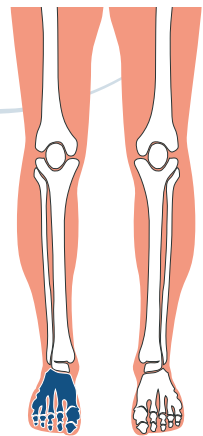


DESIGN AND DEVELOPMENT OF THE MANUFACTURING PROCESS FOR TEST PROSTHETIC FOOT

After evaluating the case through photos and receiving acceptance of the corresponding quotation, our local partner (orthopedic technician), thanks to the training provided, proceeds with the technical phases on the patient with imprints and measurements. Upon receipt of the materials, Procosil initiates the fabrication of the device.

The production and shipping dates are promptly communicated to you, and the coloring appointment with the patient is scheduled in coordination with you. **The production process complies with ISO 13485 standards.**

LOWER LIMBS



1

Imprint

Imprint of the healthy contralateral limb and the residual limb using Procosil skin-friendly silicone, taken by the orthopedic & prosthetic technician on the patient.



2

Measurements

Collection of patient measurements according to the Procosil measurement sheet.

3

Material Shipment

Imprint and measurements sent to Procosil.



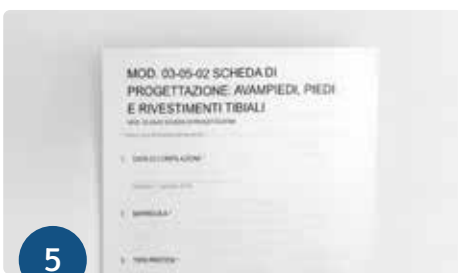
PROCOSIL[®]
hightech prosthesis



4

Analysis of Received Materials

Iso 13485 form.



5

Project Device

Based on the received specifications and our expertise, we define and design the test foot, which will serve as the basis for the final device (3D foot or design foot). Project Iso 13485 form.

6

Scanning of Residual Limb and Healthy Contralateral Limb

Scanning of the plaster models obtained from the impressions. Planning Iso 13485 form.



7

CAD Processing

Digital modeling and sculpting according to the Project Devise form.
CAD/CAM manufacturing Iso 13485 form according to Project Devise form.



8

CAM Processing

3D printing of the model.



9

Test Foot

Application of single-color silicone and filling with silicones of different Shore hardness, following the design sheet.
The test foot is custom-made, based on the patient's limb volume and replicating the contralateral healthy limb. It is not designed for aesthetics but is used to assess patient comfort, weight-bearing, and gait dynamics.
The test foot is made of a silicone material that allows the orthopedic & prosthetic technician (OPT) to make necessary modifications, which will be incorporated into the final foot.
The patient must wear the test foot for **7 to 10 days**, after which the orthopedic & prosthetic technician will provide us with feedback.

- **Negative feedback:** Remanufacturing of the test foot.
- **Positive feedback:** Fabrication of the 3D foot or design foot (see sheet Lower Limbs product range).
If necessary, we can integrate an insole inside the prosthesis.

