

# NexBot Robotics

## SA011-004 6-Axis Robot

### Arm 10kg Payload

NexBot  
Robotics

SKU: NXB-ROB-SA011-004 | Category: Robots  
> Articulated Robots > Small Articulated  
(≤10kg)

## Overview

The NexBot Robotics SA011-004 is a versatile 6-axis articulated robot arm engineered for precision automation in applications with payloads up to 10 kg. This robot provides an optimal balance of speed, payload capacity, and working envelope, making it suitable for a wide range of industrial tasks. Its robust construction and high-performance servo system deliver reliable operation in demanding production environments. The key to the SA011-004's performance is its combination of a generous 1100 mm reach and exceptional position repeatability of  $\pm 0.02$  mm. This level of precision ensures that processes such as intricate assembly, material dispensing, and quality inspection are performed consistently, reducing cycle times and improving product quality. The 10 kg payload capacity allows the arm to handle a variety of parts and end-of-arm tooling, from small electronic components to larger machined parts. The six axes of motion provide maximum dexterity, enabling the robot to maneuver around obstacles and access difficult-to-reach points within a work cell. Constructed from high-strength cast aluminum alloy, the robot arm's structure is both lightweight and rigid, minimizing vibration and settling time for faster, more accurate movements. The arm is rated at IP54 for the main body with an enhanced IP67 rating for the wrist, ensuring protection against dust and water ingress in typical industrial settings. This durability makes the robot arm a dependable asset for applications including pick-and-place, packaging, palletizing, and machine tending. Integration into existing automation systems is streamlined through standardized communication interfaces and a compact mounting footprint.

## Technical Specifications

Parameter	Value	Unit
Weight	65.0	kg
Material	Cast Aluminum Alloy	
Voltage	400VAC 3-Phase	
IP Rating	IP54 (Body), IP67 (Wrist)	

Parameter	Value	Unit
Country of Origin	IT	
Protocol	PROFINET	
Reach	1100 mm	
Payload	10 kg	
Axes	6	
Repeatability	±0.02 mm	

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