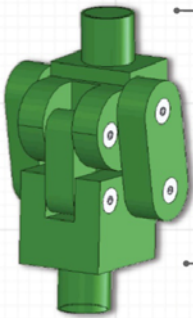


CHALLENGE

How can we empower low-income amputees with affordable prosthetic technology?

How does it work:

The **JaipurKnee Prosthetic** is a high-performance, low-cost prosthetic knee joint for developing world amputees.



Simple : Five plastic pieces and four standard fasteners give the JaipurKnee a modular design that is simple to mass manufacture.

Robust : Mimics a biological knee with a polycentric mechanism for smooth stable motion , and a durable polymer material that self lubricates with use.

Affordable: By using plastic in a reinforced geometry, instead of traditional titanium components, a significant cost reduction has been made possible.



JAIPURKNEE

Designers: Re:Motion Designs

Manufacturers: Re:Motion Designs

Stanford University

Jaipur Foot Organization BMVSS

Contributors: D-Rev: Design Revolution

Sector: Health

When: First amputee fitted 2008

Initially deployed in India

Where: Serving developing countries

Cost: Manufacturing cost - \$20 USD.

Status: 1300 amputees fitted in India to date

FYI: joel@remotiondesigns.org

http://remotiondesigns.org

Our Story: Worldwide, a profound number of people lack mobility due to physical impairment. In India alone, it is estimated that over 10 million people suffer from locomotive disabilities. Trauma, due to war or accidents, and diseases, such as diabetes, result in a global rate in the hundreds of thousands of new lower-limb amputees each year. For the 2 million amputees in the US, and those in other developed nations, modern assistive technology has re-mobilized lower limb amputees, but typically costs in the thousands, or tens of thousands, of dollars. With 80% of the world's amputees living in developing countries, there is deep need for low-cost lower limb prostheses for the developing world.

Re:Motion Designs is a for-benefit venture that provides high performance, extreme affordability prosthetic components for developing world amputees. Our initial product, The JaipurKnee, is a polymer-based polycentric knee joint that can be manufactured for a cost less than \$20 US. Compared with existing low-cost prosthetic knee joints, the JaipurKnee provides a new class of stability and gait efficiency for above-knee amputees. Re:Motion partners with existing low-cost prosthesis providers, such as the Jaipur Foot Organization BMVSS, to design, engineer & distribute prosthetic components to developing world amputees globally. The JaipurKnee is currently in field trials in India and has been fitted on over 1300 patients to date. Re:Motion believes that mobility is a fundamental human right, and the team looks forward to playing its part in empowering amputees to reach their full potential in society.