



DECK MACHINERY



Marine Engineering,

We specialize in the design and manufacturing of deck machinery. Our designs are built to all class requirements such as ABS, Lloyd's, DNV, CCS, BV and others. Our commitment to equipment safety and reliability is well-recognized in the marine industry. Our clientele consists of the China Salvage & Rescue Bureau under The Ministry of Transportation, and leading marine and offshore service providers such as Keppel, Tidewater, Bourdon Offshore, SMIT International, PT Freeport and many oil majors.

Precision Engineering & Automation

We are a one-stop solution for your precision engineering and automation needs. This includes automation of production flow, custom design engineering, electrical and electronic system integration, full modular assembly, and precision machining. Our customers include Forbes 500 companies in the pharmaceutical, biomedical, semiconductor, and electronics industries.

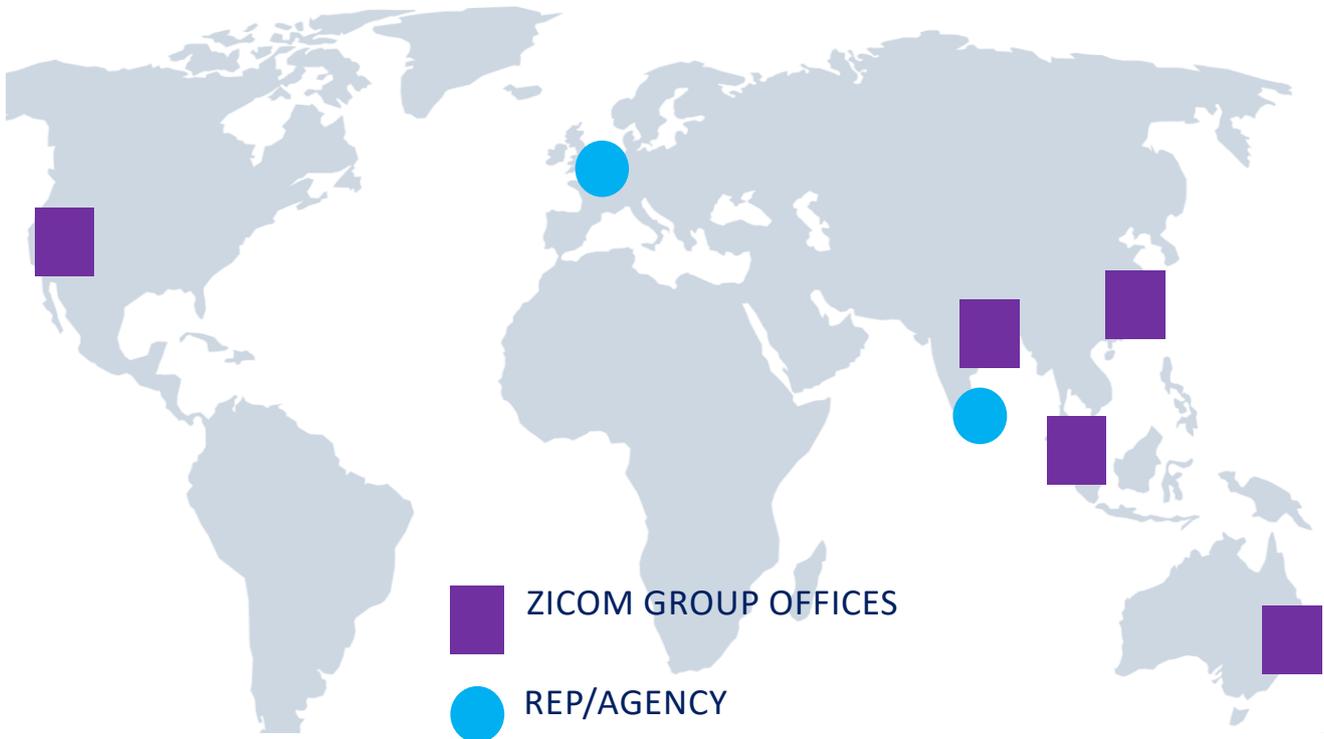
Soil Foundation & Construction

We are a well-established and reliable manufacturer of concrete mixers and foundation equipment for the construction industry. Our scope of work includes selling, renting and servicing foundation and construction equipment like concrete mixers, hydraulic vibratory hammers, vibroflots, jet grouting pumps, impact hammers, drilling rigs, and other related machinery and accessories. Our customers include building contractors, and global building materials companies from Australia, Southeast Asia, Hong Kong, China, India, and the Middle East.

Oil and Gas

We are an engineering procurement contractor for the oil and gas industry. We design and manage the construction of small to medium-sized energy infrastructures like power plants and gas fractionation plants. Key products that we manufacture as part of the projects include regulating and metering stations, and water tanks. Our customers are mainly the national oil and gas companies from India, Bangladesh, and Indonesia.





Zicom Private Limited is a total engineering solutions provider for Green Energy Solutions, Deck Machinery and Gas Equipment. Founded in 1978, we are a pioneer in Singapore delivering deck machineries and lifting solutions to the global market.

Zicom Private Limited aspires to offer innovative, quality services to our customers through continual investment in engineering excellence, state-of-the-art technology, human capital and long-standing partnerships. We seek to be a socially responsible enterprise preserving the environment for our future generations.

 Pursuit Of Excellence

 Commitment

 Integrity

 Innovation

 Environment

 Teamwork



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ZICOM PRIVATE LIMITED

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Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Deck Machinery

Our Solutions comply with Marine Classification Society Regulations and Operational Demands.

We provide customers with innovative, quality and reliable solutions and services for over 40 years. Our successful track record attests ZICOM to be a trustworthy solution provider for International Clients.

We deliver Windlass/Winch for general use on all vessels, Towing winches for Harbour/Escort and Ocean Towing, Anchor-handling Winch Systems for Shallow and Deep Waters, Pipelaying/Static Mooring Systems, Bunkering Booms, Marine/Offshore/Subsea Cranes.

Together with our partners, we offer a full range of handling solutions such as Pipe/Cable Laying systems for the offshore construction industry.

Below are the different Marine Equipment we offer:

- Anchor Handling/Towing Winch
 - Mooring System
 - Harbour/Escort Tug Winch
 - Windlass
 - Capstan
 - Tugger, Mooring Winch
 - Reel Drive System
 - Cable/Pipe Laying System And Offshore Cranes
 - HS Marine
 - Bunkering Flow Boom
 - Sheaves/Fairleaders
-
- ✓ **Windlass, Mooring Winch, and Capstan** for all ship types
 - ✓ **Mooring Systems** for Static Mooring, Pipe Laying, FPSOs and suitable for shallow and deep-waters
 - ✓ **Anchor-handling Winch** package for shallow and deep-water workboats.
 - ✓ **Towing Winch** package for the harbour, ocean-going and salvage operations
 - ✓ **Pipe/cable laying System** (Tensioners, A&R, Towers), provided together with reputed partners such as REEL IMECA.
 - ✓ **LARS** and **Custom Designed** load handling system
 - ✓ **Cranes** for marine/offshore energy, **Bunkering Booms**



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Anchor Handling / Towing Winch



Mooring System



Harbour / Escort Tug Winch



Windlass



Capstan



Tugger, Mooring Winch





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Reel Drive System



Cable/Pipe Laying System And Offshore Cranes



HS Marine



Bunkering Flow Boom



Sheaves / Fairleaders





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Windlass

Zicom offers a wide range of anchor winch windlass designs and sizes, available as a single or double gipsy to suit customers' requirements. **ZICOM's** anchor winch windlasses are designed and certified according to rules and regulations by all IACS classifications.

Anchor winch windlasses are designed for up to dia. 142mm chains with a wide range of drive control options. Electrical or hydraulic drives are available with warping heads.

Features:

- ✓ Single or Double gipsy configurations
- ✓ Rugged design with heavy-duty bushings/bearings
- ✓ Manual or hydraulically operated clutch
- ✓ Manual or hydraulic-operated brake
- ✓ Electrical or Hydraulic drives
- ✓ Local and/or Remote Control

Application: Offshore Construction, Shipping, Tugs and other Workboats, Mooring system

Design: Single or Double Gipsy, with rope drums, warping ends

Drive and control: Hydraulic and Electrical Driven, PLC with HMI

If required:

- Forced-cooled dynamic braking system for windlass, allowing fast deployment of anchor in deep water
- Remote wheelhouse monitoring and control system, including if required load, deployed chain length readout.





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

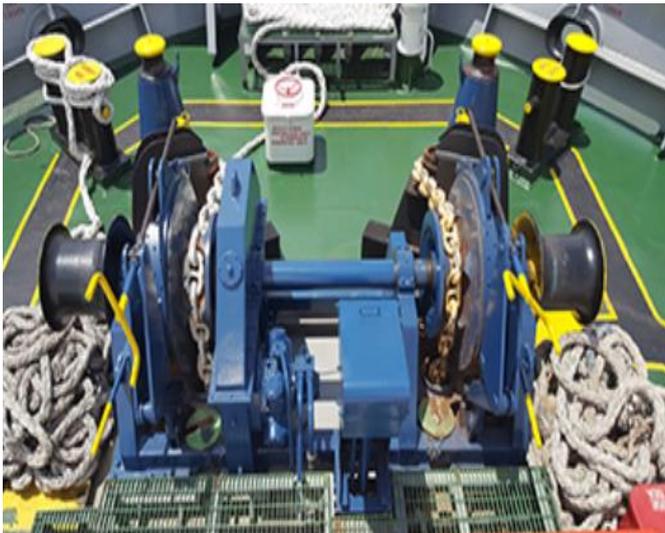
HWL SERIES



HWL-XX (SINGLE)

Windlass

For Chain Size	: Ø100mm
Chain Pull	: 48.5 Ton
Chain Speed	: 0-9m/min
Warping End Size	: Ø560mm
Max. Brake Holding	: 324 Ton



HWL-XX (DOUBLE)

Windlass

For Chain Size	: Ø30mm-Ø44mm
Chain Pull	: 5Ton - 15Ton
Chain Speed	: 6-12m/min
Warping End Size	: Ø300mm-Ø500mm
Max. Brake Holding	: 70 Ton



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

HWWL SERIES



HWWL-XX (SINGLE)

Windlass

Chain	: Ø20mm-Ø78mm
Chain Pull	: Up to 27 Ton
Chain Speed	: Up to 15 m/min
Warping End	: Ø300mm-Ø500mm
Max. Brake Holding	: Up to 145 Ton

Winch

Drum Capacity	: Up to 200m x Ø80mm
Line Pull	: Up to 20 Ton
Max. Brake Holding	: Up to 150 Ton



HWWL-XX (DOUBLE)

Windlass

Chain	: Ø22mm-Ø60mm
Chain Pull	: Up to 15 Ton
Chain Speed	: Up to 19 m/min
Warping End	: Ø300mm-Ø500mm
Max. Brake Holding	: Up to 89 Ton

Winch

Drum Capacity	: Up to 200m x Ø64mm
Line Pull	: Up to 20 Ton
Max. Brake Holding	: Up to 200 Ton

