



Lift-on/lift-off hatch covers

This type of hatch cover combines two functions – protection of the hold cargo by covering the hatches and enabling the loading of cargo on deck. Hatch covers are an integral part of the total solution package for containerships along with lashing bridges, container stanchions, and fixed and loose lashing material. As a leading manufacturer of package solutions for containerships, TTS offers lift-on/lift-off hatch covers tailor-made for each vessel.



Hatch covers are not simply a single steel product. They form part of a system of various components, and the proper interaction between all of these fittings is the prerequisite for optimal cargo stowage. Among these components are:

- Stoppers and guides at the fore and aft end of the hatch covers used for guidance and fixing of the movable panels on the ship
- Bearing pads for force transmission between hatch cover and hull structure. These ensure flexible and smooth movement between panel and coaming and maintain the hatch cover in position to seal the cargo hold. Bearing pads are installed at various locations
- Sealing system for keeping the hold cargo dry and protected
- Cleatings to secure the panels against lifting. These vertical locks are operated either manually or hydraulically. There are various cleating designs.

CHARACTERISTICS OF LIFT-ON/LIFT-OFF HATCH COVERS

- Loading and discharge operation by means of a spreader
- Partial opening of the cargo holds, single container stacks can be handled
- Operation in non-sequential order
- Panels can be stowed on top of each other
- Fixed devices can be installed on top of the covers for securing the cargo loading

Pictured top and centre: King pin stopper and combined guide/transversal stopper positioned at the ends of the hatch covers

Right: Manual cleating device for pontoon hatch cover

Below: Arrangement with bearing pads, stopper, and cleating

