OFFSHORE SOLUTIONS
www.dmt-winches.com

DMT
MARINE EQUIPMENT

NO CONCESSIONS ON QUALITY

All DMT winches are 100% in-house engineered at our ISO 9001:2008, 14001:2004, 18001:2007 certified office in Europe. The vast majority is built on custom basis and according to the requirements of naval class societies like DNV, BV, LR, RMRS and RINA.

High reliability and compact design are a must in harsh weather conditions as oftenly encountered during vessel operations.

Our closed gearboxes, sealed with water & leakage proof materials are designed to prevent spils, rust due to water spills and other weather based problems.

OUR PRODUCTS

We understand that a reliable product is essential for profitable, effective and safe vessel operations. We believe that quality is in the details and we continuously challenge ourselves and our beliefs to deliver what we promise: **a product that lasts a lifetime.**

Deck Fittings

Winches

Hose/Reel Winches

Dredging Systems

Taut Wire Systems

A-Frame

4/6/8/12 POINT MOORING SYSTEMS

DMT MARINE EQUIPMENT has impressive track records in Designing, Manufacturing, Installation and Commissioning of all kinds of winches for multiple industries according to the latest rules for Lifting Appliances in the marine environment.

For transferring Barges, Pontons, Ships, Jackups and Semi-Subs in open Sea, without a DP-system, a Constant Tension or Mooring system can be used.

The floating construction can be equipped with the following CTM (Constant Tension Mooring system):

CTM 4 - Four point mooring system

- 4 Winches are positioned in four corners. The floating construction can be transferred forwards, backwards and side ways with the help of fairleads, all at the same time.
- For small floating objects and low water level (up to abt. 20 mtr) DMT Spud Pole system can be used.
- The Mooring winches are provided with steel wire ropes and can be equipped with an auto Level Winding spooling device.

CTM 6 - Six point mooring system

- 6 Winches are positioned on each corner and the other two winches sidewards at SB and PS. The DMT CTM winches can be driven by Diesel Electro Hydraulic/ Electric power source.

CTM 8 - Eight point mooring system

- 8 Winches are positioned on each corner and 2 pcs. at SB and 2 pcs. at PS. This system is mainly mounted on Large Semi-Subs, and are also being used for anchoring.
- The winches are provided with 1000 to 2000 mtr steel wire and anchors will be dropped with the help of an Anchor handling supply boat.

THE FEATURES
OF OUR MOORING WINCHES

DMT supplies all the necessary elements for the 4/6/8/12 point systems, including swivels.

We have:

- No limits in pulling forces.
- High safety factor,Nominal pull at outer layer.
- Max.pull: at first layer.
- Static/ Hold pull: 3 x Nom.pull.
- Winch Design: 2 x Hold pull.
- Anchor handling, nom.line speed 0-10 m/min, Max.pull.
- Force 3,2 x Anchor weight and Braking out force 5 x A.weight.
- No limits in line speed.
- Every length of steel wire winded on the barrel in 8 nos layer.
- Large diameter of grooved barrel, saving the life time of the wire.
- Provided an Auto Level-Winding-Spooling (LWS) device.
- Simple deck mounting system.
- Enclosed drive system with grinded and hardened gear wheels.
- Band brakes designed, acc. to class rules.
- In house Engineering, Service & After sales.
- Direct mounted hydraulic motors with CB valves (absorbing the - Negative power-load to the circuit).
- Directly mounted Squirrel Cage Electric motors with Brake Resister system).
- Frequency convertors and the brake resistors provided with an air or water cooler.

6 POINT MOORING SYSTEMS MW-H600[kN]

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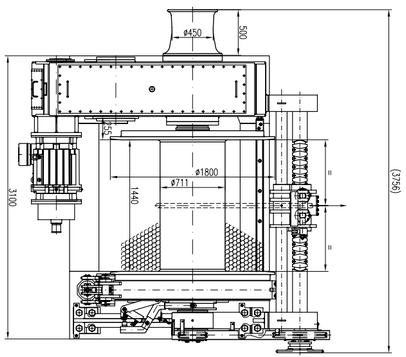
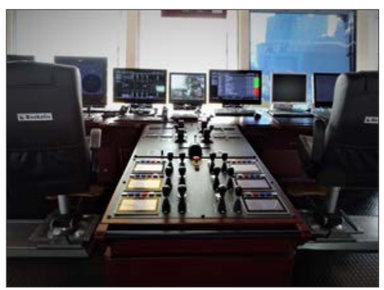
TECHNICAL CHARACTERISTICS