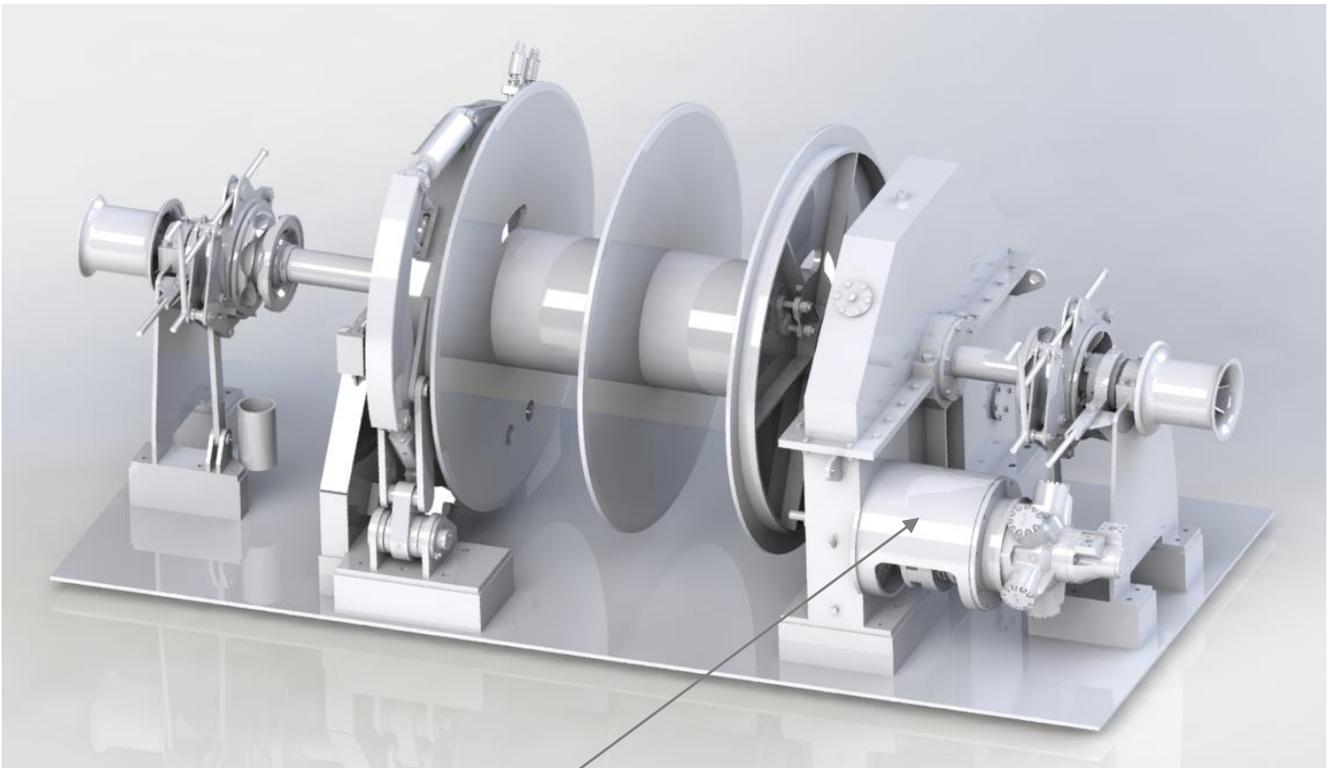


Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Hydraulic Windlass/Winch (STD)

- Totally enclosed Gearbox
- Driven via high torque, low speed Staffa Motor.
- Less than 3 Seconds Emergency Release, under brake on, clutch on, drive power failure.
- Mechanical jaw clutch instead of friction clutch on the drum.



Optional: Friction Clutch for E-release speed differential over 4 knots.

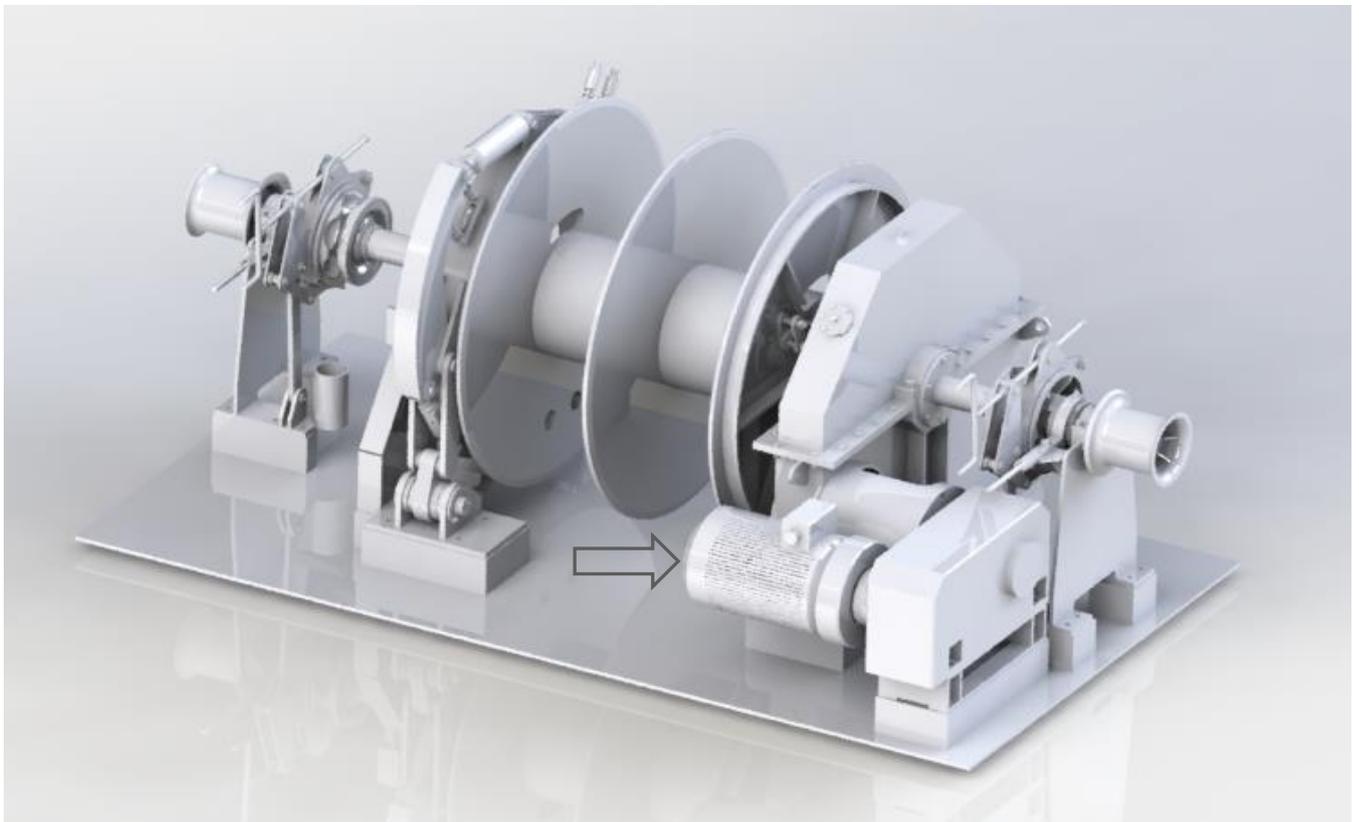


Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Electrically Driven Windlass/Winch

- 90% mechanical design similar to the hydraulic winch system.
- Winch driven with high-speed reduction gearbox with friction clutch.
- Winch powered by air-cooled e-motor system.
- Electrical Option 1: Compact water-cooled PM motor for reduced weight and compact design.
- Electrical Option 2: Compact water-cooled inverter system for on-winch installation for reduced weight and compact design.





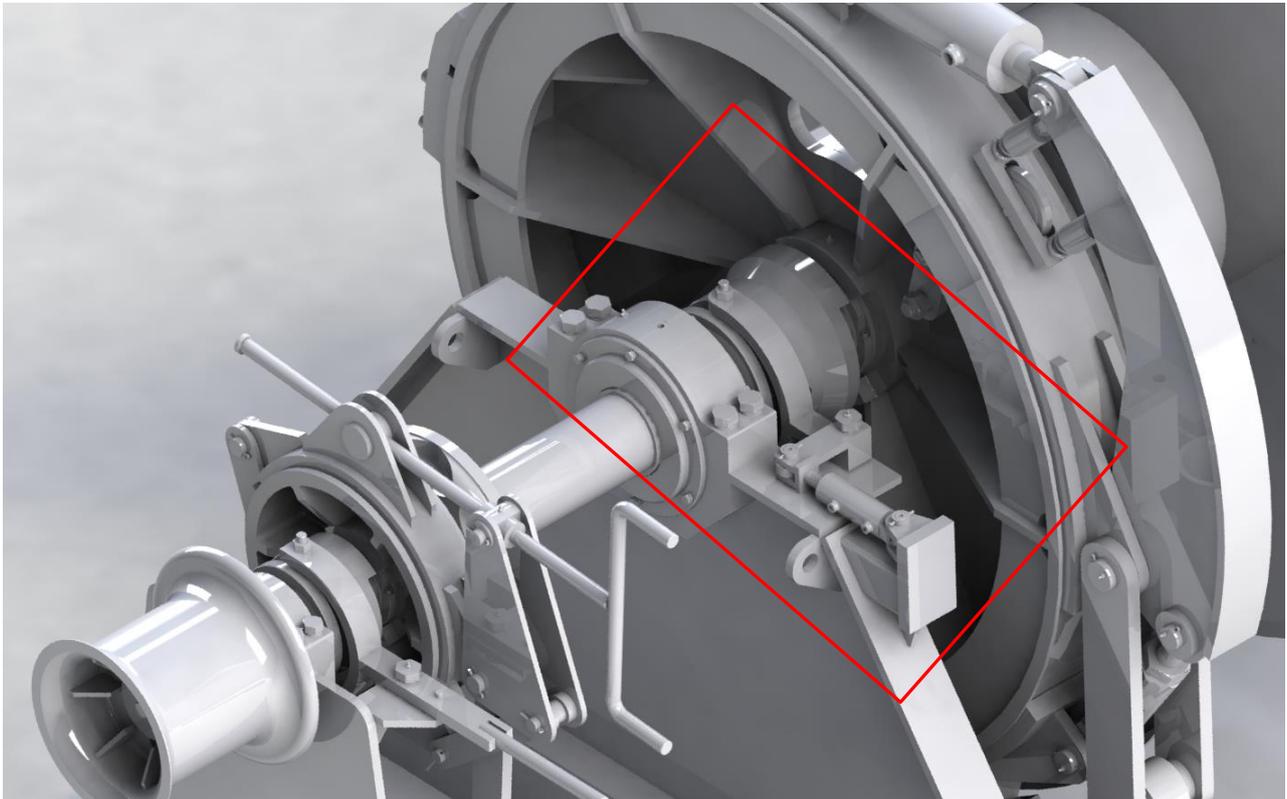
Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Mechanical Jaw Clutch

- Traditional Mechanical locking Jaw Clutch will replace friction-based cone-clutch, internal expanding friction clutch
- Shorter engagement timing
- No wear and lining replacement required
- E-release function taken up by motor free-wheeling or high-speed clutch(with solid high wear friction disc) at the motor end.

