TTS Deck Machinery Division

A comprehensive portfolio of deck machinery systems and equipment is designed and supplied by TTS Deck Machinery Division to meet the specialised requirements of all ship types. The company sets the standard by which the market’s demands are met with innovative technology and tailor-made solutions.

Boasting over 50 years’ experience in deck machinery development, design and production, the former Kocks GmbH was acquired by TTS in October 2005. Its long history of proven expertise has won for the company the confidence and loyalty of satisfied customers worldwide. Now TTS Deck Machinery Division, the company comprises, in addition to TTS Kocks GmbH in Bremen, two fabrication sites for the assembly of deck winches – TTS Kocks Ostrava s.r.o. in Ostrava, Czech Republic and TTS Kocks GmbH Korea Co. Ltd. in Busan, South Korea.

Trust and commitment

Our expertise is founded on a wealth of experience and, from this, TTS is able to develop and engineer advanced and reliable anchor and mooring winch system technologies.

Planning, simulation and design are carried out on state-of-the-art CAD and FEW systems, supported throughout by an integrated Enterprise Resource Planning system.

Products are subject to extensive performance tests before they leave the factories, under the responsibility of experienced engineers.

With expert staff across the world, TTS is committed to deliver cost-effective, safe and reliable systems backed up by a comprehensively equipped service network.

TTS supplies three types of anchor and mooring winch systems:
- high pressure central system hydraulic
- self-contained high pressure electro-hydraulic
- electrically driven type.

These systems, designed with tensile load capacities of between 10 and 42 tons, are capable of matching the requirements of any size and type of ship.

In addition to design, the monitoring of industry-wide operational requirements is determined by TTS in close dialogue with shipowners, shipbuilders, consulting companies and the classification societies.
The systems

The monitoring of deck equipment is essential in order to maintain performance standards and ensure reliability. It is therefore important to TTS that a regular dialogue with clients is maintained, enabling the exchange of ideas so that existing technologies can be further developed and enhanced. A selection of the results of that liaison is illustrated below.

CSH – Electro Hydraulic Winch
- High-pressure hydraulic system
- Power pack under deck with two to four pumps each
- Mono lever control of speed and torque due to variable displacement hydraulic motor.

CEH – Self-contained Hydraulic Winch
- High-pressure hydraulic system
- Power pack integrated into each winch
- No feeding pipelines on deck
- Hydraulic components fully enclosed and protected against impact or weather influence.

E – Electric Driven Winch
- Three pole changeable or frequency-controlled motor
- Advanced CPC-controlled system including constant tension and torque measurement.

Cable Lifter
- For chain sizes between 42mm and 150mm diameter
- Mechanical or electronic chain length indication system.

Chain Stopper
- Roller type for chain sizes of between 42mm and 150mm diameter.

Designing to the exacting requirements of onboard safety is central to product development, as is a commitment to reliability, long term performance and to the environment.
TTS after-sales service and support

With a worldwide network of branch offices, service stations and agents, TTS commands a global as well as local presence. We are ready to meet your requirements 24 hours a day, 365 days a year.

Service when required
TTS offers a comprehensive service facility to shipowners throughout the world, available at both short and planned notice. Planned maintenance is essential to ensure that the equipment continues to operate in the optimum manner. TTS has special programmes for such work, as well as for those requiring individual service operations.

Service agreements
TTS has extensive experience in creating tailored service agreements with shipowners and operators. Regular service and planned maintenance are necessary for today's ship operator who needs to work with short stops in ports, many of which do not have the facilities to offer unplanned service. The need for high efficiency in port is therefore paramount.

Service stations
TTS owns a number of companies and works with qualified service agents located in ports around the world. Flexible service teams are ready to travel worldwide 24 hours a day. TTS service engineers are on duty 24 hours a day. Customers are free to request any of the qualified service engineers from any TTS service station who will then be dedicated to the customer for the duration of the service.

TTS Service Policy – key benefits

Response
The shortest possible time from the customer's call to the dispatch of service personnel and spare parts.

Availability
The service hotline is open all day, every day. A selection of vital spare parts is always in stock and trained personnel are ready to go.

Quality
Qualified personnel, high quality spare parts and complete understanding of the environments and systems in which the products are used.

Technical Support
Comprehensive, competitive technical support anywhere in the world, any time.

Spare Parts Support
Large stocks of standard spare parts are available on short notice even at long distances.
Bergen-headquartered TTS Marine ASA is a global enterprise that designs, develops and supplies ships and shipyard equipment. Operations are organised into four business divisions: Marine Cranes, Dry Cargo Handling, Port and Material Handling, and Deck Machinery. The close, flexible working relationships within the group enable the deployment of complete project teams across a range of fields.

The divisions are responsible for the design of a wide range of equipment including container terminal technology, cargo handling systems, cargo cranes, hose handling cranes, special loading handling, and anchor and mooring winches. About 500 people are employed throughout the group.

TTS Marine ASA was established in 1966 and has been listed on the Oslo Stock Exchange since 1995.
The TTS Group is an international technology-based company, supplying cargo access equipment to the marine and offshore industry. Working closely with customers to devise intelligent and innovative solutions, TTS offers the expertise to improve productivity, quality and system capacity, so increasing profitability and competitiveness. The close, flexible working relationships within the group enable the deployment of complete project teams across a range of fields.

The parent company of the TTS group, TTS Marine ASA, was established in 1966 with company headquarters based in Bergen, Norway. TTS Marine ASA has been listed on the Oslo Stock Exchange since 1995.

The group’s activities are organised into four business divisions: Marine Cranes, Dry Cargo Handling, Port and Material Handling, and Deck Machinery. These divisions are responsible for the design of a wide range of equipment including container terminal technology, cargo handling systems, cargo cranes, hose handling cranes, special loading handling, anchor and mooring winches, and cargo access equipment. About 500 people are employed throughout the group.