

# NexBot Robotics HA014-005 6-Axis Robot Arm 250kg Payload

NexBot  
Robotics

SKU: NXB-ROB-HA014-005 | Category: Robots > Articulated Robots > Heavy Articulated (>200kg)

## Overview

The NexBot Robotics HA014-005 is a six-axis industrial robot arm designed for high-payload automation applications in demanding manufacturing environments. This robot provides a robust solution for tasks that require significant lifting capacity and a large work envelope, streamlining operations that are otherwise labor-intensive or ergonomically challenging. Its heavy-duty construction and powerful drive system deliver consistent performance under continuous operation. The key feature of the HA014-005 is its substantial 250 kg payload capacity, which enables the handling of heavy workpieces such as automotive components, large castings, or fully loaded pallets. This capability allows for the automation of heavy material transfer and machine tending for large CNCs. The robot arm also features an extensive horizontal reach of 3,100 mm, creating a vast, flexible work area. This extended reach is ideal for servicing multiple stations, stacking pallets to significant heights, or accessing points across large machinery, maximizing floor space utilization. Precision is maintained even at high speeds and full extension, with a position repeatability of  $\pm 0.07$  mm. This level of accuracy is critical for applications like spot welding, large-part assembly, and precise material placement, ensuring consistent product quality and minimizing waste. The six degrees of freedom provide the dexterity needed for complex tool manipulation and movement around obstacles within a crowded production cell. The arm's IP67-rated structure ensures it is fully protected against dust and water ingress, making it suitable for harsh conditions found in foundries, machining shops, and general manufacturing facilities. The internally routed cabling minimizes interference and wear, contributing to higher uptime and reduced maintenance. The standardized base mounting pattern simplifies integration into new or existing automation cells.

## Technical Specifications

Parameter	Value	Unit
Weight	2350.0	kg
Material	Cast Iron and Aluminum Alloy	
Voltage	480VAC	
IP Rating	IP67	
Country of Origin	IT	
Protocol	PROFINET	

Parameter	Value	Unit
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).