

NexBot Safety MA012-012 6-Axis Robot Arm 25kg Payload

NexBot Robotics

SKU: NXB-ROB-MA012-012 | Category: Robots > Articulated Robots > Medium Articulated (10-50kg)

Overview

The NexBot Safety MA012-012 is a high-performance 6-axis articulated robot arm engineered for medium-payload applications requiring precision, speed, and reliability. This robot is designed to automate repetitive and demanding tasks, improving productivity and consistency in manufacturing environments. Its robust construction and advanced motion control make it an excellent choice for a wide range of industrial processes. Key Features: With a substantial 25 kg payload capacity, this robot arm can handle a variety of parts and end-of-arm tooling, making it versatile for tasks from pick-and-place to machine tending and dispensing. Its horizontal reach of 1710 mm provides an extensive work envelope, allowing it to service multiple stations or large workpieces without requiring complex cell layouts. The arm achieves a position repeatability of ± 0.05 mm, ensuring consistent and accurate execution of programmed paths, which is critical for quality-sensitive assembly and inspection processes. The MA012-012 is built with a rigid yet lightweight cast aluminum body, providing excellent vibration damping and thermal stability for continuous, high-duty-cycle operation. Internal routing for pneumatics and I/O signals minimizes interference and wear on external lines, simplifying installation and reducing maintenance downtime. The streamlined design of the arm allows for operation in confined spaces while maximizing its operational range. This robot is an adaptable automation solution for applications including material handling, packaging, palletizing, and automated assembly. Its combination of payload, reach, and precision offers a capable platform for enhancing manufacturing efficiency.

Technical Specifications

Parameter	Value	Unit
Weight	285.0	kg
Material	Cast Aluminum Alloy	
Voltage	400-480VAC 3-Phase	
IP Rating	IP67	
Country of Origin	KR	
Protocol	PROFINET	
Reach	1710 mm	

Parameter	Value	Unit
Payload	25 kg	
Axes	6	
Repeatability	±0.05 mm	

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