

Specifications of BarrettHand

Kinematics	Total fingers: 3 Fingers which spread: 2 Joints per finger: 2 Motors per finger: 1 Axes of palm spread motion: 2 Motors for palm spread motion: 1 Total hand axes: 8 Total hand motors: 4
Range of Motion	Finger base joint: 140° Fingertip: 45° Finger spread: 180°
Finger Speed	Finger fully open to fully closed: 1.0 sec Full 180° finger spread: 0.5 sec
Position Sensing	12-bit absolute sensing at each motor with array of Hall sensors
Weight	Hand: 980 grams
Payload	6.0 kg
Finger Forces (at tip)	Active: 15 N Passive: 20 N
Motor Type	Rare-Earth brushless-DC servo motors
Mechanisms	Worm drives integrated with proprietary cable drive and breakaway clutch
DC Operation	20-80 VDC 5/12/250 W idle/typ/max
AC Operation	single-phase, 85-260 VAC, 50/60 Hz 10/20/300 W idle/typ/max
Single Cable to Hand	5mx5mm flexible cable
Dimensions	See Diagram (base is only 25mm tall)