



D R E D D G I N G

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DMT
MARINE EQUIPMENT

MAJOR PROJECTS

We hereby proudly present a few examples of our major projects.

DURABLE AND SUSTAINABLE EQUIPMENT FOR YOUR DREDGING VESSEL

Over the years, we have manufactured a diversity of steel products for many different shipping & offshore principals. Through professionally supervised production processes in Europe, we serve our clients with high quality construction capacity. Supported by our in-house engineering department we can provide a total production outsourcing solution.



Vessel: Cutter Suction Dredger
Country: USA



Vessel: Dredging Vessel
Country: Russia



Vessel: Dredger
Country: The Netherlands



Vessel: Backhoe Dredger
Country: Finland



Vessel: Dredger
Country: The Netherlands

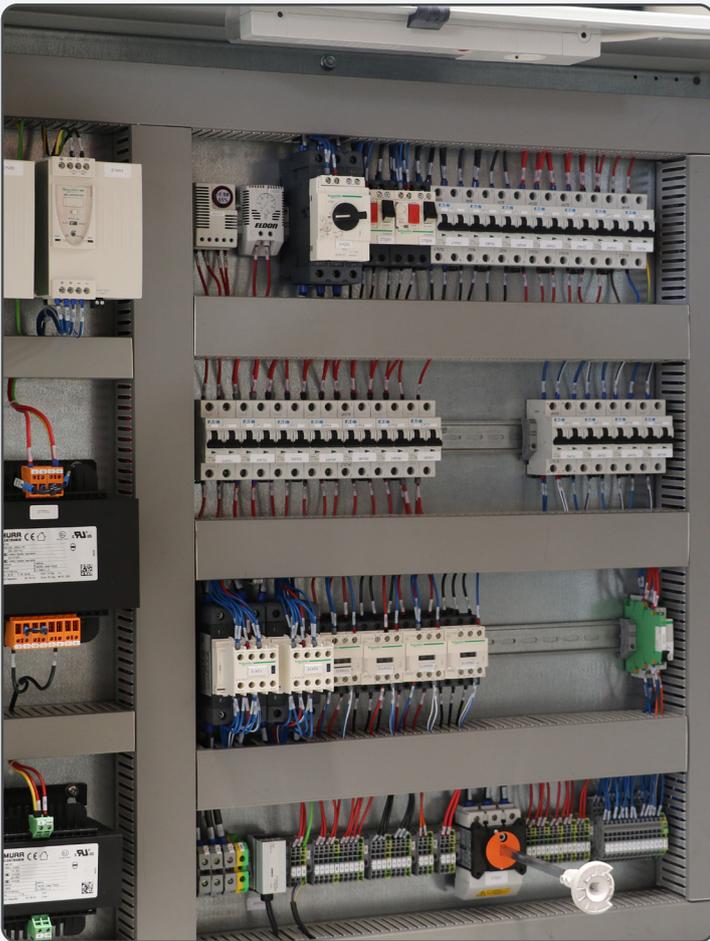


Vessel: Dredging Vessel
Client: Ukraine

As a trustworthy partner, we are proud to have provided our customers high quality, long-lasting products to ensure reliable support in their activities. Among the products that we have delivered for the dredging field we can mention: **winches, valves, drag heads, trailing suction pipes, turning glands, cardans and single hinges.**



Vessel: Dredger
Country: The Netherlands



Cutter Suction Dredger, USA

Delivered equipment:

- Spud Hoist Winch 030-E535[kN]
- Electric Station, Local Control & Wheelhouse 500

TECHNICAL CHARACTERISTICS

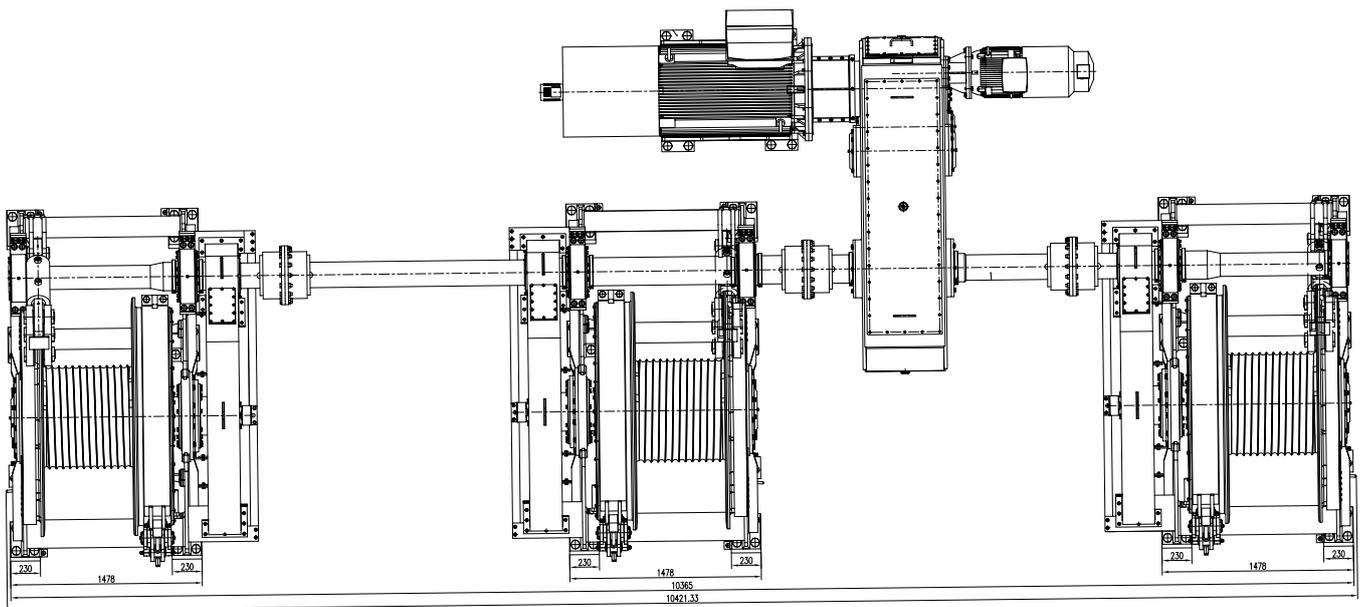
Spud Hoist Winch 030 - E535[kN]

