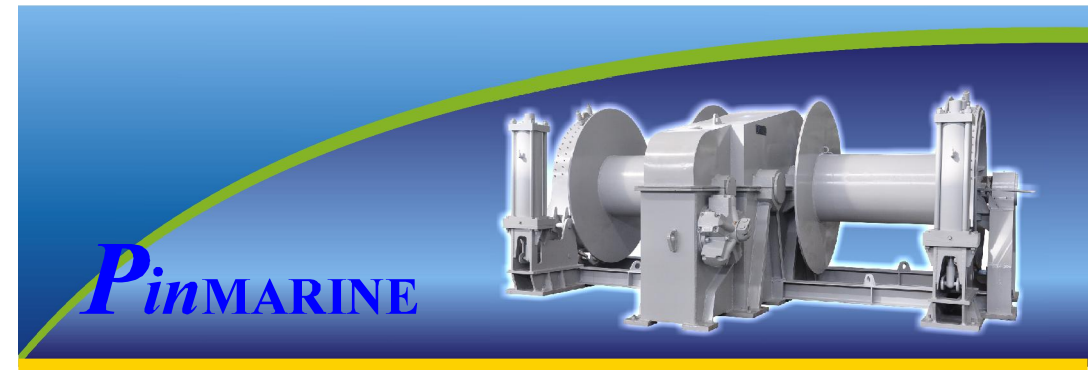




PinMARINE



PT. PINDAD (PERSERO)
DIVISI MESIN INDUSTRI & JASA

Jln. Gatot Subroto No. 517 Bandung 40284 Indonesia
Phone: (62-22) 7301574, 7312073 (Hunting) Ext. 2428 Fax.: (62-22) 7304293
Homepage: <http://www.pindad.com> Email: marine@pindad.com



catalog of product

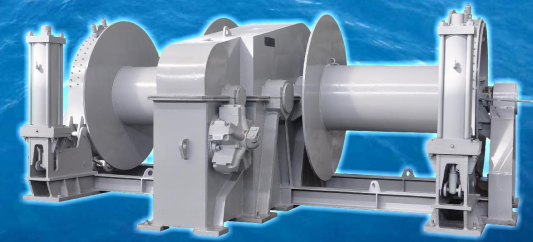
Classification



SOME OF OUR REFERENCES



TRUSTED PARTNER FOR YOUR MARINE EQUIPMENT



- PT. ADILUHUNG SARANA SEGARA INDONESIA
- PT. BAROKAH BERSAMA PERKASA
- PT. BAYU BAHARI SENTAUSA
- PT. BENUA RAYA, BALIKPAPAN
- PT. BEN SANTOSA
- PT. BINTANG TIMUR SAMUDERA
- PT. DAYA RADAR UTAMA
- PT. DUMAS TANJUNG PERAK SHIPYARD
- PT. DOK KODJA BAHARI
- PT. DOK PERKAPALAN SURABAYA
- PT. GLOBAL TRADING
- PT. INDUSTRI KAPAL INDONESIA
- PT. JANATA MARINA INDAH SHIPYARD
- LUERSSEN, GERMANY
- PT. MULTI AGUNG SARANA ANANDA
- PT. ONASIS INDONESIA
- PT. PAHALA HARAPAN LESTARI
- PT. PAL INDONESIA
- PT. PAL MARINE SERVICES
- PT. PARADIGM
- PT. PELAYARAN NASIONAL MELADYA MAKMUR
- PT. PERTAMINA
- PT. SANUR MARINDO SHIPYARD
- PT. SARANA SAMUDERA PACIFIC
- PT. SINOPUN
- PT. TERAFULK MEGANTARA DESIGN
- PT. TESCO INDOMARITIM
- PT. TRISILA LAUT
- ZHAN HONG, PTE, LTD SINGAPORE

Pinmarine,
provides Marine Equipment products,
such as Deck Machinery, Crane, Steering Gear, etc.
to comply with various types of vessels, such as Ferry,
Tug Boat, Tanker, AHT / AHTS, Patrol Boat, Barge and others.

Until now PinMarine has produced
and sold more than 450 units Marine Equipment
products to more than 30 costumers.

PinMARINE

ABOUT US

*Pin*MARINE

PinMarine,
Starting from the cooperation established with HATLAPA,
currently PinMarine has developed a variety of marine equipment products,
since 1991.

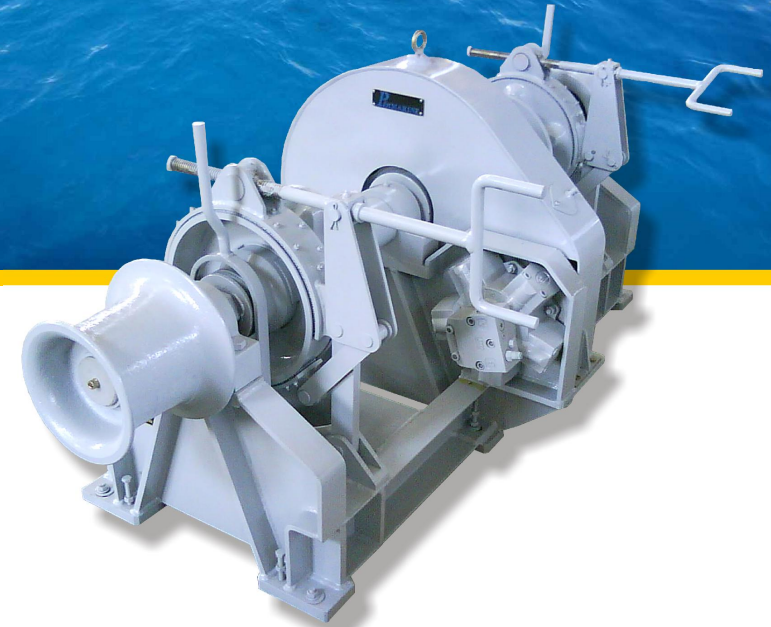
With the support of Human Resources, the production system
and good quality control, PinMarine capable of producing
quality products and competitive,
and meet the requirements of National & International
Classification societies, such as BKI, LR, ClassNK, BV, RINA, GL, ABS, etc.

