

Caplex PRO-002

The PRO-002 (rev 3) is a tethered prosthetic foot with high torque output comparable to PRO-001 that includes adjustable foot length, heel stiffness, and worn weight. It can accommodate a wide range of user foot sizes (approximately shoe sizes 26cm to 29cm).

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PROPERTY SPECIFICATION

Active degree of freedom

Forefoot actuated by cable

Inline load cell for forefoot torque applied, accurate within +/- 1% Force sensor

Quadrature encoder with 4096 cycles per revolution Angle sensor

Heel String Potentiometer Sensor 25 mm total range

Range of motion Plantarflexion: 30 degrees

Dorsiflexion: 30 degrees

Forefoot A - 182 Nm 6.51 inches from axis Forefoot specs

Maximum torque & axial length Forefoot B - 168 Nm 6.01 inches from axis (Plantarflexion) Forefoot C - 154 Nm 5.51 inches from axis

Forefoot D - 140 Nm 5.01 inches from axis

Passive degree of freedom Heel is a compliant Heel 1 - 55 N/mm Vertical stiffness

fiberglass bar Heel 2 - 70 N/mm

Heel 3 - 115 N/mm

Worn weight Device weight 1.088 kg (2.40 lb) (without tether)

+ 0.10 kg (0.22 lb) per added weight

27.4 cm (10.8 in) Device dimensions Length 8.10 cm (3.19 in) Width

23.3 cm (9.19 in) Total height

Body weight 119.295 kg (263 lb) Usage limits 1.25 m/s (3.3 mph) @ walking speed



Swappable Forefoot Lengths



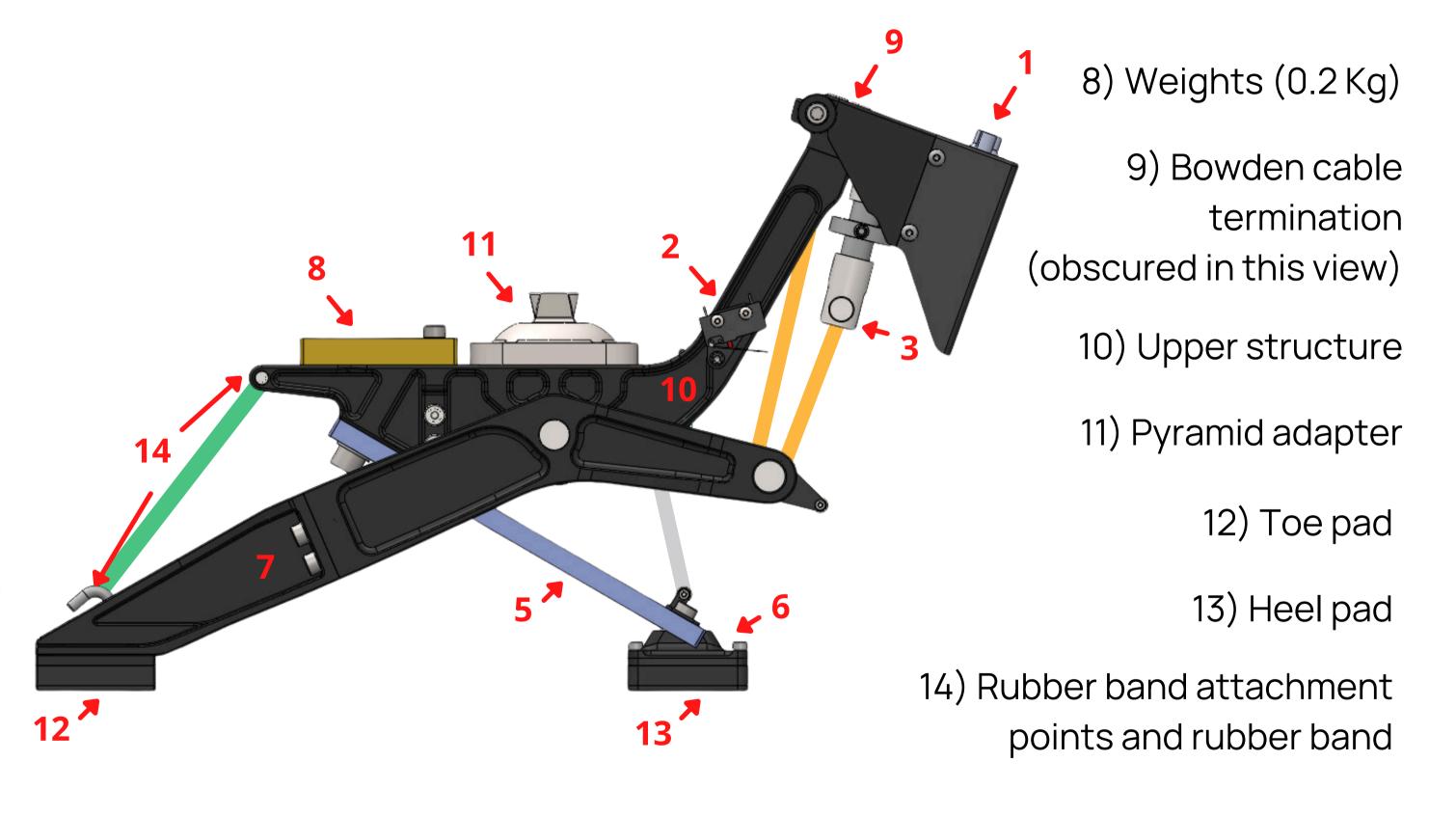
Modular Weight





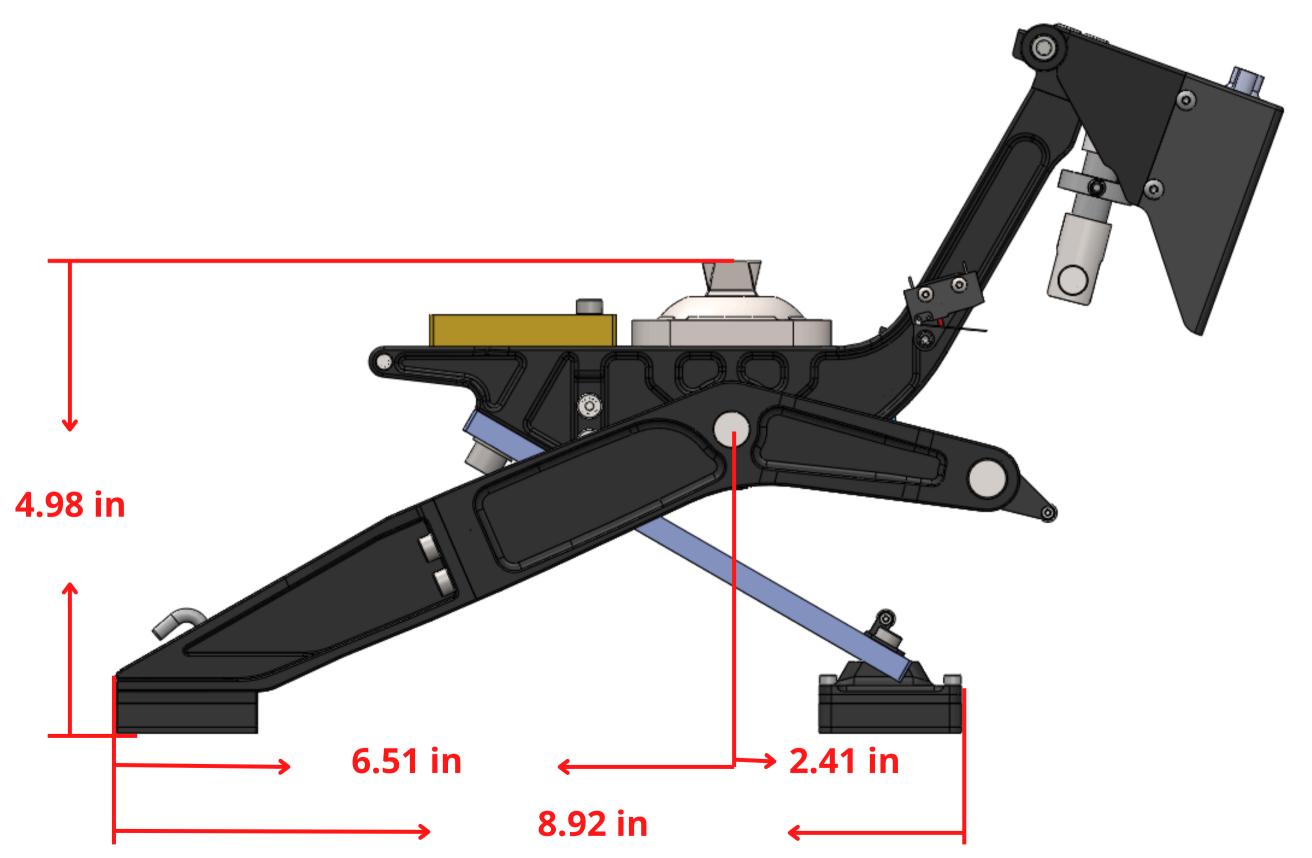


- 1) DB-15 Signal Cable Connector
- 2) Limit switch
- 3) Load cell
- 4) Forefoot axis
- 5) Heel spring (Heel 3 shown)
- 6) Heel pad adapter
- 7) Swappable forefoot (Size A shown)





All measurements based on Forefoot A



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All measurements based on Forefoot A