Three drums electric driven winch with pneumatic activated friction brakes and friction clutches.

Working modes of the winch:

1. Moving the vessel by pulling the anchors
2. Spuds "Quick release"

| | |
|---|-------------------|
| Nominal pull @ 2 nd layer (on each drum): | 535 kN |
| Nominal speed @ 2 nd layer: | 0 - 9.14 m/min |
| Max. speed @ 2 nd layer (working with 1 drum): | 0 - 30.5 m/min |
| Storage capacity of steel wire on each drum: | 457 m / 11 layers |
| Steel cable diameter: | 46 mm |
| Brake holding force @ 2 nd layer: | 1.078 [kN] |



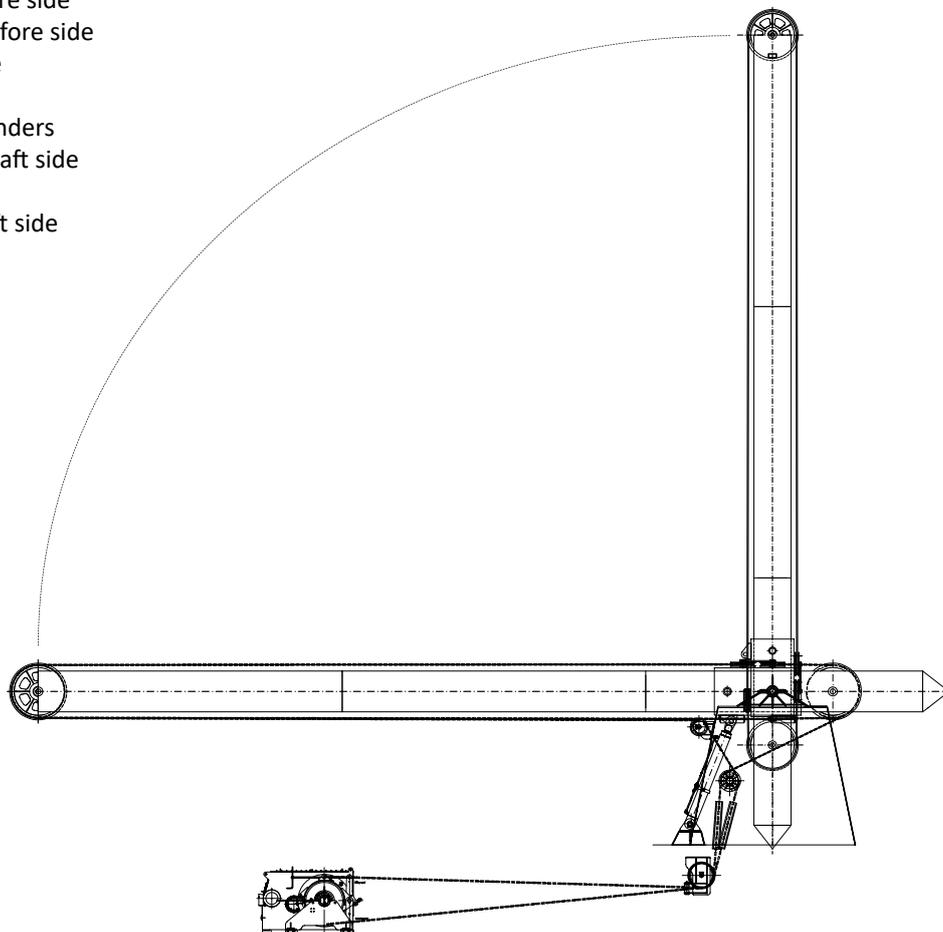
Spud Pole Systems SPW E-85[kN]

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 following 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





Self-Propelled Dredging Vessel, Ukraine

Delivered equipment:

- Spud Pole Winch SPW-E85[kN]
- Stationary spud pole assembly (fore)
- Pivoting spud pole assembly (aft)
- Electro-hydraulic Steering System
- Control and HPU 2x55[kW]



Backhoe Dredger, Finland

Delivered equipment:

