

Applications

Cobots



Quadrupeds



Exoskeletons



Humanoids



A - series

Actuator QDD A2

Quasi Direct Drive Robotic Joint



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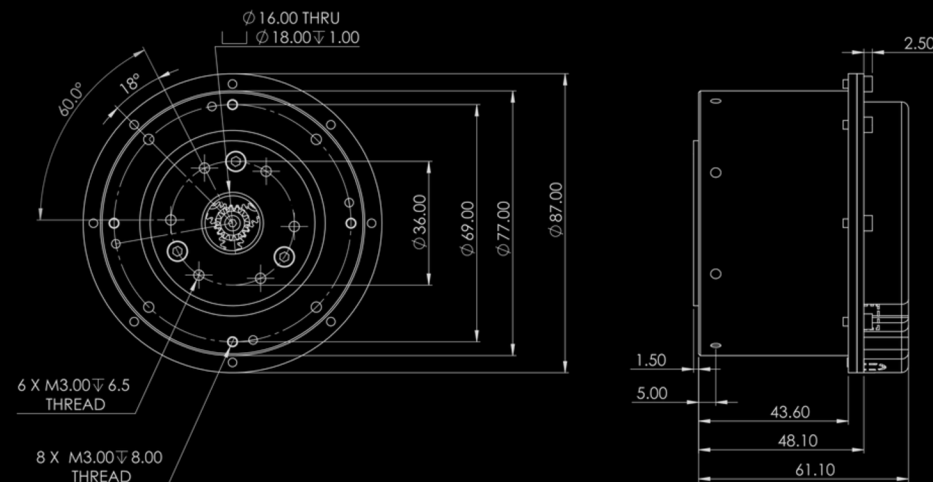
📍 xTerra Robotics Pvt. Ltd. G-508/11, Avas Vikas No. 1, Kalyanpur, Kanpur-208017

Technical Specifications

Weight (g)	550
Peak torque (Nm)	12
Rated torque (Nm)	3
Maximum Rotational Speed (RPM @24VDC)	360
Voltage input (V)	10-24
Peak power (W)	500
Control mode	FOC
Control rate (kHz)	15-30
Outer diameter (mm)	77
Width (mm)	50
Power connector	1x XT-30
Data connector	1x JST PH-3
Maximum Current (A)	20
Reduction Ratio	1:8
Communication Mode	CAN FD
Motor Encoder Resolution	14 bit
Operating Temperature	0°C - 40°C

※ The performance-related parameters may vary in different scenarios and operating conditions.

Technical Drawings



Features



High Torque-to-Weight Ratio



Compact Design



Programmable Interface



Energy Efficiency



Low Backlash for Precision Control



Customizable for Various Applications