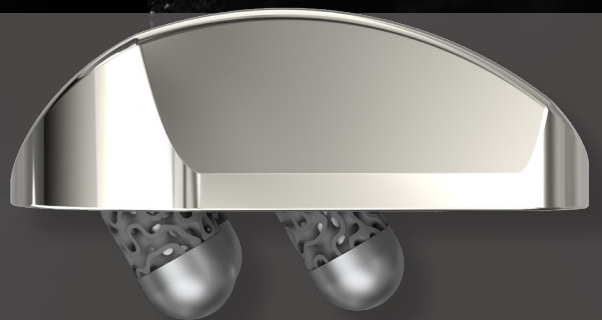**Kinos Axiom® Total Ankle System**

3D Printed Flat-Cut Talar Implant

featuring TIDAL Technology

Addresses the Challenges of Osseointegration
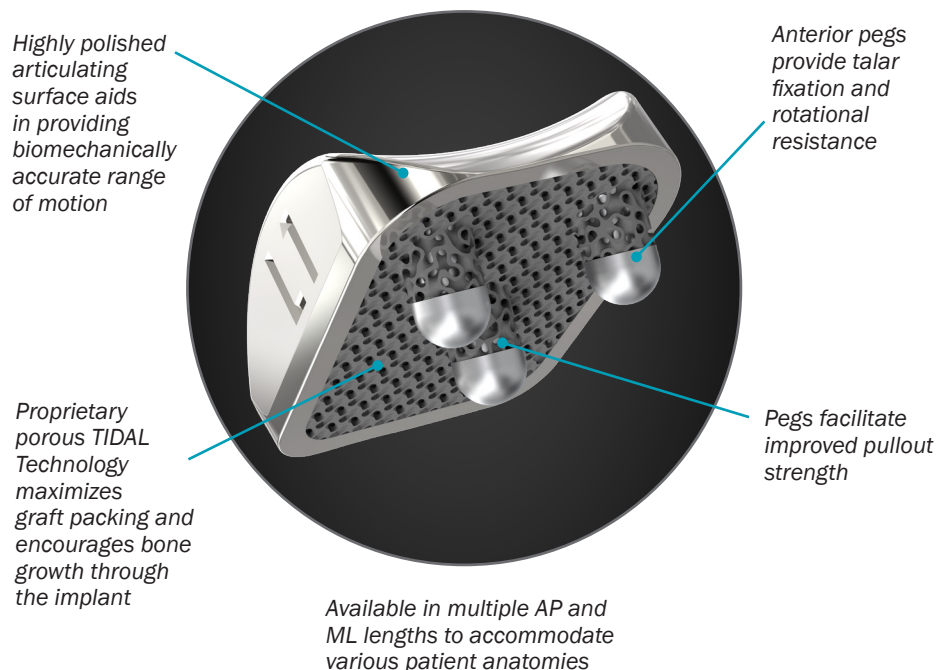for Long-Term Talar Fixation

restor3d

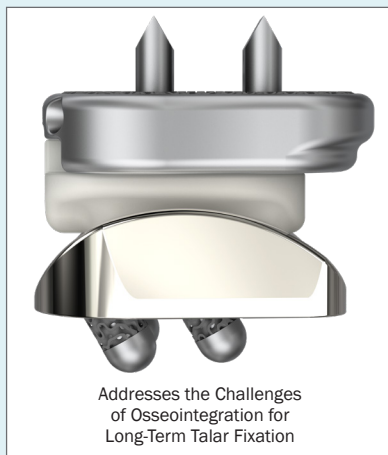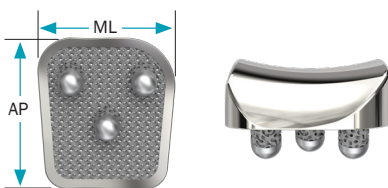# 3D Printed Flat-Cut Talar Implant
featuring TIDAL Technology

restor3d's Kinos Axiom® Total Ankle System features a 3D Printed Flat-Cut Talar Implant, expanding the Kinos Axiom® portfolio to offer solutions for more patients. The 3D Printed Flat-Cut Talar Implant was designed as a solution for the challenges associated with talar collapse or when the talar dome is difficult to preserve. This implant is manufactured from cobalt chromium molybdenum alloy.

Addresses the Challenges of Osseointegration for Long-Term Talar Fixation

Highly polished articulating surface aids in providing biomechanically accurate range of motion

Anterior pegs provide talar fixation and rotational resistance

Proprietary porous TIDAL Technology maximizes graft packing and encourages bone growth through the implant

Pegs facilitate improved pullout strength

Available in multiple AP and ML lengths to accommodate various patient anatomies

TIDAL Technology

restor3d's TIDAL Technology is an optimized porous architecture designed for osseointegration. Derived from sinusoidal functions, TIDAL Technology guides bone growth through the fully interconnected structure with maximized surface area.

- 100% Interconnectivity and up to 80% porosity[1]
- Mesoscale pores support graft retention and bony ingrowth[2]
- Direct bony apposition to implant surface guided by surface topography and curvature demonstrated in preclinical model[2,3]

BONE   IMPLANT

1. Kelly, et al. *Acta Biomaterialia* (2019) 94, 601-626.
2. Kelly, et al. *Journal of the Mechanical Behavior of Biomedical Materials* (2021) 116, 104380.
3. Kelly, et al. *Biomaterials* (2021) 279, 121206.

Sizing Options

3D Printed Flat-Cut Talar Implant featuring TIDAL Technology

SIZE	AP LENGTH (MM)	ML LENGTH (MM)
Size 1	31mm	28mm
Size 2	34mm	30mm
Size 3	36mm	32mm
Size 4	39mm	34mm

ML

AP

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