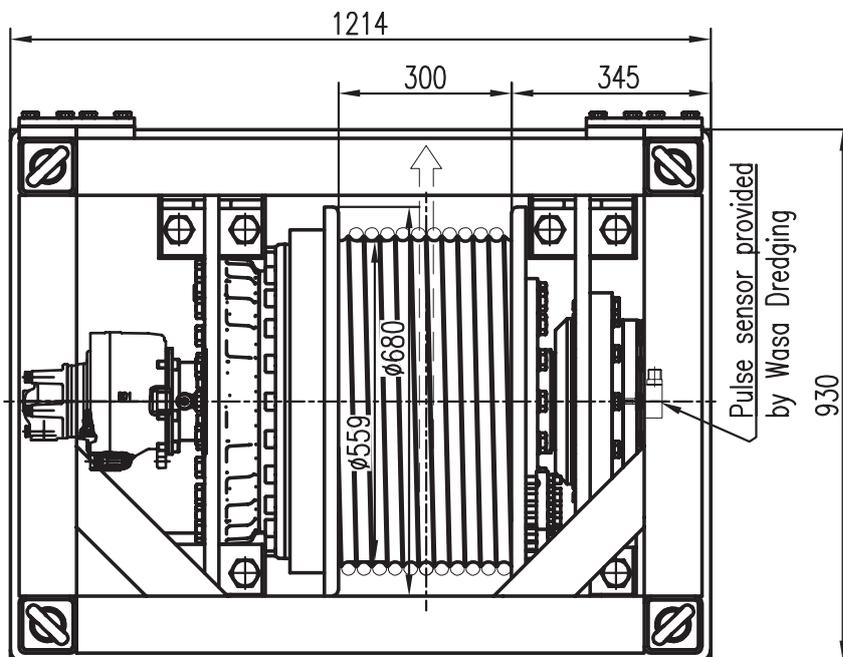
- Mooring Winch MW-010-H250[kN]

TECHNICAL CHARACTERISTICS

Mooring Winch MW-010-H250[kN]

The hydraulically operated mooring winches are used for manoeuvring the vessel while docking by means of mooring drums. The winch consists of the following components: supports, planetary reduction gear, driving hydraulic motor & brake, grooved mooring drum.

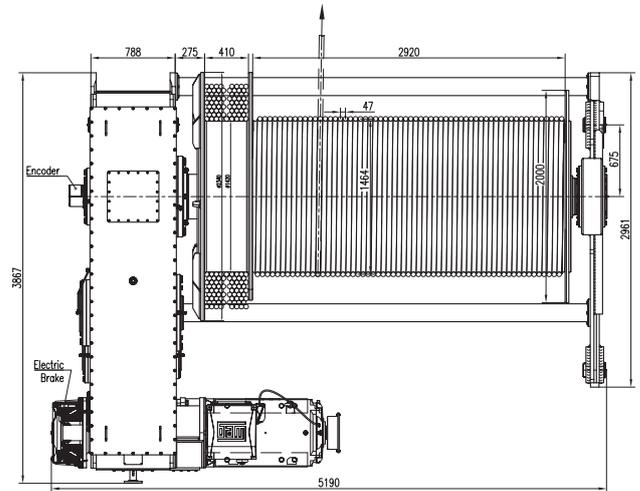
| | |
|-------------------------------------|----------------|
| High pull @ 1 st layer: | 250 [kN] |
| High speed @ 1 st layer: | 21.5 m/min |
| Storage capacity: | 20 m / 1 layer |
| Brake holding force: | 380 [kN] |
| Hydraulic drive - rotation: | 0-1855 rpm |



TECHNICAL CHARACTERISTICS

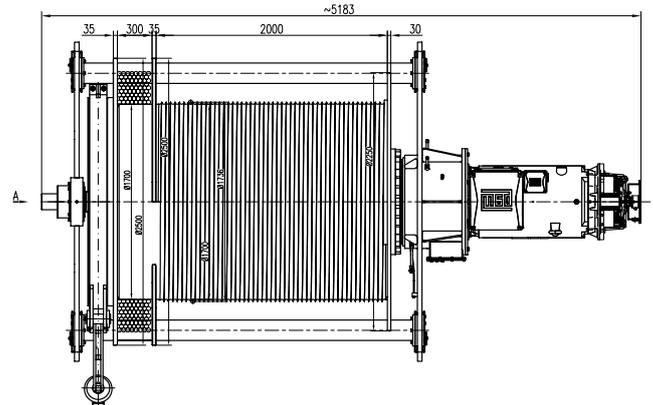
Side Wire Winch SWW-E450[kN]

Nominal pull: 450 [kN]
 Nominal Speed: 0-23 m/min
 Storage Capacity: 250 m / 1 layer
 Brake Holding Force: 610 [kN]
 Electric Drive -
 Power/Speed: 200 [kW]/1000 rpm



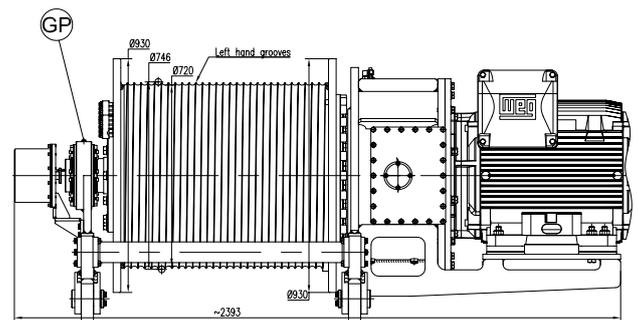
Anchor Hoist Winch AHW-E170[kN]

Nominal pull: 175 [kN]
 Low Speed: 0-22.7 m/min
 Storage Capacity Working Part: 250 m / 1 layer
 Total Brake Holding Force: 485 [kN]
 Electric Drive -
 Power/Speed: 75 [kW]/1000 rpm



