

TF80 Series High-Torque Actuator

Rugged Actuator for Quadruped and Field Robots

Product Overview

TF80 Series High-Torque Actuator is a production-ready, high-performance integrated actuator developed by TorqueFusion Robotics for advanced robotic systems. It is engineered for reliability, precision, and long-term deployment.

Technical Specifications

Parameter	Value
Rated Torque	70 – 90 Nm
Peak Torque	120+ Nm
Speed	Up to 350 RPM
Voltage	24V – 48V
Gear Ratio	45:1 – 50:1
Control Modes	Torque / Position / Velocity
Communication	CAN / RS485
Weight	2.2 – 2.8 kg
Cooling	Enhanced Thermal Design
Operating Temp	-20°C to 65°C
Ingress Protection	IP54

Applications

- Robotic Dogs
- Quadruped Platforms
- Inspection Robots
- Security Robots
- Defense and Field Robotics

Product Status

Commercial-grade actuator designed for field deployment and long-term operation.

Contact Information

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