fully equipped machine shop directly at site. Services support new plant construction, planned shutdowns, and emergency repairs, eliminating the need for dismantling and transportation while minimizing downtime and cost.

- **Flange Facing:** Restoration of flange sealing surfaces using on-site machining to achieve the required finish and flatness.
- **Line Boring:** Accurate alignment of bores using in-situ boring equipment to restore correct geometry and fit.
- **In-Situ CNC Milling (geniSYS):** Precision milling and stud removal performed using Hydratight's in-house developed geniSYS CNC system.
- **Pipe Cutting and Beveling:** Controlled pipe cutting and beveling carried out on site using clamshell cutting equipment.
- **In-Situ Drilling and Tapping:** On-site drilling, tapping, and stud removal using portable machining equipment.
- **Electrical Discharge Machining (EDM):** Precision material removal using electrical discharge machining where conventional methods are not suitable.
- **In-Situ Surface Milling:** Two-axis and three-axis surface milling performed on site to restore flatness and accuracy.
- **Heat Treatment:** In-situ heat treatment applied to improve material properties and machinability.
- **Metrology:** Dimensional measurement and verification of critical components and assemblies to ensure strict tolerance requirements are met.

### Benefits

- ✓ No disassembly or transportation required
- ✓ Workshop tolerances achieved on site
- ✓ Faster return to operation
- ✓ Extensive fleet of advanced machining tools
- ✓ Solutions for construction, shutdowns, and repairs
- ✓ Capability for projects of all sizes
- ✓ Rapid response support
- ✓ Highly trained and trusted teams



# Online Services

Hydratight Online Services deliver repairs, testing, and modifications while facilities remain in operation. Using specialist techniques and proven safety processes, critical work can be carried out without interrupting production or shutting down large sections of the plant.

## Leak sealing

Sealing leaking components safely and effectively without the need for production downtime.

## Hot bolting

Removal or replacement of bolts on pressurised flanged joints using Hydratight's Morsafe™ hot bolting clamps.

## Hot tapping and cold tapping

Creating new connections to existing piping or pressure vessels without depressurizing or draining the system.

## Valve testing

On-site testing, repair, calibration, overhaul, and certification of general and pressure relief valves using mobile units.

## Weld test and isolation

Localized pressure testing of piping using in-line weld testing and isolation techniques.

## MorSeal pipe clamp

Deployment of MORSEAL pipe clamp solutions to repair leaking subsea and topside pipework and maintain asset integrity.

## Composite repair

Permanent repair of corroded, damaged, or leaking pipework using composite wrapping systems.

## Pipe freezing

Isolation of piping sections by creating a frozen plug to allow safe maintenance without system shutdown.

## Benefits

- ✓ Repairs with no downtime
- ✓ Sustained manufacturing efficiency
- ✓ Highly skilled, certified technicians
- ✓ Multi-industry service capability
- ✓ Proven leak-free track record
- ✓ Risk-assessed service delivery
- ✓ TÜV-certified products used



## Pipeline and Process Services

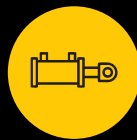
Hydratight Pipeline and Process Services deliver effective cleaning and testing solutions for complex process systems. Using an extensive range of specialist methods, our highly skilled technicians support cleaning, testing, and integrity requirements across pipeline and process applications.

- > **Chemical cleaning:** Removal of corrosion, scale, sludge, and deposits using controlled chemical cleaning processes.
- > **Lube oil flushing:** Flushing of lubrication systems to remove contamination and achieve required cleanliness levels.
- > **Steam blowing:** High-energy steam blowing of piping systems to remove debris prior to commissioning.
- > **Air blowing:** Engineered air blowing to remove construction debris, moisture, and loose material from systems.
- > **Water flushing:** High-velocity water flushing to remove construction debris, loose rust, and contaminants.
- > **Hydro-jetting:** High-pressure water jetting for removal of rust, biofilm, limescale, and coatings.

### Testing Services



Hydrostatic testing



Pneumatic testing



Nitrogen purging and inerting



Nitrogen leak testing and helium leak testing

### Benefits

Complete service range

Minimized maintenance downtime

Multiple cleaning method options

Safe contaminant removal

Proven leak-free track record

Maintenance-ready environments

Contained waste capture

# Supporting Our Services

## Training Services

Hydratight training services support the safe, consistent execution of all Hydratight service solutions. Delivered through industry-leading integrity assurance programs, training strengthens workforce competence and compliance across critical operations.

### The benefits of training with Hydratight

- ☉ ECITB accredited training provider
- ☉ ASME PCC-1 Appendix A qualified
- ☉ ECITB-approved blended learning
- ☉ Global training delivery capability
- ☉ Award-recognized training excellence
- ☉ Integrity assurance subject matter experts
- ☉ Flexible learning delivery options

### Hydratight training courses



Hydratight Academy



ECITB



ASME PCC-1



EN1591-4



eLearning



### Training delivery options

- ☉ Instructor-led classroom and practical training
- ☉ Online learning through Hydratight eLearning
- ☉ Blended learning combining online and instructor-led formats

# Hydratight Tool Rentals

Hydratight rentals provide fast, flexible access to specialist tools required for critical maintenance, shutdowns, and project work. By removing the need for large capital investment, our rental services help projects mobilise quickly while maintaining safe, efficient execution. Delivered on demand, Hydratight rentals support on-schedule delivery without compromising operational safety.

## Why Hydratight rentals

- ☑ Extensive inventory ready for critical projects
- ☑ Specialist support to help select the right tools
- ☑ Flexible access without capital investment
- ☑ Tools inspected, maintained, and compliant with industry standards

**Get in touch to discuss your project or  
service support requirements**



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