

# Winch Conversions & Modifications

TTS MARINE SERVICES



**TTS**

A MacGregor Company





## **PUT OUR EFFICIENCY IN ENGINEERING TO THE TEST. WE'RE UP TO ANY CHALLENGE.**

At TTS, our extensive experience and technical know-how allow us to perform a wide range of conversions, modifications and modernizations.

We carry out every project with the clear objective of satisfying our customer's needs while adhering to the highest international quality standards and contract terms.

Whether it's the replacement of a winch or the conversion of additional winches, the TTS team works in close cooperation with our customers every step of the way.

Our expertise spans from strength calculation and key solutions to delivery and assembly of complete units.

**INSPECTIONS AND SPARE PART SUPPORT**

**DRY DOCKING SUPPORT**

**ADDITIONAL COMPLETE WINCH**

**UPGRADE TO SPRING LOADED DRUM BAND BRAKE**

**SAFETY UPGRADE - TTS INTELLIGENT CONTROL BLOCK**



# INSPECTIONS AND SPARE PARTS

For those who want to be well-prepared for their dry docking, we offer two options. We can do a complete inspection report with spare parts recommendations or a quick exchange of spares, as required.

We can offer just-in-time parts for your dry docking by carrying out an inspection.

# DRY DOCKING SUPPORT

Your expert on site. Let us take command of your dry docking procedure. You choose what role you want us to play.

We can coordinate the shipyard's installation of spare parts or we can oversee all spare parts exchanges.

Save manpower and let us take the lead.

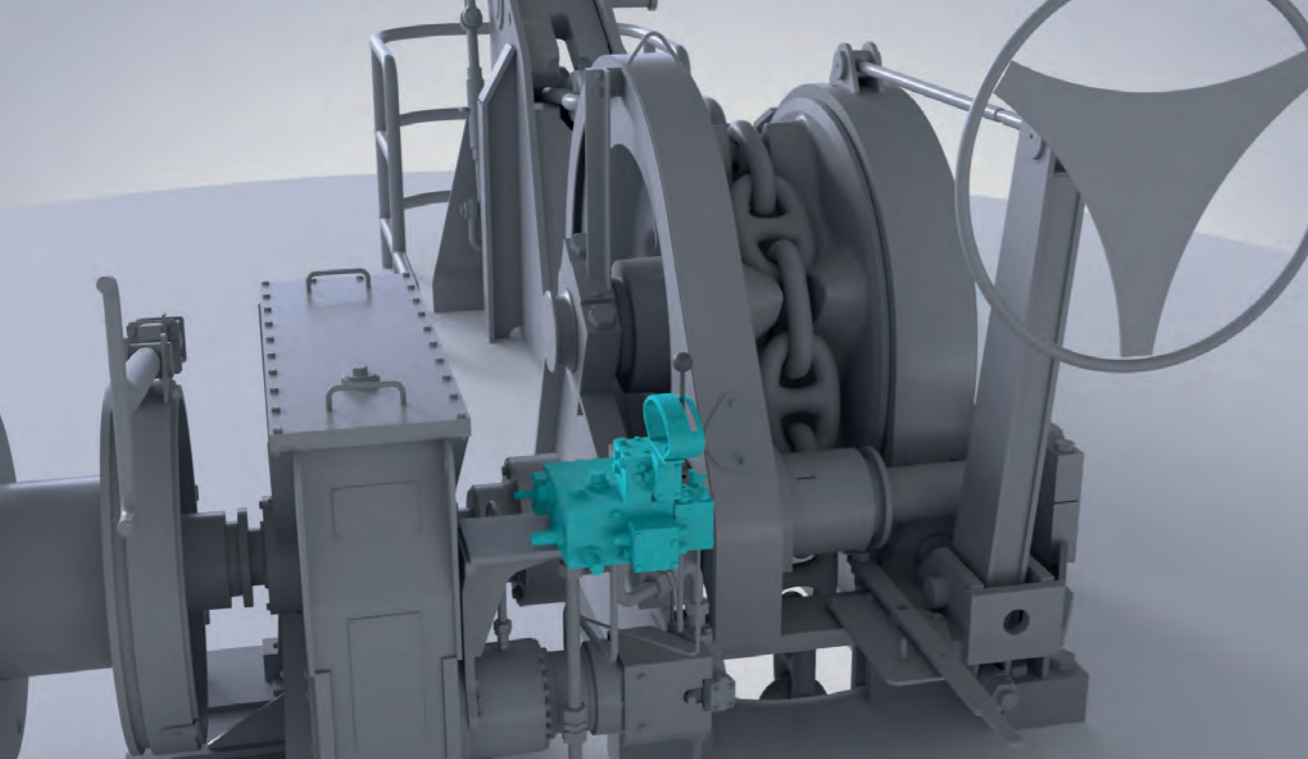
# ADDITIONAL COMPLETE WINCH

When repairs and spare parts aren't enough.

We offer a complete new winch. We also offer supervision including overseeing the installation from start to finish.







# TTS INTELLIGENT CONTROL BLOCK

Heavy sea conditions, operating error and other negative influences can make heaving the anchor especially difficult. Overtension on the chain can cause the windlass to go into overload. Overload on the windlass can lead to hydraulic motor damage and be a safety hazard.

The new TTS Intelligent Control Block takes over when overload is detected. Even if the operator is not aware that overload is about to occur, the TTS Intelligent Control Block monitors the load and automatically adjusts, as needed.

