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Full-Sized Actuator Units

Full-Sized Actuator Units are available in Single-Axis (one motor) or Multi-Axis (three, four, or five motor) configurations. These units incorporate industrial servo motors and drives within wheeled floor-standing units for actuation of Humotech (or other cable-actuated) wearable devices. The units are designed for use indoors and are powered by 3-phase AC wall power. Multiple units can be linked to actuate any number of degrees-of-freedom.

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Technical Specs

PROPERTY	SPECIFICATION
System Weight	Single-Axis: 79.4 kg (175 lb) Multi-Axis: over 322 kg (710 lb)
System Dimensions Note: height can be increased to match treadmill height	Single-Axis: 17.75" L x 22.375" W x 40.75" H Multi-Axis: 25.25" L x 48.45" W x 41.5" H
Maximum Motor Speed (Unloaded)	208 VAC: 1100 rpm 480 VAC: 2420 rpm
Standard Maximum Cable Speed (Unloaded)	208 VAC: 2.26 m/s (7.41 ft/s) 480 VAC: 4.83 m/s (15.84 ft/s)
Continuous Torque Limit	52.3 Nm (38.6 ft-lbs)
Maximum Torque	125 Nm (92.5 ft-lbs)
Standard Maximum Cable Force	6.58 kN (1480 lbs)
Standard Supply Voltage and Frequency NOTE: please contact us with custom requirements	480 VAC (+/- 10%) 3-wire three-phase and ground 50/60 Hz (+/- 5%) L16-30 receptacle for single-axis Meltric DSN150 receptacle for multi-axis (#63-94043)
Peak Current	30A per axis
Max Continuous Current	18.3A per axis
Typical Continuous Current	5.6A per axis
Motor Control NOTE: please contact us with custom requirements	EtherCAT

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