

humotech

Caplex PRO-003

The PRO-003 is a two degree-of-freedom tethered prosthetic foot. Building off of Humotech's single degree-of-freedom designs, this device features an additional degree of freedom to enable actuation of not only plantarflexion and dorsiflexion, but also inversion and eversion. PRO-003 is suitable for prosthetic foot users, either people with amputation or people without amputation using a simulator boot.



PROPERTY

SPECIFICATION

Active Degree of Freedom

Force Sensors

Angle Sensors

Range of Motion (Sagittal Plane)

Range of Motion (Coronal Plane)

Maximum Torque (Coronal Plane - Inversion/Eversion)

Device Weight (without Tether)

Device Dimensions

Passive degree of freedom Vertical stiffness

Two forefoot digits each actuated by cable

2x Inline load cells for forefoot torque applied, accurate within +/- 1%

2x optical encoders for forefoot digit angles, 4096 CPR (16384 PPR)

Plantarflexion: 30 degrees Dorsiflexion: 30 degrees

Inversion/Eversion: greater than +/-39.3 degrees

+/- 42 Nm

Worn Weight at size 28 foot length

1260 grams (each brass weight adds 100grams)

L10.57 in (269 mm)

Length

Width 4.58 in (116 mm) Total Height 7.56 in (192 mm) 4.41 in (112mm)

Build Height

Heel is a compliant fiberglass bar

Heel 1 - 40 N/mm Heel 2 - 48 N/mm

Heel 3 - 110 N/mm

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Technical Specifications



PROPERTY

SPECIFICATION

Forefoot specs
Maximum torque & axial length
(Plantarflexion)

Passive Degree of Freedom

Usage Limits

Forefoot A - 176.1 Nm 150.8 mm from axis Forefoot B - 161.3 Nm 138.1 mm from axis Forefoot C - 146.4 Nm 125.4 mm from axis Forefoot D - 131.6 Nm 112.7 mm from axis

Heel is a compliant Fiberglass bar

Coming soon. See PRO-002 specs for comparable stiffnesses.

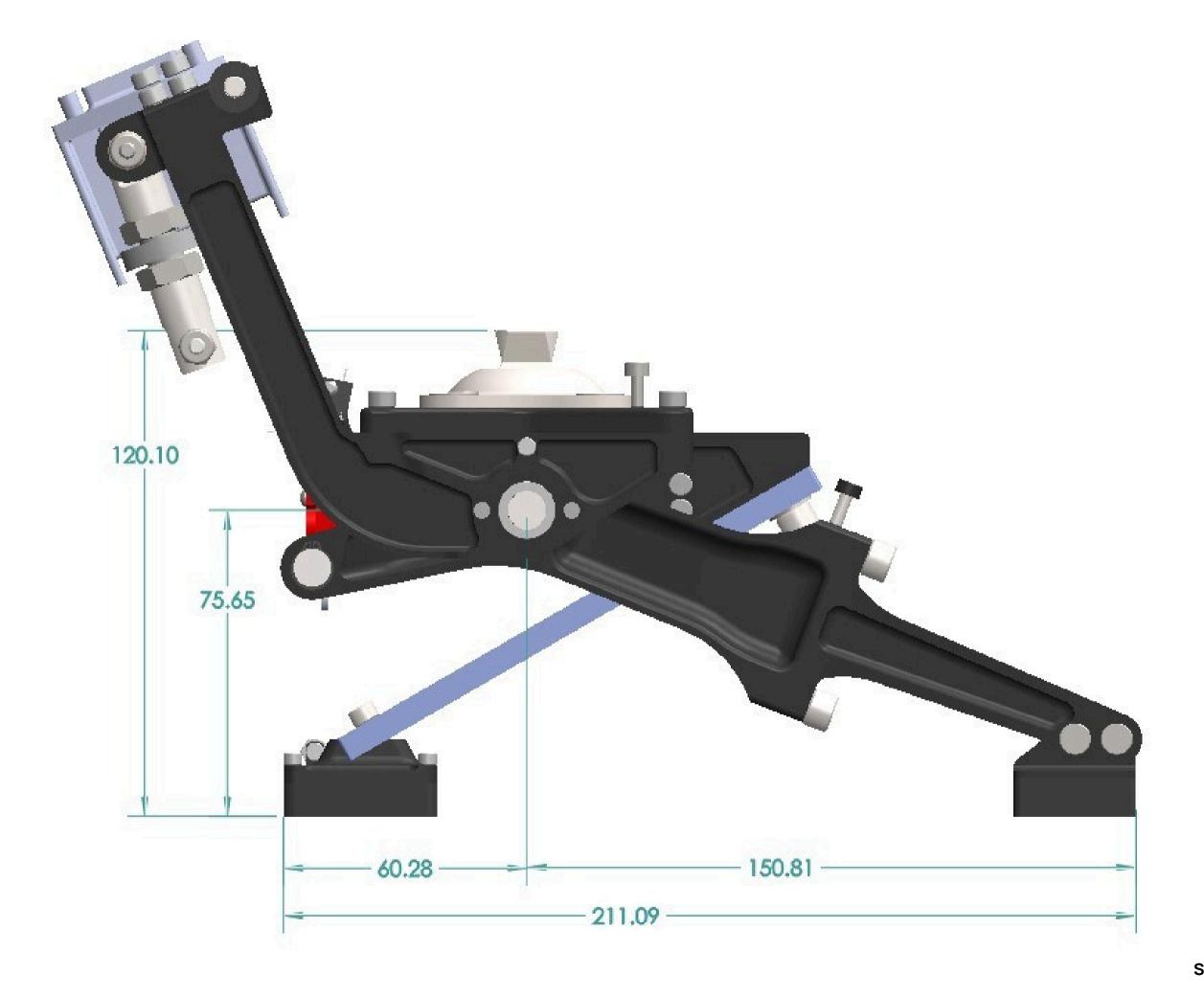
Body Weight at Walking Speed

119.3 kg (263 lbs) 1.25 m/s (3.3 mph)

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Technical Specifications Continued

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