

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.

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PROPERTY

SPECIFICATION

Active Degree of Freedom	Two forefoot digits each actuated by cable	
Force Sensors	2x Inline load cells for forefoot torque applied, accurate within +/- 1%	
Angle Sensors	2x optical encoders for forefoot digit angles, 4096 CPR (16384 PPR)	
Range of Motion (Sagittal Plane)	Plantarflexion: 30 degrees Dorsiflexion: 30 degrees	
Range of Motion (Coronal Plane)	Inversion/Eversion: greater than +/-39.3 degrees	
Maximum Torque (Coronal Plane - Inversion/Eversion)	+/- 42 Nm	
Device Weight (without Tether)	Worn Weight at size 28 foot length	1260 grams (each brass weight adds 100grams)
Device Dimensions	Length	L10.57 in (269 mm)
	Width	4.58 in (116 mm)
	Total Height	7.56 in (192 mm)
	Build Height	4.41 in (112mm)
Passive degree of freedom Vertical stiffness	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



