Movable Deck Lifter

THE TTS INTELLIGENT MOVABLE DECK LIFTER (IMDL)™ INCREASES EFFICIENCY BY REDUCING WASTE VOLUME IN THE CARGO HOLD.

TTS
A MacGregor Company

A typical PCTC (Pure Car Truck Carrier) is about 200 meters long and has four hoistable car deck levels. Each deck level consists of approximately 30 panels, divided into panel sections with a mean weight of about 20 tonnes.

When a panel is lifted with a traditional deck lifter, the contact area is centred. This results in the corners of the panel being deflected.

The TTS Intelligent Movable Deck Lifter (IMDL) is a compact and low built vehicle for minimum storage. It is equipped with a dual frame scissor lift, with swing out arms and telescopic extensions. All functions can be operated by a wireless remote control.

The TTS IMDL raises efficiency by saving waste volume and/or weight due to lifting being done in parallel with contact points at each corner of the panel.

WHAT IS HOGGING?

Hogging is deflection caused by the self weight of the panel.

When a panel is lifted with a traditional deck lifter, the contact point is centered. This results in the corners of the panel being deflected and an extra margin for lifting is needed to get the panel on top of the panel stoppers.

PARALLEL LIFTING

Parallel lifting is ensured due to four contact points, one in each corner of the panel, all with individual set points.

With the TTS IMDL having four contact points, the panel is flat and there is no need for extra margins due to hogging, construction tolerances and/or asymmetric hoistable decks.

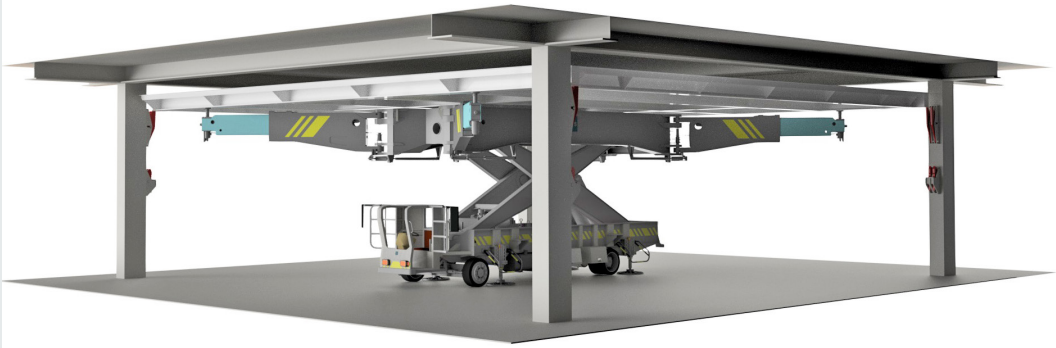
IMPROVED EFFICIENCY

Using a typical PCTC vessel as an example, the possible height reduction in cargo hold is approx. 100 mm for each liftable car deck level, when using TTS IMDL.

With less waste volume, either the cargo free height can be increased, the total ship height can be reduced or in some cases, the weight of the panels can be decreased.

SAFE & EASY HANDLING

For safety and easy handling, lifting and lowering of the panels is operated via a wireless remote control. The system has a user friendly touch panel and the lifting arm positions of each specific panel are individually stored in the vehicle's main computer.



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