DYNACON specializes in the custom design and manufacture of winches and handling systems for all offshore applications.

DYNACON specializes in the custom design and manufacture of winches and handling systems ranging from D.C. electric drive drum winches for oceanographic applications to electro-hydraulic and diesel-hydraulic traction winch systems with motion compensated cranes for deep-water operations. DYNACON’s Launch and Recovery Systems (LARS) have been used for the deployment and retrieval of remotely operated vehicles (ROVs), towed bodies, oceanographic instrumentation, autonomous underwater vehicles (AUVs) and other payloads since 1986. These systems are used around the globe for launch and recovery missions. All of our LARS systems can be modified to suit a variety of ROV launch and recovery specifications for our clients.

With our specialized facility, all aspects of the production process including in-house design, engineering, fabrication, assembly and testing are accomplished at our Bryan, Texas facility.

DYNACON winches and handling systems can be designed and built to meet certification requirements of the American Bureau of Shipping (ABS), Det Norske Veritas (DNV), Lloyd's Registry of Shipping, the U.S. Coast Guard, or other certifying agencies.

DYNACON Capabilities

Our primary goal is to understand the specific requirements of our customers’ project. This ensures the final product is a solution that fits our customers needs. All aspects of the production from concept to final testing are performed onsite at DYNACON.

DYNACON has extensive experience in the design and manufacture of winches and Launch and Recovery Systems. Using this extensive experience, combined with sound engineering practices and quality personnel, uniquely positions DYNACON to deliver exceptional products.
DYNACON Launch and Recovery Systems (LARS)

At DYNACON, we have been meeting and exceeding our customer's needs since 1986. Our complete understanding of what our customers need in a product, means we can provide solutions and make design recommendations to best achieve those goals.

The DYNACON product range includes all components required for launch and recovery operations. This includes winches, A-Frames, power units and hanging sheaves. We also offer specialized equipment including heave compensation systems. Training, installation support and after sale support for all equipment are available or all customers for the life of the equipment.

DYNACON's systems are designed and built for the harsh marine environment. The structural designs are manufactured and tested accordance with the most rigorous published standards. Electrical and hydraulic systems are efficient to use and incorporate safety interlocks to protect operators and equipment. All components utilize proper corrosion protection techniques to provide long service life while minimizing routine maintenance.

The DYNACON Launch and Recovery Systems have an exceptional track record for safe and efficient operation. Our unique, proven equipment can increase your operational efficiency and minimize your installation and operating costs.
DYNACON Products

ROV Winch Systems
DYNACON offers Remotely Operated Vehicles (ROV) winch systems that work up to a depth of 4,000 meters. All ROV winch systems are custom engineered to suit our customer’s specifications. Typical options include various levelwind configurations, horsepower ratings, hazardous area ratings and controls. We have the ability to custom design a solution to fit your specific needs.

Oceanographic Winches
DYNACON has a number of standard designs for electric, hydraulic and electro-hydraulic winch systems designed for coring, Conductivity Temperature and Depth (CTD), side scan sonar and similar applications. Variations of these standard designs, as well as unique designs, are routinely built.

Numerous DYNACON systems have been provided to universities, military and commercial customers worldwide.

Traction Winches
DYNACON specializes in ultra deep-water traction winch systems. These systems are used in conjunction with deep-tow sonar, sub-bottom profiling, towed camera sleds and deep-water search and salvage operations. The winch systems are available in a variety of configurations to suit the intended purpose of our customers.

418 Electric Oceanographic Winch
2 Horsepower
350 lbs. safe working load

421 ROV Winch System
3,000 Meter
Medium Duty ROV Winch

421 D2 ROV Lift Winch
2,500 Meter
Medium Duty ROV Winch

10030 Cantilever Winch
30 Horsepower
1,850 lbs. safe working load

CTD Traction Winch System
60 to 100 horsepower
4,000 lbs. to 9,200 lbs. safe working load

766 Deep Tow Traction Winch System
200 horsepower
20,000 lbs. safe working load

12030 Cantilever Winch
30 horsepower
3,700 lbs. safe working load

Deep Tow Traction Winch System
200 horsepower
30,000 lbs. safe working load
A-Frames

DYNACON offers many types of A-Frames for numerous applications including Remotely Operated Vehicles, towed systems and IWOCS support. All A-Frames can be custom engineered to your specific application.

