

PRESS RELEASE

September 16, 2020

igus energy chain developed to help generate environmentally friendly shore power

The e-loop energy supply series which increases safety and reduces procurement and installation time has been expanded to suit static applications, including shore power supplies.

Shore power offers the provision of electrical power to a ship at berth so that its main and auxiliary engines can be shut down. Stricter guidelines are forcing ports to implement more environmentally friendly technologies and the igus e-loop series allows not only the reduction of air pollution and noise but also minimises the vibration from vessels while at berth.

igus developed the e-loop as an alternative to the service loop – a product with no defined bend radius and which, in worst case scenarios, can break. Another drawback to the service loop is that when it is serviced or repaired the complete system must be replaced since the cables are sealed into the system.

Justin Leonard, a UK Director of [igus](https://www.igus.com), the global manufacturer of energy chain systems and polymer plain bearings, said: "The e-loop multi-axis energy supply system combines the advantages of a polymer energy chain with a high-strength rope. The rope absorbs the tensile forces inside the chain and transmits them to the mounting brackets. This means that the cables remain completely free of strain.

"Due to its success, we recently expanded this e-loop series to include a version with crossbars across every second link. It is lightweight and cost-effective, withstands vibrations and shocks and is specifically developed for static applications such as shore power, enabling energy to be supplied from the mast to the power container. This saves on the fuel that would otherwise be used to power vessels while in port, dramatically reducing air pollution."

The e-loop readychain system, harnessed by igus and tested with a Megger VLF Sinus 34kV, has been found to save the user almost 90% procurement and 68% assembly time. In addition, igus has a guarantee of up to 36 months depending on the configuration of the e-loop, and when the machine and system reaches the end of its service life, igus can take it back and recycle it.

igus now offers its energy chains with special connectors and cables as fully tested readychains. The e-loop is also available with rollers and handle modules so that it can be easily moved at quay facilities. It guides cables safely at a defined bend radius and even withstands shocks and impacts.

You can find more information and videos about the e-loop at: [xxxxxxxxxx](#)

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Picture PM4320-1: igus now offers the e-loop with special connectors and cables as a tested and ready-to-connect readychain. (Source: igus GmbH)

igus resources:

-  LiveChat with our technical team at [igus.co.uk](https://www.igus.co.uk)
-  Follow us at twitter.com/igusUK
-  Watch our videos at [igus.co.uk/YouTube](https://www.igus.co.uk/YouTube)
-  Connect to us at [igus.co.uk/Facebook](https://www.igus.co.uk/Facebook)
-  Read our blog at [blog.igus.co.uk](https://www.blog.igus.co.uk)

About igus:

Based in Northampton in the UK and with global headquarters in Cologne, Germany, igus is a leading international manufacturer of energy chain systems and polymer plain bearings. The family-run company is represented in 35 countries and employs over 4000 people around the world. In 2019, igus generated a turnover of 764 million euros with motion plastics, plastic components for moving applications.

With plastic bearing experience since 1964, cable carrier experience since 1971 and continuous-flex cable experience since 1989, igus provides the right solution based on 100,000 products

available from stock, with between 1,500 and 2,500 new product introductions each year. 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.

For further information, please contact:

Erin Kemal

Tel: 01604 677240

Email: ekemal@igus.co.uk

Hannah Durrant

Tel: 01604 677240

Email: hdurrant@igus.co.uk

The terms "igus", "Apro", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "e-spool", "flizz", "ibow", "igear", "iglidur", "igubal", "kineKIT", "manus", "motion plastics", "pikchain", "plastics for longer life", "readychain", "readycable", "ReBeL", "speedigus", "triflex", "roboLink", "xirodur", and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.