



# MARINE APPLICATIONS





## **WINCHES DESIGNED FOR THE SEA**

TMA appreciates that marine applications need components of the highest quality level to ensure the reliability of the whole piece of equipment. Having a great deal of successful experience in this market, TMA can provide a choice of winch ranges especially designed for operation in the sea.

The design itself and the selection of the most suitable materials (for example tension rollers frame in AISI 316) increase the protection of the winch.

Moreover, TMA has developed several painting procedures to provide the best protection in marine environment (with sandblasting, with metalizing and even approved by Norsok).



## **PRODUCTS CERTIFIED BY CLASSES**

TMA has a great deal of experience with the most known Classes for the certification of its products.

Having extensive knowledge of the rules and standards, TMA is able to design and offer winches suitable for certification in a very short time.

According to the requirements of the application, Classes provide their survey of the manufacturing process, review of the quality documents and witness the factory acceptance test.



TMA cares about its quality documents as well as about the product itself.





## COMPLETE RANGE OF ACCESSORIES

TMA has developed a complete range of accessories, making its products suitable for every marine application. Load limiting device and load detection device are very reliable systems, providing results with extreme accuracy. Constant tension, MOPS and AOPS valve blocks are required accessories for ship-to-ship crane application. An emergency lowering device is also on the list of standard accessories.

TMA is able to provide winches in compliance with ATEX directive for zones 1 and 2.

## PERSONNEL LIFTING & LOW TEMPERATURE

TMA can provide winches for personnel lifting operation (the whole PL range) and winches suitable for low temperature (-40°C).



## RANGES

### MW

**LINE PULL** from 500 to 5700 kg

### TMV

**LINE PULL** from 4500 to 24000 kg

### TME

**LINE PULL** from 4500 to 11000 kg

### PL

**LINE PULL** from 2000 to 10000 kg

### CPV

**LINE PULL** from 1200 to 3900 kg





***TMA designs and manufactures customized winches in order to fully meet each application requirements.***

***For each winch, TMA specifically selects drum, gearbox, motor and valve from its existing ranges.***

***The result is always a winch combining the best performance and quality whilst fulfilling the customer's exact requirements.***

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