

# NexBot Robotics

## LA013-001 6-Axis Robot Arm 120kg Payload

NexBot  
Robotics

SKU: NXB-ROB-LA013-001 | Category: Robots  
> Articulated Robots > Large Articulated  
(50-200kg)

### Overview

The NexBot Robotics LA013-001 is a six-axis articulated robot arm engineered for high-payload, long-reach industrial applications. This robot provides an optimal balance of speed, power, and precision for tasks that require moving heavy objects over a large work area, making it ideal for automating demanding processes in manufacturing and logistics. Featuring a robust payload capacity of 120 kg, the LA013-001 arm can effortlessly handle large workpieces, heavy tooling, and complex end-of-arm-tooling (EOAT) assemblies. Its substantial horizontal reach of 2,655 mm allows it to service multiple stations, tend larger machines, or stack pallets to significant heights, maximizing the efficiency of the production floor. The six degrees of freedom ensure exceptional dexterity, enabling the arm to maneuver in complex paths and reach confined spaces within a workcell, which is critical for intricate assembly or processing tasks. Built for reliability in demanding factory environments, the LA013-001 features a rigid mechanical structure made from cast iron and aluminum alloy. The entire arm is sealed to an IP67 rating, providing complete protection against dust ingress and temporary water immersion, ensuring dependable operation in environments with coolants, dust, or wash-down procedures. With a position repeatability of  $\pm 0.06$  mm, this robot arm delivers the consistency required for high-quality production in applications such as spot welding, material handling, machine tending, and palletizing. Its streamlined design facilitates straightforward integration into new or existing automation cells, minimizing deployment time. The LA013-001 robot arm is a powerful and versatile solution for boosting throughput and handling the toughest automation challenges.

### Technical Specifications

Parameter	Value	Unit
Weight	1280.0	kg
Material	Cast Iron and Aluminum Alloy	
Voltage	400-480VAC 3-Phase	

Parameter	Value	Unit
IP Rating	IP67	
Country of Origin	KR	
Protocol	PROFINET	
Dimensions	950 x 750 mm (Base Footprint)	
Reach	2,655 mm	
Payload	120 kg	
Axes	6	
Repeatability	±0.06 mm	

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