Note: Clutch has been used in our series of AHTS winches for the same power-transmission function.

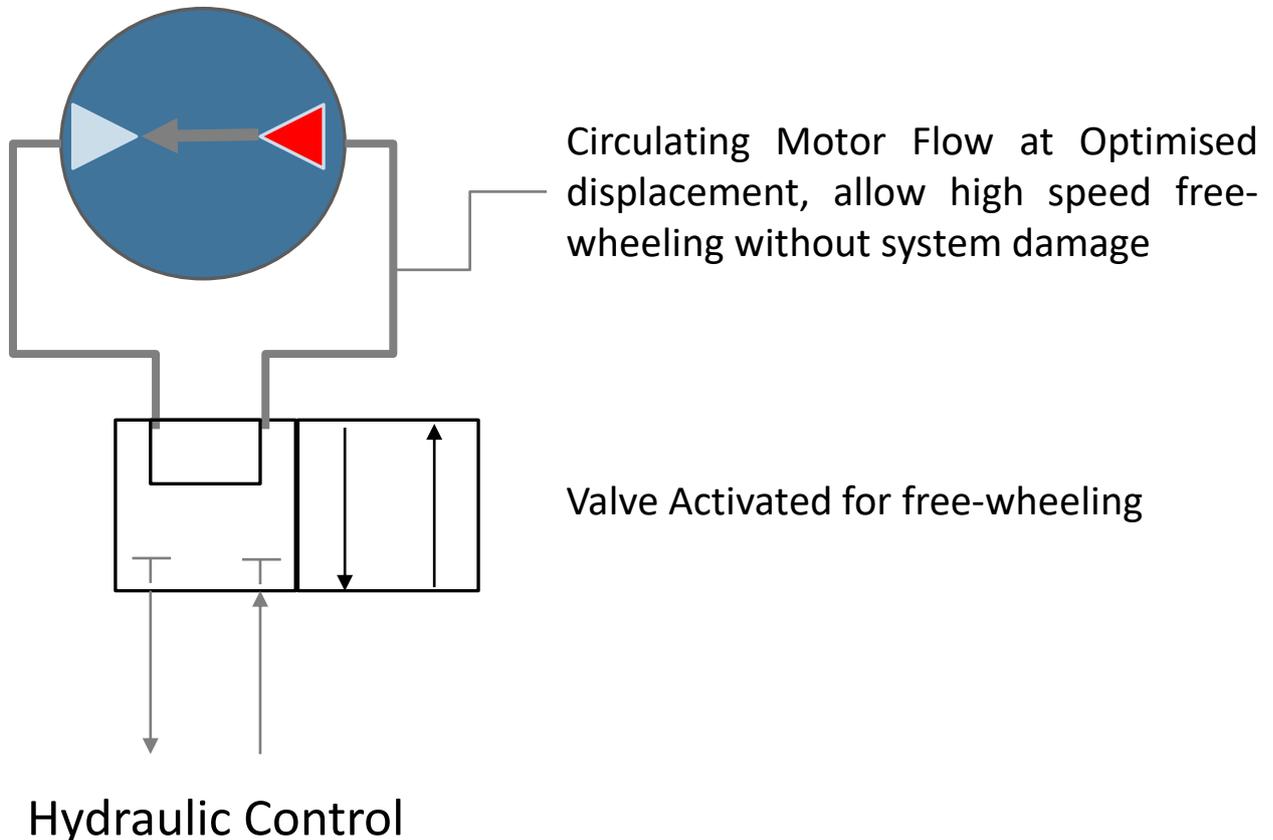




Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Motor Free-Wheeling for E-release



Compliance to less than 3 seconds deployment:

- Actual process takes 1 second much faster than traditional hydraulic cylinder-driven cone-clutch, internal expanding clutch
- System delivers resistance (without additional mechanism) to drum, preventing over-spinning and rope tangling during E-release.



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Harbour / Escort Tug Winch

Our winches are designed with operational safety and reliability in mind. It is built on a strong sturdy frame and is designed to withstand sudden shocks and tension experienced during towing operations.

The options deliverable are dependent on the operational requirements, These include auto rope **render-recover** features for **escort operations, rope length and tension readout**.

These winches are fitted with an **emergency release system deployed in under 3 seconds** even during **dead-ship** with **both brake and drive engaged**. Wheelhouse and local control for the winch are fitted.

Single and double drum configurations with gipsy are available. Manual or hydraulic actuated drum brakes, with **mechanical, mechanical friction clutch** engaging the winch drives.

The winch is available with a **maximum line pull of up to 100 tons** and with a **brake holding of up to 200 tons**.



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

HARBOUR/ESCORT TUG WINCH



HARBOUR/ESCORT TUG WINCH

Winch

Max. Brake Holding	: Up to 200 Ton
Max. Line Pull	: Up to 20 Ton
Drum Capacity	: Up to 200m x Ø80mm

Windlass

Max. Brake Holding	: Up to 90 Ton
Max. Chain Pull	: Up to 15 Ton
Max. Line Speed	: Up to 19 m/min
Warping End Size	: Ø300mm-Ø500mm
For Chain Size	: Ø22mm-Ø60mm



ESCORT TUG WINCH

Winch

Max. Brake Holding	: Up to 200 Ton
Max. Line Pull	: Up to 100 Ton
Drum Capacity	: Up to 200m x Ø80mm

Windlass

Max. Brake Holding	: Up to 90 Ton
Max. Chain Pull	: Up to 15 Ton
Max. Line Speed	: Up to 19 m/min
Warping End Size	: Ø300mm-Ø500mm
For Chain Size	: Ø22mm-Ø60mm



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Tugger, Mooring Winch

These winches are the workhorse onboard the ship.

We offer a wide range of designs and sizes, available with or without warping ends. However, the rope used for this system must be able to be manhandled by crews onboard. They also need to have sufficiently fast speed yet offer **precise hoist and lower control**.

This is important considering a fellow crewmate is handling the other end of the rope. We can deliver equipment suitable for **merchant shipping, naval, offshore construction and installation**.

The equipment can be driven both by **hydraulic motors or electrical inverter duty motors** depending on the vessel design. All options use reputable branded motors, and drive components which are easily replaceable and stocked worldwide.

Drum Capacity and Rope Type, and a combination of the following features can be incorporated by operational needs.

- ✓ Hydraulic clutch actuation
- ✓ Hydraulic brake actuation, with an option for self-locking brakes
- ✓ Remote wheelhouse monitoring, with an option of controls.



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

TUGGER, MOORING WINCH SERIES



HTUG-10

Max. Line Pull	: 10 Ton
Max. Brake Holding	: 15 Ton
Line Speed	: 15-30 m/min
Drum Capacity	: 150m of Ø22mm SWR
Warping Head	: Ø400 mm



HTUG-15

Max. Line Pull	: 15 Ton
Max. Brake Holding	: 25 Ton
Line Speed	: 18-40 m/min
Drum Capacity	: 200m of Ø24mm SWR
Warping Head	: Ø450 mm



HTUG-20

Max. Line Pull	: 20 Ton
Max. Brake Holding	: 40 Ton
Line Speed	: 18-40 m/min
Drum Capacity	: 200m of Ø26mm SWR/Mooring Line
Warping Head	: Ø450 mm



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Capstan

Zicom offers a wide range of Capstans ranging from a rated line pull of 3 tons to 20 tons. All Capstans are available in electrical or hydraulic drive.

Electrical Capstans are delivered with DOL or frequency converter for variable speed control. Hydraulic Capstans are designed with a common central HPU via a ring main system or a dedicated HPU.

HCAP SERIES



HCAP-3/5/8/10/12

Max. Line Pull	: 3/5/8/10/12 Ton
Line Speed	: 15-20 m/min
Warping End Size	: Ø400-500mm



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Sheaves / Fairleaders

We offer a wide range of Horizontal/Vertical Sheaves and Fairleaders. We also provide specially designed Sheaves and Fairleaders.

The sheaves can be fitted with **Load Cells** and **Length Measurement** system.

Our Fairleads have heavy-duty construction and are designed for long life in severe-duty applications.

SHEAVES / FAIRLEADERS



SHEAVES

Specification:

Wire Rope Size: : Ø30mm-Ø136mm



FAIRLEADERS

Specification:

Wire Rope Size: : Ø30mm-Ø136mm



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Mooring System

Zicom mooring systems consist of multiple mooring winches with a **Centralized Control System** and local control on each winch. The control system can be configured in a **Duplex configuration** ensuring **seamlessness** during **critical operations such as pipe laying and drilling**. The winches are equipped with a spooling device, tension and payout length control.

Auto wire spooling device can be integrated into the winch via sprocket drives for safe and excellent spooling of long wire. Alternatively, **spooling devices can be delivered as separate units using hydraulic cylinder-controlled or chain-motor driven.**

Zicom mooring systems can be delivered in **4-point, 8-point, 10 to 12-point mooring**. Our mooring winches are delivered with a pulling capacity of **up to 250 tons** and with a drum capacity of up to 3000m wire rope.

Features:

- ✓ Electrical or Hydraulic drive
- ✓ Hydraulic or Manual operated jaw clutch and band brake
- ✓ With or without a spooling device built into the winch frame
- ✓ Variable Speed control
- ✓ Local and Remote control
- ✓ Emergency Release

Application: Offshore Construction including but not limited to SPM, Pipe-layer, Accommodation, Floating production and storage platform.

Design: Wire ropes and in combination with Gypsy. Conventional Winch, Traction Drum, Chain Jacks Design.

Drive and Control: Hydraulic and Electrical(Multi-Drives) Driven, PLC with HMI.

If required:

- Forced cooled dynamic braking system for windlass, allowing fast deployment of anchor-line for deep-water or pipe laying
- Optional redundant control system, Winch Conditional Monitoring



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)



240T Electrical Driven Mooring Winch as part of a 10-point Pipe Lay Mooring System



Independently Driven Spooling Device (for Mooring System)



100T Hydraulic Mooring Winch as part of 8-Point Mooring System



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)



DE HE 5000T Salvage Crane Pipelay Vessel - China Yantai



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Mooring Arrangement of Offshore Support Barge

Offshore Support Barges are moored in proximity of offshore jackets or platforms. Their main objective is to provide logistic, cargo and manpower support to the platform. Based on the size of the barge, they have a 4 or 8-point mooring system. While designing of mooring arrangement of the barges, clearance from the platform shall be determined and any tangling of mooring lines with jacket legs shall be avoided.



Mooring Arrangement of Offshore Heavy Lifting Barge

Normally heavy lifting is performed by this kind of lifting barges. They normally have an 8 or 12-point mooring system. During the lifting of jacket, platform or other offshore structure, 1st order surge and sway oscillations are kept at a minimum so that the operability of installation of offshore structures can be increased.

