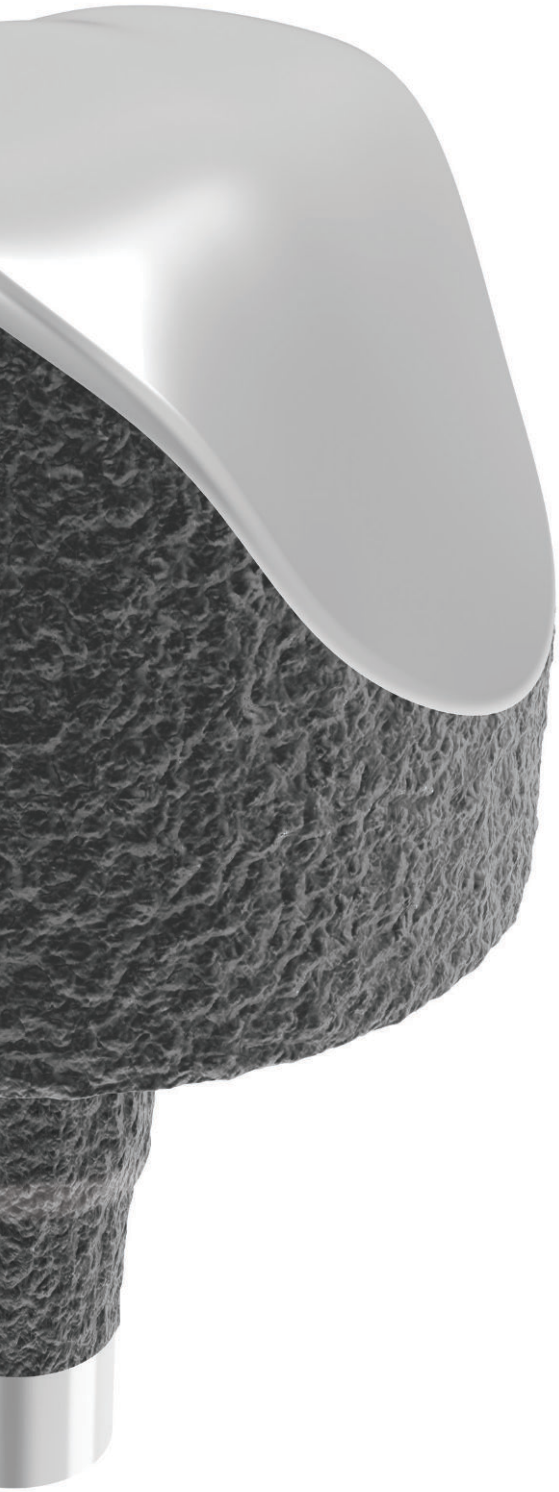
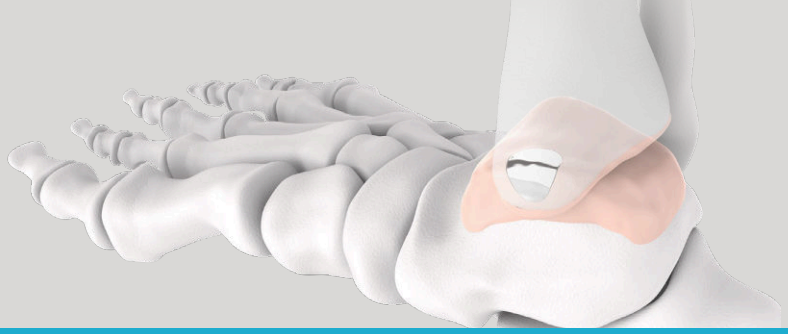
EPISURF Medical



