

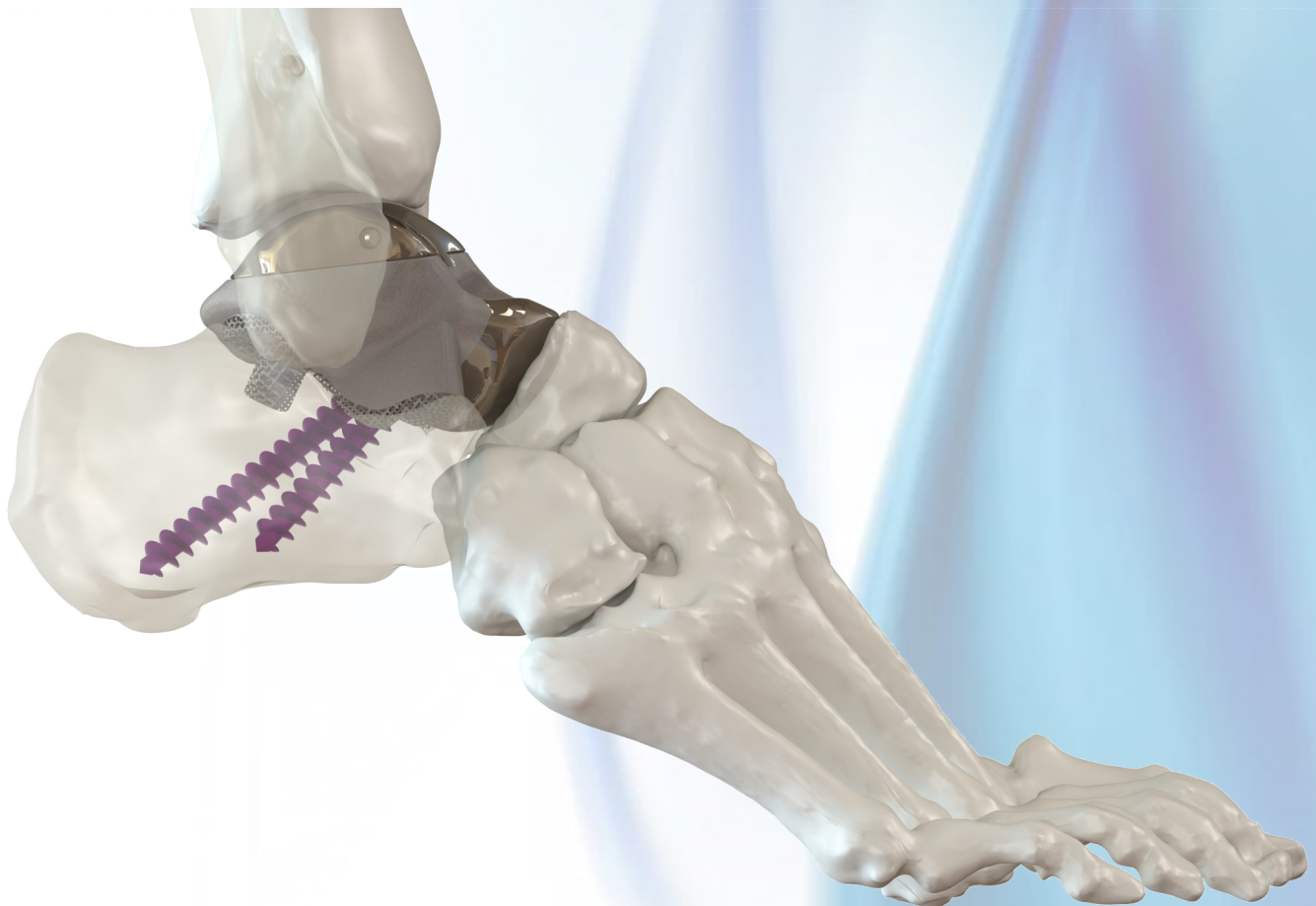
# LARS

# IMPLANTS

CiS

CUSTOM IMPLANT SOLUTIONS

## FOOT AND ANKLE

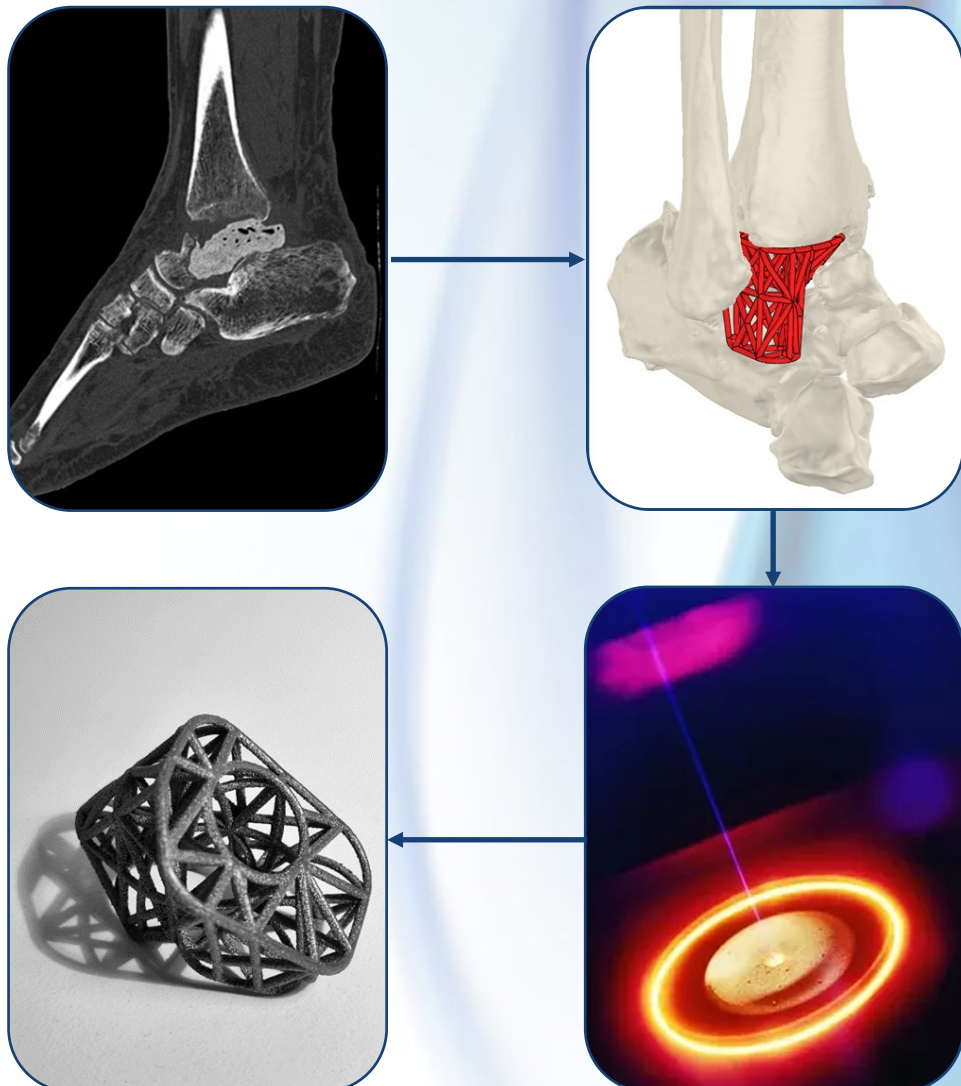


## ABOUT CiS

Based on years of experience in designing and developing custom implants, LRS Custom Implant Solutions (CiS) is a platform to ensure the best service to both surgeons and patients.

CiS works with surgeons to plan, design, and manufacture custom implants to solve cases that would not be possible with off-the-shelf implants. Careful consideration is given to both bony and soft tissue reconstruction. We offer the following services:

- Pre-Operative Planning
- Surgical Models
- Implant Design and Manufacture



## FOOT AND ANKLE

The complex anatomy of the foot, and the unique challenges faced by Foot and Ankle Surgeons are very well suited to the use of custom implants.