Mooring Arrangement of Offshore Pipelay Barge

Pipe laying barges move on the set track of pipe laying and the barge moves with a certain speed. So continuous engagement of mooring winches is required so that the barge can maintain its direction.





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

HYDRAULIC MOORING SYSTEM



HMW-70 (HYDRAULICS)

Max. Line Pull	: 70 Ton
Max. Brake Holding	: 150 Ton
Line Speed	: 7 m/min
Drum Capacity	: 1500m of Ø46mm SWR
Dynamic Braking	: 10 T @ 0-120 m/min



HMW-100 (HYDRAULICS)

Max. Line Pull	: 100 Ton
Max. Brake Holding	: 200 Ton
Line Speed	: 7 m/min
Drum Capacity	: 1500m of Ø52mm SWR
Dynamic Braking	: 15 T @ 0-120 m/min

ELECTRICAL MOORING SYSTEM



EMW-250 (ELECTRICAL)

Max. Line Pull	: 250 Ton
Max. Brake Holding	: 350 Ton
Line Speed	: 14.5 m/min
Drum Capacity	: 3000m of Ø76mm SWR
Dynamic Braking	: 70 Ton @ 0-120 m/min



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Winch Concepts

Consists of a wire drum to be incorporated with the spooling device.

- Duty pull 70 Ton at 0-7 m/min.
 - Brake holding 150 Tons.
 - Fresh water-cooled drag brake of 0-10 Ton capacity.
 - Drum for dia. 46 mm steel wire.
 - Drums for 1500 m steel wire rope.
 - Total weight approx. 23 Ton.
 - Staffa Hydraulic Motor drive.
 - Local Control
 - Remote Control Panel
- Duty pull 250 Ton at 0-15 m/min.
 - Brake holding 350 Ton.
 - Fresh water-cooled drag brake of 0-10 Ton capacity.
 - Drum for dia. 76 mm steel wire.
 - Drums for 2400 m steel wire rope.
 - Total weight approx. 80 Ton.
 - Electrical motor drive
 - Local Control
 - Remote Control Panel





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Anchor Handling Winch

Application: Shallow, and Deep-water anchor-handling operations.

Design: Double, Triple or More drums configured with Safety features including Unconditional Emergency Release, Tension control, and High-Speed Dynamic Braking.

Drive and Control: Hydraulic and Electrical Driven, PLC with HMI

We designed and delivered up to 500T AHTS systems. They can be completed with Secondary Winch, Shark Jaw/Fork, Towing Pins and Pop-Up Pins

If required:

- Smart Monitoring, Maintenance, remote access system
- Independently driven (synchronized with drum rotation and manually maneuvered if required) spooling device to handle complex rope and chain combinations
- Drum "Jewelry" Compartment
- Handling of UHMPE



Chain-Driven Spooling Device



Cylinder Driven Spooling Device



400T Pull Anchor-Handling Towing Winch System



560T Shark Jaw/Towing Pin



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Towing Winch

Application: Ocean, Coastal and Salvage Towing.

Design: Single, Double configured with Safety features including Unconditional Emergency Release and tension control.

Drive and Control: Hydraulic and Electrical Driven, PLC with HMI.

We designed and delivered up to 400T winch systems. They can be completed with Shark Jaw/Fork, Towing Pins and Pop-Up Pins

If required:

- Smart Monitoring, Maintenance, and remote access system.
- Independently driven (synchronized with drum rotation and manually maneuvered if required) spooling device to handle complex rope and chain combinations.
- Built as part of Anchor-Handling System Coastal.



Escort Tug Towing Winch



Salvage Towing Winch



Our Winch System is being used for Rescue Towing during Typhoon Season by China Rescue and Salvage





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

AHTW SERIES



AHTW-100

Max. Line Pull	: 100 Ton
Max. Brake Holding	: 180 Ton
Line Speed	: 5 m/min
Drum Capacity	: 850m of Ø56mm SWR
Spooling Device	: Auto diamond leadscrew



AHTW-150

Max. Line Pull	: 150 Ton
Max. Brake Holding	: 250 Ton
Line Speed	: 5 m/min
Drum Capacity	: 1200m of Ø64mm SWR
Spooling Device	: Auto diamond leadscrew



AHTW-200 TO 250

Max. Line Pull	: 250 Ton
Max. Brake Holding	: 330 Ton
Drum Capacity	: 1500m x Ø64/76mmSWR
Dynamic Braking	: 280 Ton @ 0 – 70 m/min
Spooling Device	: Mech/Hydraulic Driven



AHTW-400 TO 600

Max. Line Pull	: 600 Ton
Max. Brake Holding	: 750 Ton
Line Speed	: Customized
Drum Capacity	: Customized
Dynamic Braking	: Customized
Spooling Device	: Hydraulic Driven



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)



Cable/Pipe Laying System

IMECA enables its clients to construct the infrastructure for **offshore energy** production. It is at its best a sparring partner for clients, deeply involved in their operational process where their solutions can make a difference.

IMECA provides lifting, handling and integrated systems and services for large-scale engineering structures in the offshore energy markets.

IMECA's large portfolio of designs for offshore renewable and oil and gas industries allows it to flexibly adapt to customer requirements based on proven solutions.

Zicom provides pre-sales and after-sales support for regional clients. **ZICOM** works with our Partner REEL IMECA to deliver advanced pipe and cable laying systems. These can be used for trunk pipe laying or for Field Development Services

IMECA's approach and design focus on:

- ✓ Uptime
- ✓ Efficiency
- ✓ Workability
- ✓ Safety
- ✓ Green Design

Application: Pipe/Cable Laying, Pipe Handling, Reel Drive System.

Design: S-Lay, Flex Lay, and J-Lay Systems with very low equipment weight, footprint and CG, allocating more cargo capacity.

Drive and Control: Hydraulic and Electrical Driven, PLC and PC with HMI.

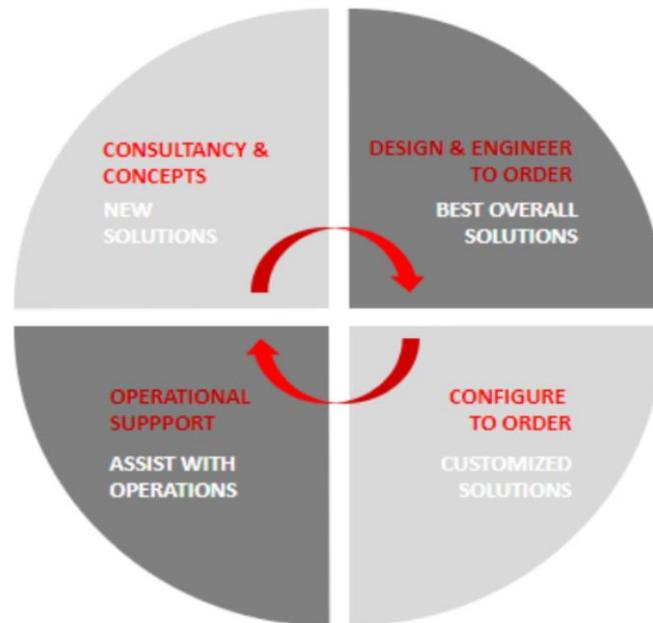
If required:

- Smart Monitoring, Maintenance, Remote access system
- Equipment can be delivered for integration into a complete system



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)



Pipelay

IMECA systems cover the entire range from a simple barge-based system for use on shallow water, or high-efficiency laying from sophisticated vessels including field development services.

The portfolio includes but is not limited to:

- ✓ Cable Laying system, including guides, tensioners and carousel
- ✓ S-Lay system, including tensioners, sheaves, pipe-handling, welding & NDT, and Rollers.
- ✓ Vertical-laying system (Reel-Lay, Flex-Lay and J-Lay) including the tower, tensioners, sheaves, pipe handling, welding & NDT, clamps (emergency and travelling), and PLET handling.

Cranes

IMECA offshore crane portfolio encompasses:

- ✓ Subsea Cranes (steel wire & fibre rope)
- ✓ Pedestal cranes
- ✓ 3D Motion compensated cranes

Agilis™ Subsea cranes feature IMECA's patented fiber rope handling system enabling the SWL in air to be placed at unlimited water depth. They are fully electric, substantially increasing efficiency and decreasing environmental footprint.



Marine Winches & Offshore Energy Equipment

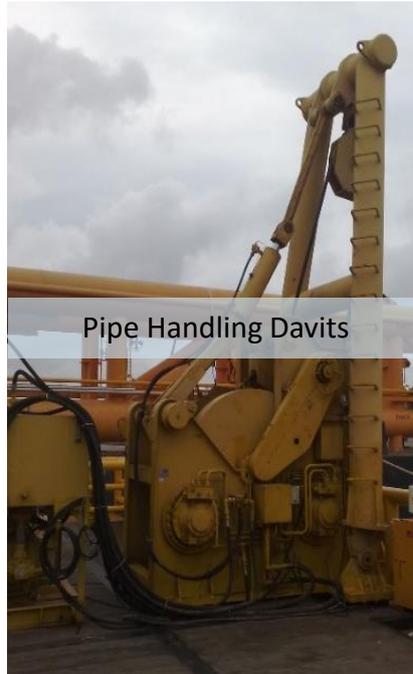
Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)



Pipe Laying System from our Partner **REEL IMECA**



500T RDS



Pipe Handling Davits



Pipe Laying System from our Partner **REEL IMECA**



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Reel Drive System

Reel Drive Systems (RDS) comprise two identical hub drive towers, running on parallel fabricated deck rails. The design is robust, safe and reliable for optimum operations and the system is built in modules for ease of mobilization.

We offer the RDS as a **standalone unit or a multi-reel handling system** to meet customer needs. The system capacities are **350 tons, 400 tons and 500 tons** capacity, with reel diameters ranging from **6m to 11.4m**.

The system is designed to deploy and recover at tensions of up to **15 tons** and speeds of up to **20m/min**.

RDS can support the reel and product weight in addition to forces by the vessel motion during operations.

The RDS comprises of 2 Hydraulic or Electrical Driven Reel Drive Towers complete with:

- ✓ Hydraulic jacks to raise and lower the drive hubs
- ✓ Adapter plates to suit different reel flange arrangements and hole centers.
- ✓ Hydraulic skidding system for two or more reels
- ✓ Deck grillage
- ✓ Support cradles to suit individual reels
- ✓ Safety platforms and access.



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

REEL DRIVE SYSTEM



RDS 350 (STANDALONE UNIT)

RDS Weight	: 65 tonnes
Constant Tension	: 15 tonnes
Reel	: 8.6M
Max Reel Weight	: 350 tonnes
Constant Reel Speed	: 1.04 rpm



RDS 500 (6M TO 11.4M)

RDS Weight	: 150 tonnes
Constant Tension	: 15 tonnes
Reel	: 6M, 8.6M, 9.2M & 11.4M
Max Reel Weight	: 500 tonnes
Constant Reel Speed	: 1.04 rpm



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Lars and Custom Designed Load Handling System



LARS during Load Test



Bunkering Boom System



ROV LARS

Application: ROVs, Diving Bells, Offshore Construction A-frames, Bunkering Booms.

Design: customized following the client's needs.

