

# Renegade A.T

The Most Dynamic and Durable All-Terrain Prosthetic Foot



Performance **AMPLIFIED**

# AMPLified Versatility



Setting a new standard for versatile, durable performance, the new Renegade **AT** All-Terrain prosthetic foot combines proprietary EnduraCore™ Technology with multi-axial function in an extremely lightweight and uniquely integrated design. Add to this exceptional shock absorption and up to 35% greater energy return, and the result is a prosthetic foot that's truly game-changing.



## EnduraCore™ Technology

Proprietary composite-laminate delivers up to 3 times the fatigue life of a standard laminate in a design that also returns up to 35% more energy than competitive alternatives. The result is a more durable product that helps to preserve energy so users can do more with confidence.



## Vertical Shock Absorption

Patented, industry proven **Z-Shock Technology™** helps preserve skin integrity while increasing user comfort.



## Multi-Axial Performance

Split-toe design delivers +/-15 degrees inversion/eversion for All-Terrain control and enhanced stability.



## Lightweight

Weighing in at just 515 grams\*, the Renegade **AT** prosthetic foot is more comfortable and requires less exertion.



## Unique Integrated Design

Design integration improves reliability with fewer components subject to failure.

\*Weight excludes foot shell.

# AMPLified Durability

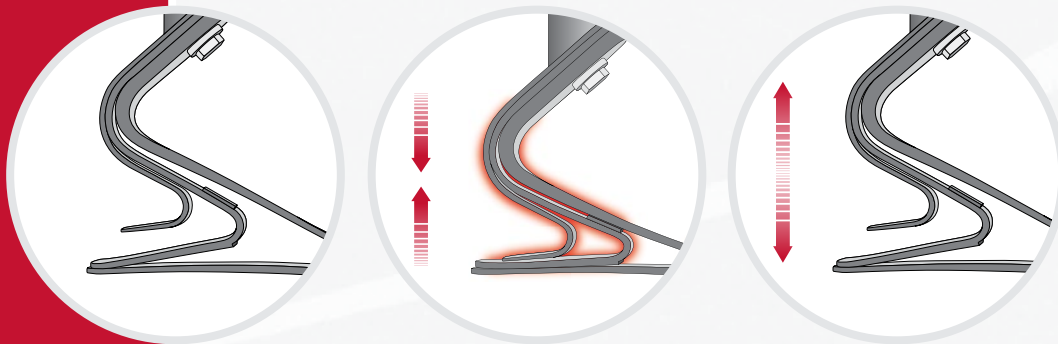


Miles ahead of competitors, the Renegade **A·T** prosthetic foot delivers superior, long-lasting performance with a unique composite-laminate construction featuring Freedom Innovations' proprietary EnduraCore™ Technology. As a result, this vertical shock, multi-axial design offers 3 times the fatigue life of industry standard laminates and returns up to 35% more energy than competitive alternatives. That's what we call Performance AMPlified.



## The All-Terrain Advantage

Patented and proven **Z-Shock Technology™** is paired with a unique split-toe design to deliver multi-axial function with +/-15 degrees of inversion/eversion for All-Terrain stability and support. The design absorbs shear forces before they are transferred to the residual limb in order to preserve skin integrity, providing greater comfort to users.



*Z-Shock design compresses and decompresses to absorb shear forces and protect the residual limb.*



### EnduraCore™ Technology

More durable and energy efficient

### Integrated Design

Provides improved reliability

### Vertical Shock

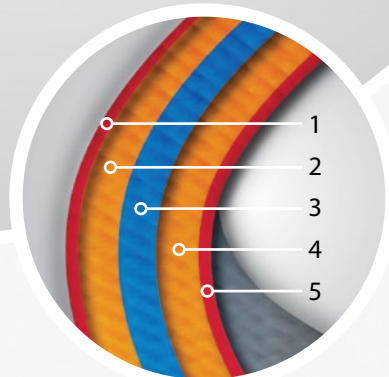
Preserves skin and increases comfort

### Split-Toe Design

Facilitates stable, multi-axial motion

### Lightweight

Weighs 515 grams for greater comfort



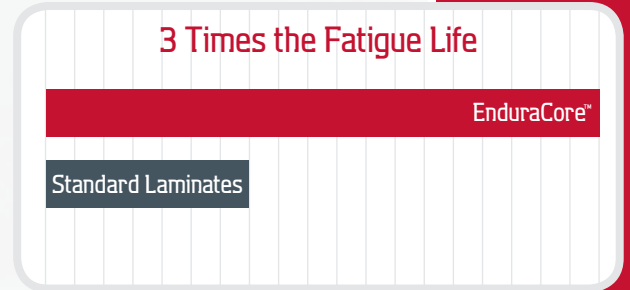
## EnduraCore™ Technology

1. Impact resistant, top surface film provides a moisture barrier
2. Bi-directional, high-compression fiber layer adds transverse strength
3. High-modulus core technology enhances sheer force strength
4. Bi-directional, high-tension fiber layer increases transverse strength
5. Impact resistant, bottom surface film creates a moisture barrier

