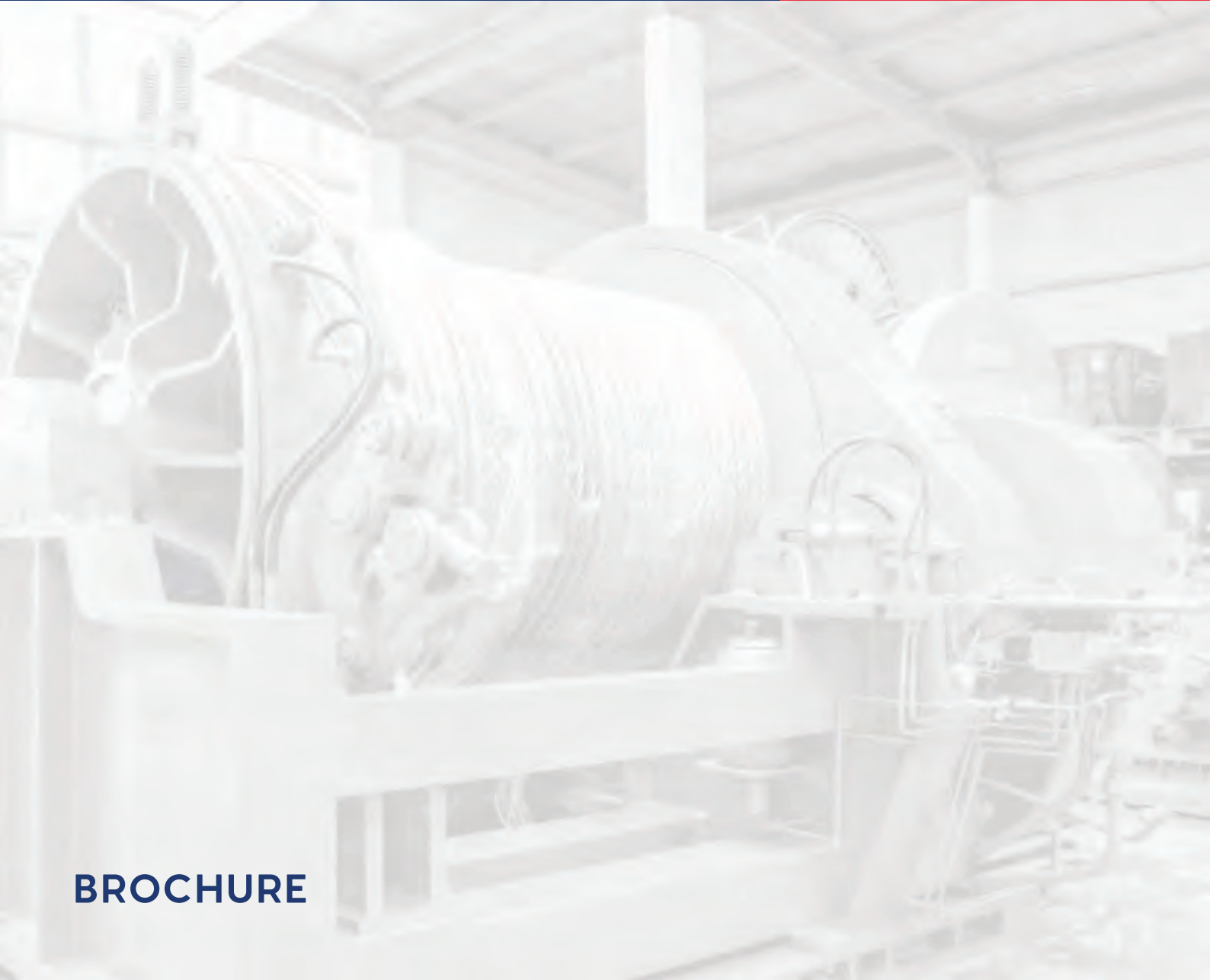




TRANSVICTORY

WINCH SYSTEM



BROCHURE

TRANSVICTORY

The Winch Company



TRANSVICTORY
WINCH SYSTEM

Transvictory Winch System and its affiliated companies are the leading manufacturers and suppliers of winches, cranes and hydraulic power units in Singapore. Founded in 1995, our motto is "available at all times", which made Transvictory renowned as the company with the largest fleet of winches in Asia.

