

Quickly assembled, securely fixed: New mounting clamps for e-chains on cobots

New clamp concept for triflex R energy chains ensures safe interaction between human and machine

Safety plays a key role when humans and robots work hand in hand in the industry. That is why users of cobots and industrial robots are already using igus' multi-axis round triflex R e-chains for energy and data supply. To easily attach these energy chains and increase work safety in industry, igus has now developed new plastic mounting clamps. With quick installation, these minimise the risk of injury with their rounded edge design.

In the course of Industry 4.0, interaction of human and machine is increasingly becoming the focus of automation. Therefore, collaborative robots are considered the future. The so-called cobots are mainly used as assistants in simple or interacting activities and - in contrast to large and fast industrial robots - work hand in hand with humans. For reliable energy supply to cobots and industrial robots, igus offers the optimal energy chain solution with its triflex R range. In addition to metal clamps, customers can now use new cobot designed clamps to attach the energy chain to the robot arm. The design with rounded edges increases workplace safety by reducing the risk of injury when in contact with the robot. The plastic clamps can be quickly attached to the arm of the robot by a screw connection. The triflex R is simply attached to the clamp by a clip and fixed. The new clamps are suitable for cobots from Universal Robots, TMS and Kuka LBR iiwa robot arms.

triflex energy chains for a safe energy supply on the robot

The triflex R range has been specifically developed for sophisticated 6-axis robots in industrial environments. By combining the flexibility of a hose with the stability of an energy chain, the round triflex R ensures reliable cable guidance in multi-axis movements. A ball/socket principle ensures high tensile strength and easy installation of the e-chain. The interior separation is freely selectable. The circular bend radius stop and the high twistability of the e-chain prevent the over-stressing of cables - this system increases the service

life and operational reliability of the application. The triflex e-chains are available as a complete package with cobot designed clamps, cables and connectors immediately ready for connection.

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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 3,800 people around the world. In 2017, igus generated a turnover of 690 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", "Apiro", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain-systems", "e-ketten", "e-kettensysteme", "e-skin", "flizz", "igear", "iglide", "iglidur", "igubal", "kineKIT", "manus", "motion plastics", "pikchain", "plastics for longer life", "readychain", "readycable", "ReBeL", "speedigus", "triflex", "roboLink", and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.

Caption:



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The new mounting clamps for triflex R energy chains with their rounded design ensure a safe interaction between human and machine. (Source: igus GmbH)