

NexBot Vision MA012-011 6-Axis Robot Arm 25kg Payload

NexBot Robotics

SKU: NXB-ROB-MA012-011 | Category: Robots > Articulated Robots > Medium Articulated (10-50kg)

Overview

The NexBot Vision MA012-011 is a high-performance 6-axis articulated robot arm designed for a wide range of industrial automation applications requiring precision and reliability. This robot provides an exceptional balance of speed, payload capacity, and working envelope, making it a versatile solution for complex manufacturing challenges. Engineered for medium-duty tasks, the MA012-011 features a substantial 25 kg payload capacity. This allows it to handle parts, tools, and materials with ease, making it ideal for applications such as CNC machine tending, where it can load and unload workpieces consistently around the clock. The arm's robust construction, combined with its six degrees of freedom, provides the dexterity needed to perform intricate movements in confined spaces. This is critical for tasks like arc welding, sealing, and complex assembly operations where the tool must be precisely oriented. A key performance attribute is its impressive horizontal reach of 1750 mm, which creates a large, optimized work envelope. This extended reach enables the arm to service multiple machines, access wide pallets, or cover large workpieces without repositioning, maximizing productivity and floor space utilization. Furthermore, the robot achieves a position repeatability of ± 0.03 mm, ensuring that every cycle is performed with exceptional accuracy. This level of precision is vital for quality-critical processes in electronics assembly, metrology, and finishing, reducing defects and rework. Built for durability in demanding industrial environments, the arm is protected with an IP67 rating, making it resistant to dust and water ingress. This ensures dependable operation in facilities with coolants, particulates, or wash-down requirements. The streamlined design facilitates straightforward installation and integration into new or existing production lines. The MA012-011 robot arm is a powerful tool for manufacturers seeking to enhance efficiency, improve product quality, and create a safer, more productive workplace.

Technical Specifications

Parameter	Value	Unit
Weight	285.0	kg
Material	Cast Aluminum Alloy	
Voltage	400-480VAC 3-Phase	
IP Rating	IP67 (Arm) / IP54 (Base)	
Country of Origin	JP	
Protocol	PROFINET	

Parameter	Value	Unit
Reach	1750 mm	
Payload	25 kg	
Axes	6	
Repeatability	±0.03 mm	

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