Since inception, we had ventured into different continents in the world. The high standards passed down by our predecessors have made Transvictory who we are today. To maintain a zero-failure policy, we take quality and safety standards very seriously, and this is why we have a team of in-house engineers to support new developments and in-house testing.

Our three decades of industry experience and vast knowledge of product innovations have made us the preferred partner in winch systems. With an uncompromising spirit and an incredible determination to give our best support to our partners, we work toward our zero failure standard through stringent verifications and testing. Transvictory is continuing to innovate and upgrade our winches to better serve our clients and grow with the people who have been a part of our journey of transformation.

The company was acquired in 2016 by Union Steel Holdings Ltd and today operates as a fully-owned subsidiary within the SGX-listed Group.

OUR MISSION

To raise the bar for the industry through innovation, by harnessing the latest technology to create higher value for our customers and partners.

OUR VISION

Transvictory is fully committed to serve our clients to achieve their commercial and sustainability goals by maintaining a vast and ever-expanding array of stock inventory.



Transvictory is one of the
LARGEST STOCKIST
of Hydraulic Winches & HPU's
in Asia.

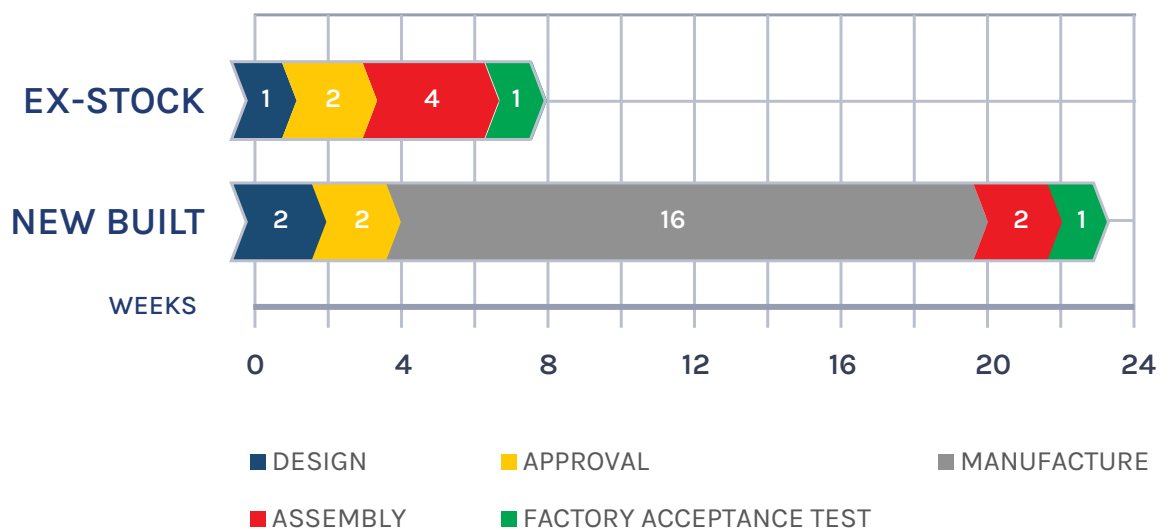


Transvictory is one of the biggest stockist and manufacturer of Hydraulic Winches and HPU's, with an array of equipment available for worldwide sale or leasing.

With a dedicated team, Transvictory is able to complement the needs of your project with our in-house value added services so as to provide a one-stop winning solution.

New
Built
vs
Ex
Stock

TIMELINE (WEEKS)



HYDRAULIC WINCHES



Branded Hydraulic Motor



Ratchet Pawl



Hydraulic Brakes & Clutch



Roller Bearing Housing

**TRANSVICTORY
WINCH
COMPONENTS**



I-beam Foundation Base Plate



Auto Spool With Manual De-Clutch



Electrical Remote Control



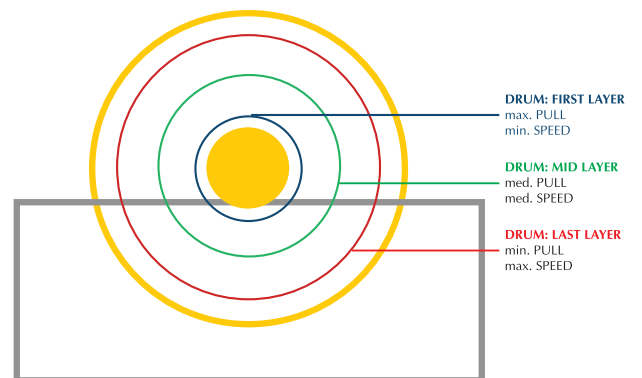
European Controller Joysticks

We manufacture and supply hydraulic winches for offshore, marine, port, construction, shipyard & mining industries.

