

NexBot Robotics LA013-010 6-Axis Robot Arm 120kg Payload

NexBot
Robotics

SKU: NXB-ROB-LA013-010 | Category: Robots > Articulated Robots > Large Articulated (50-200kg)

Overview

The NexBot Robotics LA013-010 is a high-performance, six-axis articulated robot arm engineered for demanding industrial tasks requiring significant payload capacity and extensive reach. This robot is specifically designed to enhance productivity and reliability in heavy-duty automation cells. Its robust construction ensures dependable operation in challenging manufacturing environments, from foundries to automotive assembly lines. The primary benefit of the LA013-010 is its substantial 120 kg payload capacity, which allows it to handle large workpieces, heavy tooling, and complex end-of-arm fixtures with ease. This capability makes it an ideal solution for machine tending of large CNCs, transferring engine blocks, or palletizing full layers of product. The arm's six degrees of freedom provide maximum dexterity, enabling it to follow complex paths and orient tools precisely, even in constrained spaces. Combined with an impressive horizontal reach of 2655 mm, this robot arm can service a large work envelope, increasing operational flexibility. Key to its performance is a position repeatability of ± 0.05 mm, which guarantees that processes like spot welding, material dispensing, and component assembly are performed with consistent accuracy, reducing defects and improving final product quality. The internally routed cabling and hosing minimize interference and wear, simplifying installation and reducing maintenance downtime. The sealed joints and IP67-rated body protect internal components from dust and liquids, making the arm suitable for harsh industrial settings. Typical applications for the LA013-010 robot include: - High-payload material handling - Palletizing and depalletizing - Automotive body shop operations - Large-format machine tending - Die casting and foundry automation

Technical Specifications

| Parameter | Value | Unit |
|-------------------|------------------------------|------|
| Weight | 1280.0 | kg |
| Material | Cast Iron and Aluminum Alloy | |
| Voltage | 480VAC | |
| IP Rating | IP67 | |
| Country of Origin | KR | |
| Protocol | PROFINET | |

| Parameter | Value | Unit |
|---------------|---------------------|------|
| Dimensions | 850 x 750 x 1200 mm | |
| Reach | 2655 mm | |
| Payload | 120 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).