Frame Fabrication Method - *Lab Process*

Information Provided By KevinRoot Medical

Plaster Positive Model Vacuum Formed

Gold standard fabrication process

2% FRAME TO MODEL VARIATION TOLERANCE

FOOT IMPRESSION METHODS ACCEPTED

Plaster Slipper Cast, Foam Impression, STS Slipper Sock

FRAME MATERIAL OPTIONS

Polypropylene, Subortholene, Carbon, TPE, EVA

ADVANTAGES

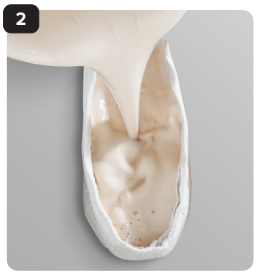
- Accurate foot model
- Allows variety of frame material options

DISADVANTAGES

- Physical storage
- Can break
- Irreplaceable without new positive model

Creating a positive model is the KevinRoot Medical standard method for producing molded frames to conform to a patient's feet. Whether Plaster or Foam Impression, pouring plaster into a patient's negative and creating a positive model is the optimal method that allows the lab to observe the foot on a 1:1 scale. The preciseness of pressing a frame, finishing the width of the orthotic, and pad and accommodation placement is greatly improved with a positive model because lab technicians can see every contour, shape and unique relationship from one anatomical segment to the next. If precision is of the utmost importance, the time-tested method of pouring a positive model still provides the best outcome. Because positive models are heavy and occupy a lot of space, KevinRoot Medical will only store them for 3 months or return the models to the clinic for patient's safe keeping for repeat orders.

Plaster slipper cast and foam impression



Pouring plaster into slipper cast

Unmodified plaster model

Confirming forefoot to rearfoot balancing

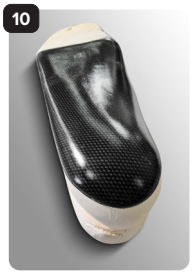
Soft tissue expansion

Marking reference lines

Postive plaster model on vacuum press

Carbon frame before vacuum forming

Vacuum forming



Completed vacuum formed process

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