Anchor Boom Guy Winch ABGW-E50[kN]

Nominal pull: 50 [kN]
 Nominal Speed: 0-12 m/min
 Storage Capacity: 150 m / 2 layer
 Brake Holding Force: 149 [kN]
 Electric Drive -
 Power/Speed: 22 [kW]/1000 rpm





Dredger, The Netherlands

Delivered equipment:

- Side Wire Winch SWW-E450[kN]
- Anchor Hoist Winch AHW-E170[kN]
- Anchor Boom Guy Winch ABGW-E50[kN]
- Cooling Units



Dredger, The Netherlands

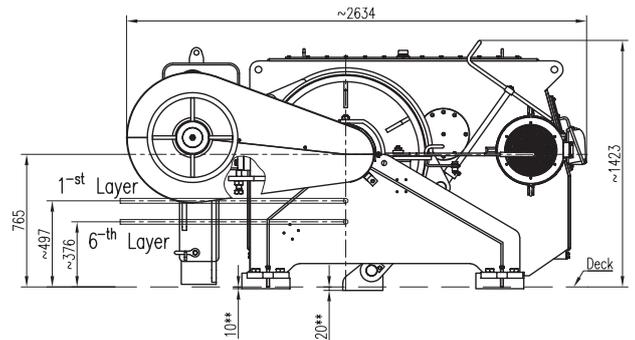
Delivered equipment:

- Anchor Mooring Winch AMW-121-H50K3
- Mooring Winch 020-E118[kN]
- Spooling Winch SW-H200[kN]
- Head Block Winch HBW 010-H240[kN]
- Middle Block Winch MBW 010-H240[kN]
- Anchor Mooring Winch AMW-120-H50K3
- Pilot Ladder Winch PLW-3[kN]
- Bow Coupling Winch BCW-H250[kN]

TECHNICAL CHARACTERISTICS

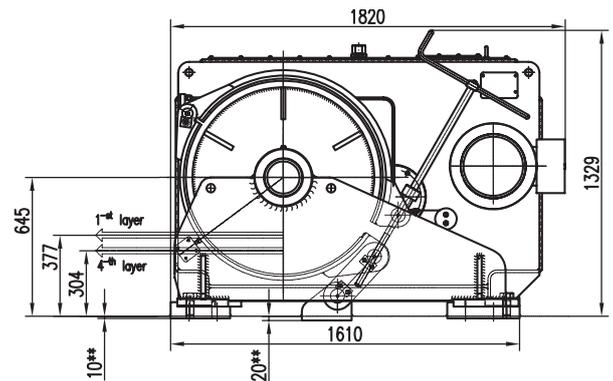
Slipway Mooring Winch 010-E130[kN]

High pull 1st layer: 195[kN]
 Low Speed: 0 - 7 m/min
 Storage capacity: 300 m / 6 layers
 Brake holding force: 786 [kN]
 Electric drive -
 power/speed: 30 [kW]/1470 rpm



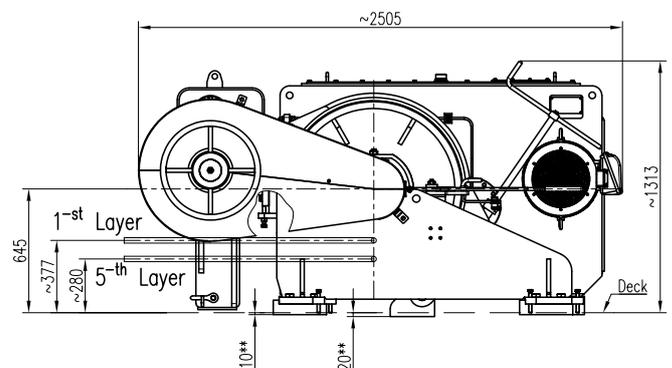
Lifting Mooring Winch 010-E120[kN]

Nominal pull 1st layer: 120 [kN]
 Low Speed: 0-12 m/min
 Storage capacity working part: 100 m / 4 layers
 Brake holding force 1st layer: 786 [kN]
 Electric drive -
 power/speed: 30 [kW]/1465 rpm



Walking Winch 010-E120[kN]

High pull 1st layer: 120 [kN]
 Low Speed 1st layer: 0-12 m/min
 Storage capacity: 200 m / 5 layers
 Brake holding force: 786 [kN]
 Electric drive -
 power/speed: 30 [kW]/1465 rpm