PinMarine is a business unit of PT. Pindad (Persero) which is in
environment Industrial Machinery & Services Division,
with a variety of production facilities, such as Manufacturing,
Casting, Assembling and testing are integrated.



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TANKER

- Windlass / Combination Windlass
- Chain Stoppers
- Mooring Winches
- Steering Gears
- Cargo Hose Handling Cranes
- Provision Cranes
- Spare Part Cranes
- Sludge Cranes
- Accomodation Ladder

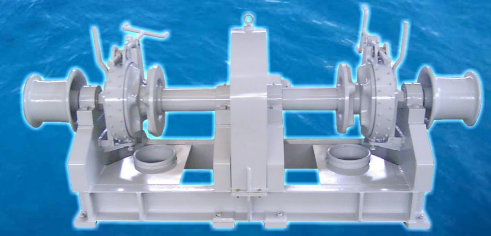


SPECIAL VESSELS

We shall provide of Marine Equipments for varios types of
Special Vessel, such as Landing Craft Utility Vessel (LCU),
Landing Craft Tank (LCT), Barge, etc.

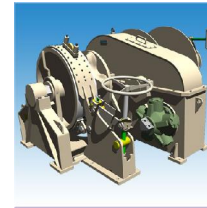
DELIVERY PROGRAM BASED ON THE TYPE OF VESSEL

OUR products



TUG BOAT

- Windlass / Combination Windlass
- Chain Stoppers
- Towing Winches
- Towing Hooks
- Steering Gears



Deck Machinery

6

Cranes

11

Steering Gear

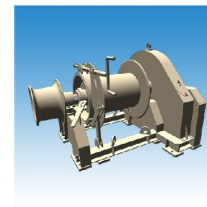
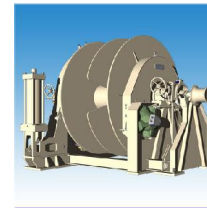
17

Other Products

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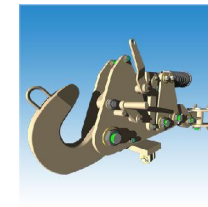
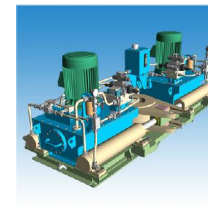
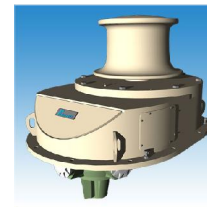
FERRY Ro-Ro

- Windlass / Combination Windlass
- Chain Stoppers
- Ramp Winches
- Steering Gears



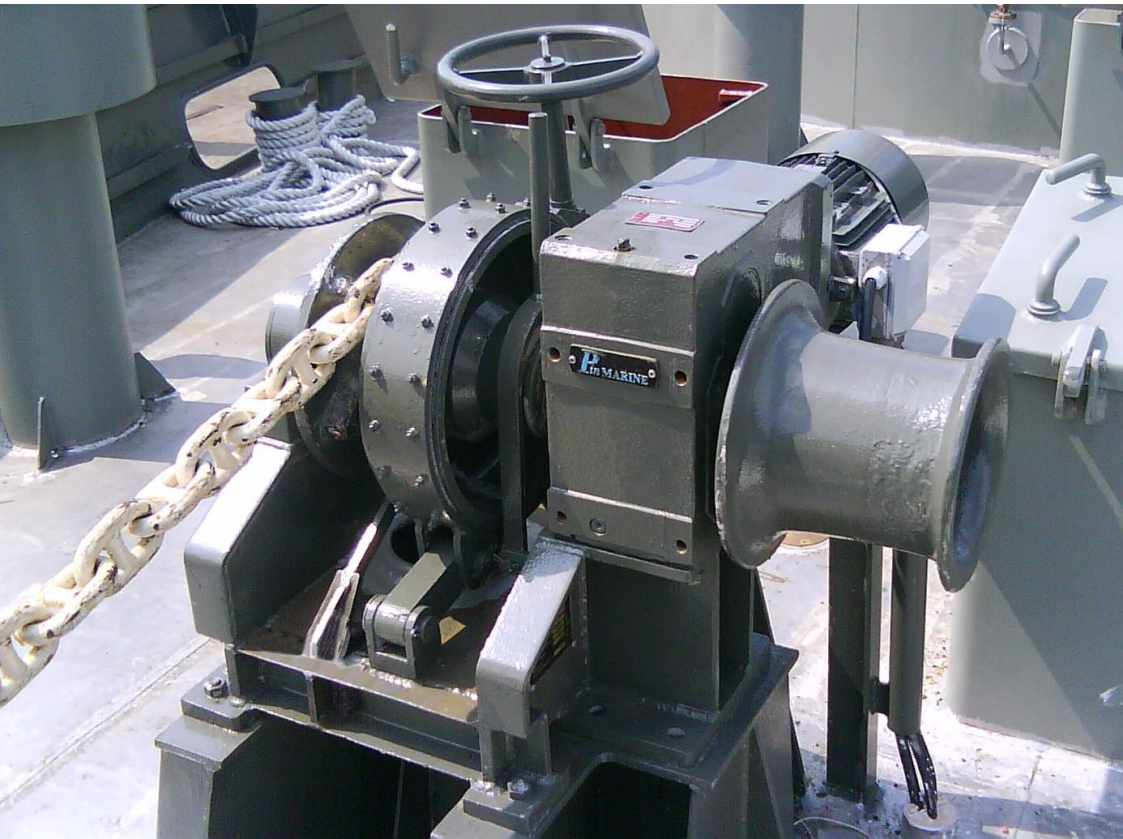
AHT / AHTS

- Windlass / Combination Windlass
- Chain Stoppers
- Mooring Winches
- Tugger Winches
- Capstans
- Cranes
- Anchor Handling / Towing Winches
- Steering Gears