STEEL CABLE	ø48 mm
BRAKE HOLDING FORCE	1000[kN]
NOMINAL PULL	600 kN / 10 m/min
SLACK LINE SPEED	20/40 m/min
POWER	2 X 75[kW]
ROTATION	1200 rpm



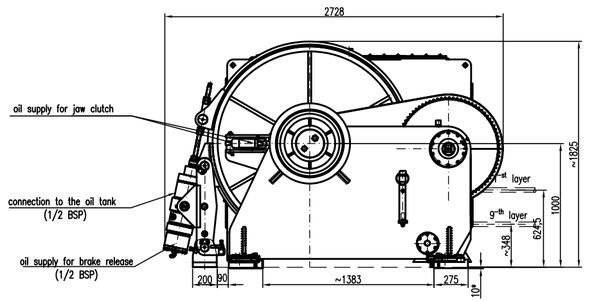
*This is an example from our portfolio. We can deliver any type of configuration according to client specifications.

VESSEL TYPE: CABLE LAYING VESSELS



6 POINT MOORING SYSTEMS MW-H500[kN]

VESSEL TYPE: CABLE LAYING BARGE



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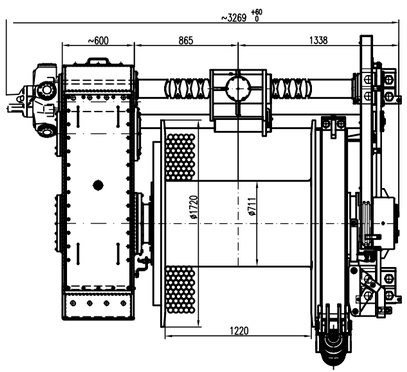
TECHNICAL CHARACTERISTICS

STEEL CABLE	ø40 mm
BRAKE HOLDING FORCE	1250[kN]
HIGH PULL/LOW SPEED	500[kN] / 13 m/min
LOW PULL/HIGH SPEED	140[kN] / 30,5 m/min

4 POINT MOORING SYSTEMS MW-H580[kN]

TECHNICAL CHARACTERISTICS

STEEL CABLE	ø44 mm
BRAKE HOLDING FORCE	1350[kN]
HIGH PULL/LOW SPEED	580[kN] / 10,5 m/min
LOW PULL/HIGH SPEED	140[kN] / 28.5 m/min



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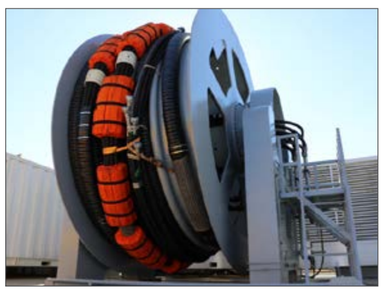
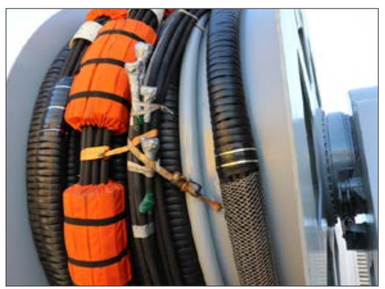
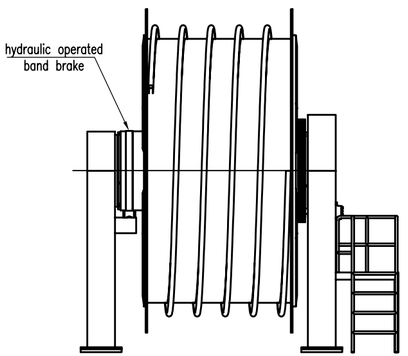
VESSEL TYPE: JACK UP BARGE

VESSEL TYPE: SHALLOW WATER PIPE LAYING BARGE







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HOSE/REEL WINCHES HW-H50[kN]

TECHNICAL CHARACTERISTICS

DRUM

DIAMETER OF UMBILICAL HOSE	Ø 306 mm
NOMINAL PULL	50[kN]
STORAGE CAPACITY	100 m / 2 layers
TOWING SPEED	10 m/min

DRIVE

DISPLACEMENT	4343 cm^3 / rev
ROTATION	7 rpm
NOMINAL PRESSURE	207 bar

UMBILICAL WINCH
UW-010-E60[kN]

