

NexBot Drives MIG431-006 Mig/Mag Welding Torch

**NexBot
Robotics**

SKU: NXB-GEN-MIG431-006 | Category: End-of-Arm
Tooling > Welding Torches > MIG/MAG Torches

Overview

The NexBot Drives MIG431-006 is a high-performance, air-cooled MIG/MAG welding torch engineered for demanding robotic automation applications. This tool is designed to deliver consistent, high-quality welds in continuous production environments, making it an ideal end-of-arm solution for articulated and collaborative robots. Key Features & Benefits: Featuring a high power rating of 400A at a 60% duty cycle (CO2), the MIG431-006 torch can handle intensive welding tasks on medium to thick materials without overheating. This high thermal capacity increases production throughput by minimizing cooling-related downtime. The air-cooled design simplifies system integration and maintenance by eliminating the need for complex liquid cooling circuits, reducing both initial setup costs and long-term operational complexity. Built for industrial environments, the torch body is constructed from a high-impact, heat-resistant polymer composite with durable brass components in critical wear areas. This robust construction ensures a long service life even when exposed to weld spatter, high temperatures, and incidental impacts. The torch is optimized for a wide range of solid and flux-cored wire diameters, typically from 0.8 mm to 1.6 mm, offering flexibility across various welding procedures and materials. Common applications include automated welding in automotive body and frame assembly, manufacturing of heavy machinery, structural steel fabrication, and general industrial production. The standardized mounting flange allows for straightforward integration with NexBot robot wrists, while the quick-change liner and consumable system (contact tips, nozzles, gas diffusers) allows operators to perform routine maintenance swiftly, maximizing machine uptime. The ergonomic yet rugged design ensures reliable wire feeding and stable arc performance, which are critical for achieving certifiable weld quality in automated processes.

Technical Specifications

Parameter	Value	Unit
Weight	5.5	kg
Material	High-Impact Polymer Composite / Brass	
IP Rating	IP42	
Country of Origin	IT	
Dimensions	450 x 60 x 120 mm	

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