## EnduraCore™ Technology

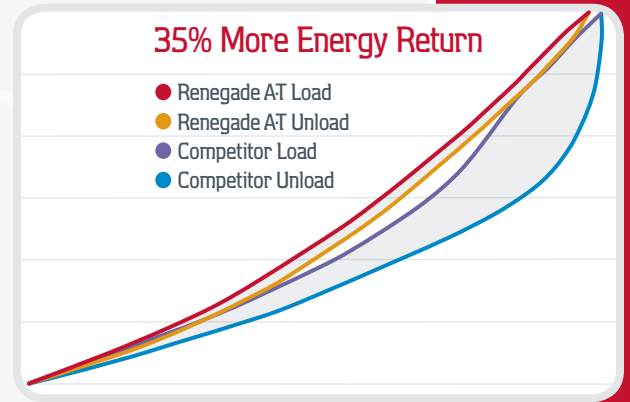
### Fatigue Life Comparison

With a proven industry standard cyclic test, the Renegade A•T with EnduraCore™ Technology delivers 3 times the fatigue life of competitive alternatives. The improvement results in enhanced durability and reliability so users can do more with confidence.



### Energy Efficiency Comparison

The Renegade A•T not only stores more energy, it returns up to 35% more energy than competitive alternatives. While the Renegade A•T returns 93% of the energy stored, Competitor A returns just 72% of the energy it stores. The shaded area between the load and unload lines represents energy lost throughout the test cycle. The Renegade A•T is significantly more efficient than competitive alternatives, helping users to preserve energy and do more throughout the day.



*Products of equivalent size and stiffness category were tested according to an industry standard toe deflection test. Both products were loaded at 20 degrees to a 300 lb load.*

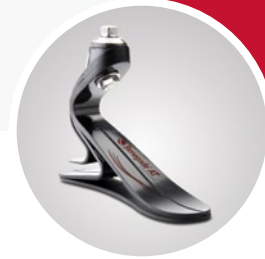
### Integrated, Lightweight Design

The Renegade A•T prosthetic foot's unique design integration delivers all of the needed function without any of the secondary components seen in alternative designs. This integration not only improves reliability and increases user confidence in the device, it keeps the product weight low. The lightweight design minimizes socket pistoning for improved comfort throughout the day.



# Focused Solutions

Freedom Innovations is solely focused on developing world class lower limb solutions in close collaboration with amputees and prosthetists. These solutions encompass technological innovations, service, training, educational resources and consultative support to help ensure user satisfaction.



## Renegade A-T Build Height & Weight Chart

	Size (cm)	Height (in/mm)	Weight (oz/g)
Renegade A-T	22-25	6 1/8 / 154	22 / 625
	26-28	6 3/4 / 172	27 / 765
	29-31	7 1/2 / 189	33 / 945
Renegade LP-A-T	22-25	4 3/4 / 120	22 / 625
	26-28	5 1/8 / 131	27 / 760
	29-31	5 5/8 / 143	33 / 930

Product weight includes foot shell. Measurements are approximate and will vary due to category selection and manufacturing variability.

## Stiffness Category Selection

Weight (lbs)	Impact Level			Weight (kg)
	Low	Moderate	High	
100-115	1	1	2	44-52
116-130	1	2	3	53-59
131-150	2	3	4	60-68
151-170	3	4	5	69-77
171-195	4	5	6	78-88
176-220	5	6	7	89-100
221-255	6	7	8	101-116
256-285	7	8	9	117-130
286-325	8	9		131-147
326-365	9			148-166

## Renegade A-T Technical Specifications

**Target User:** K3/4 lower limb amputees, transtibial and above amputation levels

**Product Profiles:** Standard Height or Low Profile

**Part Number:** Renegade AT (R11); LP-A-T (R16)

**Sizes:** 22-31 cm

**Weight Rating:** 166 kg (365 lbs)

**Connector:** Male pyramid

**Heel Height:** 10 mm (3/8 in)

### Global Headquarters

30 Fairbanks, Suite 114

Irvine, CA 92618

U.S.A.

toll-free 888.818.6777

tel 949.672.0032

fax 949.672.0084

[www.freedom-innovations.com](http://www.freedom-innovations.com)

### European Head Office

Jaargetijdenweg 4

7532 SX Enschede

The Netherlands

toll-free 00800-2806 2806

tel +31 (0)53-20 30 300

fax +31 (0)53-20 30 305