



TTS

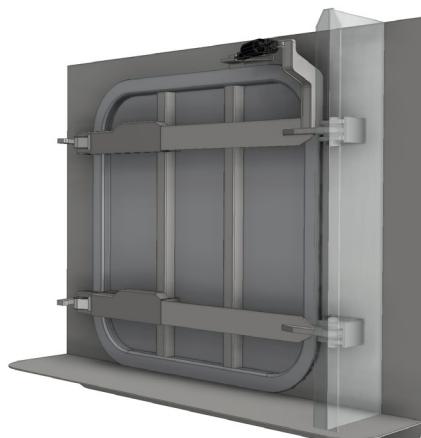
A MacGregor Company

Cruise equipment

Today's cruise ships have high demands on logistic systems and passenger flow equipment. Often they operate in environmentally sensitive areas, therefore TTS is focused on developing reliable, efficient and environmentally-friendly products. Our doors and platforms are optimized for the cruise ship industry and available with either hydraulic or electric operation. We can also provide land based logistic systems, such as gangways and provision/luggage handling systems.

Doors & platforms

TTS range of top/side hinged or sliding side shell door solutions covers all needs depending on features prioritized by the client: heavy or light duty, installation, noise, appearance and/or environment. Drive options are hydraulic or electrohydraulic cylinder or electric actuators in heavy/light duty versions. Doors are also available in standard and premium versions suited for technical or passenger area applications respectively. Common for all products is high reliability and low maintenance.

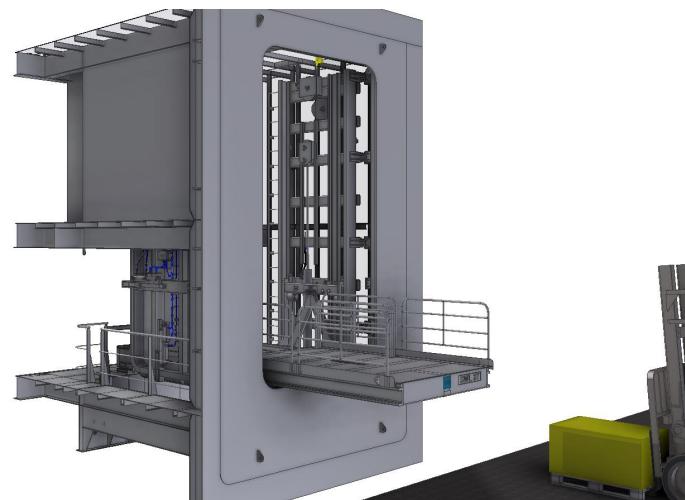


Platforms are available for passenger access/tendering operations as well as mooring - both hydraulic and electric variants are available. Tender platforms may be of direct access type or be combined with an external access stair via a separate door.



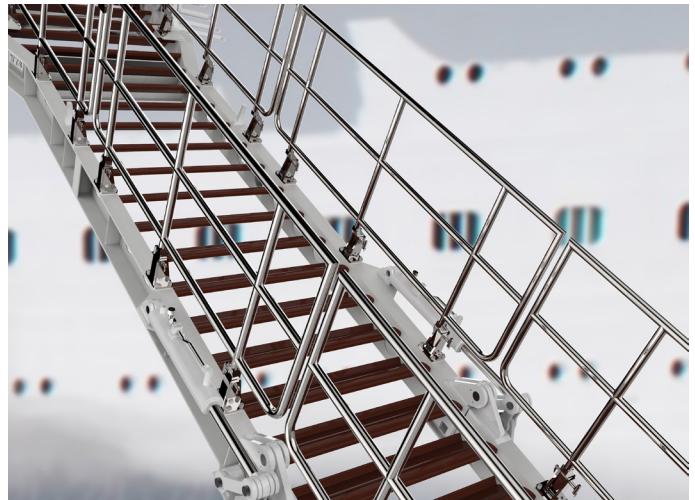
Logistic solutions

Effective use of on-board space and a systematic approach to turnaround day and on-board operations during voyage are important contributors to efficient vessel operation. TTS can support development of the ideal logistics system to develop and deliver the required handling equipment. Vast experience in combination with simulations ensures that systems will work as intended. We have the equipment needed to fulfill both high flow and small scale systems, handling even the most challenging tidal conditions.



