

NexBot Safety MA012-008 6-Axis Robot Arm 25kg Payload

NexBot Robotics

SKU: NXB-ROB-MA012-008 | Category: Robots > Articulated Robots > Medium Articulated (10-50kg)

Overview

The NexBot Safety MA012-008 is a versatile 6-axis articulated robot arm engineered for demanding industrial automation applications requiring precision and durability. This robot arm is an ideal solution for medium-payload operations, providing a balance of speed, strength, and a large work envelope to enhance production line efficiency and flexibility. Key Features and Benefits: The MA012-008 features a substantial 25 kg payload capacity, which allows it to handle a wide variety of parts, fixtures, and end-of-arm tooling. This capability makes it highly effective for tasks that are too strenuous or repetitive for manual labor. With an extensive reach of 1710 mm, the arm can service multiple machines, cover large work areas, and access difficult-to-reach points within a work cell, maximizing its utility. The six axes of motion provide exceptional dexterity, enabling complex tool paths and orientations necessary for intricate assembly, welding, and material handling tasks. Engineered for precision, this robot arm delivers an impressive position repeatability of ± 0.04 mm. This level of accuracy is critical for applications where quality and consistency are paramount, such as parts inspection, precise assembly, and dispensing. The robust construction, featuring a cast aluminum body and an IP67 rating, ensures reliable performance in harsh industrial environments with exposure to dust and liquids. Common Applications: - Machine Tending (CNC, injection molding) - Arc Welding and Spot Welding - Material Handling and Transfer - Palletizing and Depalletizing - Assembly and Dispensing The streamlined design facilitates straightforward integration into new or existing automation systems. Standard mounting patterns and connectivity options reduce setup time, allowing for faster deployment and return on investment. The MA012-008 represents a reliable and powerful tool for automating key manufacturing processes.

Technical Specifications

Parameter	Value	Unit
Weight	275.0	kg
Material	Cast Aluminum Alloy	
Voltage	480VAC	
IP Rating	IP67	
Country of Origin	JP	
Protocol	PROFINET	

Parameter	Value	Unit
Dimensions	650 x 580 mm (Base Footprint)	
Reach	1710 mm	
Payload	25 kg	
Axes	6	
Repeatability	±0.04 mm	

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