



PRESS RELEASE, 4 October 2021

Lightweight, fully enclosed FANUC robot for machine tending

New portable FANUC LR-10iA/10 offers 10 kg payload and 1101 mm reach

Milano - FANUC has developed a new fully covered robot, the LR-10iA/10, which is not only lightweight and compact, but offers a wide working range and high resistance to dust and water. The combination of low weight, speed, portability and its enclosed structure, makes the new LR-10iA/10 a highly attractive proposition for machine-tool tending applications, as well as tasks in the logistics sector.

Providing a wrist payload of 10 kg, a maximum reach of 1101 mm and a weight of just 46 kg, it is possible to install the LR-10iA/10 in a variety of ways, including on the floor, ceiling or wall. The robot's light weight also makes it ideal for mounting on mobile platforms.

The LR-10iA/10 has the same footprint as the existing LR Mate 200iD/7L, but with 1.4 times the wrist payload and 1.2 times the maximum reach. Furthermore, its IP67 protection rating as standard makes the robot ideal for machine-tool tending, where the presence of contaminants such as coolant, swarf and lubricant is commonplace.

Featuring a slim profile, the new robot can function in narrow spaces within the working envelope of a machine tool, ensuring efficient loading and unloading operations. Picking tasks in the logistics industry, where FANUC has seen increasing demand in recent years, is a further application where deploying the LR-10iA/10 can prove highly beneficial.

The robot supports FANUC's latest R-30iB Plus control in addition to the conventional iPendant as a teaching device, while the intuitive, easy-to-use Tablet TP is also available. Furthermore, as with all FANUC robots, it is possible to configure the LR-10iA/10 with vision sensors and a wide range of intelligent functions that help improve flexibility.

FANUC, which will begin shipping production units of the LR-10iA/10 in January 2022, is showing the LR-10iA/10 at the EMO Milano exhibition (Stand E02, Hall 7). Mounted to a mobile cart, the LR-10iA/10 is serving a FANUC ROBODRILL, highlighting the robot's ability to optimise machine-tool tending applications. During idle times (when waiting for a machining routine to finish), the robot can be seen performing fast, multi-axis movements to showcase its agility and speed.

About FANUC

The FANUC Corporation is one of the worldwide leaders in factory automation for CNC control systems, robots and production machinery (ROBODRILL, ROBOCUT, ROBOSHOT and ROBONANO). Since 1956, FANUC is the pioneer in the development of numerically controlled machines in the automation industry. With 264 FANUC locations worldwide and more than 8,000 employees, FANUC offers a dense network in sales, technical support, research & development, logistics and customer service.

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