Drive and Control: Hydraulic and Electrical Driven, PLC and PC with HMI.

If required:

- Smart Monitoring, Maintenance, Remote access system



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Cranes and Flow Boom



HS MARINE CRANE USED FOR DEADGING APPLICATION



HS MARINE CRANE FOR EXTREME ENVIRONMENT



REEL IMECA AGILIS SUBSEA ACTIVE HEAVE COMPENSATED CRANE

- We represent **HS. MARINE** and **IMECA AGILIS** for ship and offshore cranes.
- HS. MARINE offers cranes for normal shipping and offshore applications. The range of models ranges from 5 to 1000 tm capacity for shipping and offshore duty. All crane models are specifically designed, masterly built and assembled to give our customers top quality.
- **AgilisTM** Subsea cranes feature **Imeca's** patented fiber rope handling system enabling the SWL in air to be placed at unlimited water depth. They are fully electric, substantially increasing efficiency and decreasing environmental footprint. The cranes use Steel wire & and fiber rope and are 3D Motion-compensated.



Marine Winches & Offshore Energy Equipment

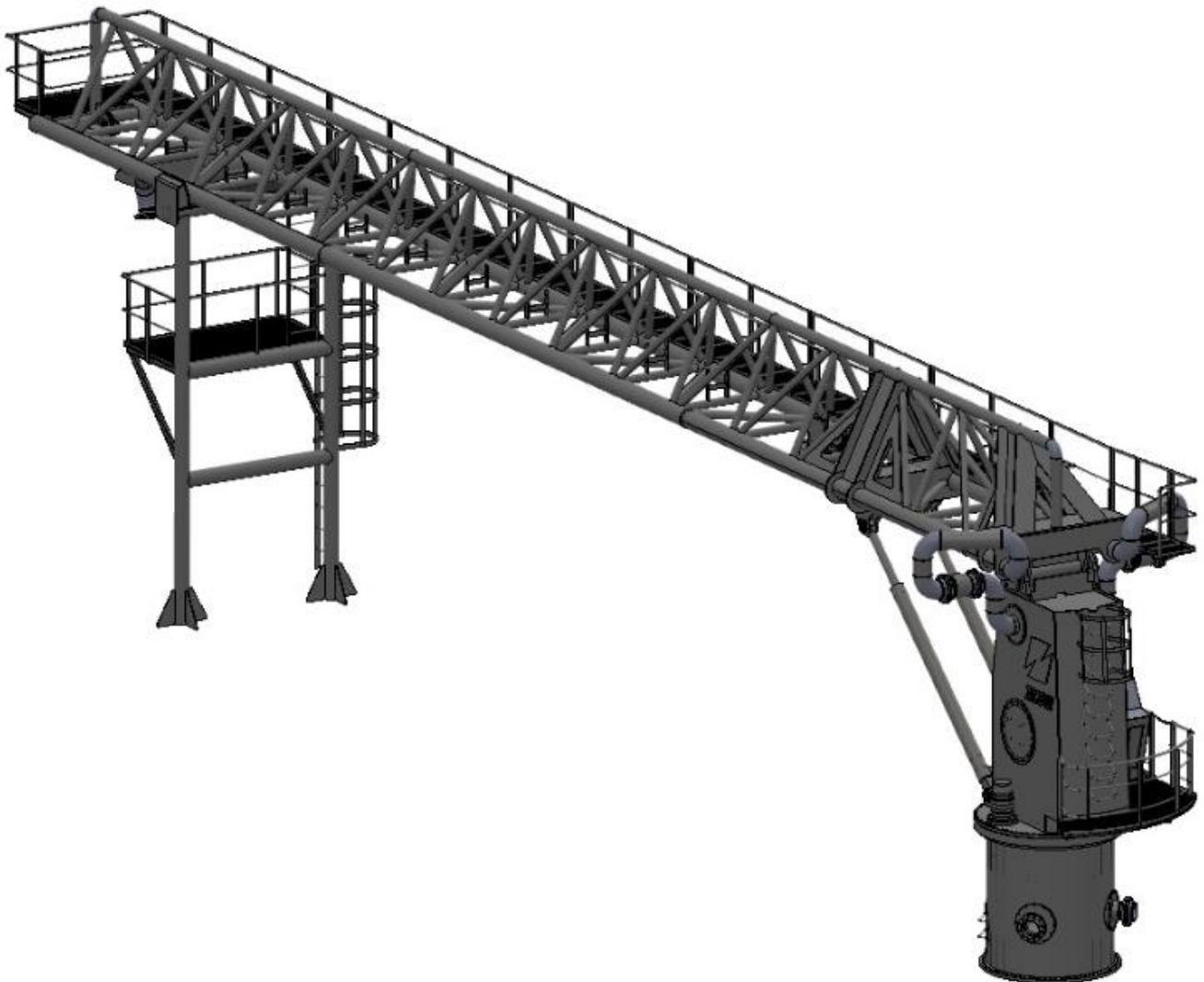
Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Bunkering Flow Boom

Zicom designs the flow boom with a unique internal swivel to allow the delivery of **2 different fluids simultaneously**.

This design **eliminates the use of multiple hoses to deliver the fluid to the boom**, greatly **reducing** the cost of the hoses and the **costly environmental damages and safety issues**.

Our flow boom is designed to deliver up to 2600 LPM of fluids.





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

BUNKERING FLOW BOOM



BUNKERING FLOW BOOM

Specification:

Boom Length	: 24 M
Min working radius	: 7.5M
Reach at 15 deg elevation	: 23.5M
Reach at 70 deg elevation	: 12 M
Height jib end to deck (70 deg)	: 25.2 M
Max elevation	: 75 deg
Slewing section	: 270 deg
Trim / List conditions	: 5 + 2 deg
Auxiliary Winch	: 2 Ton
Hoisting Speed	: 15 M/min



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Electro-Hydraulic Crane (Cylinder Luffing Crane)



The electro-hydraulic crane is special equipment used on marine for lifting spare parts and sundries. Design and manufacture of the products comply in full compliance with current and applicable rules for lifting appliances.

MODEL	S.W.L (t)	HOISTING SPEED (m/min)	SLEWING SPEED (r/min)	LIST+TRIM (degree)	MOTOR POWER (kW)
QYHC20	2	0-15	0-1	5+2	13
QYHC30	3	0-15	0-1	5+2	15
QYHC40	4	0-15	0-1	5+2	18.5
QYHC50	5	0-15	0-1	5+2	22.5
QYHC60	6	0-15	0-1	5+2	32
QYHC80	8	0-15	0-1	5+2	45
QYHC100	10	0-15	0-1	5+2	60
QYHC150	15	0-15	0-1	5+2	90
QYHC200	20	0-15	0-1	5+2	110



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Telescopic Crane (Cylinder Luffing Crane)



The telescopic crane is special equipment used on marine for lifting spare parts and sundries. Design and manufacture of the products comply in full compliance with current and applicable rules for lifting appliances.

MODEL	S.W.L (t)	OUTREACH max/min (m)	HOISTING SPEED (m/min)	SLEWING SPEED (r/min)	LIST+TRIM (degree)	MOTOR POWER (kW)
QYTC30	3	15/2.6	0-20	0-1	5+2	22.5
QYTC50	5	15/2.6	0-20	0-1	5+2	35
QYTC80	8	15/2.6	0-20	0-1	5+2	60
QYTC100	10	15/2.6	0-20	0-1	5+2	75
QYHC150	15	15/2.6	0-20	0-1	5+2	110



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Telescopic and knuckle jib Crane (Cylinder Luffing Crane)



Telescopic and knuckle jib crane is special equipment used on marine for lifting spare parts and sundries. Design and manufacture of the products comply in full compliance with current and applicable rules for lifting appliance.

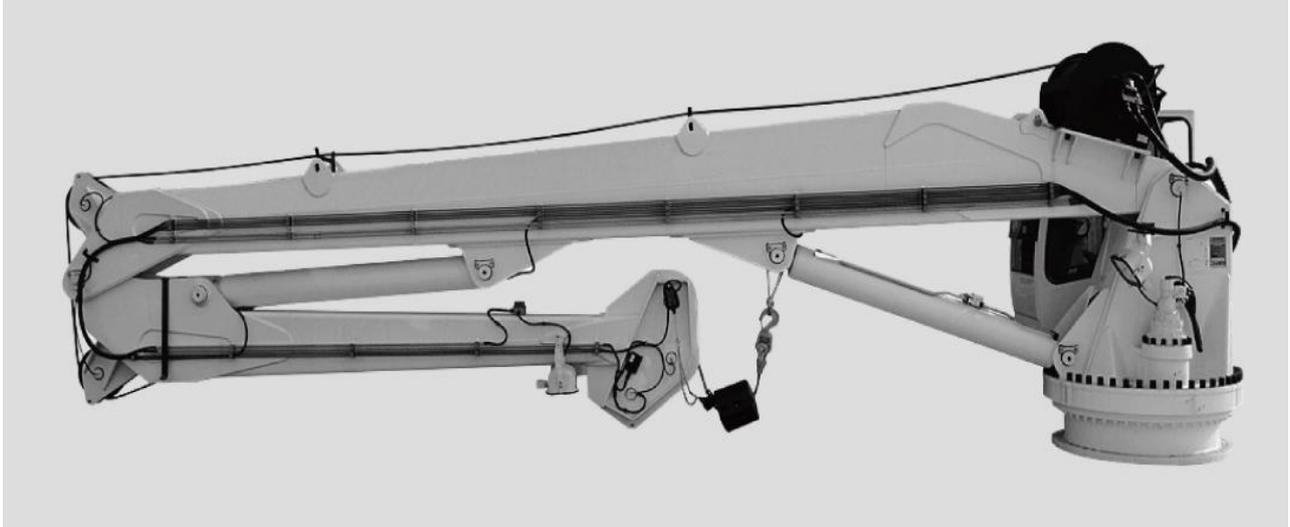
MODEL	S.W.L (t)	OUTREACH max/min (m)	HOISTING SPEED (m/min)	SLEWING SPEED (r/min)	LIST+TRIM (degree)	MOTOR POWER (kW)
QYTKC10	1	15/2.2	0-20	0-1	5+2	15
QYTKC30	3	15/2.2	0-20	0-1	5+2	25
QYTKC50	5	15/2.2	0-20	0-1	5+2	45
QYTKC80	8	15/2.2	0-20	0-1	5+2	60
QYTKC100	10	15/2.2	0-20	0-1	5+2	75



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Knuckle Jib Crane (Cylinder Luffing Crane)



The knuckle jib crane is special equipment used on marine for lifting spare parts and sundries. Design and manufacture of the products comply in full compliance with current and applicable rules for lifting appliances.