Our wide range of winches include:

- Up to 450 Ton rated PULL
- Single drum configuration
- Double drum in "Waterfall" or "Series" configuration
- Anchor Handling/Towing winch
- Multi-drum combination winch with windlass
- Multi-point mooring system for pipe-laying, accommodation & crane barge
- Ship launching, hauling, slipway, loadout applications
- Other applications including A-frame, vehicle tow system, cable pulling, etc.

WINCH SELECTION GUIDE



* MID LAYER rating establishes average performance only

HYDRAULIC WINCHES SPECIFICATIONS



| WINCH PULL (Min. Rated) | DRUM TYPE | ROPE SIZE (mm) | ROPE LENGTH (Mtr) | DRUM SPEED (Mtr/min) | BRAKE (Max) |
|----------------------------|-----------|-------------------|----------------------|-------------------------|----------------|
| 8T | Single | Ø16 - 30 | 250 - 750 | 09 -12 | 20T |
| 10T | Single | Ø20 - 36 | 150 - 490 | 08 - 12 | 30T |
| 15T | Single | Ø28 - 38 | 500 -900 | 06 - 12 | 45T |
| 18T | Single | Ø25 - 42 | 250 -1200 | 05 - 10 | 50T |
| 2x18T | Double | Ø28 - 34 | 500 -700 | 10 - 10 | 55T |
| 20T | Single | Ø32 - 40 | 700 -1400 | 05 - 10 | 60T |
| 25T | Single | Ø32 - 44 | 780 -1500 | 05 - 10 | 70T |
| 2x25T | Waterfall | Ø32 - 44 | 600 -1000 | 05 - 10 | 60T |
| 30T | Single | Ø32 - 44 | 700 -1400 | 05 - 10 | 70T |
| 35T | Single | Ø36 - 44 | 1000 -2000 | 05 - 10 | 90T |
| 2x35T | Double | Ø32 - 44 | 700 -1500 | 05 - 10 | 70T |
| 2x35T | Waterfall | Ø36 - 44 | 700 -1500 | 05 - 10 | 70T |
| 40T | Single | Ø32 - 44 | 1000 -2000 | 05 - 10 | 70T |
| 45T | Single | Ø32 - 44 | 1000 -2000 | 05 - 10 | 80T |
| 2x45T | Double | Ø38 - 40 | 1000 -1200 | 05 - 10 | 90T |
| 50T | Single | Ø38 - 44 | 1200 -1500 | 05 - 10 | 120T |
| 60T | Single | Ø42 - 68 | 650 -2000 | 04 - 08 | 130T |
| 2x60T | Waterfall | Ø50 - 58 | 900 -1200 | 04 - 08 | 130T |
| 65T | Single | Ø40 - 54 | 1100 -2000 | 04 - 08 | 150T |
| 80T | Single | Ø56 - 68 | 1500 -2000 | 04 - 08 | 160T |
| 90T | Single | Ø56 - 68 | 1500 -2000 | 04 - 08 | 160T |
| 100T | Single | Ø52 - 71 | 850 -1300 | 03 - 06 | 180T |
| 110T | Waterfall | Ø52 - 64 | 900 -1300 | 03 - 06 | 200T |
| 120T | Single | Ø52 - 64 | 900 -1300 | 03 - 06 | 200T |
| 150T | Double | Ø52 - 64 | 900 -1300 | 03 - 06 | 230T |
| 150T | Single | Ø48 - 76 | 900 -2500 | 2.5 - 05 | 230T |
| 2x200T | Double | Ø54 - 76 | 750 - 1400 | 4 | 250T |
| 200T | Single | Ø60 - 83 | 500 -1000 | 02 - 04 | 300T |
| 250T | Single | Ø76 - 84 | 500 -1000 | 02 - 04 | 350T |
| 350T | Single | Ø84 - 90 | 1200 -1380 | 4.5 | 500T |
| 450T | Single | Ø84 - 90 | 1200 -1380 | 4 | 675T |

