

NexBot Robotics AC811-004 Aluminum Servo Mounting Bracket

NexBot
Robotics

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Overview

The NexBot Robotics AC811-004 is a precision-engineered mounting bracket designed to securely affix servo units to specific joints of NexBot industrial robot arms. This component provides a stable and rigid interface between the servo body and the robot's structural frame, which is critical for maintaining positional accuracy and repeatability during high-speed operations. Its primary function is to eliminate flex and vibration at the mounting point, ensuring that the servo's output is translated into precise motion without loss of fidelity. Constructed from a solid billet of aerospace-grade Aluminum 6061-T6, this bracket offers an exceptional strength-to-weight ratio. Weighing just 0.45 kg, it provides robust support without adding unnecessary mass to the robot arm, which helps maintain high acceleration and deceleration profiles. The entire component is protected by a Type II anodized finish, providing excellent resistance to corrosion, chemicals, and abrasion commonly found in industrial settings. This durable coating ensures a long service life even in demanding production environments. Every AC811-004 bracket is CNC-machined to exacting tolerances, with overall dimensions of 110 x 75 x 20 mm. This precision manufacturing process guarantees a perfect fit with compatible servo models and robot joint interfaces. The design incorporates integrated webbing and stiffening ribs to further enhance rigidity and dampen harmonic vibrations, protecting sensitive servo internals and contributing to smoother overall robot motion. This makes the mount ideal for applications such as intricate assembly, material handling, and automated inspection where precision is paramount. Installation is streamlined with pre-drilled and tapped holes that match standard NexBot servo patterns, ensuring correct alignment and reducing integration time.

Technical Specifications

Parameter	Value	Unit
Weight	0.45	kg
Material	Aluminum 6061-T6, Anodized	
Country of Origin	CH	
Protocol	PROFINET	
Dimensions	110 x 75 x 20 mm	

Parameter	Value	Unit
Torque	4 Nm	

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