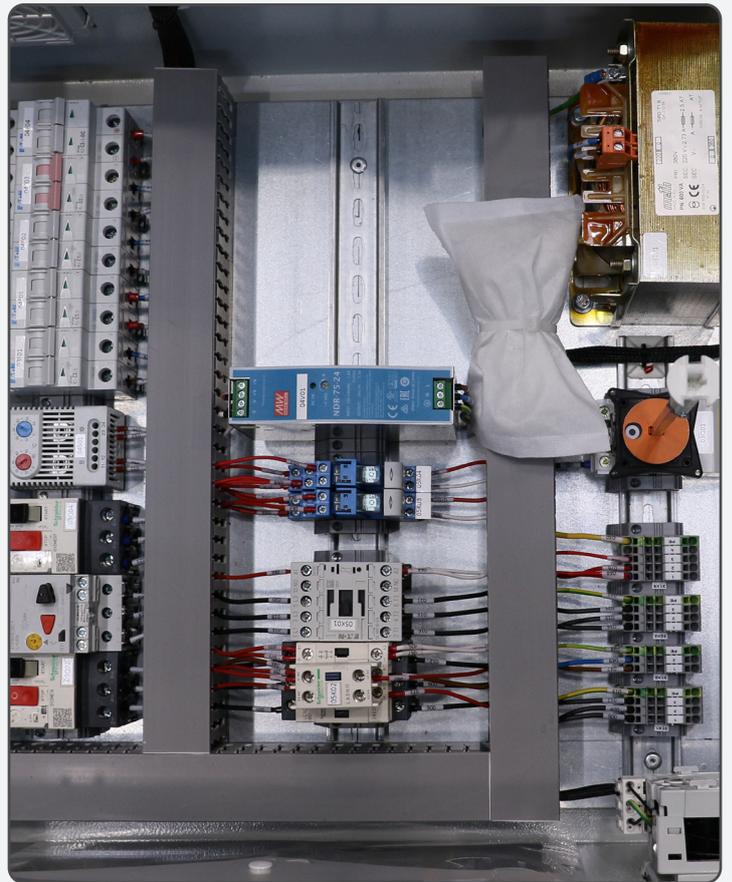




Dredger, Russia

Delivered equipment:

- Slipway Mooring Winch 010-E130[kN]
- Lifting Mooring Winch 010-E120[kN]
- Walking Winch 010-E120[kN]



Dredger, Russia

Delivered equipment:

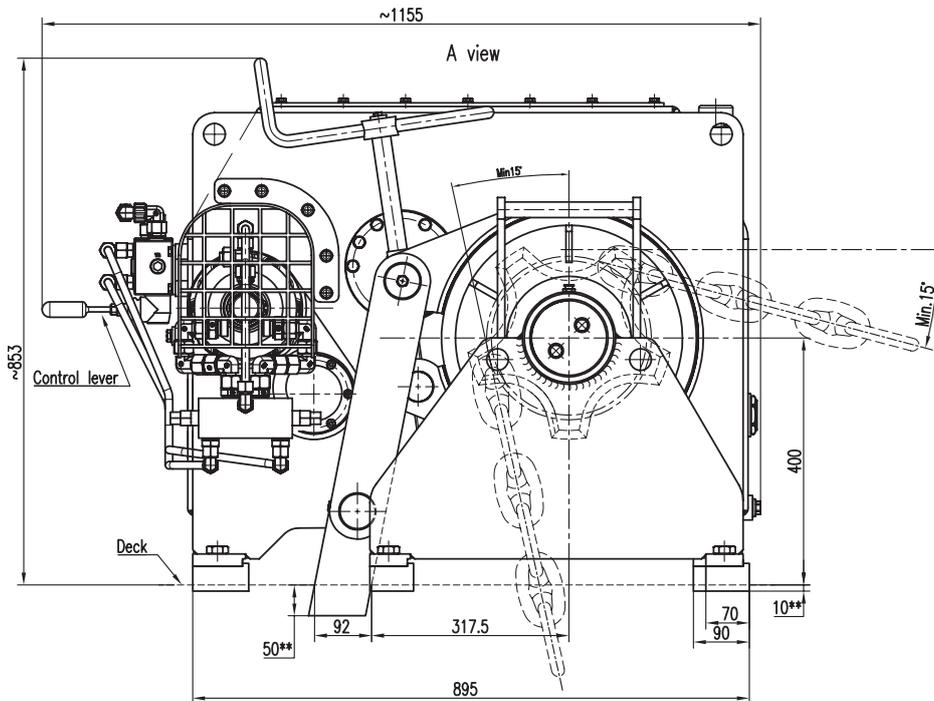
- Anchor Winch AW-100-H20.5k2
- HPU 4[kW] and Electric Control Stations

TECHNICAL CHARACTERISTICS

Anchor Winch AW-100-H20.5k2

The hydraulic driven anchor winch is used for hauling or veering the anchor. The winch is equipped with a hydraulic motor which has a nominal flow of 17 l/min and a nominal pressure of 100 bar.

| | |
|--------------------------------|------------------|
| Nominal pull: | 9.5 [kN] |
| Nominal speed: | 12 m/min |
| Pitch diameter/studlink chain: | 265 mm / 20.5 k2 |
| Brake holding force: | 110 [kN] |