DECK MACHINERY

- WINDLASS ●
- RAMP/MOORING/TUGGER WINCH ●
- ANCHOR HANDLING/TOWING WINCH ●
- CAPSTAN ●



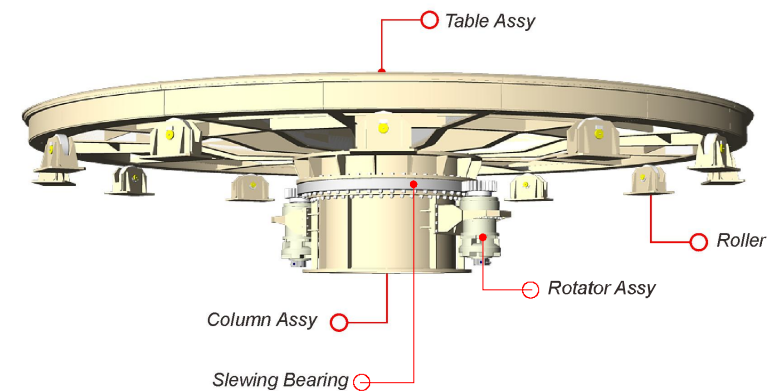
OTHER PRODUCTS

TURNTABLE

Pinmarine Turntable designed can be customized to needs of your Vessel. Turntable consists of five main parts: Table Assy, Column Assy, Rotator Assy, Slewing bearing and power system (Electrical or hydraulic system). Material used mild steel with painting surface finish

FEATURES:

- Capacity : up to 90 tons
- Dimension : up to 9 Mtrs diameter
- Slewing Degree : 360° rotation
- Materials : Mild Steel



OPTION:

- Winch Driver : Electric or hydraulic system



OTHER PRODUCTS

ACCOMODATION LADDER

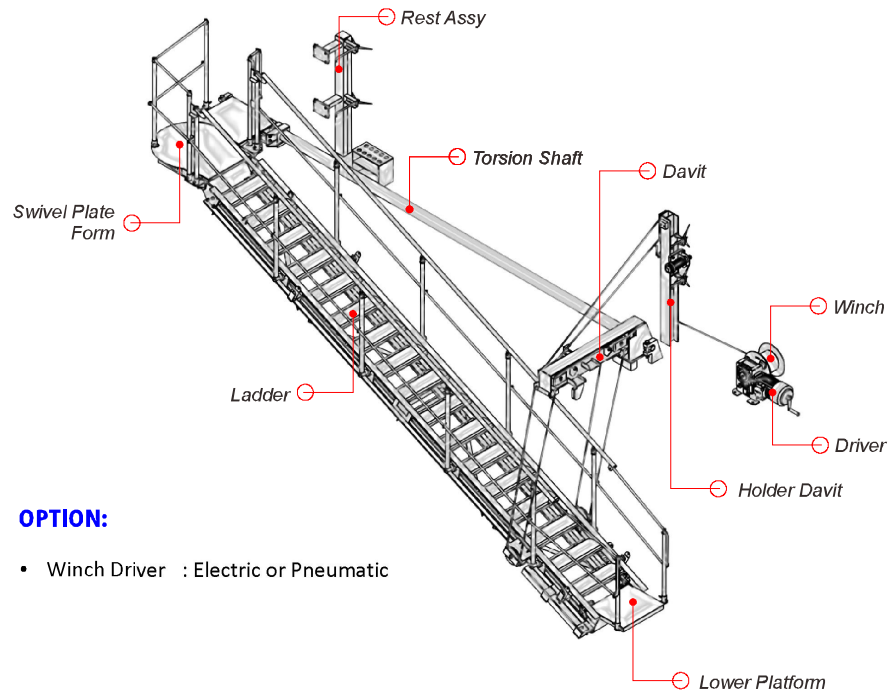
Pinmarine Accomodation Ladder designed up to 9 M with rugged construction and meet to ISO 5488:1979 and ISO 7364 standards.

Our desined can be customized to needs of your Vessel.

The Accomodation Ladder consists of five main parts: Holder Davit, Davit, Swivel Plate Form, Torsion Shaft and Ladder. The material used allumunium alloy and mild steel with surface finish in hot dip, and thus more resistant to corrosion.

FEATURES:

- Size : Up to 9 M (Length between center of rotation)
- Working Angle : 25° up to 55°
- Materials : Alumunium Alloy and Mild Steel



OPTION:

- Winch Driver : Electric or Pneumatic

DECK MACHINERY

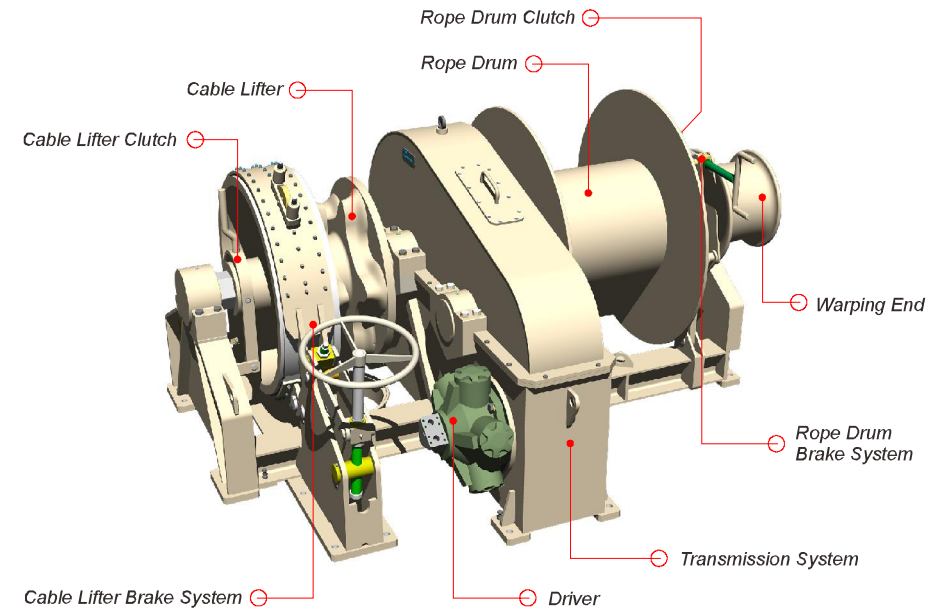
WINDLASS

Pinmarine Windlass offers a variety of styles and sizes to handle the needs of your anchor application.

Our Windlass designed up to 52 mm chain and with a variety of configurations, such as single /

double Windlass or combination with mooring winches or fit your needs (customized).

Our Windlass design meets the requirements of national and international classification societies.



FEATURES:

- Drive : Electric or Hydraulic
- Chain size : Up to 52 mm
- Clutch : Manually Operated
- Brake : Manually Operated Band Brake
- Control : Local and/or Remote
- Configuration : Single or Double & Combination

OPTION:

- With or without Warping End
- With or without Rope Drum
- With or without Chain Stopper
- Hydraulic Operated Brake
- With or without Hydraulic Power Unit

**MOORING WINCH
RAMP WINCH
TUGGER WINCH**

DECK MACHINERY

TOWING HOOK

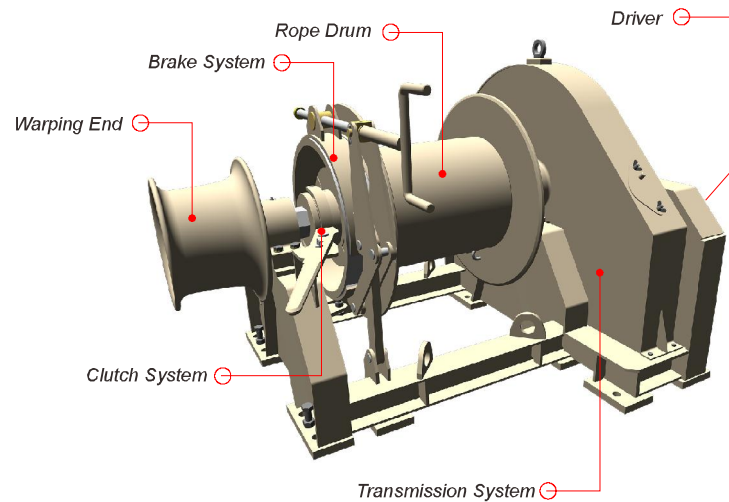
OTHER PRODUCTS

Pinmarine Mooring/Ramp/Tugger winches can be supplied with a pulling capacity up to 10 tons and are available in single or double drum configuration, also split drums or fit your needs (customized).

The operating our winches mechanism for brakes and clutches are designed for easy and safe

manual operation, but may also be remotely operated by hydraulic cylinders. The brakes are easily adjustable.

Our Winches design meets the requirements of national and international classification societies.



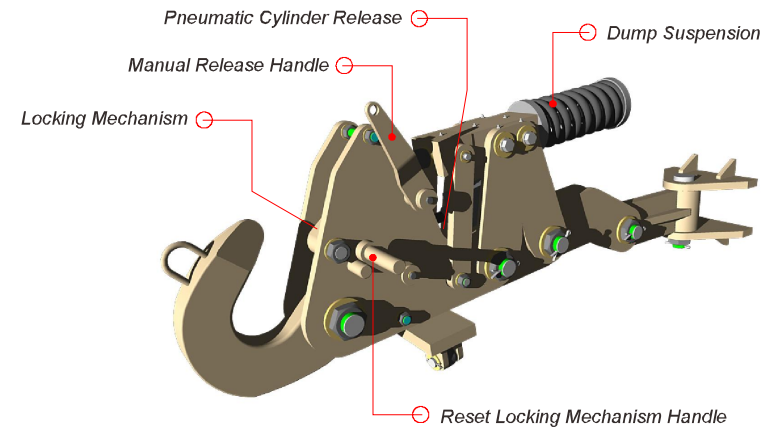
FEATURES:

- Drive : Electric or Hydraulic
- Rated pull : Up to 10 Tons (1st layer)
- Clutch : Manually Operated
- Brake : Manually Operated Band Brake
- Control : Local and/or Remote
- Configuration : Single or Double, also Split drum

OPTION:

- With or without Warping End
- With or without Split Drum
- Hydraulic Operated Brake
- With or without Hydraulic Power Unit

Pinmarine offers a variety of sizes and configurations Towing Hook suitable for the needs of your Vessel. Our products are designed up to 45 tons with two configuration for releases, Manually and Pneumatic Releases and options for vertical movement.

