NexBot Vision 762-003 Joint Overhaul Hardware Kit

NexBot Robotics

SKU: NXB-KIT-762-003 | Category: Wear Parts & Consumables > Robot Maintenance Kits > Joint Overhaul Kits

Overview

The NexBot Vision 762-003 Joint Overhaul Hardware Kit provides all necessary specialized fasteners and alignment components to restore the mechanical integrity and precision of high-load robot joints. This kit is designed for scheduled major service intervals or for repairs where joint backlash has exceeded operational tolerances. By replacing critical, high-stress hardware, technicians can ensure the robot maintains its specified positioning accuracy and long-term reliability. Key components include a complete set of Grade 12.9 high-tensile fasteners, which provide superior clamping force and fatigue resistance compared to standard hardware, directly contributing to a rigid and responsive joint structure. The kit also contains precision-ground hardened steel alignment dowels. These are essential for correctly positioning internal components during reassembly, a critical step for achieving the robot's original ±0.05 mm repeatability specification. A multi-thickness shim set allows for fine adjustment of mechanical clearances, enabling technicians to compensate for minor wear and tune joint performance to factory standards. This kit is specifically intended for use in demanding industrial applications such as high-speed pick-and-place, CNC machine tending, and assembly tasks where consistent robot performance is paramount. Proper installation requires adherence to the official NexBot service manual and the use of calibrated torque wrenches. The kit is engineered to service the J2, J3, and J5 axes, which typically experience the highest dynamic loads. Using this kit as part of a preventative maintenance program helps extend the operational life of the robotic arm and prevent unscheduled downtime.

Technical Specifications

Parameter	Value	Unit
Weight	2.5	kg
Country of Origin	US	
Dimensions	300 x 200 x 75 mm	

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