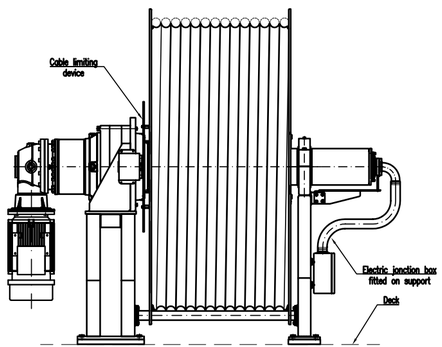
TECHNICAL CHARACTERISTICS

DRUM

ROPE/CABLE SIZE	Ø 67.7 mm
NOMINAL PULL	60[kN]
STORAGE CAPACITY	85 m / 1 layer
BRAKE HOLDING FORCE	1.5

DRIVE

POWER	1.8/7.2[kW]
ROTATION	450/1800 rpm
SUPPLY	440 V / 60 Hz



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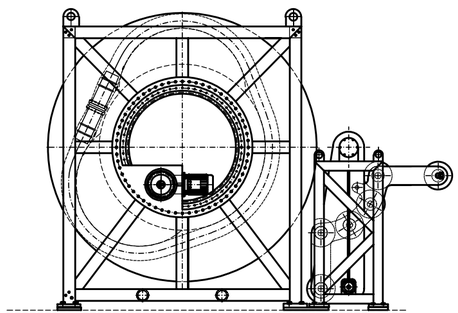
VESSEL TYPE: JACK-UP VESSEL

VESSEL TYPE: JACK-UP BARGE

HOSE WINCH
Ø 183mm



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TECHNICAL CHARACTERISTICS

DRUM

STORAGE CAPACITY	80 m / 3 layers
NOMINAL PULL	10[kN]
NOMINAL SPEED	2 m/min

DRIVE ELECTRIC

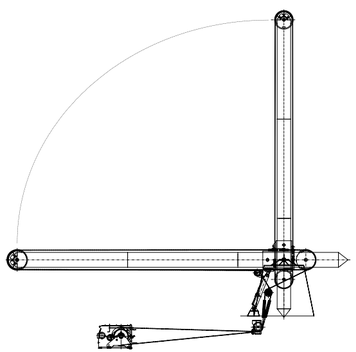
POWER	3[kW]
ROTATION	750 rpm
SUPPLY	3 x 450V/60Hz

SPUD POLE SYSTEMS
SPW-E85[kN]

The spud winch system is provided with two spud winches, fixed in the bow, intended to keep the barge at fixed position, and another spud winch in the stern, which is intended to move the barge during dredging operation.
The winches are electrically driven and used to lift and lower the spud poles.

The spud winch system consists of the followings components:

- Spud assembly fore side
- Winch fore side
- Guiding case fore side
- Spud assembly fore side
- Winch fore side
- Guiding case
- Movement cylinders
- Spud assembly aft side
- Winch aft side
- Guiding case Aft side



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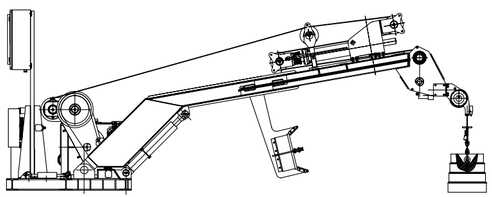
VESSEL TYPE: DREDGER

VESSEL TYPE: MULTI PURPOSE SALVAGE VESSEL



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TAUT WIRE SYSTEM TWS-20[kN]