NOTE: DATA FOR REFERENCE, SUBJECT TO CHANGE

ELECTRIC WINCHES

Transvictory Electric Winches are designed and built with the highest quality with an aim in energy efficiency. The electrical drive used provides precise control with maximum torque. Our design philosophy results in fewer moving parts which increases maintainability while providing a quiet operation as compared to their hydraulic counterparts.



| WINCH PULL (Min. Rated) | DRUM TYPE | ROPE SIZE (mm) | ROPE LENGTH (Mtr) | DRUM SPEED (Mtr/min) | BRAKE (Max) | BRAKE TYPE |
|-------------------------|-----------|----------------|-------------------|----------------------|-------------|---------------------|
| 10T | Single | Ø25 | 120 | 0 - 15 | 13T | Band and Disc brake |
| 18T | Single | Ø30 | 125 | 0 - 12 | 27T | Band and Disc brake |
| 25T | Single | Ø28 - 32 | 1000 - 1300 | 0 - 10 | 38T | Band and Disc brake |
| 35T | Single | Ø36 - 42 | 700 - 950 | 0 - 09 | 53T | Band and Disc brake |
| 45T | Single | Ø42 - 44 | 700 - 800 | 0 - 05 | 68T | Band and Disc brake |

NOTE: DATA FOR REFERENCE, SUBJECT TO CHANGE



PNEUMATIC WINCHES

Pneumatic Winches are powered by a piston air motor and can be used to lift and pull heavy objects in any marine or offshore operations. Our range of ex-stock Pneumatic winches consists of brands such as Ingersoll Rand, RAM, Brevini and our own in-house built-to-order Transvictory Air Winches (TAW). Our Pneumatic winches are designed to be very durable and reliable under harsh Mining, Marine & Offshore conditions.

| WINCH PULL (Min. Rated) | DRUM TYPE | ROPE SIZE (mm) | ROPE LENGTH (Mtr) | DRUM SPEED (Mtr/min) | BRAKE (Max) | BRAKE TYPE |
|-------------------------|-----------|----------------|-------------------|----------------------|-------------|------------|
| 1T | Single | Ø10 - 12 | 60 - 90 | 24 | 1.25T | Air |
| 3T | Single | Ø16 - 20 | 110 - 220 | 24 | 3.75T | Air |
| 5T | Single | Ø16 - 22 | 150 - 340 | 12 | 6.25T | Air |
| 7T | Single | Ø16 - 22 | 470 - 850 | 12.3 | 8.75T | Air |
| 10T | Single | Ø20 - 25 | 600 - 900 | 06 - 12 | 12.5T | Air |

NOTE: DATA FOR REFERENCE, SUBJECT TO CHANGE

WINCH ACCESSORIES



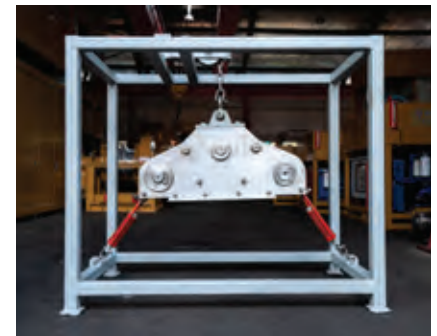
CENTRAL REMOTE CONTROL

Central Remote Control is capable of functioning up to 12-point mooring winches and come with full winch control function including clutch, speed and length of wire rope. Constant Tension System, Active Heave System, Load Tension Monitoring System and Drag Brake System can be added onto the Central Remote Control. Options such as Air-Conditioned Container Cabin, CCTV Monitoring System can also be added.



WIRELESS REMOTE CONTROL UNIT

Wireless remote control with full winch control function including clutch, speed and DANFOSS PVRES joystick for winch drum control. Comes with individual remote unit for portable application. The wireless transmitter has an unblock operating range up to 100 meters.



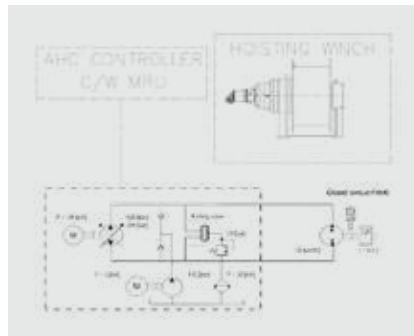
LINE TENSION MONITORING SYSTEM (DYNALINE)

Line Tension Monitoring System (LTMS) or a Dynaline unit measures the tension, payout length & winching speed of a wire rope passing its measuring sheave. Winches or supplied as separate unit for monitoring.



