

NexBot Robotics LA013-009 6-Axis Robot Arm 120kg Payload

NexBot
Robotics

SKU: NXB-ROB-LA013-009 | Category: Robots > Articulated Robots > Large Articulated (50-200kg)

Overview

The NexBot Robotics LA013-009 is a powerful 6-axis articulated robot arm designed for high-payload industrial automation tasks. Engineered for reliability and performance, this robot provides the strength and dexterity required for the most demanding manufacturing environments. Its primary use case involves the manipulation of heavy objects with high precision across a large operational area. The standout feature of the LA013-009 is its substantial 120 kg payload capacity. This enables the arm to handle heavy workpieces, large fixtures, or multiple parts simultaneously, significantly increasing throughput in applications like CNC machine tending, injection molding machine unloading, and large-scale assembly. The six axes of motion provide exceptional flexibility, allowing the robot to execute complex paths and reorient tools to access difficult-to-reach points, which is critical for tasks such as spot welding or applying sealants around complex geometries. With a horizontal reach of 2550 mm, the robot arm commands a large, versatile work envelope. This extended reach allows it to service multiple machines, load and unload wide conveyors, or build tall pallet stacks without requiring auxiliary linear tracks, simplifying cell design and reducing footprint. The robot maintains a position repeatability of ± 0.05 mm, ensuring that every cycle is performed with consistent accuracy. This level of precision is essential for achieving high-quality results in processes like material deposition, parts inspection, and intricate assembly operations. The robust cast iron and aluminum alloy construction, coupled with an IP67 rating for the arm, ensures long-term durability even in environments with dust, debris, and fluids. The streamlined design integrates internal routing for utilities, protecting them from wear and reducing the risk of snagging during operation.

Technical Specifications

Parameter	Value	Unit
Weight	1350.0	kg
Material	Cast Iron and Aluminum Alloy	
Voltage	400-480VAC 3-Phase	
IP Rating	IP67 (Arm) / IP54 (Base)	
Country of Origin	CH	
Protocol	PROFINET	

Parameter	Value	Unit
Dimensions	850 x 700 mm (Footprint)	
Reach	2550 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).