

NexBot Vision AC811-003 Servo Mounting Bracket

NexBot
Robotics

SKU: NXB-SRV-AC811-003 | Category: Accessories & Mounting > Brackets & Adapters > Servo Mounting Brackets

Overview

The NexBot Vision AC811-003 is a high-strength aluminum mounting bracket designed for the precise and secure installation of servo units on select NexBot industrial and collaborative robots. This component is essential for maintaining positional accuracy and reliability in demanding automation tasks by providing a stable and rigid connection between the robot arm structure and the servo body. Constructed from a solid block of 6061-T6 aluminum, the bracket offers an excellent strength-to-weight ratio, contributing minimal mass to the robot's wrist assembly while ensuring maximum structural integrity. The material's high thermal conductivity also assists in passively dissipating heat generated by the servo during operation, which can contribute to longer component life. Each bracket is CNC machined to exceptionally tight tolerances (± 0.05 mm), guaranteeing perfect alignment with both the robot joint and the servo's mounting points. This precision eliminates mechanical stress that can arise from misaligned components, preventing premature wear and maintaining the robot's specified repeatability. The design features integrated reinforcement ribs that enhance stiffness and reduce micro-vibrations, a critical factor in applications like robotic welding, dispensing, and high-speed assembly where path accuracy is paramount. The bracket is finished with a hard-coat anodization, providing a durable, corrosion-resistant surface suitable for harsh industrial environments. With dimensions of 110 x 75 x 40 mm, this compact mount is engineered for a seamless fit. Installation is straightforward, utilizing the included high-tensile mounting hardware to create a secure, maintenance-free connection for critical servo positioning.

Technical Specifications

Parameter	Value	Unit
Weight	0.45	kg
Material	Aluminum 6061-T6	
Country of Origin	CH	
Protocol	PROFINET	
Dimensions	110 x 75 x 40 mm	
Torque	3 Nm	

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