

# NexBot Vision FLR022-003 Collaborative Robot Arm 10kg Payload

## NexBot Robotics

SKU: NXB-ROB-FLR022-003 | Category: Robots  
> Collaborative Robots > Floor Cobots  
(5-20kg)

### Overview

The NexBot Vision FLR022-003 is a six-axis collaborative robot arm engineered for flexible automation in environments shared with human operators. This cobot is designed to handle a variety of tasks that require precision and adaptability, making it an ideal solution for small to medium-sized enterprises seeking to enhance productivity without extensive infrastructure changes. Its core design philosophy balances performance with safety, allowing for direct collaboration between the robot and personnel without the need for traditional safety caging in many applications, following a comprehensive risk assessment. Key to its performance is a substantial 10 kg payload capacity, which allows the robot to manage a wide range of end-of-arm tooling and workpieces for applications such as machine tending, assembly, and packaging. The arm provides a generous working envelope with a maximum reach of 1300 mm, offering significant flexibility in cell layout and task execution. With a position repeatability of  $\pm 0.03$  mm, the FLR022-003 executes tasks with the high degree of accuracy required for quality control inspections, precise part insertion, and intricate assembly processes. This level of precision ensures consistent output and reduces material waste. Integrated force-torque sensing in all joints provides immediate feedback and collision detection, enabling the robot to operate safely alongside human workers. The programming interface is intuitive, supporting hand-guiding for quick path teaching as well as an icon-based graphical environment for more complex logic. This accessibility lowers the technical barrier for deployment and operation, reducing integration time and training costs. The robot is built for industrial durability and is suitable for applications across manufacturing, logistics, and electronics assembly. The floor-mounted design ensures stability for high-payload and long-reach operations, providing a reliable platform for your automation needs.

### Technical Specifications

| Parameter | Value | Unit |
|-----------|-------|------|
| Weight    | 35.5  | kg   |

| Parameter         | Value                   | Unit |
|-------------------|-------------------------|------|
| Material          | Anodized Aluminum Alloy |      |
| Voltage           | 48VDC                   |      |
| IP Rating         | IP54                    |      |
| Country of Origin | SE                      |      |
| Protocol          | EtherCAT                |      |
| Reach             | 1300 mm                 |      |
| Payload           | 10 kg                   |      |
| Axes              | 6                       |      |
| Repeatability     | ±0.03 mm                |      |

**Safety Notice:** This product must be installed and operated by qualified personnel in accordance with applicable safety standards (ISO 10218, IEC 61508).