From metatarsal fusions to total calcaneus replacements, we believe there is a solution for almost any problem. Together with leading Surgeons, we have built up extensive experience in delivering a custom implant that improves the surgical outcome, and ultimately the patient's life.

We look forward to assisting you with your custom cases. We enjoy a challenge!



## TOTAL TALUS

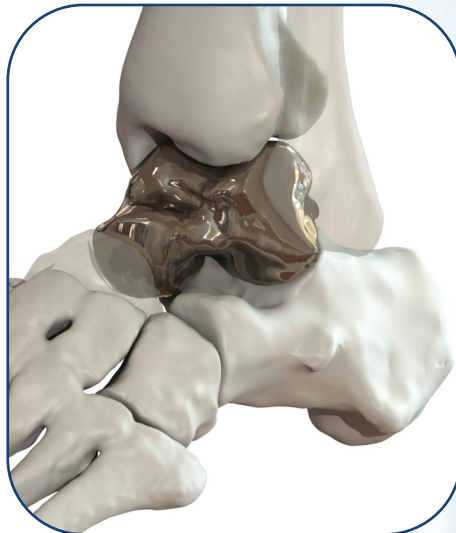
The LRS Total Talus Replacement is a custom prosthesis, designed using the patient's CT Scan Data. It is 3D printed in Titanium (Ti6Al4V), and a ceramic surface treatment is applied. It provides pain relief and preserves the motion of the ankle joint.

It is designed by mirroring the healthy contra-lateral talus.

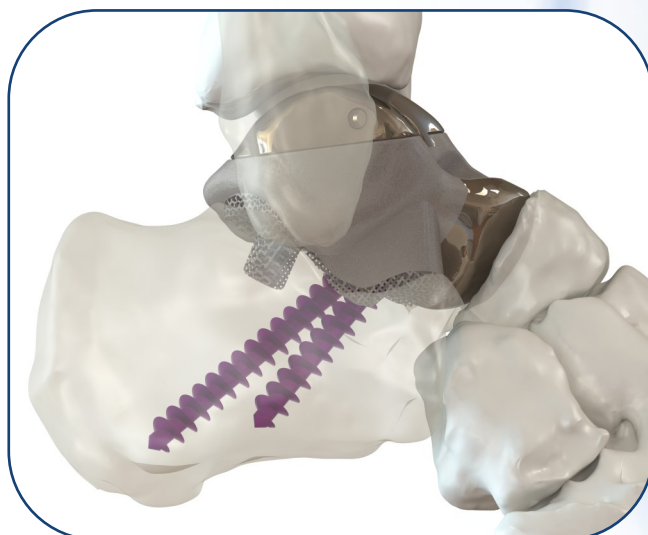
Trials and guides are provided for assistance during surgery.

Indications:

- AVN—pre and post collapse
- Unreconstructible trauma
- Infiltrative tumour



- “Free-Floating” talus. Held in position by foot anatomy.
- For use in cases of no damage of the talocrural and subtalar joints.
- Can be removed and revised to a fused talus (as below) or an ankle fusion.



- Fused to calcaneus with trabecular mesh and 7mm fusion screws.
- Modular talar dome can be removed from talar body—allows for revision with TAR.