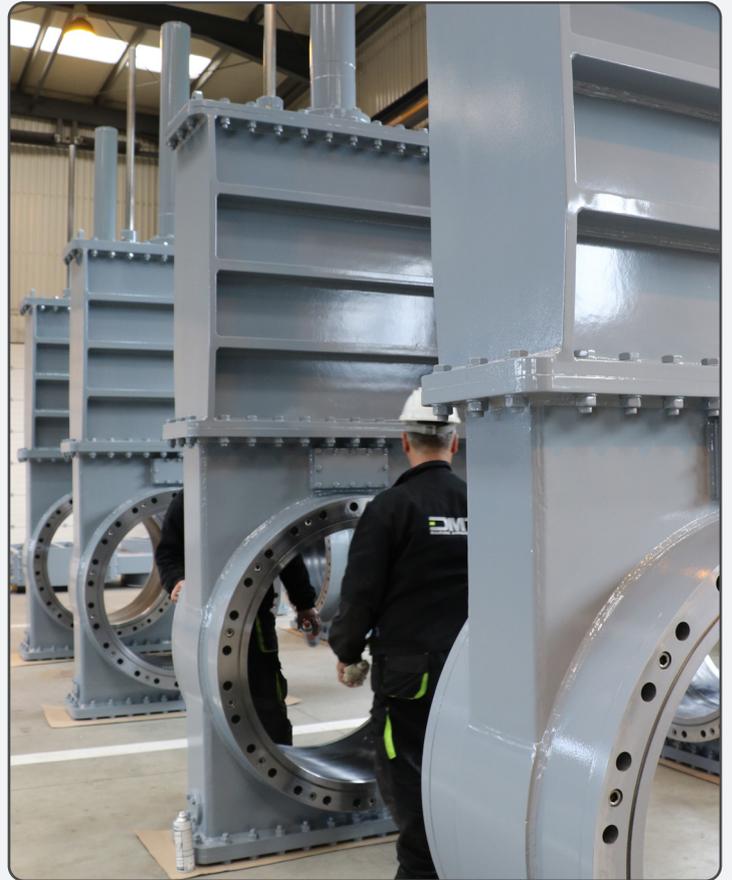
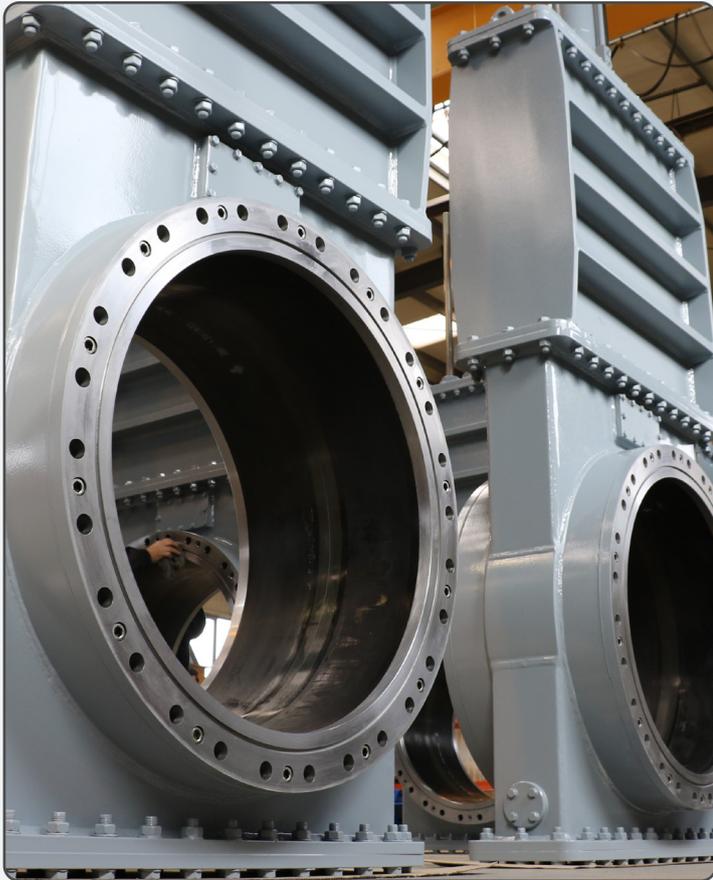




Dredger, The Netherlands

Delivered equipment:

- Dredging valve diam. 800
- Dredging valve diam. 1000



Dredger, The Netherlands

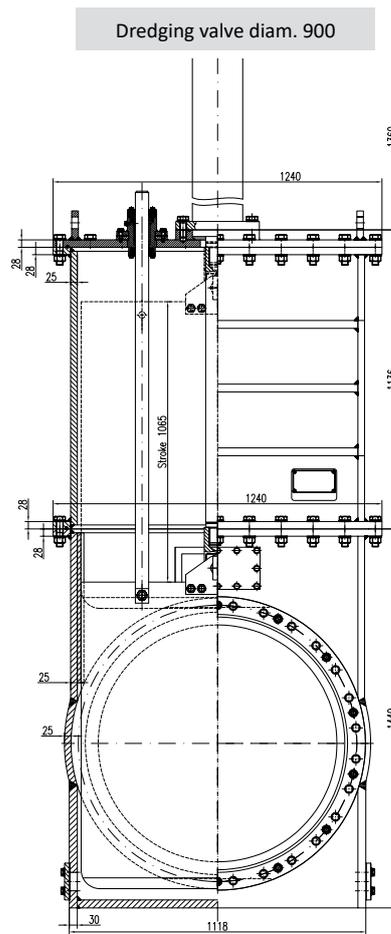
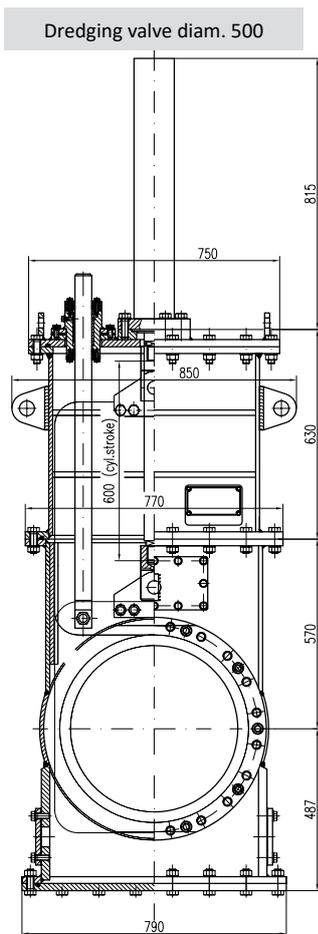
Delivered equipment:

- Dredging valve diam. 500
- Dredging valve diam. 800
- Dredging valve diam. 900
- Dredging valve diam. 1000

TECHNICAL CHARACTERISTICS

Dredging valves diam. 500 & 900

The dredging valves are used to control the flow of water and sand in the suction and discharge pipes of either cutter suction dredgers or trailing suction hopper dredgers.



