

# NexBot Vision LA013-003 6-Axis Robot Arm 120kg Payload

**NexBot  
Robotics**

SKU: NXB-ROB-LA013-003 | Category: Robots  
> Articulated Robots > Large Articulated  
(50-200kg)

## Overview

The NexBot Vision LA013-003 is a versatile 6-axis articulated robot arm engineered for high-payload applications in demanding industrial environments. With a substantial payload capacity of 120 kg, this robot arm is built to handle heavy workpieces and tooling with ease, making it an ideal solution for material handling, machine tending, and loading/unloading large parts. Its extended horizontal reach of 2,650 mm creates a large, flexible work envelope, allowing it to service multiple stations, access points within large machinery, or stack pallets to significant heights without repositioning. This combination of strength and reach directly translates to increased throughput and operational efficiency in your production line. The LA013-003 features a six-axis design that provides exceptional dexterity for complex movements and tool orientations. This flexibility is critical for intricate processes such as path-following for dispensing, spot welding, or complex assembly tasks. Coupled with a high position repeatability of  $\pm 0.05$  mm, the robot ensures that every cycle is performed with precision, leading to consistent product quality and reduced waste. The robust construction of the arm minimizes vibration and deflection even during high-speed movements, further contributing to its accuracy. Designed for reliability and long service life, the robot arm is constructed from high-strength materials and features an IP67 rating, providing complete protection against dust ingress and water immersion. This makes it suitable for deployment in harsh manufacturing settings, including those with exposure to coolants, particulates, or washdown procedures. Integration into existing automation systems is streamlined through compatibility with NexBot Robotics controllers and standard communication interfaces. The arm's mounting base is designed for straightforward installation, reducing setup time and costs. The NexBot Vision LA013-003 robot arm is a powerful and reliable automation tool, delivering the payload, reach, and precision required for challenging industrial applications.

## Technical Specifications

Parameter	Value	Unit
Weight	1050.0	kg

Parameter	Value	Unit
Material	High-strength cast aluminum alloy	
Voltage	400-480VAC 3-Phase	
IP Rating	IP67	
Country of Origin	US	
Protocol	PROFINET	
Reach	2650 mm	
Payload	120 kg	
Axes	6	
Repeatability	±0.05 mm	

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