Passenger gangways

TTS offer a wide variety of passenger gangways, providing passengers a safe path to/from the vessel from ports and quays. The access varies from port to port and therefore the gangway solutions need to be flexible. TTS gangways are fully automatic, designed to be compact when folded on board and can be of either the telescopic or foldable type. The capability to provide a combination of logistic ramp and gangway is also possible.



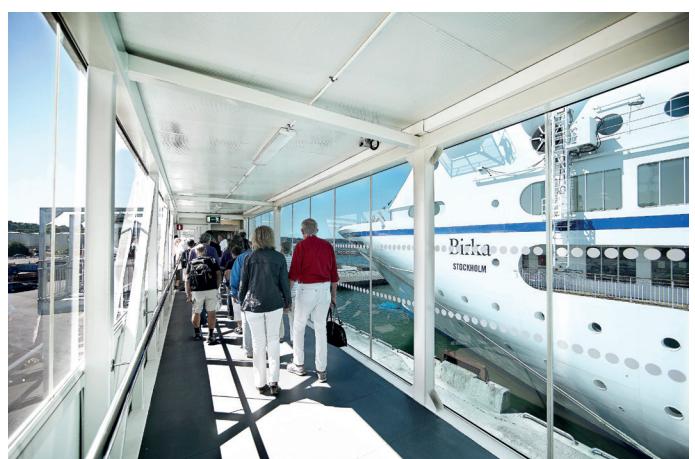
Custom designed innovations

The development of new innovations within the cruise industry has focused on providing passengers an exciting and relaxing time on-board. To meet these demands we offer features such as retractable sundecks or outdoor restaurants. TTS multipurpose stern platforms and gangways are further innovations in maximizing on-board flexibility.



Cruise port solutions

Passenger gangways are designed to optimize the safety and comfort of passengers by keeping them separated from other activities in port. The cruise gangway allows full, three dimensional positioning, as it can be moved along the quay, adjusted vertically and telescopically moved towards the cruise vessel with various active safety functions. This provides a versatile solution for differently positioned vessel doors. To provide improved handling of cargo and passengers TTS can provide simulations and analysis of the flow.



Rescue & life boat davits

TTS is a supplier of single- and two point davits for life saving equipment according to SOLAS (LSA). The product range covers 150 pax life boat up to 400+ pax tender boats. TTS has chosen DNV as a Notified Body and the standard davits are supplied with EC Type-Examination Certificate. Solutions are compatible with all relevant boat variants on the market.



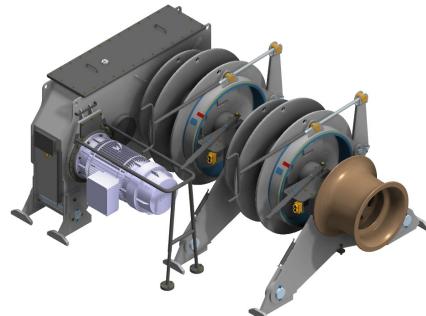
Cranes

At TTS we are responsible for the design and installation of a wide range of crane handling systems. We understand that customer requirements are particular to vessel type, so we offer custom solutions alongside a wide range of standard products, all designed to equip a variety of vessels from large cruise ships to smaller expedition cruise vessels.