TECHNICAL CHARACTERISTICS

DRUM

STEEL CABLE	500 m / 7 layers
NOMINAL PULL/SPEED	4 kN / 150 m/min

DAVIT ELECTRO -HYDRULIC DRIVEN

NOMINAL PRESSURE	200 bar
POWER	4[kW] - 380V/50Hz

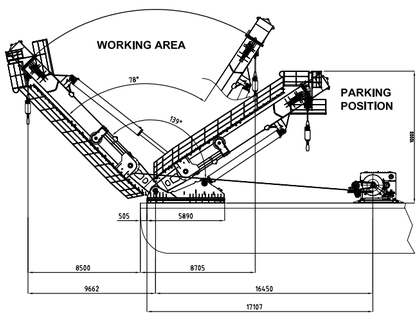
ELECTRIC DIVEN

POWER	11 kW
ROTATION	3000 rpm
SUPPLY	380 V / 50 Hz

A-FRAMES
SWL- 60T

TECHNICAL CHARACTERISTICS

SWL:	60 t at 8.5 m (Outboard) / 60 t at 8.7 m (Inboard)
WORKING CONDITION:	Offshore/Subsea
DYNAMIC FACTOR:	1.3 (Offshore calm water)
DYNAMIC FACTOR:	1.7 (Subsea)
MAX. HEEL / TRIM:	2 / 5 (Offshore calm water)
MAX. HEEL / TRIM:	3 / 6 (Subsea)
MAX. WORKING RADIUS (Outboard):	8.5 m
MAX. WORKING RADIUS (Outboard):	8.7 m
CERTIFICATION:	DNV
DESIGN TEMPERATURE:	-20°C to +45°C



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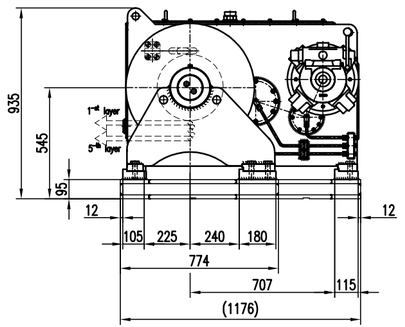
VESSEL TYPE: SHALLOW WATER PIPE LAYING BARGE

VESSEL TYPE: PIPELAY BARGE

A View



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AIR WINCHES TGW-A50[kN]

TECHNICAL CHARACTERISTICS

CABLE DRUM OPERATION

STEEL WIRE ROPE	Ø 22 mm
STORAGE CAPACITY	150 m / 5 layers
NOMINAL PULL / 1st LAYER	50[kN]
NOMINAL SPEED / 1st LAYER	0 ÷ 9,7 m/min
NOMINAL PULL / 3rd LAYER	41,5[kN]
NOMINAL PULL / 3rd LAYER	0 ÷ 11,8 m/min
BRAKE HOLDING FORCE / 1st LAYER	100[kN]

DRIVE

ROTATION	0 ÷ 1480 rpm
NOMINAL FLOW	190 l / sec
NOMINAL PRESURE	6 bar
MAXIMUM PRESSURE IN SYSTEM	8 bar

ANCHOR MOORING WINCH AMW 111-E30K3

TECHNICAL CHARACTERISTICS

CHAIN LIFTER

NOMINAL PULL	57[kN]
NOMINAL SPEED	11 m/min
BREAK OUT PULL	64.2[kN]
BRAKE HOLDING FORCE	331[kN]

MOORING

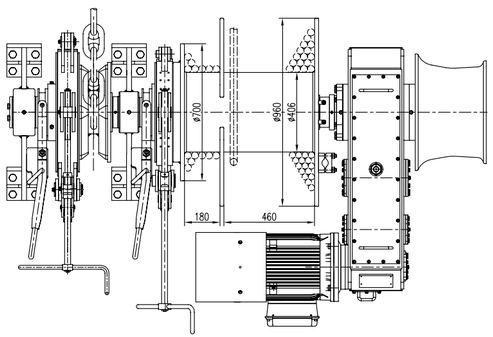
NOMINAL PULL 1st LAYER	60/30[kN]
NOMINAL SPEED 1st LAYER	0...12.5 m/min
BRAKE HOLDING FORCE	144[kN]

WARPING HEAD

NOMINAL PULL	55[kN]

DRIVE ELECTRIC

POWER	15[kW]
ROTATION	1450 rpm6 bar
SUPPLY	400V/50Hz



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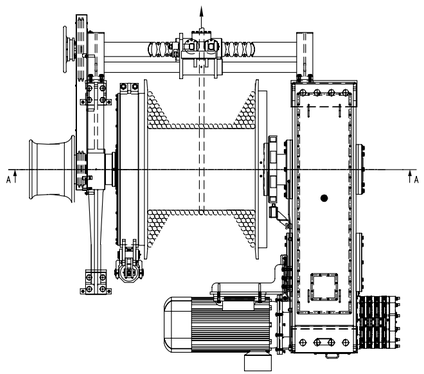
VESSEL TYPE: OFFSHORE PATROL VESSEL

