

BYU Finger Brace Innovation

ID: 2015-031

Executive Statement:

An innovative finger brace designed to aid recovery from finger injuries while maintaining hand functionality.

Technology Overview:

This finger brace, developed by Brigham Young University, pairs an injured finger with a supporting finger using a Velcro-attached band, incorporating a padded loop and an optional removable rod for enhanced support and spacing. Designed with breathability and flexibility in mind, it also features a grip-enhancing outer surface for sports applications.

Key Advantages:

- Allows for functional use of the hand and fingers during recovery
- Adjustable support levels to cater to mild to moderate injuries
- Optional removable rod for additional bracing
- Grip-enhancing surface suitable for athletes
- Breathable and semi-elastic materials for comfort and flexibility

Problems Addressed:

- Fractures and dislocations of the fingers
- Postoperative support for hand-related injuries
- Lack of functional use with traditional finger braces
- One-size-fits-all approach of existing finger braces

Market Applications:

- Sports equipment for athletes prone to finger injuries
- Orthopedic support devices for hospitals and clinics
- Rehabilitation devices for physical therapy
- Consumer healthcare products for at-home injury care