EPISEALER® TALUS

AN INDIVIDUALISED IMPLANT FOR THE TREATMENT OF FOCAL OSTEOCHONDRAL DEFECTS IN THE ANKLE

EPISURF Medical



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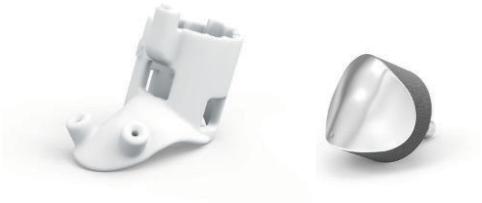
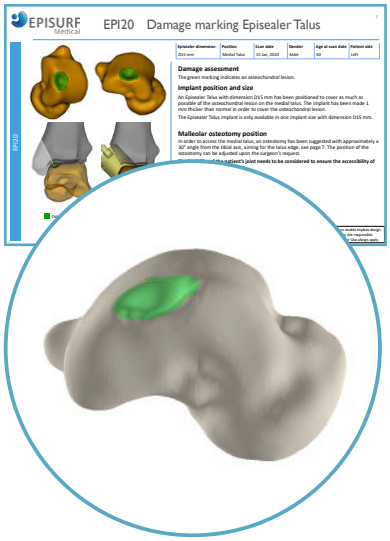
Episealer and toolkit - all you need

Each Episealer is designed to fit your patient's unique geometry. The implant is made of a cobalt-chrome alloy with its undersurface and sides coated with a double layer of titanium and hydroxyapatite to ensure a rapid and lasting fixation of the implant to the patient's bone. The top articulating surface has an individualised contour that accurately matches the geometry of the patient's talus.

The Episealer comes with a toolkit including the individualised Epiguide. The tools enable optimal placement of the Episealer, approximately 0.5 mm below the surrounding cartilage surface.





Damage Marking Report - pre-planning your surgery

Based on the patient's CT and/or MR images, a virtual 3D visualisation of the talus is produced. A Damage Marking Report enables you to explore your patient's individual level of damage and assess the suitability for an Episealer implant. The report includes a 3D visualisation of subchondral bone damage and signs after previous surgeries.

A suggested Episealer pre-planning visualisation, the 'Final Design', showing the exact planned position of the Epiguide and Episealer, is provided. This positioning can be fine-tuned further through communication between yourself and Episurf.

Talus Osteotomy Guide - an individualised access solution to the talus*

To facilitate the access to the medial talus, Episurf has developed an individualised osteotomy guide. Based on the patient's CT and/or MR images, the guide fits perfectly on the medial distal tibia. The saw guide will facilitate sawing until the correct depth while protecting adjacent tissues. Two drill holes are included to create the fixation holes for re-fixation of the medial malleolus.

* Talus Osteotomy Guide is an optional device.

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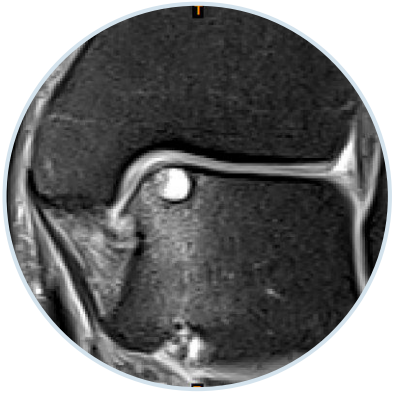
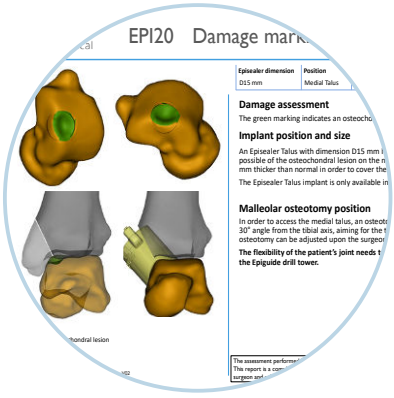
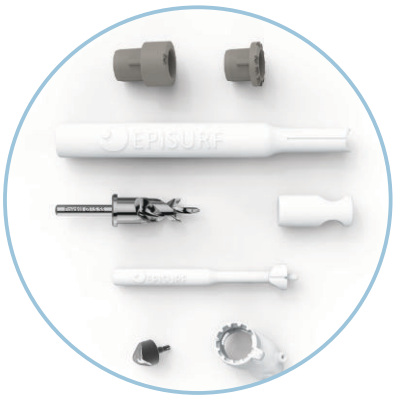


