

NexBot Robotics HA014-001 6-Axis Robot Arm 250kg Payload

NexBot
Robotics

SKU: NXB-ROB-HA014-001 | Category: Robots > Articulated Robots > Heavy Articulated (>200kg)

Overview

The NexBot Robotics HA014-001 is a six-axis articulated robot arm engineered for high-payload applications in demanding industrial environments. This robot combines a substantial 250 kg payload capacity with a generous 3100 mm horizontal reach, making it an ideal solution for automating tasks involving large or heavy workpieces over a significant operational area. The robust construction of the HA014-001 ensures high rigidity and minimal vibration, which is critical for maintaining its position repeatability of ± 0.07 mm even at high speeds and full extension. Its six axes of motion provide exceptional dexterity, allowing the arm to perform complex movements and access difficult-to-reach points, which is essential for applications like machine tending, intricate material handling, and spot welding around complex fixtures. The arm's internal routing for utilities helps protect them from wear and tear, reducing downtime and simplifying integration. Key benefits of the HA014-001 robot include increased throughput and enhanced operational safety. By automating physically demanding and repetitive tasks, it allows personnel to be reassigned to higher-value roles while ensuring consistent production quality around the clock. The sealed joints and IP67-rated body provide reliable protection against dust and liquids, making the robot arm suitable for harsh settings such as foundries, automotive assembly plants, and general manufacturing facilities. Common applications include: - Heavy payload material handling and transfer - Palletizing and depalletizing of bulk goods - Automotive body-in-white (BIW) assembly and spot welding - Tending large CNC machines and presses - Foundry and casting operations The HA014-001 is engineered for longevity and ease of maintenance, with durable components designed to withstand continuous industrial use. Its powerful performance and large work envelope make it a cornerstone for factory automation projects focused on maximizing productivity and efficiency for heavy-duty processes.

Technical Specifications

Parameter	Value	Unit
Weight	2350.0	kg
Material	Cast Iron and Forged Steel	
Voltage	480VAC	
IP Rating	IP67	
Country of Origin	KR	

Parameter	Value	Unit
Protocol	PROFINET	
Reach	3100 mm	
Payload	250 kg	
Axes	6	
Repeatability	±0.07 mm	

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