

NexBot Drives

SA011-002 6-Axis Robot

Arm 10kg Payload

NexBot

Robotics

SKU: NXB-ROB-SA011-002 | Category: Robots
> Articulated Robots > Small Articulated
(≤10kg)

Overview

The NexBot Drives SA011-002 is a high-performance 6-axis articulated robot arm engineered for applications requiring precision, speed, and a compact footprint. This robot provides an exceptional combination of payload capacity and agility, making it a suitable choice for automating a wide range of industrial processes. Its robust construction ensures reliable operation in demanding manufacturing environments, delivering consistent performance cycle after cycle. The key to the SA011-002's performance is its design. With six axes of motion, the arm offers maximum flexibility, capable of reaching challenging orientations and positions within its work envelope, similar to a human arm. This dexterity is critical for complex assembly, dispensing, and machine tending tasks. It supports a substantial 10 kg payload, allowing it to handle a variety of end-of-arm tooling and workpieces without compromising speed or accuracy. The arm's impressive reach of 1300 mm provides a generous work area, enabling it to service multiple machines or stations within a single automated cell. Furthermore, its position repeatability of ±0.02 mm ensures that tasks are performed with the highest degree of precision, which is essential for quality control in electronics manufacturing and intricate assembly operations. Typical applications for the SA011-002 robot arm include high-speed pick-and-place, CNC machine tending, parts transfer, precision assembly, and automated dispensing. The arm's rigid structure minimizes vibration, even during rapid movements, contributing to its high accuracy. Installation is streamlined with a standardized base mounting flange and integrated air and electrical lines, reducing setup time and potential points of failure. The smooth, sealed surfaces simplify cleaning and maintenance, making it suitable for various industrial settings.

Technical Specifications

Parameter	Value	Unit
Weight	165.0	kg
Material	Cast Aluminum Alloy	
Voltage	400-480VAC 3-Phase	

Parameter	Value	Unit
IP Rating	IP54	
Country of Origin	KR	
Protocol	PROFINET	
Reach	1300 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).