

OnRobot launches 3-Finger Electric Gripper for Cylindrical Objects

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OnRobot's 3FG15 three-finger gripper with a 150mm stroke is a powerful alternative to bulkier and less-flexible three-finger grippers



OnRobot, the makers of a full line of plug-and-produce robotics tools for collaborative applications, continues to drive innovation with the release of the compact, large-stroke 3FG15 three-finger gripper. The 3FG15 makes previously hard-to-automate precision handling of cylindrical parts easy to program and deploy and provides flexibility for a wide range of part sizes in healthcare applications.

“Our new 3FG15 three-finger gripper was developed as a response to existing pneumatic three-finger grippers that are bulkier and less flexible,” says CEO of OnRobot, Enrico Krog Iversen. “We have long defined the market for electric parallel grippers with the RG2 and RG6 series, and we look forward to addressing new market segments and applications with a new three-finger gripper that allows users to deploy applications faster even with highly accurate, fixed positioning.”

The 3FG15 gripper has a maximum stroke of 150mm that can easily handle multiple processes. The innovative three-finger design with a 15 kg (33 lb) payload provides a strong, stable grip for both form-fit (internal) or friction fit (external) gripping, adding flexibility to any implementation.

Ideal for CNC machine tending

The gripper's design, specifically developed for machine-tending tasks, automatically centers workpieces, resulting in a strong, stable grip and precise placement in machine chucks. With a gripping force from 10 N to 240 N, the 3FG15 competes with much less flexible finger grippers.

The gripper is also ideal for packaging and palletizing applications, and is seamlessly compatible with any major collaborative or light industrial robot arm through OnRobot's new award-winning One System Solution, the platform that provides a unified mechanical and electrical interface between the robot arms and any OnRobot end-of-arm tooling (EoAT).

3FG15 Features:

Precise stable grip with automatic centering

Large 150mm stroke for parts from 20mm to 150mm

Form fit (internal) and friction fit (external) gripping

15kg payload

Weight 1.15kg, gripping force 10-240 N

Fast, flexible deployment

EoAT Market Gains Traction in Asia

According to Global Market Insights, the global robot EoAT market was worth more than USD 2.5 billion in 2018, with a projected CAGR of 14 per cent from 2019 to 2025. Key factors driving growth include increasing adoption of robots to perform applications such as machine tending, welding and others.

The EoAT market in Asia Pacific, excluding Japan, (APEJ) has been growing exponentially as developing countries transform their industrial landscape with new technologies. In 2018, APEJ EoAT sales accounted for over 51 per cent of the global market. This trend is similar in Southeast Asia which is seeing rapid growth of factory automation.

James Taylor, General Manager, APAC at OnRobot, said: "Southeast Asia continues to be an important market for OnRobot as we see growing investment in robotic automation and greater push by governments to encourage adoption. We are expanding our portfolio of products to provide manufacturers with a wide range of automation solutions that not only offers flexibility and increased production efficiency, but also an easy deployment and a quick return on investment".