

# NexBot Robotics 821-005 IP67 Joint Cover

NexBot  
Robotics

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## Overview

The NexBot Robotics 821-005 Joint Cover is a high-performance protective shield engineered to safeguard the critical articulation points of NexBot industrial robots. This cover is specifically designed to prevent the ingress of contaminants such as dust, metal shavings, and liquids into sensitive joint mechanisms, thereby extending the operational life of the robot and reducing unscheduled downtime. Its primary function is to maintain the integrity of the internal joint components in harsh industrial environments. Constructed from a high-impact, glass-reinforced nylon (PA66-GF30), the 821-005 cover offers exceptional resistance to abrasion, impact, and common industrial chemicals. This robust material ensures long-term durability without adding significant weight to the robot arm. The cover is precision-molded to ensure a perfect fit on compatible joint positions, which is critical for maintaining the robot's full range of motion without interference. The design incorporates a seamless interface that prevents snagging on external cables or equipment. A key feature of this cover is its IP67 rating, which certifies that it is completely dust-tight and protected against the effects of temporary immersion in water up to 1 meter. This level of protection makes it an ideal solution for applications in demanding sectors like food and beverage processing, automotive manufacturing, and CNC machine tending, where washdowns or exposure to coolants and oils are common. The cover is designed for an operating temperature range of -20°C to 80°C, ensuring reliable performance across various factory conditions. Installation is straightforward, utilizing the robot's existing mounting points for a secure and vibration-resistant fit. By shielding the joint, this cover simplifies maintenance procedures by keeping the underlying components cleaner and reducing the frequency of intensive cleaning. It is an essential accessory for any facility looking to maximize robot uptime and protect their automation investment.

## Technical Specifications

Parameter	Value	Unit
Weight	0.85	kg
Material	Glass-Reinforced Nylon (PA66-GF30)	
IP Rating	IP67	
Country of Origin	SE	
Dimensions	210 x 185 x 150 mm	

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

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