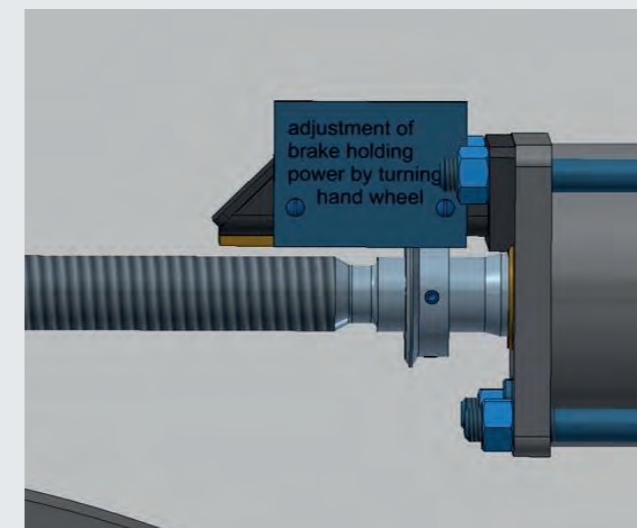
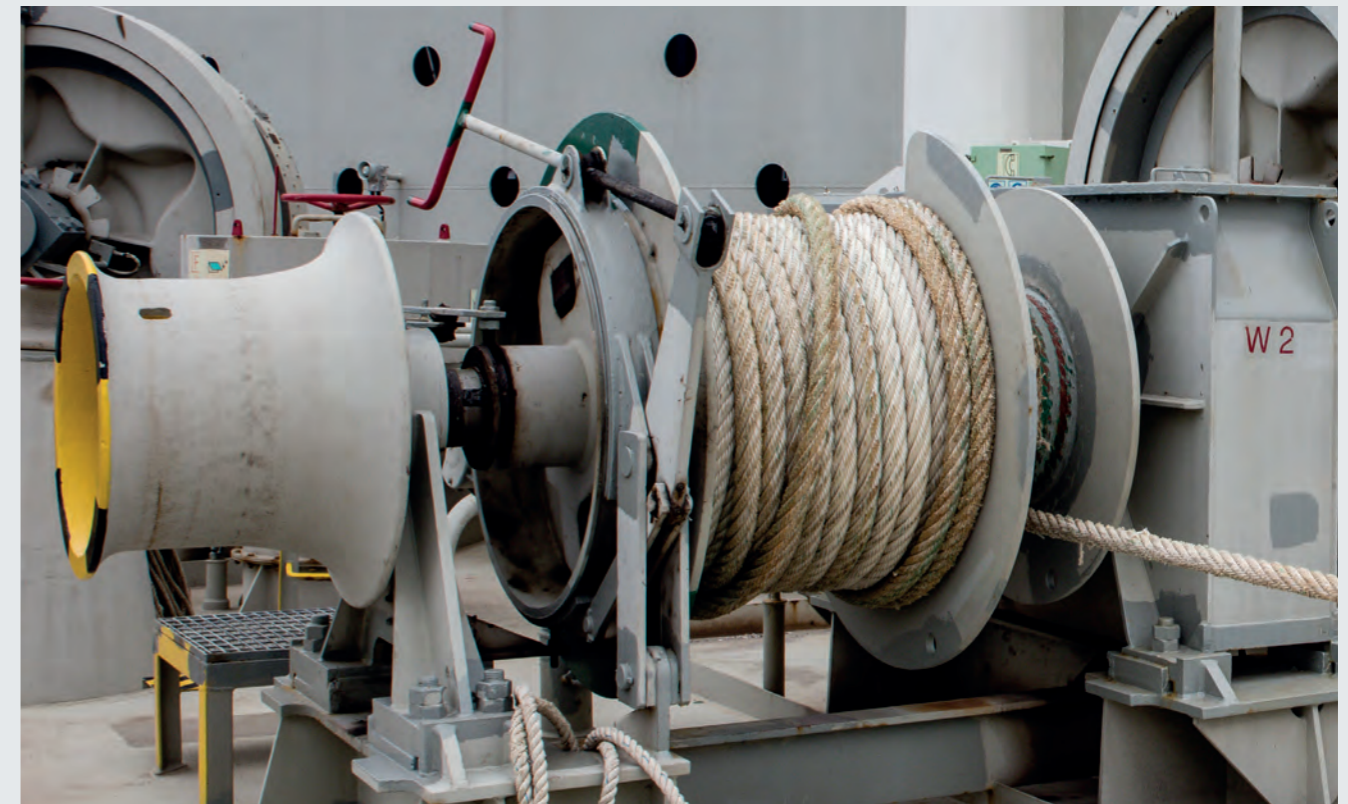
Through a simple conversion, this new technology offers ease of use, increased safety and reduced risk of damage to your equipment.

# UPGRADE TO SPRING LOADED DRUM BAND BRAKE

The brake holding capacity of the drum band brake is vital to the safety and operation of the mooring winch. Our spring loaded drum band brakes are a simple solution to the issues that arise when conventional drum band brake linings stretch, especially after being re-tightened. With our spring loaded drum band brake, you can avoid overtightening of the brake lining and ensure the holding capacity is correct.

In order to keep in line with requirements from the OCIMF, our spring loaded drum band brake has a holding capacity of 60-80% of the line's MBL. This helps avoid unnecessary wear and tear on the rope. The spring loaded drum band brake protects your mooring ropes and extends the lifetime.

Increase the safety for the operator by reducing the chance for rope breakage with an upgrade to spring loaded drum band brakes.



FOR MORE INFORMATION, CONTACT YOUR TTS AFTERSALES DEPARTMENT  
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