

# NexBot Safety FLR022-008 Collaborative Robot Arm 10kg Payload

NexBot  
Robotics

SKU: NXB-ROB-FLR022-008 | Category: Robots >  
Collaborative Robots > Floor Cobots (5-20kg)

## Overview

The NexBot Safety FLR022-008 is a versatile 6-axis collaborative robot arm engineered for seamless integration into a wide range of industrial applications. This cobot is designed to work alongside human operators without the need for traditional safety caging, enhancing productivity and operational flexibility. Its core design principle is safety, incorporating advanced force and torque sensing on all joints to ensure immediate and safe stops upon contact. Key to its performance is a substantial 10 kg payload capacity, which allows the robot to handle a variety of parts, tools, and end-effectors for tasks that are too strenuous or repetitive for manual labor. This capability makes it an ideal solution for automating processes like machine tending, complex assembly, and high-throughput pick-and-place operations. The arm's impressive 1300 mm reach provides a large work envelope, enabling it to service multiple machines or cover extensive assembly areas from a fixed position. Precision is paramount in modern manufacturing, and the FLR022-008 delivers with an exceptional position repeatability of  $\pm 0.03$  mm. This high degree of accuracy ensures that tasks are performed consistently cycle after cycle, which is critical for quality control, inspection, and delicate material handling. The robot's intuitive programming interface simplifies deployment, reducing the time and technical expertise required to set up and modify automation workflows. The robust construction and use of high-quality components ensure reliable performance and durability in demanding industrial environments. By deploying this collaborative robot, facilities can reallocate skilled labor to more value-added tasks, improve workplace ergonomics, and achieve consistent production output.

## Technical Specifications

Parameter	Value	Unit
Weight	32.5	kg
Material	Cast Aluminum	
Voltage	48VDC	
IP Rating	IP54	
Country of Origin	US	
Protocol	PROFINET	

Parameter	Value	Unit
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).