

NexBot Robotics LA013-007 6-Axis Robot Arm 120kg Payload

NexBot
Robotics

SKU: NXB-ROB-LA013-007 | Category: Robots > Articulated Robots > Large Articulated (50-200kg)

Overview

The NexBot Robotics LA013-007 is a high-payload, 6-axis articulated robot arm designed for demanding industrial automation tasks requiring both strength and precision. This robot is engineered to handle substantial loads and complex movements, making it an ideal solution for automating processes in manufacturing, logistics, and assembly environments. Featuring a robust 120 kg payload capacity, the LA013-007 robot arm can effortlessly manage heavy workpieces, large end-of-arm tooling, or multiple parts in a single cycle, significantly increasing throughput. Its expansive horizontal reach of 2,702 mm provides a large, versatile work envelope, enabling it to service multiple machines, cover wide conveyor belts, or stack pallets to considerable heights. This extended reach minimizes the need for additional transfer mechanisms and optimizes floor space utilization. Precision is paramount in modern automation. The LA013-007 delivers exceptional path accuracy and a position repeatability of ± 0.05 mm, ensuring consistent quality in applications like spot welding, material dispensing, and large-part assembly. The arm's rigid construction, utilizing a combination of cast iron and high-strength aluminum alloys, minimizes vibration and deflection even during high-speed operations. The streamlined design incorporates internal routing for cables and air lines, reducing interference and wear while simplifying integration. Built for reliability in harsh industrial settings, the robot arm is sealed to an IP67 rating, providing complete protection against dust and liquid ingress. This makes it suitable for deployment in environments with coolants, dust, or washdown requirements. Common applications for the LA013-007 include heavy-duty machine tending for CNCs and injection molding machines, end-of-line palletizing and depalletizing, automotive sub-assembly handling, and foundry operations. Its combination of high payload, long reach, and durable design provides a powerful and dependable automation platform.

Technical Specifications

Parameter	Value	Unit
Weight	1280.0	kg
Material	Cast Iron and Aluminum Alloy	
Voltage	400-480VAC 3-Phase	
IP Rating	IP67 (Arm) / IP54 (Base)	
Country of Origin	KR	

Parameter	Value	Unit
Protocol	PROFINET	
Dimensions	850 x 720 mm (Base Footprint)	
Reach	2,702 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).