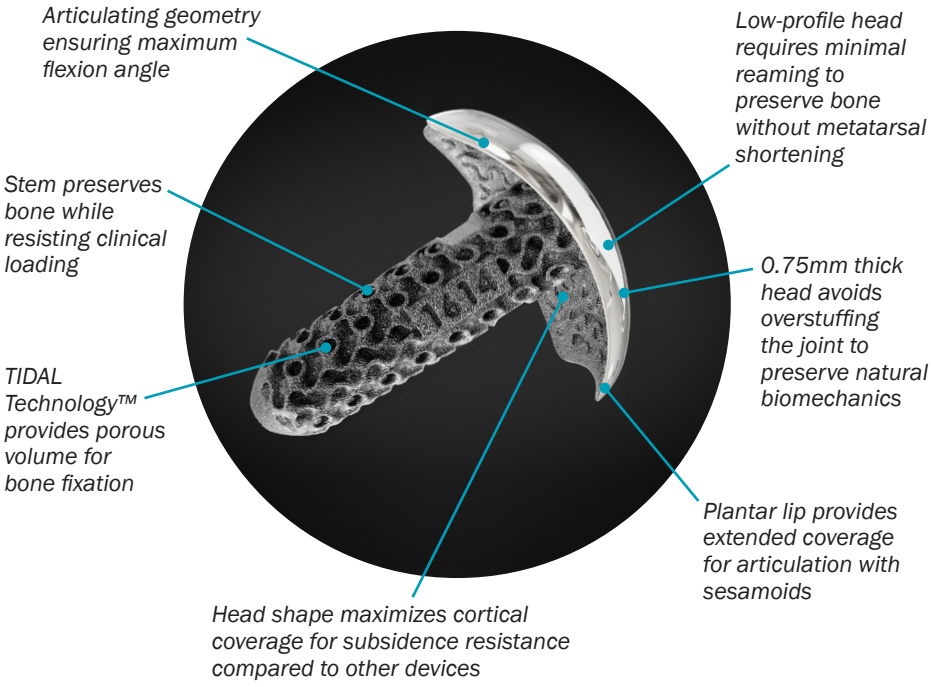
restor3d

MTP Hemiarthroplasty Implant

Featuring TIDAL Technology™

Addressing common challenges with 1st MTP Hemiarthroplasty, the restor3d implant system features:

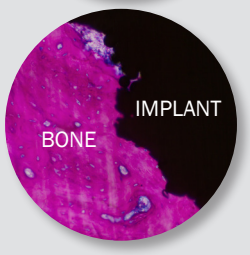
- Interconnected, porous architecture to promote maximum bone fixation
- Full resurfacing of the metatarsal head without overstuffing the joint
- Limited bone resection with ample decompression



Multiple sizes to accomodate differences in patient anatomy.

TIDAL Technology

Backed by years of scientific research and development



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.

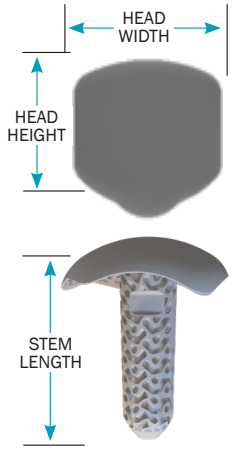
- 100% interconnectivity and up to 65% porosity[1]
- Mesoscale pores support graft retention and bony ingrowth[2]
- Direct bony apposition to implant surface guided by surface topography and curvature demonstrated in preclinical model[2,3]

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

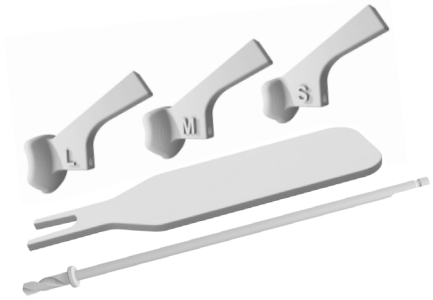
MTP Implant System

SIZE	HEAD WIDTH (MM)	HEAD HEIGHT (MM)	REAMER DIAMETER (MM)	STEM LENGTH (MM)	DRILL DIAMETER (MM)
Small	14	12	18	20	5.5
Medium	16	14	20	20	
Large	16	16	22	20	



Ordering Information – Instrumentation

MTP Instrument Kits

PRODUCT CODE	KIT NAME	CONTENTS	INSTRUMENTS
4103-D	MTP Cannulated Drill Bit Kit	Small Trial	
		Medium Trial	
		Large Trial	
		Insertion Tool	
		Cannulated Drill Bit	
4103-G	MTP Guidewire Kit	Impactor	
		Guidewire (x2)	

Concave Reamers

PRODUCT CODE	DIAMETER (MM)	INSTRUMENTS
6200-18	18	
6200-20	20	
6200-22	22	

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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.
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