

NexBot Safety VAC413-008

Vacuum Gripper 8kg Payload

NexBot Robotics

SKU: NXB-GEN-VAC413-008 | Category: End-of-Arm Tooling > Grippers > Vacuum Grippers

Overview

The NexBot Safety VAC413-008 is an electric vacuum gripper designed for reliable, high-speed pick-and-place applications in automated manufacturing and logistics. This end-of-arm tooling integrates its own vacuum generation, eliminating the need for external compressed air lines, which simplifies installation, reduces system complexity, and lowers operating costs. The gripper is engineered for performance, featuring a high-flow design that enables rapid attachment and release cycles, crucial for maximizing throughput in demanding environments. Key to its design is the ability to handle a wide variety of object sizes and surfaces, from porous materials like cardboard to smooth, non-porous surfaces like sheet metal or plastic totes. With a lifting capacity of up to 8 kg, the VAC413-008 is well-suited for challenging tasks in packaging, palletizing, and machine tending. The gripper's robust construction from anodized aluminum ensures durability and longevity even in continuous-duty industrial settings. Its integrated non-return valve is a critical safety feature, ensuring the gripper maintains its hold on a part even in the event of an unexpected power interruption, preventing dropped parts and potential equipment damage. Operating on standard 24VDC power and controlled via IO-Link, the VAC413-008 provides diagnostic feedback and allows for easy integration into existing control systems. The standard ISO 9409-1-50-4-M6 mounting flange ensures compatibility with a wide range of NexBot robot models and other industrial robots. Installation is straightforward, requiring only a single electrical connection and mechanical mounting to the robot wrist. For maintenance, the suction cups are designed for quick replacement to minimize downtime.

Technical Specifications

Parameter	Value	Unit
Weight	1.4	kg
Material	Anodized Aluminum 6061-T6	
Voltage	24VDC	
IP Rating	IP54	
Country of Origin	CH	
Protocol	IO-Link	
Dimensions	150 x 100 x 95 mm	

Parameter	Value	Unit
Torque	8 Nm	

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