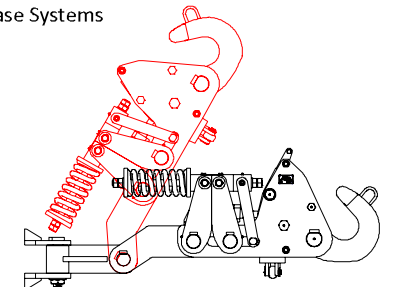


FEATURES:

- Capacity : Up to 450 kN
- Degree of Horizontal : -45° up to 45°
- Configuration : Manually or Pneumatic Release Systems

OPTION:

- Degree of Vertical: 0° - 60°

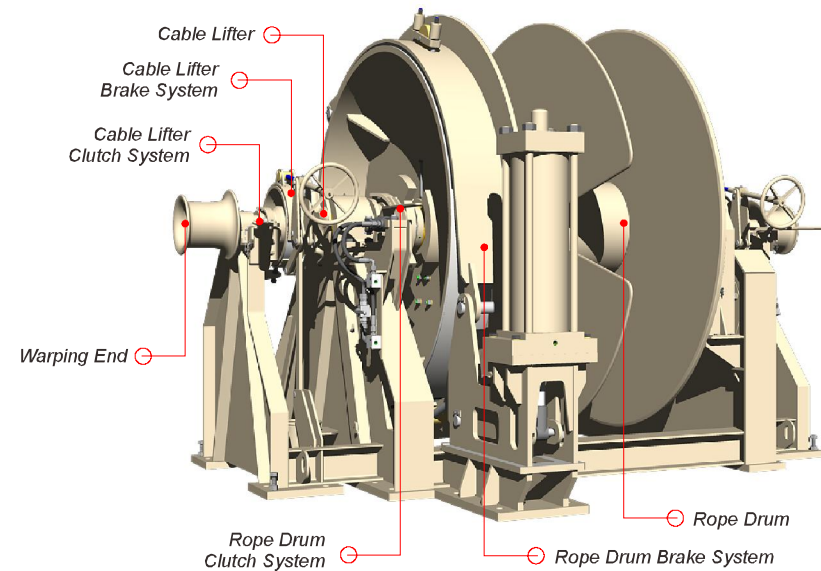


OTHER PRODUCTS

- TOWING HOOK
- ACCOMODATION LADDER
- TURN TABLE



DECK MACHINERY ANCHOR HANDLING/TOWING WINCHES



Pinmarine offers a variety of Anchor Handling & Towing winches. Our Winches designed up to 52 tons pull rated and it can be delivered with single or double drum in waterfall or linear design with single, double or four drums, also split drums.

The operating our winches mechanism for brakes and clutches are designed for easy and safe manual operation, but may also be remotely operated by hydraulic cylinders and we delivered with local control stand.

Our Winches design meets the requirements of national and international classification societies.

FEATURES:

- Drive : Electric or Hydraulic
- Rated pull : Up to 50 Tons (1st layer)
- Clutch : Manually Operated
- Brake : Hydraulically Operated Band Brake
- Control : Local and/or Remote
- Configuration : Single or Double & Combination

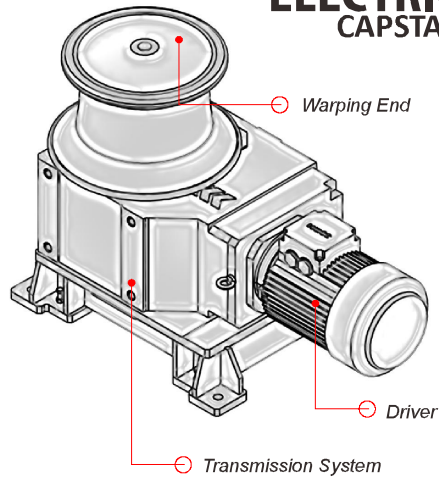
OPTION:

- With or without Warping End
- With or without Split Drum
- Hydraulic Operated Clutch
- Configuration : Waterfall type
- With or without Hydraulic Power Unit

CAPSTAN

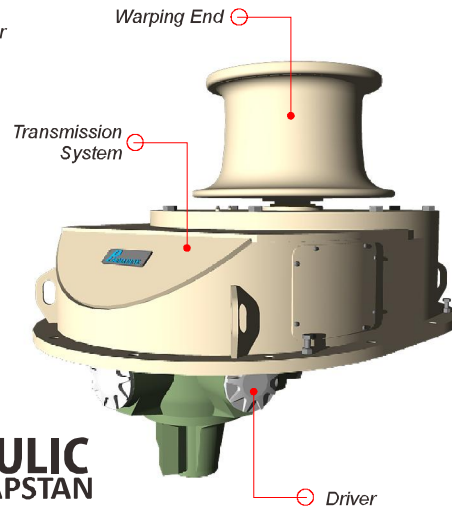
DOUBLE RUDDER

ELECTRIC CAPSTAN



Pinmarine Capstans are available with electric or hydraulic drive.

The main driver of electric Capstans is the motor with the gear unit, which may be positioned above or below of deck.



For hydraulic Capstans, the main driver is the hydraulic motor with the transmission system.

Our Capstans designed up to 10 tons rated pull and with a variety of design or fit your needs (customized).

HYDRAULIC CAPSTAN

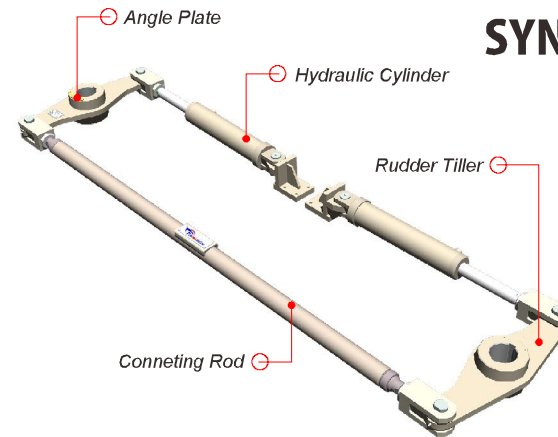
FEATURES:

- Drive : Electric or Hydraulic
- Warping Head : Made of cast steel
- Rated Pull : Up to 10 tons
- Configuration : Vertically Mounted

OPTION:

- With or without Hydraulic Power Unit

SYNCHRONOUS STEERING GEAR



For Double Rudder type, Pinmarine offers two configurations, namely Synchronous and Asynchronous (Independent) Steering Gears, both separately with Power Unit.