Our line of self-erecting A-Frames enables safe and rapid installation on the vessel.
Telescoping Launch & Recovery Systems
The DYNACON Telescoping A-Frames are versatile systems with the ability to operate with many types of packages. The Telescoping A-Frames for ROV systems allows the ROV, TMS and work package to unstack so maintenance can be performed at the deck level.

Telescoping Launch & Recovery System 7021
10 tonnes luffing rating
20 tonnes overboard rating

Telescoping Launch & Recovery System 1015
13.5 tonnes luffing rating
22 tonnes overboard rating

Heave Compensation Systems
DYNACON manufactures Heave Compensation Systems to eliminate vessel motion from impacting the deployed package. We offer three types of heave compensation control systems. Passive heave compensation includes manually adjusted controls. Auto-passive heave compensation includes a monitoring package and control system that optimizes its performance. The active over passive adds an electro hydraulic power unit that actively supplements the auto passive system.

CTD Motion Compensation Crane 1075
3,400 kg safe working load
+/- 1.25 meters of vertical compensation range
5.5 meters overboard reach

CTD Motion Compensation Crane 630
1,800 kg safe working load
+/- 1.25 meters of vertical compensation range
7.0 meters overboard reach

Flying Sheave Heave Compensator 1160
9,000 kg safe working load
+/- 2.75 meters of vertical compensation range
1.2 meter sheave tread diameter

Tuff Coat M Marine Lubrication Systems
DYNACON developed the Tuff Tool lubricator to inject Tuff Coat M lubricant into umbilicals and wire rope under tension. High pressure forces the lubricant to the inner core of the cable, which provides maximum protection from corrosion and wear. Regular applications of Tuff Coat will promote longevity of your cables.

Tuff Coat M Marine Lubrication Systems
Tuff Tool Lubricator installed on a wire rope

Tuff Coat M Lubricant
An ROV umbilical lubricated with Tuff Coat M

Flying Sheave Heave Compensator 501
9,000 kg safe working load
+/- 2.75 meters of vertical compensation range
1.2 meter sheave tread diameter

Flying Sheave Heave Compensator 1160
15,900 kg safe working load
+/- 3.5 meters of vertical compensation range
1.2 meter sheave tread diameter
Spooling Facility
The proper spooling of the cable onto the winch drum is critical to the successful operation of the winch system. DYNACON’s spooling facility and equipment ensure the proper fit and tension profile. We can provide spooling tensions up to 35,000 lbs. DYNACON also offers cable lubrication services during the spooling process.

Factory Acceptance Testing
All of DYNACON’s equipment is factory tested to all functional and performance specifications. In our unique testing facility our staff verifies each aspect of the test procedure to meet or exceed contract specifications. DYNACON offers its customers the opportunity to participate in the Factory Acceptance Testing.

Load Testing
DYNACON performs load testing on all new equipment. Engineering and testing can be reviewed and approved by third party certification agencies such as DNV, ABS or other client specific requirements. All certification records and supporting documentation are archived at our facility.

Overboarding Sheave Systems
DYNACON manufactures overboarding sheaves are designed with the highest standards in marine grade materials. All sheaves are built to custom order.

Overboard Sheave P19
1,500 kg safe working load
483 mm sheave tread diameter

Overboard Sheave 1101
20,000 kg safe working load
1,422 mm sheave tread diameter

Overboard Sheave 952
20,000 kg safe working load
1,219 mm sheave tread diameter

Overboard Sheave 1227
1,130 kg safe working load
711 mm sheave tread diameter
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