

# NexBot Robotics FLR022-007 Collaborative Robot Arm 10kg Payload

NexBot  
Robotics

SKU: NXB-ROB-FLR022-007 | Category: Robots >  
Collaborative Robots > Floor Cobots (5-20kg)

## Overview

The NexBot Robotics FLR022-007 is a 6-axis collaborative robot arm engineered for medium-payload automation tasks where flexibility and safety are paramount. This cobot is designed to work alongside human operators without the need for extensive safety fencing, enabling new possibilities for hybrid assembly lines and adaptable production cells. Key to its performance is a balanced combination of strength and precision. With a substantial 10 kg payload capacity, the robot arm can handle a wide range of end-of-arm tooling and workpieces for applications such as machine tending, material handling, and packaging. Its generous 1300 mm reach allows it to service multiple stations or work on large components, maximizing its utility within a single workcell. The robot delivers excellent positional accuracy with a repeatability of  $\pm 0.03$  mm, ensuring consistent quality in delicate tasks like dispensing, screwdriving, and quality inspection. Safety is a core design principle of the FLR022-007. Integrated force and torque sensing in all six joints allows the robot to detect unexpected collisions and stop safely, protecting both personnel and equipment. This feature facilitates collaborative workflows, where humans and robots can share a common workspace effectively. The intuitive programming interface, which supports both graphical block-based programming and lead-through teaching, significantly reduces deployment time and allows operators with minimal robotics experience to create and modify routines. This robot is an ideal solution for automating repetitive or ergonomically challenging tasks, freeing up skilled workers to focus on higher-value activities.

## Technical Specifications

Parameter	Value	Unit
Weight	35.5	kg
Material	Cast Aluminum Alloy	
Voltage	48VDC	
IP Rating	IP54	
Country of Origin	KR	
Protocol	EtherCAT	
Reach	1300 mm	

Parameter	Value	Unit
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).