CONSTANT TENSION SYSTEM

Constant Tension system creates a constant line-pull between the load and the lifting device which is measured by a load sensor and is monitored by the central control system, usually packaged together with the LTMS.



ACTIVE HEAVE COMPENSATION SYSTEM

Active Heave Compensation Winch is uses an active heave compensation system on the lifting device to counter vessel movement that relies on the input of motion sensors, allowing the winches or cylinders to pay in or pay out the wire rope in order to keep the load at a constant elevation.



DRAG BRAKE SYSTEM

Drag Brake Systems helps to overcome the overspinning of a winch drum when a braking mechanism become disengaged. This system provides a limited restriction on the rotation of the drum when an actuator with a braking element is continually compressed against the drum by a spring. This allows the free-falling function and controlled load dropping operation of the drum.

HYDRAULIC POWER UNITS

Our range of hydraulic power units (HPU) include:

- Electric motor or diesel engine driven types
- 30kW to Twin160kW rated power for electric motor driven
- 58HP to 657HP rated power for diesel engine driven
- Single or double pump configurations
- "All Weather" or "Fully Enclosed" design
- "Silenced" type suitable for offshore usage
- NAS standard certification



ELECTRIC MOTOR



| HPU | DRIVE | CASING | PUMP FLOW RATE | TANK CAPACITY |
|-----------|----------------|-----------|----------------|---------------|
| 1x37kW-T1 | Electric Motor | Open Skid | 87 lpm | 950L |
| 1x37kW-T2 | Electric Motor | Open Top | 87 lpm | 800L |
| 1x55kW-T1 | Electric Motor | Open Skid | 140 lpm | 1000L |
| 1x55kW-T2 | Electric Motor | Open Top | 140 lpm | 1000L |
| 1x55kW-T3 | Electric Motor | Open Top | 112 lpm | 1000L |
| 2x55kW-T1 | Electric Motor | Open Top | 2x140 lpm | 1300L |
| 1x90kW-T1 | Electric Motor | Open Skid | 207 lpm | 1300L |
| 1x90kW-T2 | Electric Motor | Open Top | 207 lpm | 1200L |
| 1x90kW-T3 | Electric Motor | Open Skid | 250 lpm | 1800L |
| 2x90kW-T1 | Electric Motor | Open Skid | 2x207 lpm | 2800L |
| 2x90kW-T2 | Electric Motor | Open Skid | 2x250 lpm | 3000L |
| 3x90kW-T1 | Electric Motor | Open Skid | 3x207 lpm | 4300L |
| 4x90kW-T1 | Electric Motor | Open Skid | 4x207 lpm | 5000L |

DIESEL ENGINE



| HPU | DRIVE | CASING | PUMP FLOW RATE | TANK CAPACITY |
|------------|---------------|---------------|----------------|---------------|
| 43kW-ET1 | Diesel Engine | Open Skid | 87 lpm | 680L |
| 75kW-ET20 | Diesel Engine | Open Skid | 140 lpm | 700L |
| 102kW-ET1 | Diesel Engine | Open Skid | 140 lpm | 800L |
| 102kW-ET2 | Diesel Engine | Enclosed Skid | 150 lpm | 1300L |
| 102kW-ET20 | Diesel Engine | Open Skid | 140 lpm | 700L |
| 115kW-ET1 | Diesel Engine | Open Skid | 190 lpm | 1200L |
| 162kW-ET1 | Diesel Engine | Open Skid | 207 lpm | 1300L |
| 162kW-ET2 | Diesel Engine | Enclosed Skid | 207 lpm | 2000L |
| 230kW-ET1 | Diesel Engine | Enclosed Skid | 2x207 lpm | 2500L |
| 230kW-ET2 | Diesel Engine | Enclosed Skid | 1x250 lpm | 2500L |
| 230kW-ET3 | Diesel Engine | Enclosed Skid | 1x400 lpm | 2500L |
| 490kW-ET1 | Diesel Engine | Enclosed Skid | 500 lpm | 2800L |

HPU ACCESSORIES



MARINE ALTERNATOR UNIT FOR ENGINE DRIVEN HPU

An optional MECCE ALTE 25kVA Marine Alternator can be fitted on our Engine Driven HPU. The alternator is driven by the same HPU engine and provides an auxiliary 440/220V power supply for small equipment, on board lightings, etc.