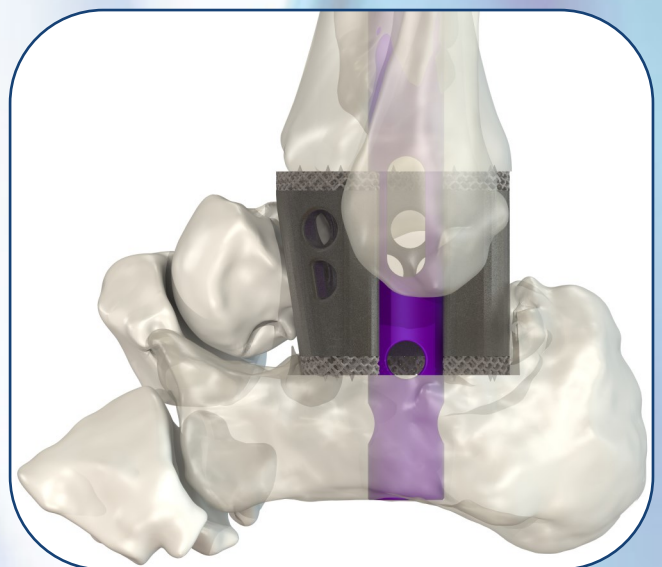
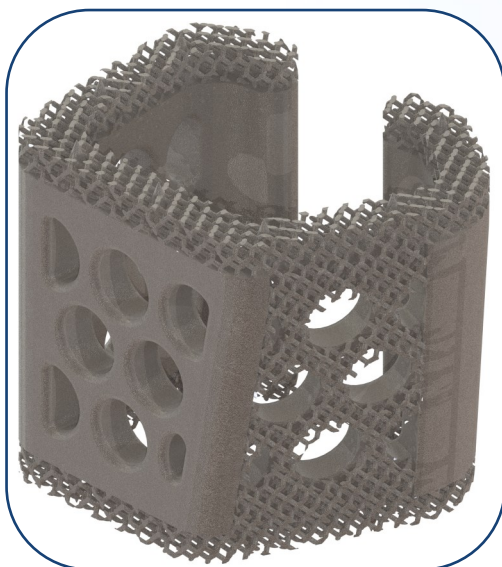
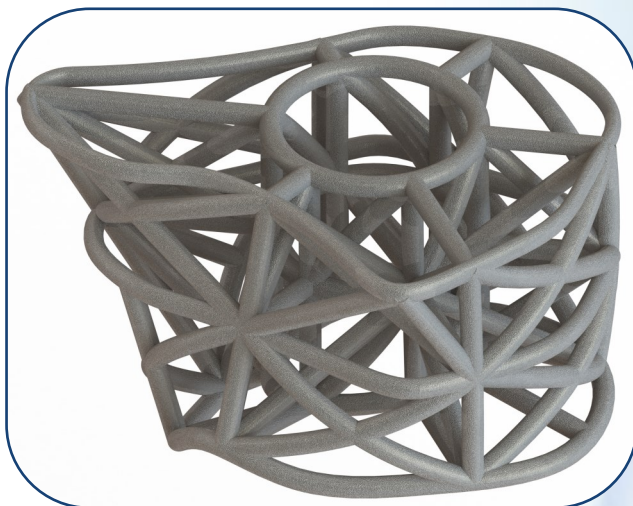
## ANKLE FUSION CAGE

LRS Ankle Fusion Cages are used for the treatment of large osseus defects of the ankle and hindfoot. They provide an alternative treatment option to structural allografts or autografts.

The cages can be combined with a hindfoot fusion nail or fusion plates and screws. The cages are filled with autograft or suitable bone substitutes

