



# 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.

**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)

Rated Input Current

18.3 A per axis

Power Supply Fusing (GFI circuit breaker not recommended)

NOTE: please contact us with custom requirements

30 A per axis

Motor Control

NOTE: please contact us with custom requirements

EtherCAT

# Technical Specs