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### ***Proto Labs Helps Bring Mobility to Amputees in the Developing World The ReMotion Knee named Cool Idea! Award Recipient***

MAPLE PLAIN, Minn. – 19<sup>th</sup> February 2013 – The [ReMotion Knee](#), a low cost prosthetic knee joint, is the latest winner of the Cool Idea! Award from Proto Labs (NYSE: PRLB), the world's fastest manufacturer of CNC machined and injection moulded parts.

Proto Labs launched the [Cool Idea! Award](#) in 2011 to give product designers the opportunity to bring their innovations to life by presenting up to \$250,000 worth of prototyping and short-run production services to award recipients. D-Rev, designer and manufacturer of the ReMotion knee, is 2013's first Cool Idea! recipient. Proto Labs is providing D-Rev with injection molded parts to fulfill its next round of testing.

The ReMotion Knee project started in 2008 as a project in a graduate bio-medical engineering class. The class collaborated with the [JaipurFoot Organization](#), India's largest provider of low cost prosthetics, and later teamed up with San Francisco based designer Vinesh Narayan. In 2010, [D-Rev](#), a non-profit organisation dedicated to improving the health and income of people living on less than \$4 per day, continued the project with Narayan, who was hired on as a product manager.

"About 10 million above-the-knee amputees live in developing countries, and the ReMotion Knee allows them to walk stably on uneven or unpaved terrain typical of the developing world. It also helps them return to work, and remain independent," says Narayan. "Current low-cost knee joints are mostly single axis joints. They operate similarly to a door hinge, and although they are inexpensive, they are unstable. ReMotion uses a polycentric mechanism, similar to anatomical knees, to provide greater stability."

Today, more than 4,600 amputees have been fitted with a ReMotion Knee. As part of the Cool Idea! Award, 100 knee joints will be injection moulded and used in field testing to ensure performance as manufacturing transitions from CNC machining to injection moulded parts. The shift is important for maintaining quality while serving large numbers of people.

"We were attracted to the ReMotion Knee largely because of its mission and potential to improve the lives of thousands of people," says Larry Lukis, founder and chief technology officer of Proto Labs. "The entire design is extremely well done, both aesthetically and functionally. Every aspect of the device has been well thought through, from the use of high quality plastics, instead of metals, to save on cost and maintenance without sacrificing

performance; to the rounded edges and spring that create a more natural appearance and gait.”

“With the Cool Idea! Award we are able to test the new knee design with much less risk, by only producing 100 injection molded knee joints. This is not typical for most injection moulders who require large production runs. Working with Proto Labs has significantly accelerated the project without adding risk,” says Narayan.

Unlike other product awards that recognise products after they’re in mass production and on store shelves, Proto Labs’ Cool Idea! Award is meant to help cool ideas come to life. Eligibility for the award is during the design and development stage, when innovators are too often stymied by lack of resources or funds to turn their ideas into real products. For more information about the Cool Idea! Award and how to apply visit [www.protolabs.co.uk/CoolIdea](http://www.protolabs.co.uk/CoolIdea).

### **About Proto Labs**

Proto Labs (PRLB) is a leading online and technology-enabled quick-turn manufacturer of low-volume CNC-machined and injection moulded custom parts for prototyping and short-run production. The company provides “Real Parts, Really Fast” to product developers worldwide and has two quick-turn services in North America, Europe and Japan: Firstcut ([www.firstcut.eu/gb](http://www.firstcut.eu/gb)) CNC machining and Protomold ([www.protomold.co.uk](http://www.protomold.co.uk)) injection moulding. Both are capable of providing parts in as fast as one business day. Product developers who use Proto Labs for prototypes and short-run production can upload a 3D CAD file at any one of Proto Labs online sites, get an interactive quotation and place an order for Proto Labs services directly online. For more information, visit: [www.protolabs.co.uk](http://www.protolabs.co.uk).

### **About D-Rev**

D-Rev is a non-profit product development company whose mission is to improve the health and incomes of people living on less than \$4 per day. For more information, visit: [www.d-rev.org](http://www.d-rev.org)

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