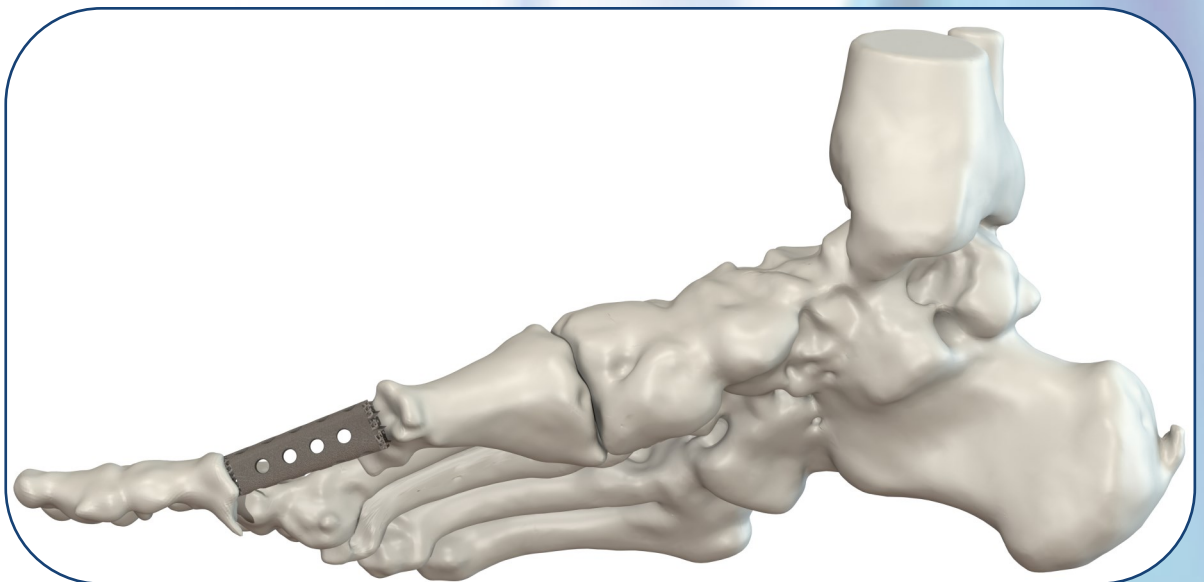
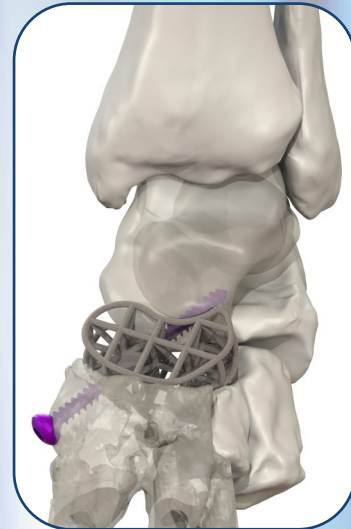
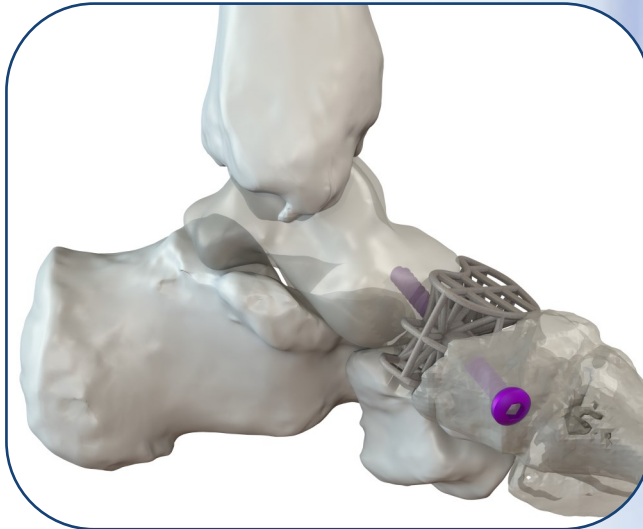
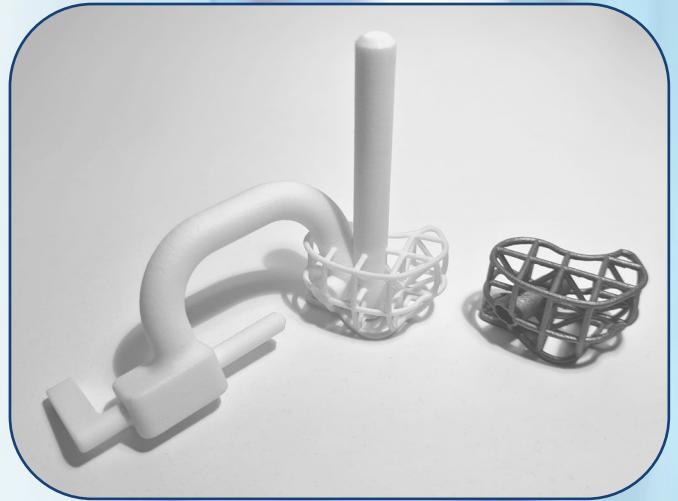
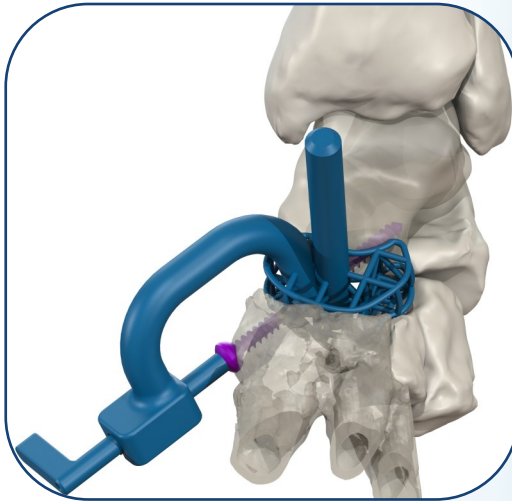
The cages are designed using the patient's CT scan data. Careful consideration is given to ensure optimum alignment of the foot.