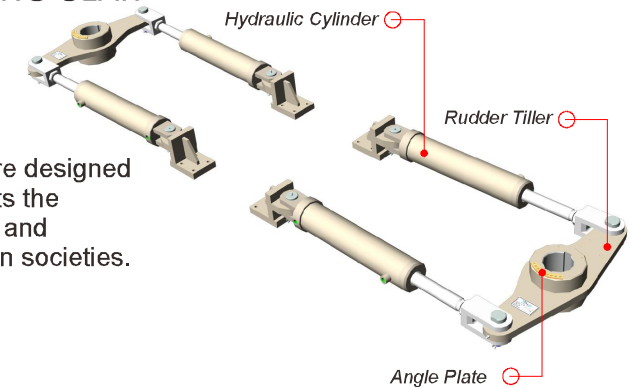
FEATURES:

- Capacity : Up to 200 kNM
- Rudder Laying Time : 26 seconds (35° Port to 35° Starboard)
- Configuration : Synchronous or Asynchronous (Independent)

OPTION:

- Emergency Power : Helm Pump with Header Tank

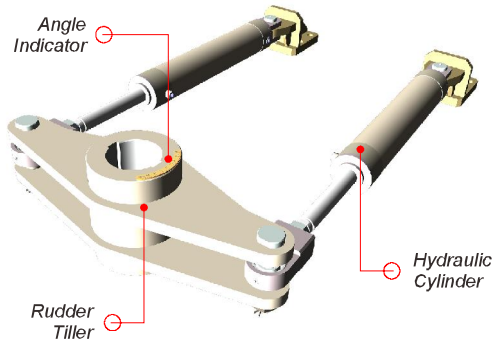
ASYNCHRONOUS STEERING GEAR



These Steering Gears are designed up to 200 kNM and meets the requirements of national and international classification societies.

STEERING GEAR

SINGLE RUDDER



Pinmarine offers two types of Steering Gears, namely single & double rudder, which is equipped with a Wheel House Control Panel, included the Rudder Angle Indicator, Power indicator, Overload alarm indicator, Low oil level indicator, Emergency stop, Joy stick and Angle Plate attached on the Rudder Tiller.

STEERING GEAR
With Separated Power Unit

FEATURES:

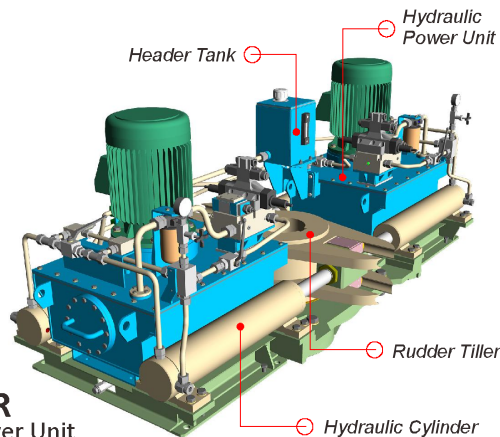
- Capacity : Up to 200 kNM
- Rudder Laying Time : 26 seconds (35° Port to 35° Starboard)
- Configuration : Separately or Integrated with Power Unit

OPTION:

- Emergency Power : Helm Pump with Header Tank

For Single Rudder type, we have two configurations, namely Separately and Integrated with Power Unit.

These Steering Gears are designed up to 200 kNM and meets the requirements of national and international classification societies.



STEERING GEAR
With Integrated Power Unit

CRANES

- SPARE PART/PROVISION CRANE
- SLUDGE CRANE
- CARGO HOSE HANDLING CRANE
- TELESCOPIC DECK CRANE
- BOAT/LIFE RAFT DAVIT

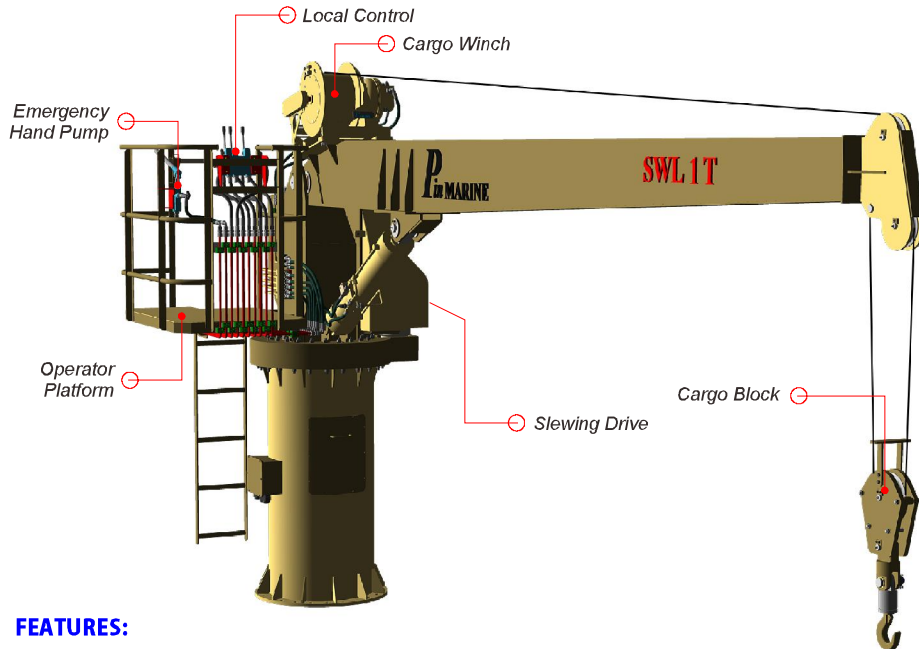


CRANES

SPARE PART/PROVISION CRANE

Pinmarine also offers various types of crane for your vessel, such as spare parts/provisions cranes. These cranes are designed up to 3 tons with 9 m long, rugged with strong basement ready for mounting and welding on vessel's main steel structure and meets the requirements of national and international classification societies.

