AirFit-System
Version TT-mobile

WEIGEL+
medical plus services

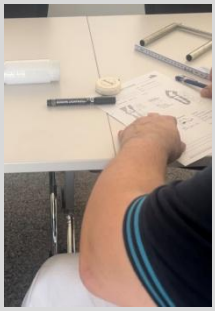
The new AirFit casting device is designed to produce transtibial plaster negatives or test sockets from fiberglas cast bandages, which are fully weight loaded and compressed during the process. The very good basic fit eliminates the need for subsequent modeling. The AirFit-System includes the 2 modes, pin-liner sockets (stump elongation) and hydrostatic volume sockets. The advantage of this device is that no power-/water-/ compressor connection is required, so it can be used mobile anywhere you want.

Adjust-Ring

Membrane

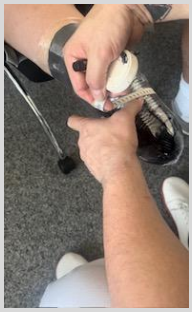
Ring in Membran

stencile set

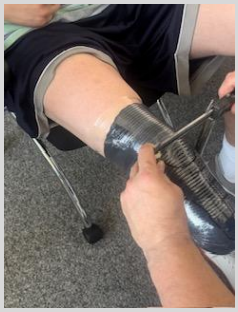


Stretch stump with film tight, draw the outlines of the bony parts and measure (with liner, if you will use it in the prosthesis)…

lenght



circumference



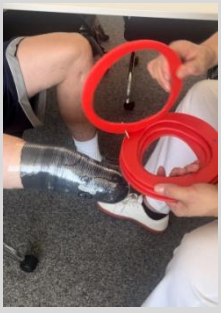
condylar m-l

patella tendon a-p





Prepare system: Turn tube and set hight of the tube.
Set length of membrane: end contact = hydrostatic, longer = elongation. Insert into open tube…

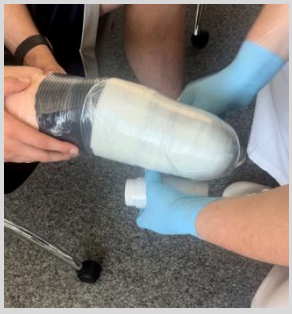



Find the closest fit stencil, put it on the membrane with the recess for the patella to the front and close the System



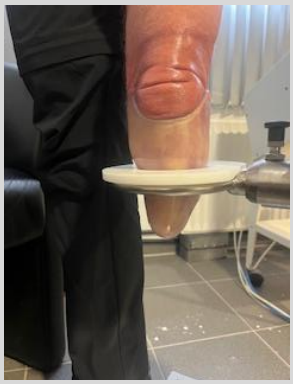


Test all air connectors. Make a dry run: Screw adapter onto vacuum side of pump, expand membrane, that the stump has more place to go inside the tube. Check the (non) end contact! Screw adapter to the pressure side of the pump and give pressure until the amputee can load half of his body weight. Pump just until the amputee tells you, that it is enough pressure (aprox. 0,8-1 bar). After this first test, open the tap to let the air escape. The amputee takes out the stump. Repeat vacuum to prepare the system for the next steps, close the tap.


Now you have aprox. 5 Minutes and every step must fit quickly. Cast the stump with glasfiber or (wet plaster) bandages. Stretch tight with a film again to protect the membrane. Use a stocking over it to give a surface that can let go out all air. Let stump go into the system in the right height for correct stump end situation (end contact = hydrostatic, longer = elongation). Repeat the steps like before until the cast is noticeably hardened. Open tap and let the amputee take out the stump.


After sitting down, pull off the films and the hard cast. Inside you can see your drawing and all details for your further work like shown below.

Or you can pour out with liquid plaster. Control your measurements (do not reduce below the patella, just reduce the condylar m-l if it is too wide). Just finish the surface without modification the measures.




If you go on with the fiberglas cast socket, you can use it directly for the static test to sign the right alignment on the try stand. Then cut the fiberglas socket to the correct trim line and glue an adaptor under it. For dynamic tests we recommend for safety a hand laminate with two layers of Glas-Nylon and Siegelharz resin.

If you have any question, please write or call and we will try to help you as soon as possible…