

The Answer for engineered solutions in offshore mooring and riser pull-in applications



A MEMBER OF TIMBERLAND GROUP

**OFFSHORE
MARINE
TECHNOLOGY**

ENGINEERING
MANUFACTURING
PROJECT MANAGEMENT
SEAMLESS DELIVERY
FIELD SERVICE

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EQUIPMENT
LIMITED**

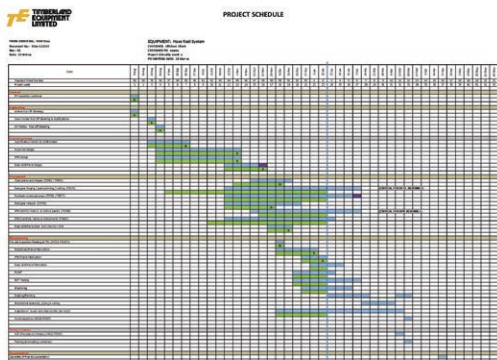
COMPLETE ENGINEERED SOLUTIONS UNDER ONE

Building on 60 years of lifting and tensioning experience, Timberland Equipment has emerged as a leading force in the design and delivery of critical components and turnkey systems for offshore mooring and riser pull-in applications.



Seamless Delivery

Timberland engineering and manufacturing bring together all the expertise you need working together under one roof to develop, deliver and support your engineered solutions. Our end-to-end view of customer projects, from design concept to lifelong support, allows direct accountability and clear communications to ensure the success of your project.



Project Management

Through Timberland's vast experience of managing decades of different projects from concept to final installation, we have the resources, and know-how to keep jobs flowing smoothly and efficiently.

Engineering

More than 20 highly qualified engineers and senior sales consultants give Timberland the scope of capabilities to take on the full range of design and application challenges in-house.

- Mechanical design
- Electrical engineering
- Hydraulic design
- PLC and controls

Professional Engineers (P.Eng.) on our senior executive team and management group maintain a professional focus and culture that sets the pace for every facet of the company.



The Highest Standards

- Timberland is committed to quality, design and engineering to the highest standards in the industry. Our commitment to quality is mirrored by Timberland's long standing discipline in ensuring job safety with no lost time.



ROOF

**Time Sensitive
Cost Conscious
Performance
Driven**



Manufacturing

Timberland's production facility is located adjacent to our sales, purchasing, engineering, project management and quality control teams to ensure close continuous communication.

- Sawing
- Flame cutting
- Braking
- Machining
- Welding
- Shot blasting
- Painting
- Final assembly
- Load testing

Field service

Customers on every continent trust Timberland for:

- Technical Assistance
- Equipment Installation
- Breakdown Support
- Equipment Systems and Operation Training
- General Maintenance and Repairs
- Recommended Spare Parts Lists
- Warranty Repair
- Genuine OEM Spare and Replacement Parts
- Engineering Support

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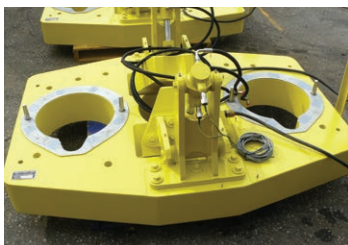


MOORING SOLUTIONS



Chain Jacks

Fixed or moveable, pull-style and push-style chain jacks to match the project chain size and required tensioning load with speeds up to 2.5 m/min.



Chain Stoppers

Stoppers are designed and engineered to handle the full MBL of the mooring system's project chain, with integral load monitoring and overboarding chutes available on request.

Mooring Winches

Packages including chain winches, wire rope winches and synthetic traction and drum winches, all engineered for varied offshore mooring specifications.



Underwater Fairleads

Underwater fairleads (UWF) and underwater fairlead chain stoppers (UFCS) designed to suit the chains and hull spacing of the specific vessel. Our UFCS features a single flapper style stopper designed to reduce out-of-plane bending.



Engineered turnkey mooring systems, riser winches, fairleads and chainjacks have made Timberland a premier partner in the development of offshore vessels and platforms operating worldwide.



