

## **igus advances the circular economy with the world's first e-chain made entirely of recycled material**

**Conserving resources and extending the product life cycle – this is the goal igus is pursuing with the new E2.1.CG cradle-chain**

**Cradle-to-cradle: This is the principle of the circular economy, which is abased on nature. The aim: to return consumer goods to the biological or technical cycle in order to conserve valuable resources and raw materials. The motion plastics specialist igus is also pursuing this goal and has now developed the world's first energy chain made from recycled material on the basis of its own “chainge” e-chain recycling program.**

From extreme weather and natural hazards to marine pollution, the climate crisis is getting worse and more and more people are becoming aware of it. “Even the purchasing decisions of our customers are increasingly being shaped by ecological considerations. That is why we have put a lot of effort into product development in order to be able to produce more resource-efficiently – without sacrificing product quality,” explains Jörg Ottersbach, Head of the igus e-chains Business Unit. The result: the E2.1.CG cradle-chain – a complete range of e-chains made from the new igumid CG material. Numerous tests in our own test laboratory show that the new e-chain has almost the same technical properties and load limits as an energy chain made from the standard igumid G material. Another advantage is that the cradle-chain is available at the same price as e-chains made from the standard material. The new range is available from stock in five series and 28 chain types.

### **From discarded e-chain to recycled material**

The cradle-chain uses, among other things, recycled material from the “chainge” recycling program. As part of this program, igus has been collecting used energy chains from customers since 2019 so they do not end up in industrial waste. This service is offered for both igus e-chains and chains from other manufacturers. So far, more than 32 tons of material has been collected

across 13 countries. For 2022, igus has set itself the goal of increasing this total to 500 tons. Scrap material is sorted by type, cleaned and processed to new quality. This is possible with the help of a chemical analysis and formulation tuning- a process in which material is optimized for the desired properties and therefore enables constant product quality. The post-consumer material igumid CG is then used to make the recycled cradle-chain - without any loss of quality in terms of wear behaviour, stability or bending fatigue.

### **Sustainable raw material cycle – with 28% less CO2**

With the new e-chain product range made of recycled material, igus is making a further contribution to conserving resources and advancing the circular economy. According to the Environment Product Declaration, this sustainable raw material cycle also reduces CO2 emissions by 28%. Jörg Ottersbach says, "The focus should not be only on first use of products, but also the reuse of raw materials. We see a lot of 'cradle-to-cradle' potential and strive to reprocess as many raw materials and discarded products as possible so that precious resources are not waste, but used wisely for as long as possible."

#### **Caption:**



**Picture PM2322-1**

More sustainability with consistent quality: The new cradle-chain made of recycled material conserves resources and drives the circular economy forward. (Source: igus GmbH)

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### ABOUT IGUS:

igus GmbH develops and produces motion plastics. These lubrication-free, high-performance polymers improve technology and reduce costs wherever things move. In energy supplies, highly flexible cables, plain and linear bearings as well as lead screw technology made of tribo-polymers, igus is the worldwide market leader. The family-run company based in Cologne, Germany, is represented in 35 countries and employs 4,900 people across the globe. In 2021, igus generated a turnover of €961 million. Research in the industry's largest test laboratories constantly yields innovations and more security for users. 234,000 articles are available from stock and the service life can be calculated online. In recent years, the company has expanded by creating internal startups, e.g. for ball bearings, robot drives, 3D printing, the RBTx platform for Lean Robotics and intelligent "smart plastics" for Industry 4.0. Among the most important environmental investments are the "chainge" programme – recycling of used e-chains - and the participation in an enterprise that produces oil from plastic waste.

The terms "igus", "Apiro", "chainflex", "CFRIP", "conprotect", "CTD", "drygear", "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", "tribofilament", "triflex", "robolink", "xirodur", and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.