

Zigzag modules from the modular e-chain® system

Only ten working days from the configuration through to delivery of individual energy chain systems for vertical applications

With the standard zigzag energy chain module, igus offers a space-saving and cost-effective solution for vertical applications. The zigzag module can be individually configured thanks to the e-chain's modular design and delivered quickly. This offers solutions for guiding energy and data in the theatre, lighting and storage industries as well as in hydraulic work platforms.

All shows need spectacular stage backgrounds and effective lighting, from the Royal Theatre London to the Opera in Barcelona, and in many other musical applications around the world. The necessary stage equipment and lighting fixtures are usually moved vertically. For the reliable supply of data and energy, it is necessary to also guide the required cables vertically. The challenge on the one hand is to have a sufficiently low noise vertical movement and on the other hand to have a visually neat guidance of the cables in a restricted space. In both cases, igus GmbH developed an ingenious solution – the zigzag module: A folding energy chain with all the cables guided safely and neatly stowed away in a standardised box. The energy chain is stored in the box when the platform is down. When the platform goes up the e-chain unfolds and follows the movement – up to 30 m in height. The galvanised steel box can be unobtrusively integrated in the stage elements or fastened to the movable lighting units. When the lighting unit shuts down, the e-chain unfolds downwards. On special request, the box is also available in low-reflection black or in other colours.

Modularity reduces costs

The added value lies in the modularity of the system: The boxes were previously available individually or in small batches, but now the igus standard box can be configured, manufactured and delivered within ten days at a reasonable price without much design effort due to the modular system. The modules can be ordered in the size spectra of 75-500 millimetres chain outer widths as well as 600 to 3000 mm box lengths and up to 2000 mm maximum box height. In this way, expensive special designs are no longer necessary for most applications.

The intelligent design of the zigzag movement allows a silent vertical movement unlike rope retraction systems in comparable applications. Also, the system can carry high loads. On the energy chain a moving end plate is fitted with double strain relief for the cables. The zigzag design is possible with almost all energy chains of the series E2 and E4, but the E4 series offers advantages in installation and filling, because it can be opened on both sides. The standard box is an ideal means of transport for a preassembled energy chain. Thus, the module can be delivered as a complete readychain system and thus can be quickly mounted as a ready-to-install plug & play system with e-chain, chainflex cables and connectors.

Captions:



Picture PM4216-1

The zigzag module for vertical applications: The foldable energy chain can be neatly stowed away in a standardised box. Thanks to the igus modular system the box can be produced quickly and delivered at a cheap price without much design effort. (Source: igus GmbH)

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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 2,950 people around the world. In 2015, igus generated a turnover of 552 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", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "energy chain", "energy chain systems", "flizz", "iglide", "iglidur", "igubal", "invis", "manus", "motion plastics", "pikchain", "readychain", "readycable", "speedigus", "triflex", "twisterchain", "plastics for longer life", "roboLink", "xiros", "xirodur" und "vector" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.