

## **Easy interior separation for E4Q energy chain reduces assembly time**

**Universal separators and shelves with locking tabs ensure simple and flexible e-chain assembly**

**For safe cable guidance in unsupported and long travels, igus has developed the E4Q energy chain. The bionically inspired design saves weight, while crossbars with locking tabs reduces the assembly time of the e-chain by 40 per cent. To facilitate assembly further, igus has launched a new interior separation system for the E4Q. Universal separators are placed on the chain crossbars, shelves can be inserted from the left or right, along either the inner or outer radius. A mechanism in the separators automatically locks the chain when closing.**

The separator and shelving system in the E4Q energy chain needed to be simple and easy to assemble. The result is an integrated energy supply system for unsupported and long travels that uses less material and is 10 per cent lighter than the previous E4.1 series energy chain, achieved through an organic bionically inspired design. In addition, it is more robust and tougher than its predecessor.

Uniquely, the chain can be opened and closed without tools with the help of a special crossbar feature, saving the assembly time by 40 per cent, a popular feature among users as well as the jury of the German Design Award 2021, where the E4Q won a prize for its pioneering design.

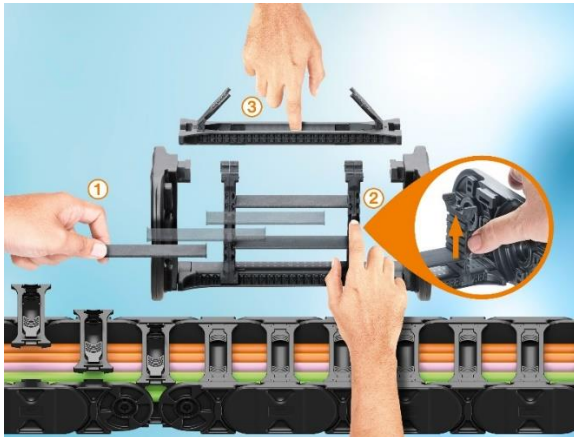
To populate the E4Q with cables even faster, igus has now developed a new flexible interior separation system in co-operation with its customers. The system consists of universal separators and lockable shelves, which keep cables separated on different layers. The cable-protecting separators have fixtures for inserting the shelves. To assemble the interior separation system, the separators are placed on the crossbars, then the shelves can be pushed into the required level from both sides.

### **Double-locked with slider and crossbar**

An integrated slider allows the shelves to be locked in place so that they remain securely fitted even when the cable system accelerates quickly. "Even if the fitter has forgotten to secure the shelf, it's not a problem", explains Justin Leonard, e-chain director at igus. "When the crossbar is inserted, the lock is automatically activated. A foolproof and safe concept for all occasions." To modify the interior separation of the energy chain, the user simply opens the crossbar along the inner or outer radius, depending on the accessibility, then unlocks the shelf via the lateral slider and pulls it out. igus offers the new interior separation system for the four E4Q sizes in different widths.

### **Calculate service life online and have it certified**

The E4Q energy chain is available at the igus online shop [www.igus.co.uk/E4Qblahblahshop](http://www.igus.co.uk/E4Qblahblahshop) and can be configured with cables and the interior separation system by the online e-chain expert. igus provides a guarantee on the complete energy supply system for up to 36 months. The customer can easily generate the certificate online using the service life calculator. When the machine and system reach the end of their service life and the energy chain is no longer in use, igus offer to reclaim it and guarantee full recycling of the components. In return, the customer receives a credit note based on the net weight.



**Picture PM0421-1**

E4Q e-chain; quickly filled and doubly secured: (Source: igus)

**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.

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