

MID have proven experience and specialist mechanical engineering competence in the custom design of windlasses, drum winches, towing winches and mooring winches.

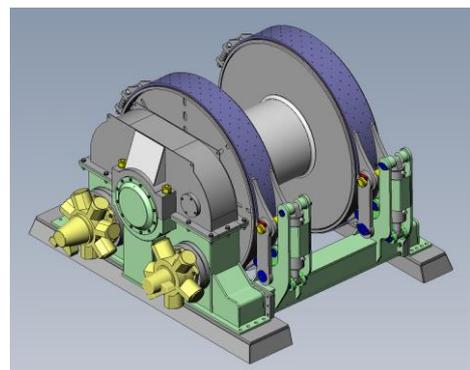
The end clients for MID's winch designs always need to achieve a certain goal, a predictable end result and a reliable, tested and certified capability. MID has found that very few clients are the same, and as a result very few of our winch designs are the same either. This bespoke or customised approach to meeting our end-clients' needs is core to MID's service and this can be seen in our 'typical' winch product range.

MID is an engineering design specialist who work with the manufacturer of choice to build the design that best meets your operational requirements. Based on the nearest fit to your needs from our previous designs MID would then specifically tailor the design to achieve your requirements.

MID has strong working relationships with a number of companies in NZ who would be excellently placed to fabricate, assemble and install the winch to your requirements.

Detailed design work

Based on our clients requirements, MID prepares a detailed specification for the winch. This often needs to specify the specific control and monitoring system that the client requires. MID can help co-ordinate the companies involved and ensure the complete package aligns with the required functional requirements for the winch.



Model MW20 1D200BR: 20t towing winch, 27.6m/min, 200t brake.

Integrated Foundation Design

A winch is only as strong as the deck that it is attached to and the structure below it. Applying MID's experience as naval architects we can pre-design the full structural foundation package to be built and installed with the winch. The required foundation can be pre-fabricated and be ready to be inserted into the existing structure of the ship, reducing both the vessel's downtime and costs.



Model MW12 1D120BR: 12t drum winch, 20m/min, 120t brake

Classification Society review, approval, test and certification

The certification of machinery and components is a common requirement on most ships and a necessity on Classed vessels.

MID manages and oversees the interaction with the selected Classification Society to ensure the case-by-case approval of each winch's drawings are approved, that the attendance during fabrication is co-ordinated and that the testing and final marking and certification is carried out to the correct standards.

The same approval requirements often apply to the foundations and deck structure for the vessel and time and cost savings can be made if this work is co-ordinated and managed.

Shore-based application

Maritime products can provide significant value for land-based projects and functions. Designed for the harsh maritime environment and operations, marine winches represent a high quality and reliable product for many land based applications.

Design flexibility

MID has extensive design experience over a wide range of different types of winches, windlasses and capstans, and across many sizes and different applications for different types of vessel.



Model MW12 1D80BR: 12t drum winch, spooling, 20m/min, 80t brake

If you need a bespoke 'one-off' or a series of five of the same, MID are your experienced capability provider for winches and deck equipment.

Control and Monitoring Systems

Every winch needs safe and operationally supportive control and monitoring systems. This monitoring, feedback and control requires to be tailored to the application in question and be specific to the client's operational needs.

MID can support this integration into the design work and ensure these important systematics and operational outcomes are considered and planned for from the outset.