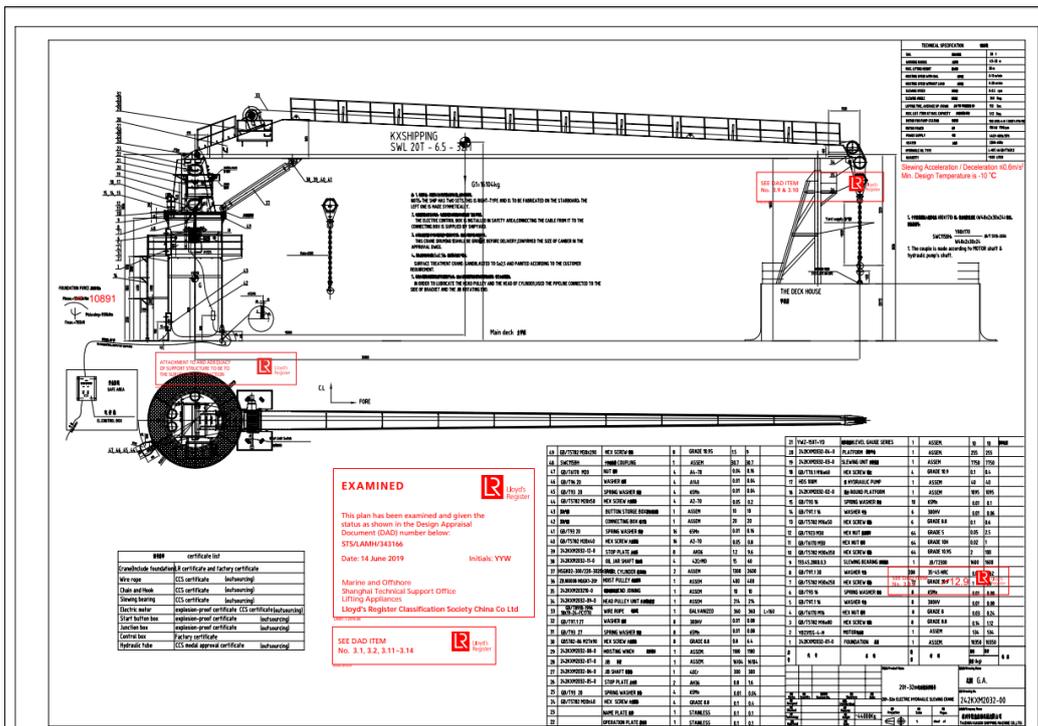
MODEL	S.W.L (t)	OUTREACH max/min (m)	HOISTING SPEED (m/min)	SLEWING SPEED (r/min)	LIST+TRIM (degree)	MOTOR POWER (kW)
QYKC30	3	15/3.5	0-20	0-1	5+2	22.5
QYKC50	5	15/3.5	0-20	0-1	5+2	35
QYKC80	8	15/3.5	0-20	0-1	5+2	60
QYKC100	10	15/3.5	0-20	0-1	5+2	75
QYKC150	15	15/3.5	0-20	0-1	5+2	110



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Hose Handling Crane



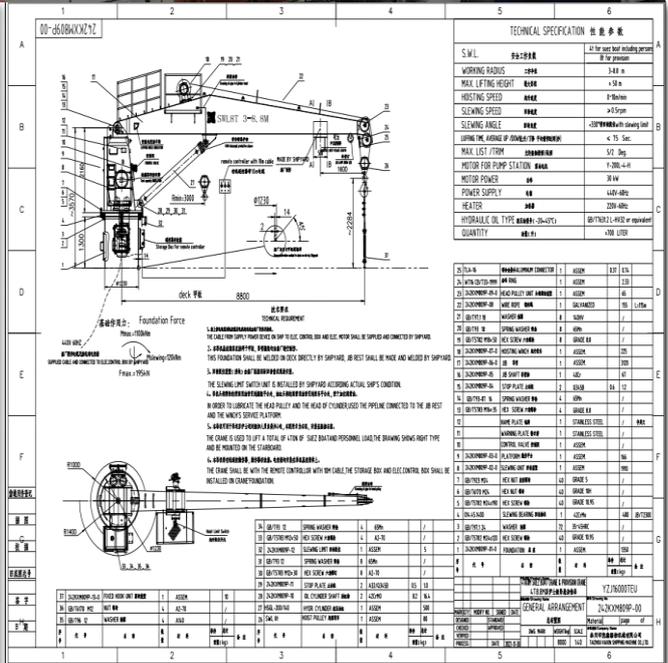
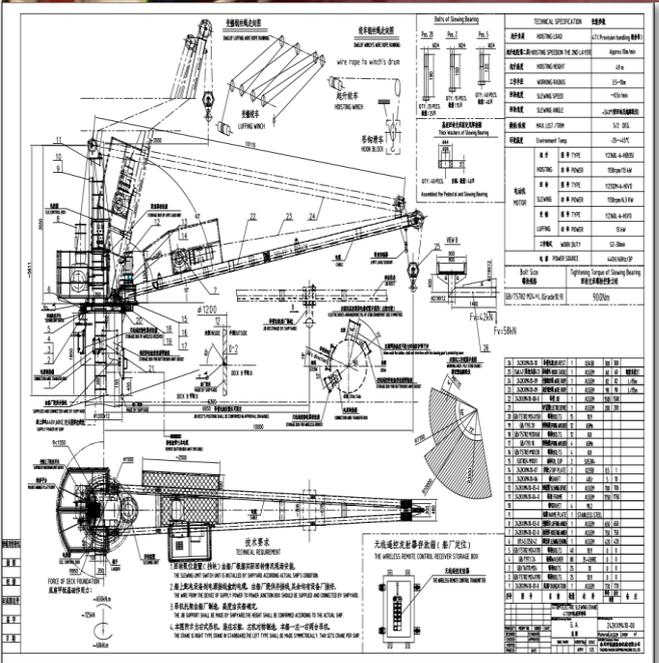
Capacity (ton)	Working Radius (m)	Drive Mode	Suitable Ship Type
10-30t	15-30m	Hydraulic Drive	Oil Tanker, Chemical Tanker



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Provision Crane: Deck Type



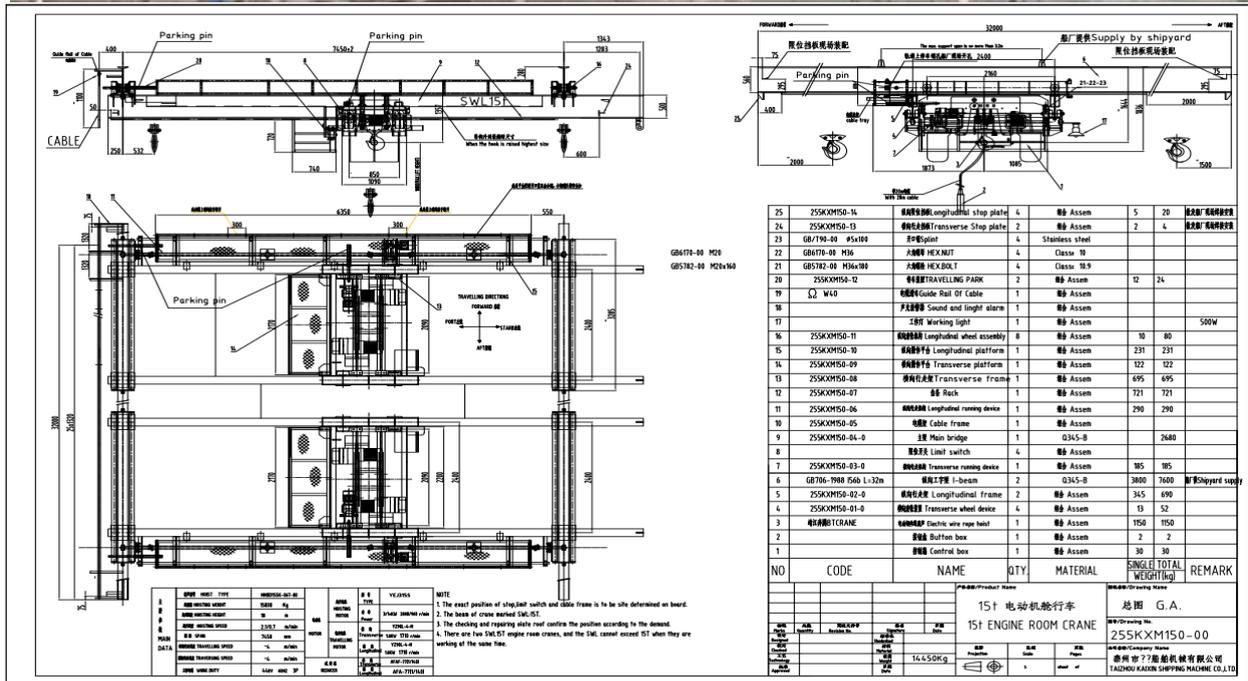
Capacity (ton)	Working Radius (m)	Drive Mode	Suitable Ship Type
2-12.5t	3-10m	Electric Drive, Hydraulic Drive	Bulk Carrier, Container Vessel, Oil Tanker, Chemical Tanker



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Engine Room Crane



Capacity (ton)	Span (m)	Drive Mode	Suitable Ship Type
2-15t	5-12m	Electric Drive	Bulk Carrier, Container Vessel, Oil Tanker, Chemical Tanker



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Auxiliary Equipment and Drive



Still includes below:

- ✓ Local Control Console/ Stand
- ✓ Electro-Hydraulic Power Pack
- ✓ Horizon Sheave c/w Load Pin
- ✓ Fairlead
- ✓ Starter Panel
- ✓ Water Cooling Unit
- ✓ Gear Cooling System
- ✓ Vertical Sheave c/w Load Pin
- ✓ Auto-greasing System
- ✓ Wheelhouse Control Panel
- ✓ Length and Tension Monitor System



