

A clean energy solution with igus on board

Automated docking of a floating power plant in the Hamburg harbour reduces emissions

The “Hummel” LNG HYBRID barge was baptised in a ceremony in Hamburg’s Hafencity. Cruise ships can now be supplied with power whilst in port, thanks to the use of this floating LNG power plant. It uses environmentally-friendly liquefied natural gas – LNG. This saves fuel and reduces cruise ships’ emissions. The coupling process takes place at the dock using a complete solution from the switching cabinet to the connectors.

Normally, the ships’ own on-board generators continue to run in order to supply the cruise ships with electricity during their time in port. Becker Marine Systems designed and built the “Hummel” HYBRID LNG barge for the Port of Hamburg in order to reduce pollution in the future. Hummel is a floating LNG power plant which supplies cruise liners with electrical power. The leading energy supply experts at igus were brought into the project in order to deliver the energy from the barge to the docks, where they are then connected to cruise ships. igus is used to providing customised solutions, but this was a new case as all the electronics and steel structures were designed and supplied by igus.

Automatic connection

As soon as the barge arrives at its berth, a gangway moves out, connecting staff on board with the shore. Energy chains from igus are underneath this gangway carrying four thick 6-10kV cables with connectors. These are connected to large power supply boxes as soon as the gangway is docked and the chains are connected. The system connecting the barge must also compensate for the constant motion due to waves and tidal fluctuations. The barge will come into regular use for the 2015 cruise season.

Captions:



Image PM4114-1

The “Hummel” LNG HYBRID barge supplies a cruise ship with power (source: igus GmbH). (Source: igus GmbH)



Image PM4114-2

The igus flexible coupling solution is clearly visible at the barge’s baptism. (Source: igus GmbH)



Image PM4114-3

The complete coupling system was developed and installed by igus. (Source: igus GmbH)



Image PM4114-4

igus handled all the work from the switching cabinet to the connector. (Source: igus GmbH)

PRESS RELEASE



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ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs around 2,400 people around the world. In 2013, igus generated a turnover of 427 million euros with motion plastics, plastic components for moving applications. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms 'igus, e-ketten, e-kettensysteme, chainflex, readycable, easychain, e-chain, e-chainsystems, energy chain, energy chain system, flizz, readychain, robolink, pikchain, triflex, twisterchain, invis, drylin, iglidur, igubal, xiros, xirodur, plastics for longer life, CFRIP, dryspin, manus and vector' are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.