

Below-Knee/ Transtibial Prosthesis

Key Benefits

- Leg, foot, and socket components are selected to suit each individual's lifestyle and activity level.
- The chosen components are fabricated and customized to fit securely and comfortably.
- Specialized **foot designs** include a wide range of energy-storing feet and dynamic response multi-axial feet designed for running, jumping, or hiking.
- **Microprocessor-controlled feet** use a "smart ankle" to automatically lift the toe far enough to clear the ground with each step. They also adjust for slopes and stairways.
- **Suction suspension systems** are available in three types: (a) valve and sleeve system; (b) a seal-in liner, or (c) a vacuum assisted suspension (VAS) system.
- **Locking suspension sockets** include a pin at the distal end of a sock-like gel liner that fits over the residual limb. The pin locks securely into the socket of the prosthesis, attaching it to the wearer's limb.



General Description

Below-knee or transtibial prostheses are designed to fit and serve patients with limb loss based upon a deficiency of the tibia. Such loss may be the result of a traumatic or surgical amputation, or of a congenital anomaly. Components of the prosthesis are available in a broad variety of styles and designs.

They are carefully selected to suit each individual patient's lifestyle and activity level, then fabricated and customized to fit securely and comfortably. The purpose of the prosthesis is to enable greater mobility and ease of ambulation, restoring the wearer to a more active and enriched life.



Care & Maintenance of the Transtibial Prosthesis:

Be sure that you have received complete instructions from your prosthetist regarding the donning and appropriate use of your transtibial prosthesis.

- Wear and use your prosthesis only with appropriate footwear, as instructed,
- Always observe proper hygiene: Clean silicone liners daily with mild soap and warm water to prevent infection and/or skin irritation. Rinse thoroughly and wipe with a dry cloth. Spray the liner's interior weekly with alcohol and wipe with a lint-free cloth, then allow it to air dry.
- Be sure to clean the inside surface of the socket itself, spraying weekly with alcohol and wiping clean.
- Confirm that the socket is completely dry before donning your prosthesis.
- Check the socket daily for tears, cracks, and other signs of wear or damage. (Contact your prosthetist immediately if damage is discovered.)
- Ensure that locking mechanisms, if included with your system, are clean and free of dirt or debris.
- Always maintain prosthetic socks in good condition; frayed edges around the pin hole could inhibit the lock's function.
- Never try to repair your own prosthesis; contact your prosthetist if adjustments or repairs are needed.

IMPORTANT NOTE: Do not hesitate to ask for clarification or assistance with your transtibial prosthesis at any time.

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