

M-Fingers

Unlisted Procedure Code being submitted:

- L7499: Multi-articulating fingers, non-external powered, each
- L7499: Mounting plate stabilization system for multi-articulating fingers
- L7499: Multi-positional thumb feature

Existing L-code Cannot Be Used Because: No current descriptor matches product design or product function

Description, Function & Photo of Device: The M-Fingers Hand was developed using leading-edge mechanical engineering techniques. This product was designed as a mechanical alternative to the Touch Bionics (electric) Pro Digits. The inclusion of a thumb that can, like the human thumb, be rotated into different positions enables important grip configurations, many of which have not been available to amputees before. The grasp of the hand is like that of a human hand with the articulating fingers able to close tightly around objects. Individual fingers conform to the shape of objects, providing a more secure grasp.



- The M-Finger is a two joint articulating finger that is cable operated. This allows the patient to achieve a more secure grasp on objects because the fingers conform around objects as tension is applied to the cable.
- The fingers are made from a high strength composite material which is lightweight and durable. The finger tips, middle segments and thumb surfaces are over molded with a urethane material which offers excellent durability and grip.
- The M-Thumb is manually positioned and has adjustable friction for flexion/extension and rotation of thumb. This pre-positioning of the thumb allows the patient to position the thumb in a more functional position to make tasks easier to perform and they can also benefit from multiple grasping patterns.
- The pulley carriage is comprised of two pulleys and connects to the four fingers by a high strength cord that when force is applied to the cable the pulley carriage pulls all four fingers into flexion and once one finger reaches a resistance the pulley transfers force to the next finger which enables the fingers to conform around irregularly shaped objects, providing a more stable grasp.
 - Mounting plate stabilization system for multiarticulating fingers.
 - Multipositional thumb feature, addition to hand or partial hand. This component allows the thumb to be pre-positioned in flexion and extension or rotation to allow for multiple grasping patterns.



Medical Necessity of the Product: Provides the patient the ability to achieve a naturally conforming grasp on objects and enhanced dexterity and control when grasping, thus allowing the user to effectively perform many common activities of daily living.

Number of Hours of Use Per Day: Used for 10-12 hours per day, every day

Expected Length of Time for Need of Device: More than 12 months

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