



Energy Storing

Partial Foot Prosthesis

An “**Energy Storing**” **Partial Foot Prosthesis** refers to the ability of the prosthesis to replace the function of the calf muscle for propulsion and for standing balance.

The Partial foot amputee has never had a good option for an energy storing prosthesis, until now...

The trans-metatarsal, Liz-Frank and Chopart amputees have been a problem for the prosthetic management, due to the functional action of the ankle and the short length of the missing foot. Which is so vital as a lever arm to be able to reach a normal biomechanical gait. Bio-Mechanical Composites has solved this problem with elegance. Its Energy Storing partial foot prosthesis **translates** the late stance **force** at the metatarsal heads, to a posterior force to a **tibial tubercle height** at the knee. This force transfer through a true energy storing posterior spring. The socket maintains the residual limb with minimal resistance to normal gait Dorsi-plantarflexion. This **allows** the patients **ankle to move** through a normal **range of motion** and to maintain normal proprioceptive balance.

This is the only True **Energy Storing Partial Foot Prosthesis**



Casting:

Cast including the knee and hamstrings as well as closing the distal amputation site

Insure the ankle casted position, has available dorsi and plantar flexion. The ankle will move through a range of motion with the bending of the posterior spring

Set the rotation of the residual limb as if the forefoot was present. With the medial aspect of the foot in alignment with the forward line of progress of the knee joint.

Drop the forefoot to accommodate the heel height of the patient shoe, this is plantarflexing the midfoot to accommodate shoe fit.

Tracings and measurements for sizing the foot are essential.

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