

NexBot Robotics

832-001 Hardened Steel Dowel Pin and Key Set

NexBot
Robotics

SKU: NXB-GEN-832-001 | Category:
Accessories & Mounting > Fasteners &
Hardware > Dowel Pins & Keys

Overview

The NexBot Robotics 832-001 Dowel Pin and Key Set provides a comprehensive collection of precision-ground fasteners essential for accurately locating and securing components in robotic assemblies. This set is engineered to meet the strict tolerance requirements for maintaining positional accuracy and repeatability in NexBot systems. Each component in the set is manufactured from high-carbon alloy steel, which is then hardened and tempered to achieve a surface hardness of approximately 60 HRC. This process provides exceptional shear strength and wear resistance, critical for components subjected to high torque and vibrational loads within a robot joint. The high shear strength prevents shifting of critical components like motor flanges and gearbox housings during operation, which directly contributes to the robot's overall precision. The pins feature a precision-ground finish to an 8 micro-inch surface roughness, ensuring smooth insertion and removal without galling the mating parts. This fastener set includes a curated assortment of the most common dowel pin and key sizes used across various NexBot robot platforms. Applications include aligning motor mounts, locating gearbox housings, securing end-of-arm tooling plates, and locking pulleys or other transmission elements to shafts. The tight diametral tolerance of these pins is crucial for creating the interference or slip fits specified in service manuals, eliminating microscopic play that can degrade performance over time. Using genuine NexBot fasteners guarantees that the precise clearances and fits designed by our engineers are maintained, preserving the integrity and performance of your automation equipment. This set is an indispensable part of any maintenance inventory for facilities operating NexBot robots.

Technical Specifications

Parameter	Value	Unit
Weight	0.5	kg
Material	Hardened Alloy Steel	
Country of Origin	US	

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

© 2026 NexBot Robotics. All specifications subject to change without notice. Document ID: DS-NXB-GEN-832-001-1.0