Semi-Submersible



Riser Pull-in Equipment

RISER SOLUTIONS



Riser Pull-In Drum Winches

Custom engineered and manufactured riser pull-in drum winches for both wire and synthetic rope applications. Grooving and spooling devices are used to suit each given application.



Riser Pull-In Traction Winches

Traction Winches designed for both wire and synthetic rope applications for riser pull-in and deep water lowering applications with active heave compensation.

Trolley Systems

Trolley and Gantry systems to facilitate the moving of winches, sheaves, and HPU's along the vessel or around a turret.



Deflector Sheaves

Standard vertical, horizontal and flagging sheave assemblies and custom sheave packages tailored to specific offshore mooring and riser pull-in applications.



ANCILLARY OFFSHORE SOLUTIONS

Timberland has delivered complete offshore mooring projects for oil & gas sites worldwide. Our components and systems equip all types of exploration and production vessels.

Our unique ability to design and produce complete mooring systems under one roof allows us to ensure timely delivery of custom assemblies in step with the shipyard's production schedule.



Linear Winches

Custom engineered and manufactured for large loads and when height restrictions are a concern. These can be designed for continuous motion or intermittent pull.



Hose Reels & Hawser Systems

Design and fabrication of hose reel systems for all offshore applications from fuel transfer through hose reels at low pressure (20 Bar) to high pressure well stimulation up to 1000 Bar.

Control Systems

Control systems are designed for both mooring and riser pull-in systems. These systems can be designed for safe and hazardous zones.



Cranes

Marine cranes to meet customer and certifying authority requirements. These cranes vary in style and are sized from 5 to 100 Te.



Hydraulic Power Units

Custom power packs, designed and manufactured in house. The HPU's are capable of meeting all the various offshore environments.



A-Frames

Custom A-Frame packages for launch and recovery systems, offloading hose systems, or designed to desired specifications.

PROJECT PORTFOLIO

Timberland Equipment has delivered Riser Pull-in systems for a wide variety of offshore oil & gas vessels globally. These systems range from a custom winch package for turret providers to complex turnkey trolley pull-in systems for the FPSO vessels.

Timberland is trusted for its integration of design, engineering and fabrication of complex systems, all completed under one roof for maximum reliability, efficiency and risk management.



FPSO Spread mooring system Franco 1 field, Santos basin, Brazil

- 4 x 120 mm Movable Push Chain Jacks
- 24 x 120 mm Chain stoppers
- 24 x 120 mm UWF
- 4 x Movable gantry system c/w locker
- 2 x HPU
- Controls Package



FPSO Turret mooring system Terra Nova field, Newfoundland, Canada

- 1200 TE Chain Jack (178 mm chain)
- 100 Te Traction Winch
- 600 hp HPU



Spar mooring system Mississippi Canyon, Gulf of Mexico, USA

9 Point Mooring System:

- Chain Jacks
- Underwater Fairleads
- HPU



Semi-submersible mooring system Roncador field, Campos Basin, Brazil

Fixed chain jacks in a pull style configuration complete with underwater fairleads.

- 16 x 600 TE Chain Jacks (120 mm chain)
- 16 x Underwater Fairleads,
- 16 x Turn Down Sheaves
- 4 x 750 hp HPU's
- 4 x Control Cabins

THE ANSWER IS TIMBERLAND

Timberland Equipment has been designing and manufacturing specialized material handling equipment for the construction, resource and energy sectors since 1947.

Since our earliest days, Timberland built its success on equipment that customers can rely on to perform every day in the most critical applications and in the most remote regions.

ENGINEERING CONFIDENCE WORLDWIDE

Timberland Equipment is a member of The Timberland Group, serving a worldwide base of customers with engineered solutions to many of today's most challenging projects in lifting, pulling, conveying and tensioning applications

- Offshore oil & gas projects
- Underground mining
- Heavy construction
- Electrical power transmission and distribution
- Marine & fishing industries

With production and service facilities totaling over 180,000 sq. ft. on 55 acres, we employ more than 300 people internationally. Our "solutions" focus is reflected in the large number of professional engineers who take leadership roles in all our operations.



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