Gripping automation: cost-effective delta robot from igus as a construction kit

At the 2018 automatica, igus presented fast low-cost robots for less than €5,000

Grips easily, cost-effectively and quickly: that's what the new delta robot from igus does! Comprising maintenance-free toothed belt axes, lubrication-free links, encoders and stepper motors, igus has now developed a new and easy automation solution for assembly tasks. Sourced directly from stock as a pre-assembled construction system or delivered ready to install, the unit can be used immediately. The acquisition costs are paid off after half a year.

Automate simple tasks quickly, easily and cost-effectively: this is the goal of igus with its low-cost automation products. Besides its room gantries, the plastics specialist has now developed a completely new product in the form of a delta robot. It was presented to a specialist audience at the 2018 automatica in Munich. The robot is based on three maintenance-free drylin ZLW toothed belt axes, lubrication-free igubal coupling bars and matching adapter plates. NEMA stepper motors and encoders ensure the quick handling of up to 1 kilogram with a precision of ± 0.5 millimetres. The complete system has an installation space of up to 420 millimetres in diameter and can carry up to five kilograms at low speeds. The lightweight construction with aluminium and plastic makes the delta robot extremely cost-effective at a price of less than €5,000 and provides high speeds with a pick rate of at least 60 per minute. "The cost-effective delta robot enables our customers to have their own control box and integration at a cost of around €10,000 to 15,000. They pay off after just a few months, a maximum of half a year," explains Stefan Niermann, head of the drylin linear and drive technology division at igus GmbH.

Available as a modular kit or ready-made system

Depending on the customer's requirements, the new delta robot can be delivered within 24 hours as a pre-assembled construction kit with assembly instructions in a box weighing 18 kilograms, or as a ready-to-install system in a transport frame. As an option, the customer can use their own software and control system, or the intuitive and easy-to-use dryve D1 control system. The use of the delta robot is very apt for simple assembly functions, pick and place tasks, as well as applications in inspection technology. In addition to the delta robot, igus also offers further low-cost robotics systems with its robolink product range. This range offers the user the opportunity to individually assemble robot arms with up to 5 axes from a modular system consisting of different joints with a wide variety of plastic gears, motors and interface connectors.

Caption:

Picture PM3618-1

Quick automation at a low price: the igus delta robot as an easily assembled complete package. (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 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.