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Electrical Components





Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of Escort/Harbour Tug

Owner/customer contact	Delivery date	Scope of supply	Quantity	Yard
Muhibbah Marine Engrg Sdn Bhd	2023	Dia 22mm Hyd Windlass / Winch Combi Unit	1 Shipset Hull 20120	Muhibbah Marine Engrg Sdn Bhd DCK1331
PT. Dumas Tanjung Perak Shipyards	2022	Dia 24mm Hyd Windlass / Winch Combi Unit	1 Shipset	PT. Dumas Tanjung Perak Shipyards DCK1327
Guijiang Shipbuilding Co., Ltd	2022	Dia 32mm Hyd Windlass / Winch Combi Unit 100Ton Hyd Towing Winch	1 Shipset	Guijiang Shipbuilding Co., Ltd DCK1326
Guijiang Shipbuilding Co., Ltd	2022	Dia 36mm Hyd Windlass / Winch Combi Unit 65Ton Hyd Towing Winch	1 Shipset	Guijiang Shipbuilding Co., Ltd DCK1325
Goldtide Shipbuilding Ltd.	2020	Dia 24mm Hyd Windlass / Winch Combi Unit 65Ton Hyd Towing Winch	2 Shipsets Hull No. SH161 / S32H162	Goldtide Shipbuilding Ltd. DCK1322 / 1323
PT Citra Shipyard	2019	Dia 24mm Hyd Windlass / Winch Combi Unit	4 Shipsets Hull No. TB101 / TB102 / TB103 / TB105	PT Citra Shipyard DCK1318 / 1319 / 1320 / 1321
Strategic Marine (V) Co., Ltd	2018	Dia 12.5/14/16/22mm Gypsy windlass	7 Shipsets Harbor Tugs Hull No. 1065 / 1066 / 1067 / 1068 / 1069 / 1070 / 1072	Strategic Marine (V) Co Ltd DCK1309 / 1310 / 1311 / 1312 / 1313 / 1314 / 1315
Pacific Ocean Engineering and Trading	2013 2016	Fwd Windlass/Towing Combi Unit Gypsies suitable for 22mm Dia chain Drum suitable for 150 metres of 64mm Dia Duty Pull: 20 Ton Brake Holding: 120 Ton 60T Aft Towing Winch Brake Holding:120 Ton	4 shipset, 32 meter ASD Tug Name of Vessel Hull - 1501, 1502, 1588,1589	POET @ Suyang (Yang Zong) Jiangsu suyang Marine DCK1241 DCK1242 DCK1288 DCK1299
Pacific Ocean Engineering and Trading	2015 2016	Fwd Windlass/Towing Combi Unit Gypsies suitable for 28mm Dia chain Drum suitable for 150 metre of 64mm Dia Duty Pull: 40 Ton Brake Holding : 150 Ton 80T Aft Towing Winch Brake Holding : 180 Ton	2 Shipset 39 Meter Hybrid Tug Name of Vessel: Hull 1529 Hull 1530	POMC (Wuxi) DCK1280 DCK1281
Bonny Fair Development Ltd	2015	Fwd Windlass/Towing Combi Unit Gypsies suitable for 24mm Dia chain Drum suitable for 200 metre of 60mm Dia Duty Pull: 20 Ton Brake Holding : 150 Ton 65T Aft Towing Winch Brake Holding : 165 Ton	2 Shipset 33 Meter Tug Name of Vessel: Hull HY-2219 Hull HY-2220	
Ezra Marine Services Pte Ltd	2011	Fwd Windlass/Towing Combi Unit Gypsies suitable for 22mm Dia chain Drum suitable for 200 metre of 80mm Dia Duty Pull: 10 Ton Brake Holding : 80 Ton	2 Shipset 32 Meter ASD Tug Name of Vessel: Hull 1007 Hull 1008	Saigon Shipyard Co Ltd DCK1203 DCK1204



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of Escort/Harbour Tug

Owner/customer contact	Delivery date	Scope of supply	Quantity	Yard
Keppel Smit		Fwd Windlass/Towing Combi Unit Gypsies suitable for 34mm Dia chain Drum suitable for 160 metre of 50mm Dia Duty Pull : 8 Ton Brake Holding : 20 Ton 150T Aft Towing Winch Brake Holding : 200 Ton	4 Shipset	Keppel Singmarine
PSA Singapore		Fwd Windlass/Towing Combi Unit Gypsies suitable for 19mm Dia chain Drum suitable for 220 metre of 97mm Dia Duty Pull : 5 Ton Brake Holding : 125 Ton 25T Aft Towing Winch Brake Holding : 125 Ton	3 Shipset 50T ASD Tug Name of Vessel: Hull 6Z2013 Hull 6Z2014 Hull 6Z2015	QINGDAO QIANJIN SHIPYARD
Greenbay Marine Pte Ltd	2001	Hyd Windlass / Towing Winch Drum suitable for 220 metre of 90mm Dia Duty Pull: 10 Ton Brake Holding: 100 Ton	1 Shipset 4000BHP Z-Peller Tug Hull P-138	DCK993
Beijing Enterprise Development Corp	1995	Hyd Winch / Windlass Gypsies suitable for 19mm Dia chain Drum suitable for 100 metre of 80mm Dia Duty Pull: 5 Ton Brake Holding: 80 Ton	2 Shipsets 3200BHP Tug	DCK825
Penang Shipbuilding Corp Sdn Bhd	1995	Hyd Winch / Windlass Gypsies suitable for 19mm Dia chain Drum suitable for 110 metre of 90mm Dia Duty Pull: 3 Ton Brake Holding: 60 Ton	1 Shipset 3200 HP Z-Drive Tug Hull 110001	DCK818
Naval Dockyard Sdn Bhd	1994	Hyd Winch / Windlass Gypsies suitable for 19mm Dia chain Drum suitable for 110 metre of 80mm Dia Duty Pull: 5 Ton Brake Holding: 50 Ton	1 Shipset Hull 11001	DCK787
Singmarine Dockyard & Engrg Pte Ltd	1994	Hyd Winch / Windlass Gypsies suitable for 22mm Dia chain Drum suitable for 110 metre of 100mm Dia Duty Pull: 5 Ton Brake Holding: 80 Ton	1 Shipset 3000 BHP Z-Peller Tug Hull 204	DCK786



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of Escort/Harbour Tug

Owner/customer contact	Delivery date	Scope of supply	Quantity	Yard
Xinhe Shipyard	1993	Hyd Winch / Windlass Gypsies suitable for 24mm Dia chain Drum suitable for 130 metre of 90mm Dia Duty Pull: 2 Ton Brake Holding: 55 Ton	2 Shipsets 3400 HP Tug	DCK759
Xinhe Shipyard	1993	Hyd Winch / Windlass Gypsies suitable for 22mm Dia chain Drum suitable for 110 metre of 90mm Dia Duty Pull: 4 Ton Brake Holding: 60 Ton	1 Shipset 3400HP Tug Hull 3001002	DCK749
Singmarine Dockyard & Engrg Pte Ltd	1993	Hyd Towing Winch Drum suitable for 110 metre of 42mm Dia Duty Pull: 5 Ton Brake Holding: 100 Ton	2 Shipsets 3000 BHP Z-Peller Tug Hull 196 Hull 197	DCK745
Malaysia Shipyard (MSE)	1991	Hyd Winch / Windlass Gypsies suitable for 19mm Dia chain Duty Pull : 3 Ton		DCK682



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of 150-400T Anchor Handling Towing Winch

Owner/customer contact	Delivery date	Scope of supply	Bollard Pull	Quantity	Yard
Bina Marine Pte Ltd	2014	200 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 64mm dia Stall Pull : 250 Ton Brake Holding : 300 Ton	105Ton	3 Shipsets 70M AHTS Vessel Hull No. 141 / 142 / 143	PT Marco Polo Shipyard DCK1282 / 1286 / 1288
Pacific Ocean Engr & Trdg Ltd	2014	150Ton Anchor Handling/Towing Winch Drum suitable for 1200 metre of 60mm dia Brake Holding : 250 Ton	80Ton	2 Shipsets 68M AHTS Vessel Hull No.1515 / 1516	DCK1261 / 1262
Grade One Marine Shipyard Sdn Bhd	2014	150Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 61.8M AHTSV Hull No.G011 / G012	DCK1283 / 1284
Bina Marine Pte Ltd / Marco Polo Shipyard Pte Ltd	2015	200 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 64mm dia Stall Pull : 250 Ton Brake Holding : 300 Ton	105Ton	2 Shipsets 70M AHTS Vessel Hull No. 144 / 147	PT Marco Polo Shipyard DCK1289 / 1296
CSSC Huangpu Wenchong Shipbuilding	2017	250 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 76mm dia Brake Holding : 300 Ton	130Ton	3 Shipsets 8000KW Vessel Hull No. 2376-017 / 2377-017 H2378-015	CSSC Huangpu Wenchong Shipbuilding DCK1302 / 1303 / 1304
Bina Marine Pte Ltd	2015	250 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 64mm dia Stall Pull : 250 Ton Brake Holding : 300 Ton	105Ton	1 Shipset 70M AHTS Vessel Hull No. 147	PT Marco Polo Shipyard DCK1296
Muhibbah Marine Engrg. Sdn Bhd	2013	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 60M BP AHTS Hull No. 20102 / 20103	Muhibbah Marine Engrg. Sdn Bhd DCK1243 / 1244
Pacific Oceam Engr & Trdg Ltd	2013	250 Ton Anchor Handling/Towing Winch Drum suitable for 1200 metre of 64mm dia Brake Holding : 250 Ton	105Ton	2 Shipsets 50M AHT Hull No. 1462 / 1463	DCK1237 / 1238
Bina Marine Pte Ltd	2013	200 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 64mm dia Stall Pull : 250 Ton Brake Holding : 300 Ton	105Ton	2 Shipsets 70M AHTS Vessel Hull No. 131 / 132	PT Marco Polo Shipyard DCK1250 / 1260
Pacific Oceam Engr & Trdg Ltd	2013	150Ton Anchor Handling/Towing Winch Drum suitable for 1200 metre of 60mm dia Brake Holding : 250 Ton	80Ton	2 Shipsets 65M AHTS Vessel Hull No. 1527 / 1528	DCK1156 / 1159



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of 150-400T Anchor Handling Towing Winch

Owner/customer contact	Delivery date	Scope of supply	Bollard Pull	Quantity	Yard
China Rescue & Salvage Bureau	2014 2013	Double drum 150-200T pull Brake holding 350T		18 Shipsets 8000KW AHTS	Huangpu Shipyard DCK1072 / 1133 DCK1147 / 1155
Shanghai Salvage Bureau	2012	Double drum 400T pull Brake holding : 570T		1 Shipset 16000KW AHTS	Wuchang Shipyard DCK1214
Shanghai Salvage Bureau	2010, 2011	Double drum 200T pull Brake holding 360T		2 Shipsets 9000KW AHTS	Wuchang Shipyard DCK1140 / 1171
Guangzhou Salvage Bureau	2011	Double drum 250T pull Brake holding : 500T		1 Shipset 12000KW AHTS	CHMI Shenzhen DCK1181
Muhibbah Marine Engrg. Sdn Bhd	2011	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 60M BP AHTS Hull No. 20093 / 20094	DCK1178 / 1179
Grade One	2011	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 60M AHTS Hull No. G009 / G010	DCK1176 / 1177
Yantai Salvage	2010	Double drum 200T pull Brake holding 360T		1 Shipset 10000KW AHTS	Huanghai Shipyard DCK1155
Bina Marine Pte Ltd	2010	200 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 64mm dia Stall Pull : 250 Ton Brake Holding : 300 Ton	105Ton	2 Shipset 65M AHTS Vessel Hull No. 074 / 075	PT Marco Polo Shipyard DCK1157 / 1191
Yantai Chinar Trade co., Ltd	2009 2010	200 Ton Anchor Handling/Towing Winch Drum suitable for 1200 metre of 70mm dia Brake Holding : 360 Ton		2 Shipset 10000KW	DCK1155
Guangzhou Hantong Shipbldg & Shipping Co, Ltd	2009	Hull HT082X07 200 Ton Anchor Handling/Towing Winch Hull HT082X08 250 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 64mm dia Stall Pull : 250 Ton Brake Holding : 300 Ton		2 shipset 75M AHSV Hull No. HT082X07 Hull No. HT082X08	DCK1150
Pacific Ocean Engrg. & Trading Pte Ltd	2009	200 Ton Anchor Handling/Towing Winch Drum suitable for 1200 metre of 64mm dia Brake Holding : 250 Ton		2 Shipset IMT 959 60M x 95T Bollard Pull AHT (Salvage) Hull No. 1417 / 1418	DCK1156 / 1159



