

Thruster Retrieval Systems



Description

The GustoMSC Thruster Retrieval System has been designed for retrieving containerized thrusters.

To achieve both retracting of the propeller as well as inspection & maintenance of the thruster without dry-docking, GustoMSC developed the Thruster Retrieval System (TRS).

Vessel adaptation

Depending on the size and mass of the containerized thruster GustoMSC designs the provisions in the hull of the vessel, such as the vertical wells from ship bottom up to top deck level. In each vertical well, toothed racks are mounted opposite to each other.

Container (canister)

A standard container needs some modifications for installation of jacking units on top. Therefore the top of the container is reinforced to cope with jacking and locking forces. The flange of the container also acts as sealing surface in order to prevent water ingress in the well area.

The container may have circular or square cross sections.

Pinion drive and locking units

The pinion drives are bolted on top of the container and the toothed racks are welded into the upper part of the thruster well.

The pinion is mounted on the output shaft of a hydraulically driven gearbox. A locking system is integrated in the drive units thus allowing locking the container in three different elevations.

The GustoMSC Thruster Retrieval System offers the following benefits:

- In-site inspection, repair and maintenance of the thruster without the need to relocate the vessel
- Short delivery time of components
- Easy installation of containerized thrusters in ship
- Proven technology
- Easy maintenance
- Cost efficient.

References

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| • Ensco DS-1 (formerly Pride Africa), type TRS 120 | 1998 |
| • Ensco DS-2 (formerly Pride Angola), type TRS 120 | 1999 |
| • Bully I, type TRS 170 | 2010 |
| • Bully II, type TRS 170 | 2011 |

To cover the range of containerized thrusters GustoMSC developed three standard Thruster Retrieval Systems with the following particulars:

Container data	TRS 65	TRS 120	TRS 170
Container diameter	3,000 mm	4,000 mm	5,500 mm
Container length	9,000 mm	11,000 mm	12,000 mm
Propeller diameter	2,500 mm	3,800 mm	4,200 mm
Retraction stroke	2,700 mm	4,100 mm	4,400 mm
Thruster + container mass	65 t	120 t	170 t
Installed thruster power	1,75 MW	3,5 MW	5 MW

Data presented in this product sheet is for information only and subject to change without notice.