FULLY ENCLOSED HPU

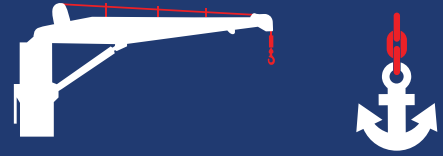
A “Fully Enclosed” or “Silent” structural option complete with container corner lifting ends is available for our HPU. This design is particularly popular in areas with noise exposure limit. A Sound Level Certificate indicating the overall and average dB(A) for this HPU will be provided upon customer’s request.

SEAWATER COOLING UNIT

Our HPU can be configured to increase its oil cooling capacity with optional BOWMAN or HYDAC hydraulic oil cooler. The cooling water can be freshwater or seawater from vessel source or from a submersible water pump.



CUSTOMISED BUILT PRODUCTS



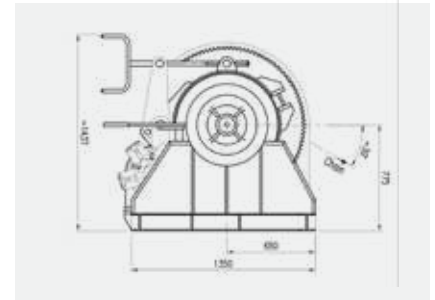
MARINE CRANES

Marine Cranes are designed, developed and manufactured to the highest quality standards in components and processes specifically for marine applications. Our Cranes range from 1 to 80 Ton with either fixed, knuckle or telescopic configurations.



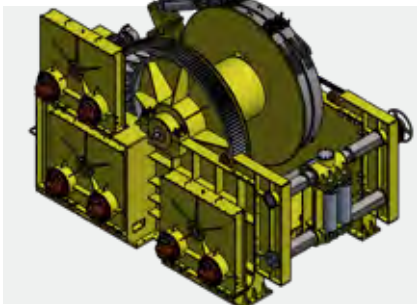
ELECTRIC CAPSTAN

Capstans used for ropes and cables on vessel. They can also be configured vertically or horizontally with PULL of up to 20 Ton & SPEED of up to 15m/min.



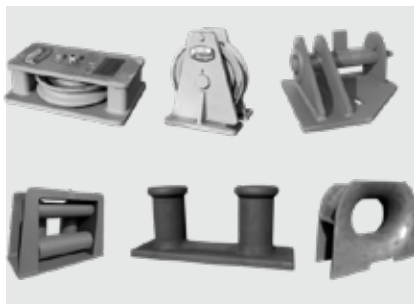
ANCHOR WINDLASS

Windlass for anchor chain in single or double drum gypsy configuration. Windlass powered electrically or hydraulically up to capacity for 120mm diameter chain.



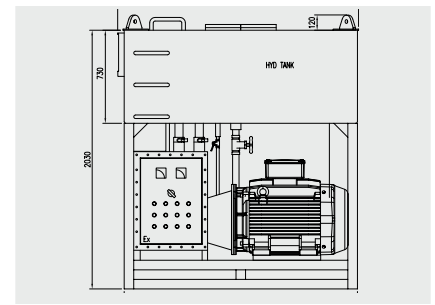
CUSTOM WINCH

Transvictory Custom Winch are thoroughly designed and built by the Engineering team with our client's specifications and requirements as the basis of design. We are able to integrate complementary equipment and accessories to the winch system in order to adhere to client's full operational requirements.



DECK FITTINGS

Transvictory is able to complement our client's winch system with our in-house procurement for deck fittings such as, chocks, buttons, cleats, keels, hatches, manholes, mooring rings, panama chocks, roller chocks, roller fairleads, towing pads, chain stoppers and smit brackets.



ZONE HPU

Our custom built Zone HPU can be fully certified in compliance with international requirements such as ATEX, IECEx, NORSOK Z-015, DNVGL-ST-E272 & SOLAS. All HPUs will be certified by a Third Party with all documentations, certification and warranty.