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of 150-400T Anchor Handling Towing Winch

Owner/customer contact	Delivery date	Scope of supply	Bollard Pull	Quantity	Yard
Muhibbah Marine Engrg. Sdn Bhd	2008	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 59M AHSV Hull No. 20066 / 67	DCK1118
China Rescue & Salvage Bureau	2007	Double drum 200T pull Brake holding 350T		2 Shipsets 14000KW AHTS	Huangpu Shipyard DCK1197 / 1198
Sealink Shipyard Sdn Bhd	2007	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 52mm dia Brake Holding : 180 Ton	70Ton	2 Shipsets Hull No. SSS 161 / 161	DCK1112
China Rescue & Salvage Bureau	2007	Double drum 200T pull Brake holding 300T		1 Shipset 14000KW AHTS	Huangpu Shipyard DCK1091
Muhibbah Marine Engrg. Sdn Bhd	2006	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 52mm dia Brake Holding : 200 Ton	70Ton	3 Shipsets 59M AHSV Hull No. 20063 / 64 / 65	DCK1101/02/03
Shanghai Salvage Bureau	2005	Double drum 250T pull Brake holding 500T		1 Shipset 11000KW AHTS	Wuchang Shipyard DCK1070
Tanjung Huma	2004	150 Ton Anchor Handling Towing Winch Drum suitable for 1400 metre of 56mm dia Brake Holding : 200 Ton	70Ton	1 shipset 60M AHTS Hull 5688	Mest DCK1060
Tide Water	2004	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	60M AHTS x BP 73 2 shipsets Hull 153/154	Pan United Shipyard Pte Ltd
Pertamina Tongkang	2004	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	60M AHTS 2 shipsets Hull M000183 / M000215	PT PAL DCK10666
Otto Marine	2004	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	60M AHTS x BP 73 2 shipsets Hull 7007/7008	PT Batamec DCK1065
Shanghai Salvage	2004	250 Ton Waterfall Towing Winch Drum suitable for 1500 metre of 76mm dia Brake Holding : 400 Ton		11000KW Ocean Rescue & Salvage Vessel 1 Shipset	Wuchang Shipyard DCK1070
Ministry of Communications	2004	160 Ton Anchor Handling Towing Winch Drum suitable for 1200 metre of 64mm dia Brake Holding : 300 Ton		8000KW Ocean Rescue & Salvage Vessel 3 shipsets	Huang Pu Shipyard DCK1059



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of 150-400T Anchor Handling Towing Winch

Owner/customer contact	Delivery date	Scope of supply	Bollard Pull	Quantity	Yard
Hadi H Al Hammam Est. Marine Services	2003	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	3 shipsets 60M AHTS x BP 73 Hull 268 Hull 275,276	Keppel Singmarine Pte Ltd DCK1046 DCK1053
China Rescue and Salvage	2003	200 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 64mm dia Stall Pull : 200 Ton Brake Holding : 300 Ton		3 shipsets 70M x 6000 KW Rescue Boat Hull SS3130/SS3131/SS3 132	Shanghai Shipyard
Dragon Supply Ships Pte Ltd	2003	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	3 shipsets 60M AHTS x BP 73 Hull 4826, 4827 & 4828	Yuexin Shipyard Guangzhou DCK1047
Sealion Offshore Pte Ltd	2002	160 Ton Anchor Handling/Towing Winch c/w Drum suitable for 1000 metre of 60mm Dia steel wire rope Brake Holding : 150 Ton	80Ton	1 shipset 64M AHTS x 80 Ton BP	Zheng Jiang Shipyard
Jasa Merin (Malaysia) Sdn Bhd	2002	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 56mm dia steel wire rope Brake Holding : 200 Ton	70Ton	2 shipsets 59M X 70 TON BP AHTS Hull 20039 & 20040	Muhibbah Marine & Engrg Sdn Bhd DCK1031
Keppel-Smit	2002	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia steel wire rope Brake Holding : 200 Ton		1 shipset 60M AHTS x BP 73	Keppel Singmarine Pte Ltd
Seacor Marine Inc	2001	150 Ton Anchor Handling/Towing Winch c/w two Rigs chain handling gypsies suitable for 70mm Dia chain. Drum suitable for 1000 metre of 58mm Dia steel wire rope Line Pull: 120 Ton Brake Holding : 200 Ton	70Ton	2 shipsets 61M AHTS Seacor Navigator Seacor Explorer	Jaya Shipbuilding & Engineering Pte Ltd
Yantai Salvage	2000	160 Ton Anchor Handling Towing Winch c/w two Rigs chain handling gypsies 84m & 66m. Drum suitable for handling 1000 metre of 64mm Dia Stall Pull: 200 Ton Brake Holding : 250 Ton		1 Shipset 74 Metre AHTS x BP 80 Ton Name of Vessel : De Hui	Donghai Shipyard



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of 150-400T Anchor Handling Towing Winch

Owner/customer contact	Delivery date	Scope of supply	Bollard Pull	Quantity	Yard
Sealink Shipyard Sdn Bhd	2009	150 Ton Anchor Handling/Towing Winch Drum suitable for 1400 metre of 58mm dia Brake Holding : 250 Ton	70Ton	1 Shipset 67M Multi-Purpose Tug / Supply Vessel Hull No. SSS 139	DCK1146
Muhibbah Marine Engrg. Sdn Bhd	2009	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 60M BP AHTS Hull No.20082 / 83	DCK1145
Muhibbah Marine Engrg. Sdn Bhd	2009	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	4 Shipsets 60M BP AHTS Hull No. 20071 / 72 / 73 / 74	DCK1123 / DCK1124
MSET	2009	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 60M AHTS Hull No.5741 / 5742	DCK1137
Grade One	2009	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 58mm dia Brake Holding : 200 Ton	70Ton	4 Shipsets 60M AHTS Hull No. G001 / G002 / G003 / G005	DCK1132 / 36
Sealink Shipyard Sdn Bhd	2009	200 Ton Anchor Handling/Towing Winch Drum suitable for 1400 metre of 58mm dia Brake Holding : 250 Ton	70Ton	2 Shipsets 67M AHSV Hull No. SSS 125 / 126	Boustead Penang Shipyard Sdn Bhd DCK1130
Pacific Crest Pte Ltd	2009	200 Ton Anchor Handling/Towing Winch Drum suitable for 1500 metre of 64mm dia Brake Holding : 300 Ton		2 Shipsets 70.5M x 8000 HP AHTS x BP : 100 Hull No. TFJX 617 / TFJX 618	Tongfang Jiangxin Shipbuilding Co., Ltd. DCK1127
Boustead Naval Shipyard Sdn Bhd	2008	150 Ton Anchor Handling/Towing Winch Drum suitable for 1200 metre of 58mm dia Brake Holding : 200 Ton	70Ton	1 Shipset 60M AHSV Hull No. 023	DCK1121
Otto Marine Pte Ltd	2008	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 52mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 57.5M AHTSV Hull No. 6019 / 6020	Weihai 4809 Machine Factory DCK1125
Otto Marine Pte Ltd	2008	150 Ton Anchor Handling/Towing Winch Drum suitable for 1000 metre of 52mm dia Brake Holding : 200 Ton	70Ton	2 Shipsets 57.5M AHTSV Hull No. 6021 / 6022	Guijiang Shipbldg Co., Ltd DCK1126
Yantai Salvage	1999	150 Ton Anchor Handling Towing Winch c/w two Rigs chain handling gypsies 84m & 66m Drum suitable for handling 1000 metre of 58mm Dia steel wire rope		1 Shipset 3200KW Ocean Rescue Tug Name of Vessel: De Yang	Donghai Shipyard



Marine Winches & Offshore Energy Equipment

Intelligent Systems with Hydraulic, Electric Drives (Option with Energy Storage Solutions)

Supply of 150-400T Anchor Handling Towing Winch

Owner/customer contact	Delivery date	Scope of supply	Bollard Pull	Quantity	Yard
Seacor Marine Inc	1998	150 Ton Anchor Handling/Towing Winch c/w two Rig's chain handling gypsies suitable for 70mm Dia chain. Drum suitable for 1000 metre of 58mm Dia Stall Pull : 150 Ton Brake Holding : 180 Ton		2 Shipset 61 Metre AHTS X BP 67 Ton Name of Vessel: Seacor Argosy Hull 818 Jaya Mariner Hull 819	Jaya Shipbuilding & Engineering Pte Ltd
Zamil Operations and Maintenance Co Ltd, Saudi	1998	150 Ton Anchor Handling/Towing Winch System. Drum suitable for 1000 metre of 52mm Dia Stall Pull: 150 Ton Brake Holding : 180 Ton		2 Shipsets 61 Metre AHTS X BP 67 Ton Name of Vessel: Zamil 6 Zamil 7	Pan-United Shipyard Pte Ltd
Yantai Salvage	1998	150 Ton Anchor Handling/Towing Winch c/w two Rigs chain handling gypsies 84m & 66m. Drum suitable for handling 1000 metre of 58mm Dia steel wire rope Stall Pull: 150 Ton Brake Holding : 200 Ton		1 Shipset 3200KW Ocean Rescue Tug Name of Vessel: De Yun	Donghai Shipyard

Supply for Construction / Utility / MPV Vessels

Owner/customer contact	Delivery date	Scope of supply	Quantity	Yard
Wuchang Shipyard	2018	40T Deck Winch 10T Deck Winch	1 Shipset DDSV AH0043AL	Wuchang Shipyard DCK1317
Reel S.A.S	2017	600T/200T Traction Winch 600T/200T Storage Winch	1 Shipset 600Te A&R System for COES SS4500 Lay Vessel	Reel S.A.S DCK1307
Shanghai Salvage Bureau, Ministry of Transport	2015	Mooring Winch Duty Pull : 250T Brake Holding : 350T 3000M 76mm steel	1 Shipset Pipelaying Vessel for Mooring Winch System ZPMC 1088	Shanghai Salvage Bureau, Ministry of Transport DCK1297
ZPMC (Shanghai Zhenghua Heavy Industries Co., Ltd)	2014	Mooring Winch Duty Pull : 250T Brake Holding : 350T 2400M 76mm steel wire rope	1 Shipset Pipelaying Vessel for Mooring Winch System ZPMC 1052	ZPMC (Shanghai Zhenghua Heavy Industries Co., Ltd) DCK1287



ZICOM Global Service and Support

Solution for the Operational Needs of Different Vessel Profile



Service and Industrial

We provide a worldwide support network for our equipment with our satellite office and service partners. These are staffed with a team of well-trained engineers, readily deployable onsite to attend to your needs.

Our engineers are trained in multiple disciplines including but not limited to **Cryogenic Pump and Flow Systems, Compressors, Mechanical, Hydraulic and Electrical drives, Control Systems and Energy Storage.**

Our service program covers our entire product range in **Green Energy, Deck Machinery Custom projects and Agency Products.**

We also offer operational lifetime support for our system through:

- ✓ Health check programs
- ✓ Maintenance Contracts for site service and parts



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