VESSEL TYPE: OFFSHORE SUPPORT VESSEL



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ESCORT TOWING WINCH ETW-E500[kN]

TECHNICAL CHARACTERISTICS

RECOVER	
NOMINAL PULL / 1st LAYER	500[kN]
NOMINAL SPEED / 1st LAYER	0...20 m/min
RENDERING	
NOMINAL PULL / 1st LAYER	150-500[kN]
NOMINAL SPEED / 1st LAYER	0...50 m/min
DRUM	
STORAGE CAPACITY	800 m / 9 layers
BRAKE HOLDING FORCE	1500 [kN]
WARPING HEAD	
NOMINAL PULL	115 [kN]
NOMINAL SPEED	13 m/min
DRIVE ELECTRIC	
POWER	200 [kW]
ROTATION	1780 rpm
SUPPLY	440 V/60 Hz

MOORING WINCH
MW-010-H700[kN]

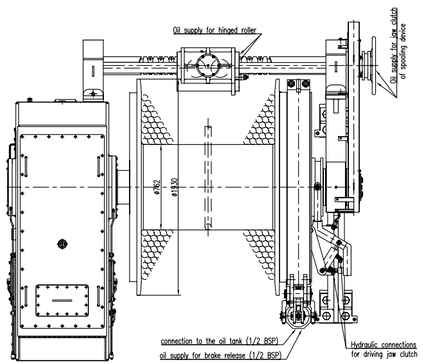
TECHNICAL CHARACTERISTICS

MOORING

HIGH PULL 1st LAYER	700[kN]
LOW SPEED 1st LAYER	7 m/min
LOW PULL 1st LAYER	215[kN]
HIGH SPEED 1st LAYER	20 m/min
BRAKE HOLDING FORCE	1752 [kN]

DRIVE HYDRAULIC

ROTATION	59/163 rpm
NOMINAL FLOW	280 l/min
NOMINAL PRESSURE	225 bar



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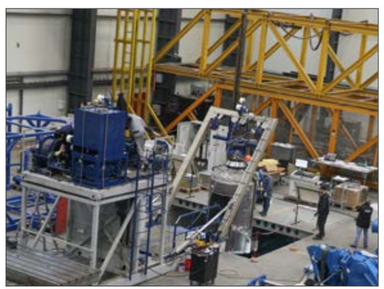
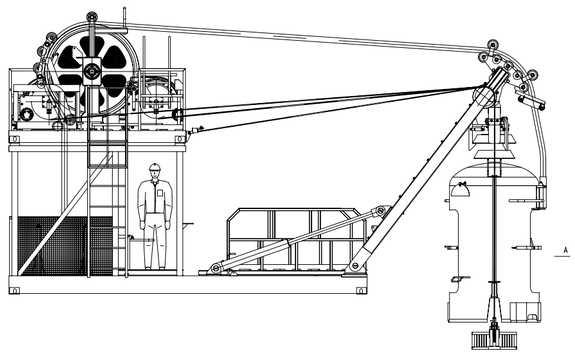
VESSEL TYPE: CRANE BARGE

VESSEL TYPE: SUBSEA CONSTRUCTION VESSEL





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WET BELL HANDLING SYSTEM WBHS.3-100

This is an open wet bell handling system that allows three divers to work at a depth of up to 60 metres. It is designed for intermittent operations for undefined periods.

The temperature range of the system : 0° C +35° C

The system is hydraulic driven and consists of the following's components:

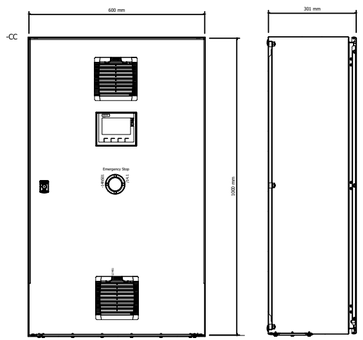
- Base frame
- Top frame
- Power sheave for umbilical
- Adjusting platform
- Hydraulic cylinder
- A frame assembly
- Open wet bell
- Clump arrangement
- Ladder
- Clump winch
- Bell winch

ELECTRIC CONTROL STATION ATTACHED TO THE HPU FOR TOWING WINCH TW 020-H180[kN]

Purpose: for control of E-motors, EM brakes and anti-condense heating, with direct starting, intended to be placed under deck, insulated class IP54.