Our cranes can be operated simultaneous operation of two or more functions and equipped Emergency stop device, also hand operated pump (Emergency Hand Pump) for release of brake on winch and slewing gear.



FEATURES:

- Safe Working Load : Up to 3 Tons x 9 M
- Slewing Angle : Up to 300°
- Max. Inclination : 55° - 75°
- Hoisting Speed : 5 - 12 M/min
- Hook Travel : Up to 25 M
- Cargo Winch : Included

OPTION:

- Cargo Winch : Hydraulic or Electric Driven
- Slewing Drive : Hydraulic or Electric Driven

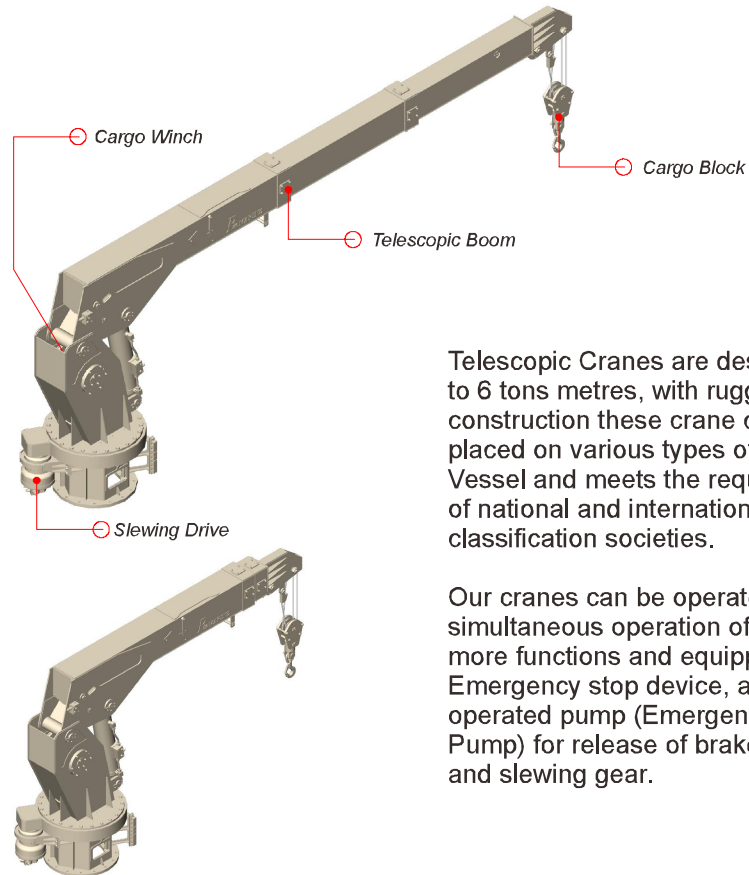
STEERING GEAR

- SINGLE RUDDER ●
- DOUBLE RUDDER ●



TELESCOPIC CRANE

SLUDGE CRANE



Telescopic Cranes are designed up to 6 tons metres, with rugged construction these crane can be placed on various types of your Vessel and meets the requirements of national and international classification societies.

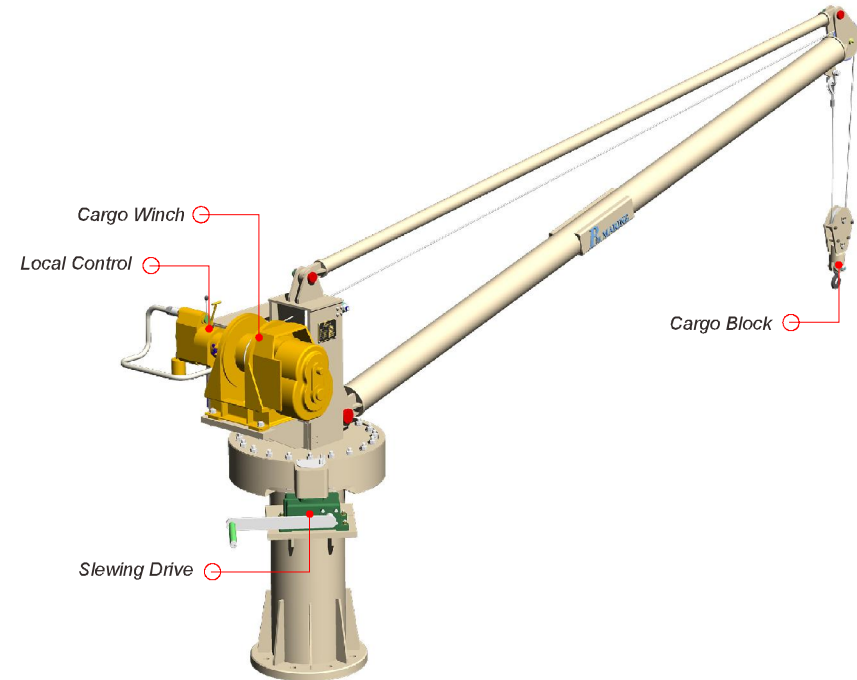
Our cranes can be operated simultaneous operation of two or more functions and equipped Emergency stop device, also hand operated pump (Emergency Hand Pump) for release of brake on winch and slewing gear.