Mooring & anchor winches

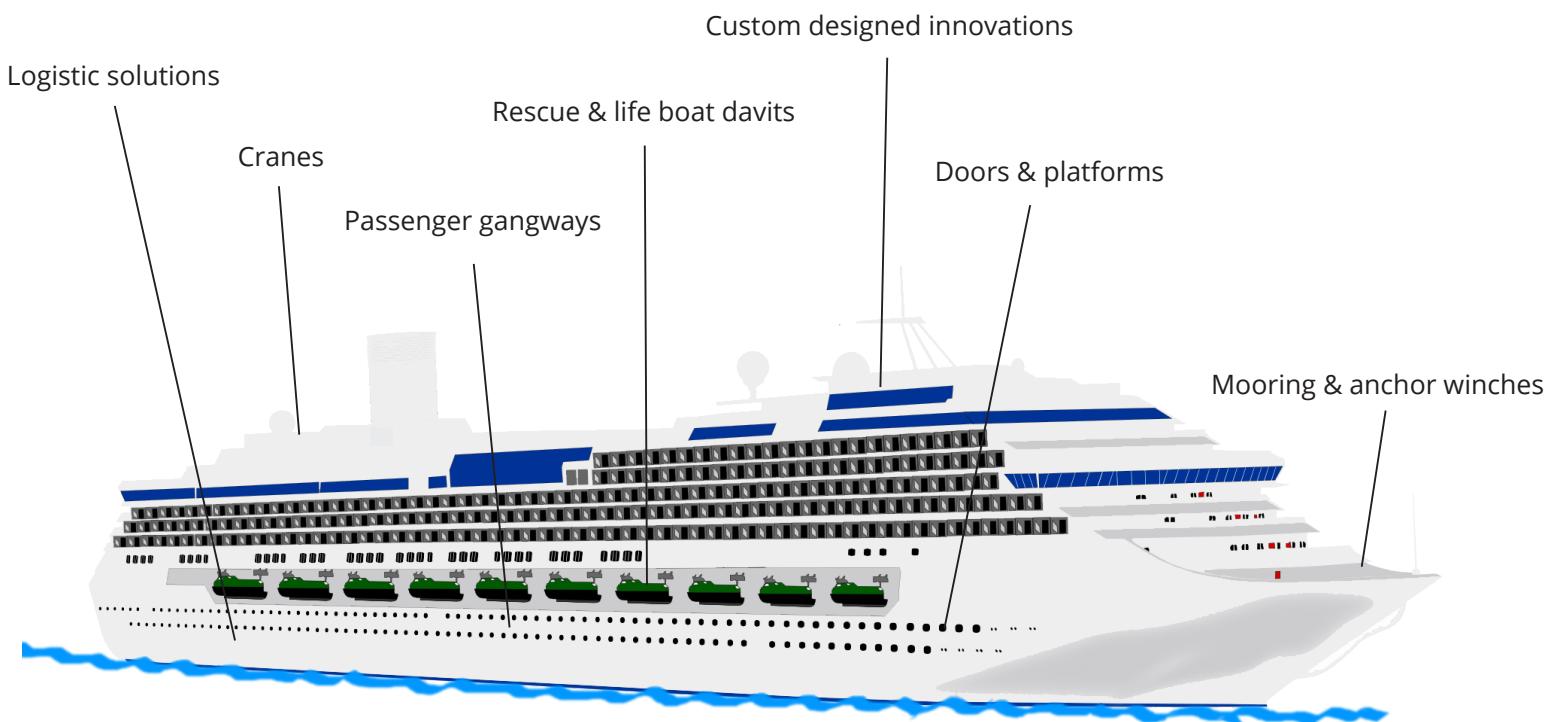
TTS provides electrical or hydraulic anchor- and mooring winches, designed with tensile load capacity from 8 - 35 tonnes mooring line pull. Designing to the exact requirements of on-board safety is central to product development, as is a commitment to reliability, long term performance and to the environment.



Service

TTS's global service network has been set up to help you get the most value from your assets. With qualified, experienced engineers in key locations worldwide, we can get support to your vessel wherever it is at short notice. Of special interest for cruise operations is our presence in Florida, the Mediterranean area, Shanghai and Singapore.





Competence, reliability and trust are the hallmarks of our business, and we work hard with customers to ensure the effectiveness of equipment throughout the ship's life cycle.

We understand that expensive assets cannot be allowed to lie idle, and that onboard space must be utilized for maximum effectiveness. From RoRo equipment such as ramps, car decks and linkspans, through hatch covers to cranes, winches and equipment for cruise ships and shipyards, our focus is on creating and delivering products and tailor-made service solutions that allow vessels to operate to their full capacity at all times.



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