Consisting in:

- Steel enclosure, powder coated, for under deck mounting;
- Main switch;
- Frequency convertor ~ 55 kW;
- Frequency working range: 0-155 Hz (~1000 r.p.m. at 50 Hz, ~3055 r.p.m. at 155 Hz);
- 2 x electric motor starters complete for HPU 2x5,5 kW
- Cooling / heating;
- Siemens PLC;
- Control voltage circuit 24 VAC or 24 VDC;
- Digital readout on door;
- Indication for: main power on, heating on, terminal failure, brake resistance overheated;
- All primary and secondary protections / fuses etc;
- All electric connections for hydraulic manifold for winch control(brake, clutch, brake quick release).



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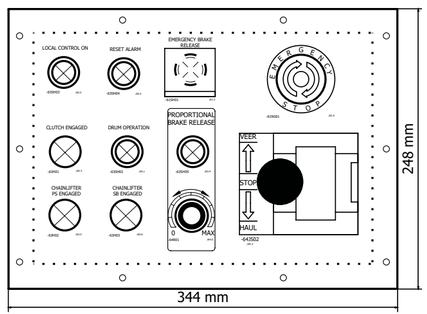

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LOCAL DECK CONTROL

Also at local control panels simplified designed is kept to offer easiest way to the winch functions.
The panel is mounted on a stainless steel pedestal and protected by a lockable cover.

Mostly every bridge plate can have the follow:

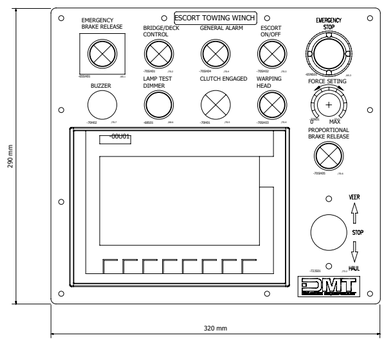
- Emergency stop button
- Warning light, local control active
- Push button EMY-brake release (protected by a hinging cover)
- Joystick pay-out / hauling
- Joystick clutch / brake release.

BRIDGE CONTROL BOARD

The bridge panel is equipped to allow the operator to perform all winch operations.
It contains also warning lights that will indicate HPU warnings and alarms.

One wheelhouse control panel with the main features:

- Emergency Brake release button
- Bridge/deck control
- Lamp test dimmer
- General alarm
- Clutch engage lamp
- Escort On/off pushbutton lamp
- Warping head pushbutton lamp
- Emergency stop
- Potentiometer for force setting
- Proportional brake release
- Joystick for veer/haul
- HMI with 9 pages



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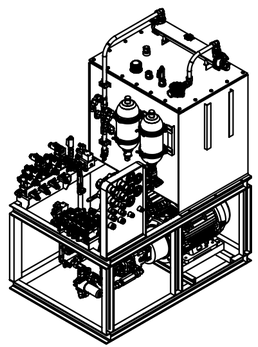

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HYDRAULIC POWER UNITS

TECHNICAL CHARACTERISTICS

HYDRAULIC POWER UNIT & CONTROL SYSTEM

ELECTRICAL MOTOR	2 X 11[kW]
HYDRAULIC PUMP MAIN POWER	2 X 18 ccm - max. 240 bar @ 50 l/m
HYDRAULIC PUMP BRAKE, CLUTCH & DISSPLACEMENT CONTROL	2 x 4.5 ccm - max. 180 bar@12l/m

HPU custom designed for controling 2 anchor mooring winch and 2 towing winches.

- proportional manifold for haul/veer
- valve block for controlling brake and clutch
- valve block for emergency release
- valve block for proportional band brake
- independent control of all winches

THE BEST IS ONLY POSSIBLE WITH YOU AS VALUED CLIENT

We are able to supply the best equipment that money can buy and we owe that to our valued clients who challenge us to rise the highest standards in order to prevent downtimes, high maintenance costs, rusty equipment on board. Thanks to many years of practical experience and research, our team, one step at a time, with feedback from clients, has created the best products available on the market.

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