Trials and guides are provided for assistance during surgery.



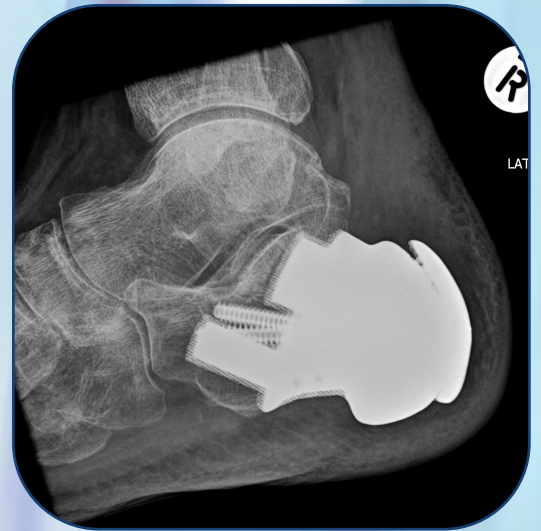
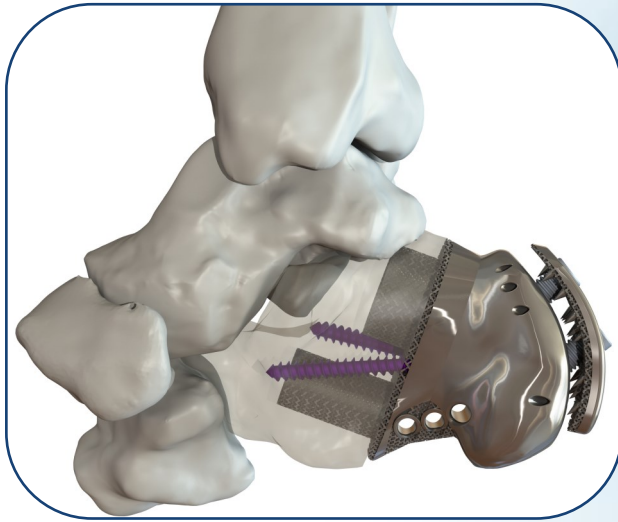
## MIDFOOT / FOREFOOT

LRS has designed numerous custom implants for the mid- and forefoot. Some examples are shown below:



## HINDFOOT

LRS has designed numerous custom implants for the hindfoot. Some examples are shown below:



## CONTACT DETAILS

LRS Implants is an innovative Orthopaedic Company, based in Cape Town, South Africa. LRS specialises in the field of Limb Salvage, and in finding solutions for any orthopaedic challenges.

We are happy to collaborate with surgeons or medical device companies to bring their ideas to reality, whether it be a new instrument or a custom mega-prosthesis.

LRS partners with leading academic institutions and suppliers to ensure that all products are of the highest quality and meet all international medical device standards.

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