FEATURES:

- Safe Working Load : Up to 6 tons meter
- Slewing Angle : Up to 360°
- Max. Inclination : 55° - 75°
- Hoisting Speed : 5 - 12 M/min
- Cargo Winch : Included

OPTION:

- Cargo Winch : Hydraulic or Electric Driven
- Slewing Drive : Hydraulic or Electric Driven



FEATURES:

- Safe Working Load : Up to 1 Ton x 5 M
- Slewing Angle : Up to 360°
- Hook Travel : Up to 15 M
- Cargo Winch : Included

OPTION:

- Cargo Winch : Hydraulic/Pneumatic or Electric Driven
- Slewing Drive : Hydraulic or Electric Driven or Manually

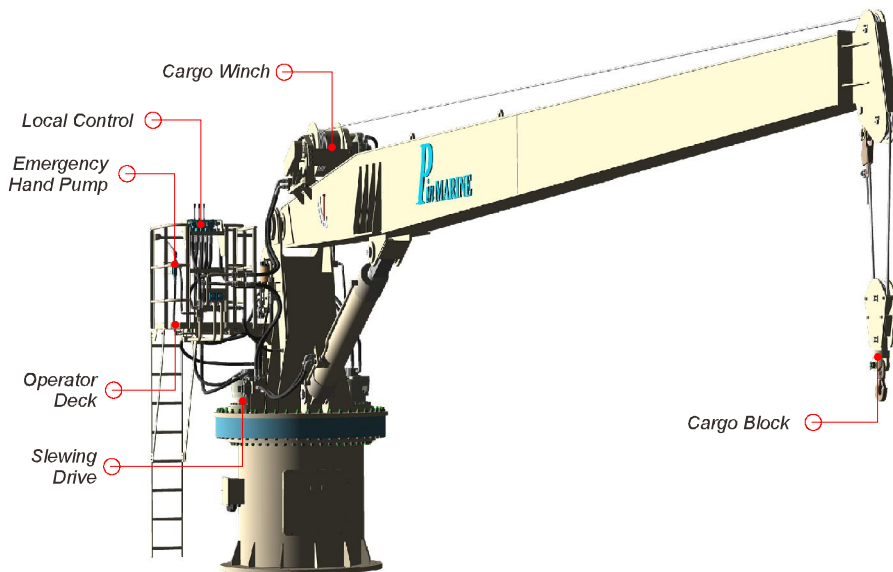
Sludge Cranes is another type offered by Pinmarine. With compact design but rugged construction, this crane can be operated manually and with various options drive on the cargo winch.

CRANES

CARGO HOSE HANDLING CRANE

Pinmarine Cargo Hose Handling Cranes are designed up to 15 tons with 15 M long, rugged structure made of certified steel with strong basement ready for mounting and welding on vessel's main steel structure, Bushes made of bronze and meets the requirements of national and international classification societies.

Our cranes can be operated simultaneous operation of two or more functions and equipped Emergency stop device, also hand operated pump (Emergency Hand Pump) for release of brake on winch and slewing gear.



FEATURES:

- Safe Working Load : Up to 15 Tons x 15 M
- Slewing Angle : Up to 300°
- Max. Inclination : 55° - 75°
- Hoisting Speed : 5 - 12 M/min
- Hook Travel : Up to 25 M
- Cargo Winch : Included

OPTION:

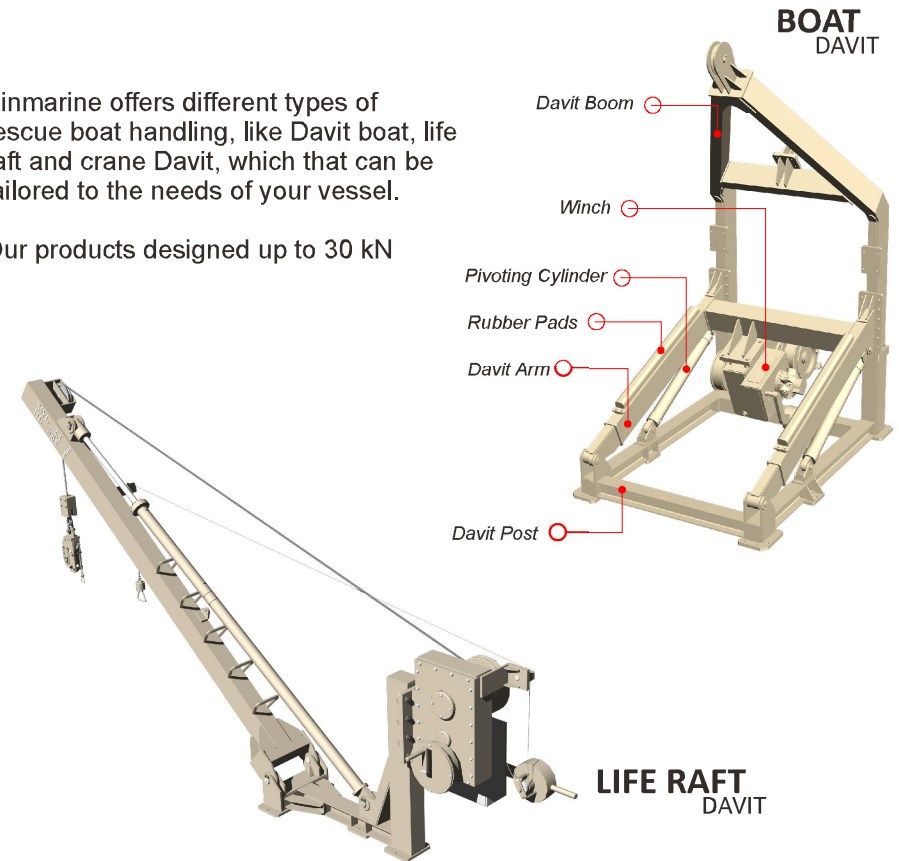
- Cargo Winch : Hydraulic or Electric Driven
- Slewing Drive : Hydraulic or Electric Driven

CRANES

LIFE RAFT/BOAT DAVIT

Pinmarine offers different types of rescue boat handling, like Davit boat, life raft and crane Davit, which that can be tailored to the needs of your vessel.

Our products designed up to 30 kN



FEATURES:

- Execution : Hydraulic pivoting A-frame davit "accumulated power"
- Safe Working Load (SWL) : Up to 30 kN
- Application : Rescue Boat Handling
- Outreach/Radius : ± 4050 mm
- Lowering Height : Approx. 20 M
- Recovery Speed : 18 M/min
- Winch : Included