

ABOUT

Adria Winch is world wide supplier of deck machinery and based on that in last 25 years we developed wide range of products.

AW winches are well-known for their compact and optimized design which ensure high reliability during operation, low costs of maintenance and long product life span.

Our quick reaction and flexibility in technical and commercial terms has managed that AW is first choice for shipyards and shipowners for lots of projects.

1) Anchor-Mooring and Mooring Winches and Capstans

Adria Winch produces many types of combined anchor/mooring winches and capstans, depending on specifications. The compact design of AW anchor/mooring winches, combined with an integrated cable lifter makes it easier to pay out and haul the anchor, or to moor a ship.

Features :

- Chain dimensions up to 81 mm, pull up to 350 kN
- Arrangements according to customers requirements
- High torque and high rope speed
- Speed control by pole-changing
- AC electric motor or step-less speed by frequency inverter
- High pressure hydraulic drive
- High brake holding power with stainless steel bolts and bushings in all movable parts

Options :

- Hydraulically operated clutches
- Hydraulically operated fail safe brakes
- Stainless steel brake rim
- Local/Bridge control
- Remote automatic anchor drop / PLC controlled chain speed (1±3 m/s)

Automatic mooring control system with electronic load sensing



2) Research Winches and Handling Solutions

Systems are composed of sophisticated winches and deck handling hardware: a tilting A-frames or custom designed launch and recovery cranes equipped with tools docking carriage. Systems are designed for personnel safety and gently handling of umbilical cables, instruments, underwater tools or ROVs.

Technical information

SWL	Up to 250 kN
Recovery speed	Up to 200 m/min
Operational depth	Up to 8000 m
Number of the cable layers	Up to 30 layers
Impact resistance	Up to 8G
Over deck outreach	8 m plus
Operating ambient	-40°C / +50°C



3) Towing Winches

AW can provide custom designed towing winches, single and double drum in waterfall or in-line configuration. Winches can be tailored to meet all deck arrangements or other customer requirements.

AW Towing winches are driven by high pressure hydraulic motors or frequency controlled electric motors. Robust design allows operation in all conditions.

Technical information

Drive	Electric / Hydraulic
Configuration	Single / Double Drum
Rated pull	Up to 125 tons
Clutch	- Manually / Remote - Automatic Quick Release
Control	- Local / Remote - Emergency functions automatically
Options	- Constant tensioning mode - Static brake slippage - In-out action nominal power

Towing Pins

AW has original innovative towing pins solutions which are preferably used for shallow draft vessels which have limited underdeck space.

Our solutions have several unique features

- extremely low underdeck profile
- easy rotating pins – which prevents rope damage
- safe, long life sealing

AW provides also different tailor-made towing pins solutions for deck rope guidance satisfying specific customer needs.



4) Fishing Winches

AW produce a flexible size of heavy duty fishing winches which are used as main or auxiliary winches on vessels. All winches are based on the latest technology and close customer cooperation throughout every project. We offer customized winch solutions for all types of fishing vessels, fishing research vessel and multipurpose vessels.

The power source for fishing winches can be electrical or high pressure hydraulic according to customer requirements. With their totally enclosed reducers, robust design and metallization as surface protection are excellent choice for reliable equipment suitable for toughest sea conditions.



5) Dredging Winches

Adria Winch has a range of winches for dredgers. We deliver winches for positioning (most commonly 4-point), winches anchoring and winches for manipulating the excavator arms and tools.

We also supply a 3D moveable autotensioning winches that are used to tighten the barges along the dredger ship with automatic adherence of the barge in the conditions of waves and currents.

Dredger winches are equipped with spooling devices, length counting and load measuring cells.

6) Tugger Winches and Cargo Securing Winches

AW offers a wide range of different tugger winches. The robust design allows safe and long-term operation in harsh environment conditions. Winches are electric or hydraulic driven.

Drive	Electric / Hydraulic
Configuration	All options
Rated pull (1st layer)	Up to 25 tons
Brake	Automatic disk brake
Wire speed(1st layer)	Up to 50 m / min
Control	Local and remote control



7) Spare Rope Reel

AW makes range of wire rope reels for a wide range of wire rope diameters and lengths. Rope Reels can be delivered with or without a spooling device and constant tension option for safe winding and paying out.

Drive	Electric / Hydraulic
Rated pull (1st layer)	2 - 25 tons
Brake	Automatic disk brake
Capacity	On Request
Control	Local and remote control



8) Mooring Systems

Adria Winch have ability to provide different multi-point mooring systems for crane and excavator barges, offshore supply and survey vessels.

A mooring system describes a set of components: winches, centralized control system, electric cabinets power packs and fairleads used to confine a barge or vessel to a specific location and to hold it on station within defined limits.

Drive	Electric / Hydraulic
Rated pull (1st layer)	Up to 100 tons
Rope Capacity	Up to 2500 m
Clutch	Manual or hydraulic operated
Fail-safe brake	Manual or hydraulic operated



9) Hydraulic Power Unit

We design, and build tailor-made and standard Hydraulic Power Units for marine and offshore applications of hydraulic power units while using new generation of gear and axial piston pumps.

Main Characteristics

- The pumps are placed outside the tank for easy maintenance
- Working pressure up to 350 bar, output from 5 up to 300 kW
- All power units are self-contained and skid mounted for easy shipyard installation
- Various types with 1, 2, 3 or 4 pumps installed with different capacities
- Simplified control of oil flow to meet variations in demand
- Various cooling arrangements to avoid limitations of operation
- Full flow filtration of return oil



10) Control Systems

Our control systems can be used in conjunction with hydraulic as well as electrical winches and are designed to meet all the requirements from standard handheld controllers to advanced bridge control systems.



Our References

So far Adria Winch have delivered deck equipment for more than 500 various type of vessels : offshore, fishing, merchant, car and passenger ferries, navy, scientific, oceanographic research vessels and other.



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