

NexBot Robotics 841-009

Vibratory Parts Feeder 400mm Bowl

NexBot Robotics

SKU: NXB-GEN-841-009 | Category: Accessories & Mounting > Workstation Equipment > Parts Feeders

Overview

The NexBot Robotics 841-009 Parts Feeder is a high-performance vibratory bowl feeder designed to reliably orient and present small to medium-sized components for robotic pick-and-place applications. This feeder system is engineered to increase throughput and reduce manual handling errors in automated production lines, making it an essential component for efficient assembly cells. The core of the 841-009 is its powerful electromagnetic drive, which provides smooth, adjustable vibration to move parts along a custom-engineered track inside the bowl. This controlled motion gently sorts and aligns components into a consistent, repeatable orientation, ready for pickup by a robot. The variable frequency controller allows operators to fine-tune the feed rate and vibration amplitude, optimizing performance for a wide variety of part geometries and materials without causing damage to delicate items. Constructed with a robust 400 mm diameter bowl made from Stainless Steel 304, this feeder is built for durability and longevity in demanding industrial environments. The stainless steel surface is resistant to wear and corrosion and can be specified with various coatings to reduce friction or noise. Key applications include feeding screws, connectors, and other small hardware in electronics assembly; presenting caps and vials in medical device manufacturing; and sorting small stamped parts in the automotive industry. The system operates on standard 110/220VAC power, simplifying integration into existing facility infrastructure. Installation involves securing the feeder base to a stable work surface and connecting it to a control system, such as a PLC, for start/stop signals, ensuring seamless integration with NexBot Robotics arms and other automation equipment.

Technical Specifications

Parameter	Value	Unit
Weight	65.0	kg
Material	Stainless Steel 304	
Voltage	110/220VAC	
IP Rating	IP54	
Country of Origin	DE	
Dimensions	600 × 600 × 510 mm	

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