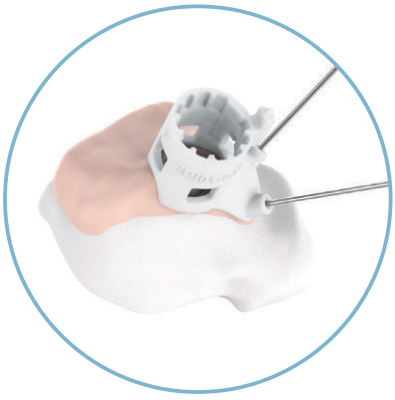
The Episealer implant and associated toolkit are designed based on CT and/or MRI data of the patient's talus. When opting for MRI, tailored 3D sequences and conventional (2D) diagnostic sequences are used to obtain geometric acquisition as well as osteochondral lesion assessment.



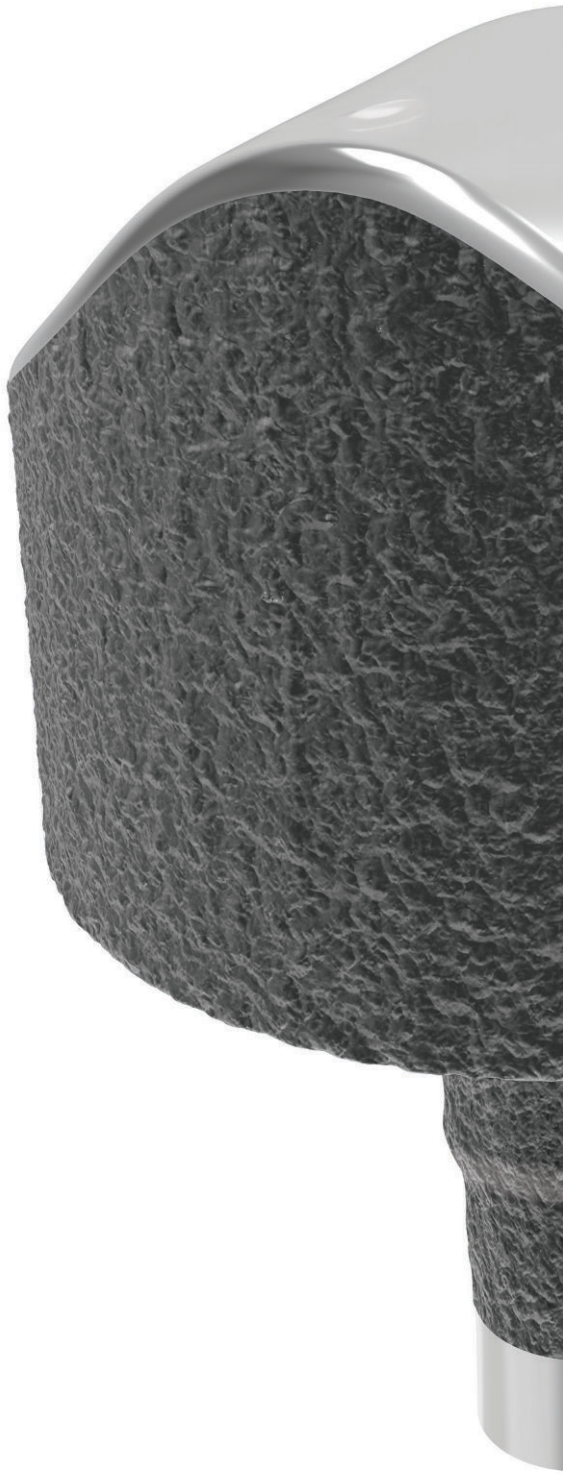
The images are used to create a virtual 3D model of the talus included in a Damage Marking Report. You will be able to review any potential implant solutions that Episurf can offer and modify the suggested solution if needed. The report is delivered through µiFidelity®, Episurf's interactive platform.



Once an implant solution has been approved, the Episealer and toolkit are designed and produced.



Thanks to the individualised design of the Episealer and toolkit, the surgery is perceived simple and straight-forward.



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