PURPOSE BUILT EQUIPMENT



SPOOLER

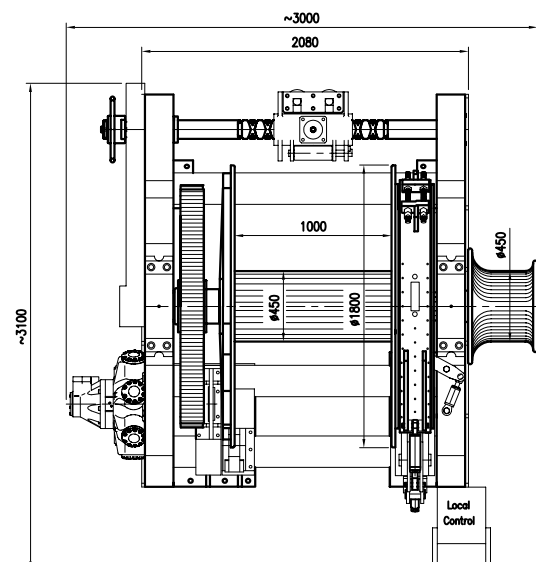
We design and fabricate wire rope handling equipment such as spooling winch, winch storage drum, double roller coiling machine.

Our spooling & coiling machines come in maximum reel weight capacities from 35 to 150 Ton and are equipped with hydraulic-controlled constant back tensioning for even coiling or uncoiling of steel wire rope, PP ropes, cables, etc.



COMPACT WINCH

Transvictory Design Team is capable to design, develop and manufacture custom compact marine and offshore winches, coupled with HPU's for clients with vessel space constraints while maintaining high reliability, safety and performance in any environmental conditions.



VALUE ADDED SERVICES



At Transvictory, it is of utmost importance to us that all your demands are fulfilled. Our dedicated team is always ready to provide quality service and value-added services that extend beyond the point of sales. We have a team of product specialists and technicians always ready to serve your project needs:

We provide end-to-end supply chain solutions, with expertise in the following:

FABRICATION & ENGINEERING

- Steel & metal frame works
- Marine equipment structural steel works
- HPU modifications to suit submersible dredge pump

INSTALLATION & COMMISSIONING

- Wire ropes installation services for our winches
- Technical support for installation & commissioning of our equipment

REPAIR & MAINTENANCE

- Winches, cranes & powerpacks repair works
- Maintenance & servicing of hydraulic equipment
- Calibration & testing of hydraulic winches

PROCUREMENT OF MARINE DECK EQUIPMENT

- Wire ropes, sheaves, shackles, anchors etc.
- Other Deck Machinery e.g. pneumatic winches
- Hydraulic hoses, fittings, etc.
- Hydraulic spare parts

LOCAL/OVERSEAS PROJECTS

- Turnkey projects supplying full deck equipment & accessories
- Marine vessel mooring & positioning
- Oil & Gas and Offshore integrated solutioning

RESEARCH & DEVELOPMENT

- Customization & upgrading of our equipment
- Remote control and access for special applications
- New application for our products

OUR PARTS SUPPLIERS



TESTING, CERTIFICATION & QUALITY STANDARDS



TESTING EQUIPMENT

- 30m test bed for functional and static & dynamic load testing
- 80 tonne overhead gantry crane
- Load cell (Active Load Ltd) up to 500 tonne
- Hydraulic cylinder for 600 tonne brake test

INSPECTION

- Third party inspection by BV/DNV/BKI/NK etc
- Marine Class certification
- Final Acceptance Test (FAT) with customer



OUR PAST PROJECTS



Location : Singapore

Operation : Vessel/Platform Positioning

Equipment : 75T Single Drum Hydraulic Winch - 6 Units
90kW Electric HPU - 6 Units
54mm x 600m Wire Rope - 6 Coils



Location : Bangladesh

Operation : Piping Laying

Equipment : 30T Single Drum Hydraulic Winch - 6 Units
55kW Electric HPU - 6 Units
32mm x 60m Wire Rope - 6 Coils
TWS Dynaline - 6 Units
TWS Central Remote Control - 1 Unit



Location : Senegal

Operation : Winch Mooring Operation

Equipment : 100T Single Drum Hydraulic Winch - 8 Units
230kW Diesel Engine HPU - 8 Units
48mm X 700m/1000m Wire Rope - 4 Coils
TWS Dynaline - 8 Units
TWS Central Remote Control - 2 Units






TRANSVICTORY
WINCH SYSTEM

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