TECHNICAL CHARACTERISTICS

Anchor-Mooring Winch AMW 220-E24K3

Chain lifter

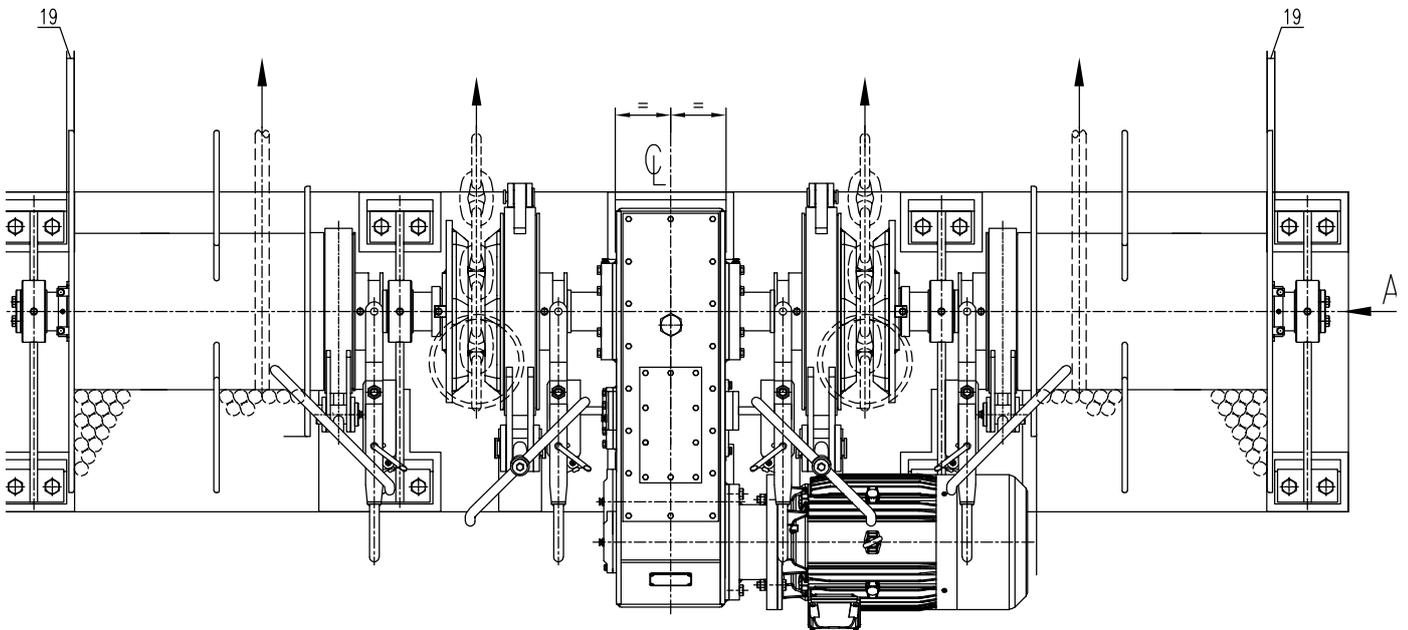
| | |
|----------------------|------------|
| Studlink Chain: | 24k3 |
| Nominal Pull: | 29.5[kN] |
| Nominal Speed: | 12.4 m/min |
| Low Pull: | 14.8 [kN] |
| High Speed: | 24.8 m/min |
| Pitch Diameter: | 371 mm |
| Break Out Pull: | 44.3[kN] |
| Brake Holding Force: | 215 [kN] |

Mooring

| | |
|--------------------------------------|--------------|
| Synthetic Rope: | Ø36 |
| Nominal Pull 1 st layer: | 24.8[kN] |
| Nominal Speed 1 st layer: | 14.8 m/min |
| Low Pull: | 12.4 [kN] |
| High Speed: | 29.6 m/min |
| Storage Capacity: | 140/7 layers |
| Brake Holding Force: | 128 [kN] |
| Winding: | top |

Drive Electric

| | |
|-----------------------|---------------|
| Power: | 7.5[kW] |
| Rotation: | 725 rpm |
| Max. Rotation: | 1450 rpm |
| Supply: | 400 V / 50 Hz |
| Duty Type: | S2=30 min |
| CoolingType: | TENV |
| Degree of protection: | IP 56 |



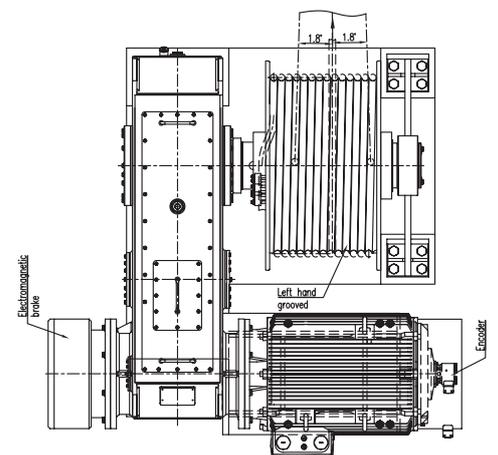
Lifting Winch LW 010-E 300[kN]

