

Expand the lineup of collaborative robots. Launching the CMZ12

1. Expansion of the collaborative robot market

Against the backdrop of the declining global workforce and increasing labor costs, the introduction of collaborative robots that can collaborate with people and build space-saving and flexible production lines is rapidly progressing at the manufacturing field.

On the other hand, collaborative robots generally operate at slower speeds and are less productive than humans and non-collaborative robots, so it is important to achieve both safety and high speed, as well as further high accuracy.

2. Our approach

Utilizing the design cultivated in small robots over the years, we launched the CMZ05, a high-speed, high-precision, and safe small collaborative robot, to the market in August 2023. It has contributed to the improvement of productivity at manufacturing fields.

In response to the demands of customers in a wide range of industries, we have added the CMZ12, a collaborative robot with a larger payload capacity of 12 kg and a longer reach than CMZ05, while maintaining high speed, high accuracy, and excellent safety. With class-leading performance of CMZ12, we will incorporate the automation needs of our customers. Going forward, we will continue to expand the CMZ series lineup and increase our market share.

3. Overview of new products

(1) Features

① Top-class high speed and high accuracy in collaborative robots

The lightweight and highly rigid design cultivated through the development of small robots achieves class-leading high speed and high accuracy as a collaborative robot.

- Maximum speed : 1,000mm/sec(Collaborative)
3,000mm/sec(Non-collaborative)
- Position repeatability : ±0.025mm

② Excellent safety

Safety of the workers is ensured by the shape design that meets global safety standards^{※1} and minimize the risk of getting caught in machines and multiple contact monitoring functions. Without safety fences, the cooperative work with humans and robots is realized.

※Acquire1 ISO13849-1・ISO10218-1・ISO/TS15066

③ Suitable for diverse workplaces

The hollow wrist structure does not require any wiring and piping outside the robot unit, reducing the risk of interference with peripheral equipment. It is also equipped with a dust-proof/splash-proof function (equivalent to IP67) as standard and enables to work even in environment where dust and water droplets are scattered.



(2) Product Specifications

- Maximum payload capacity: 12kg
- Maximum reach: 1,214mm^{※2} ※Acquire2 Max. reach when carrying 12kg, 1,000mm
- Weight: 66kg

(3) Release date and sales target

Scheduled for release: August 2024
Price: Open Price
Sales target: 2,400 units/year

4. Inquiries about new products

Robot Business Planning Dept., Robot Division, Nachi-Fujikoshi Corp.,
TEL: +81-(0)76-423-5135