Mooring

| | |
|--|----------------|
| Steel Wire: | Ø34 |
| Nominal Pull 1 st layer: | 250[kN] |
| Nominal Speed 1 st layer: | 7.5 m/min |
| Stall Pull 1 st layer: | 300 [kN] |
| Low Pull in water 1 st layer: | 100[kN] |
| High Speed in water 1 st layer: | 15 m/min |
| Storage Capacity: | 30.5 m 1 layer |
| Brake Holding Force: | 583 [kN] |
| Winding: | top |

Drive Electric

| | |
|-----------------------|---------------|
| Power: | 45[kW] |
| Rotation: | 740 rpm |
| Max. Rotation: | 1500 rpm |
| Supply: | 400 V / 50 Hz |
| Duty Type: | S2=30 min |
| CoolingType: | TENV |
| Degree of protection: | IP 56 |





Dredger, The Netherlands

Delivered equipment:

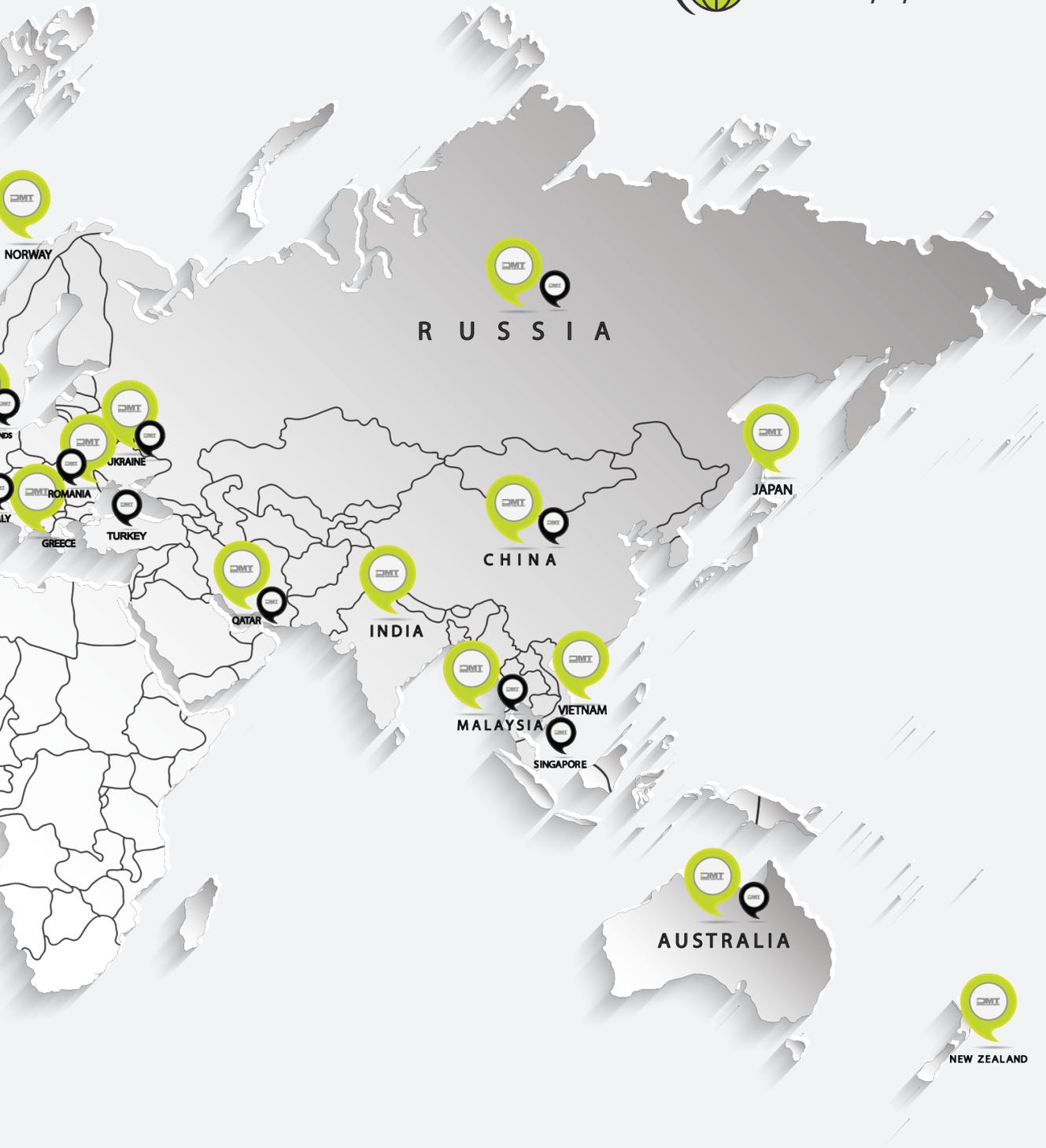
- Anchor-Mooring Winch 220-E24K3
- Mooring Winch 020-E 24[kN]
- Lifting Winch LW 010-E 300[kN]
- Chain Stopper CS 24k3
- End fastening device 24K3
- Electric control AMW 7.5[kW], VFD, Local & Remote
- Electric control MW 7.5 [kW], VFD, Local & Remote

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 **After Sales Services**



DRAG HEAD



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