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Next Generation Fixation

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Redefining limb salvage surgery

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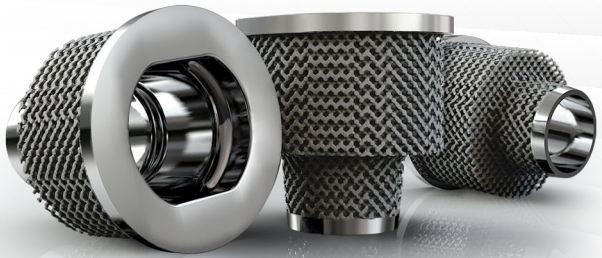
Bridging Collar - Worlds first In-growth, on-growth endosteal collar & sleeve technology



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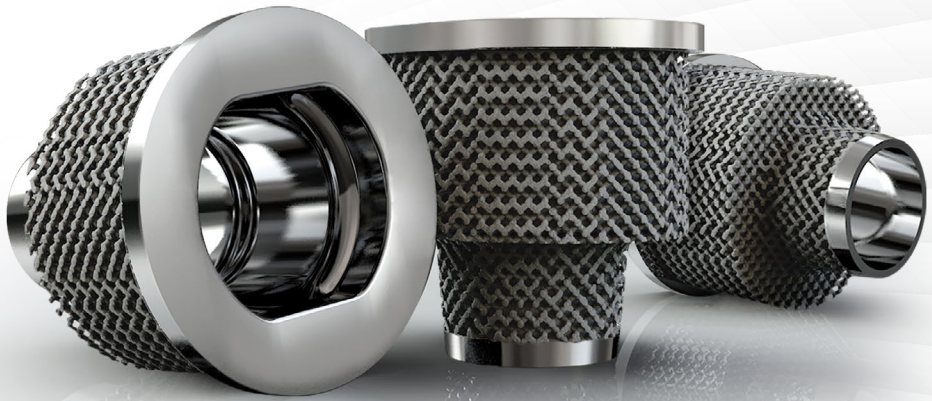
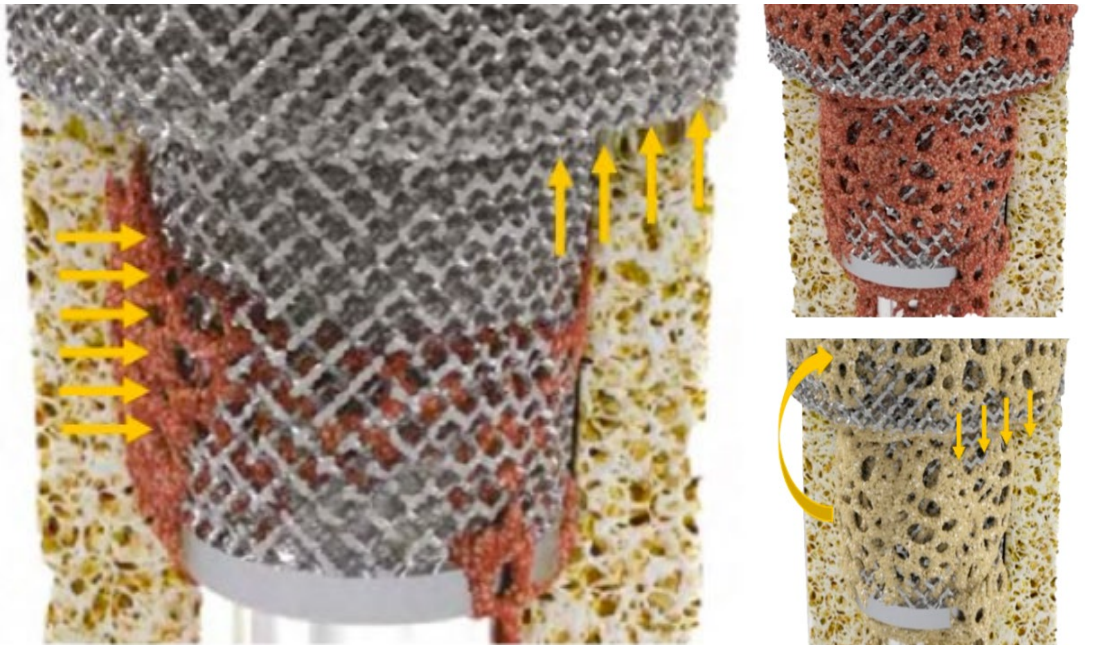
A total modular limb salvage platform, allowing complete freedom to address bone loss in oncology, trauma, infection and failed joint replacements

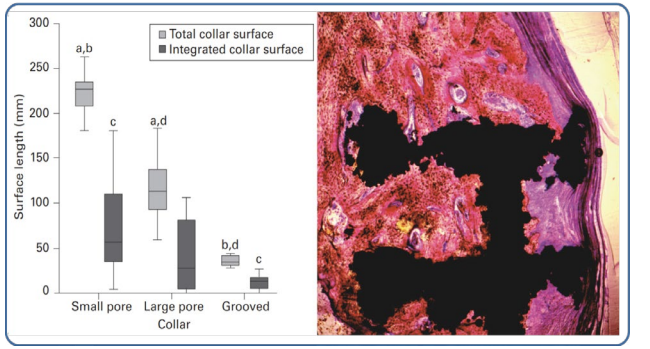


Fixation

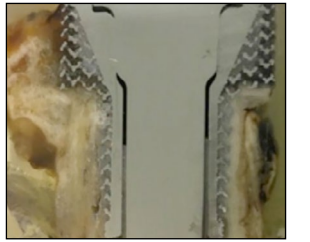
- A significant issue of endo-prostheses failure is centred around limited osseointegration around the collar due to poor periosteal host bone availability
- The function of the collar is to redistribute stresses onto cortical bone, whilst off loading the stresses on the stem by creating a biological seal around the joint surface interface
- Developing strategies to mitigate this may permit extended longevity of these implants. Simply put… not all collars are created equally



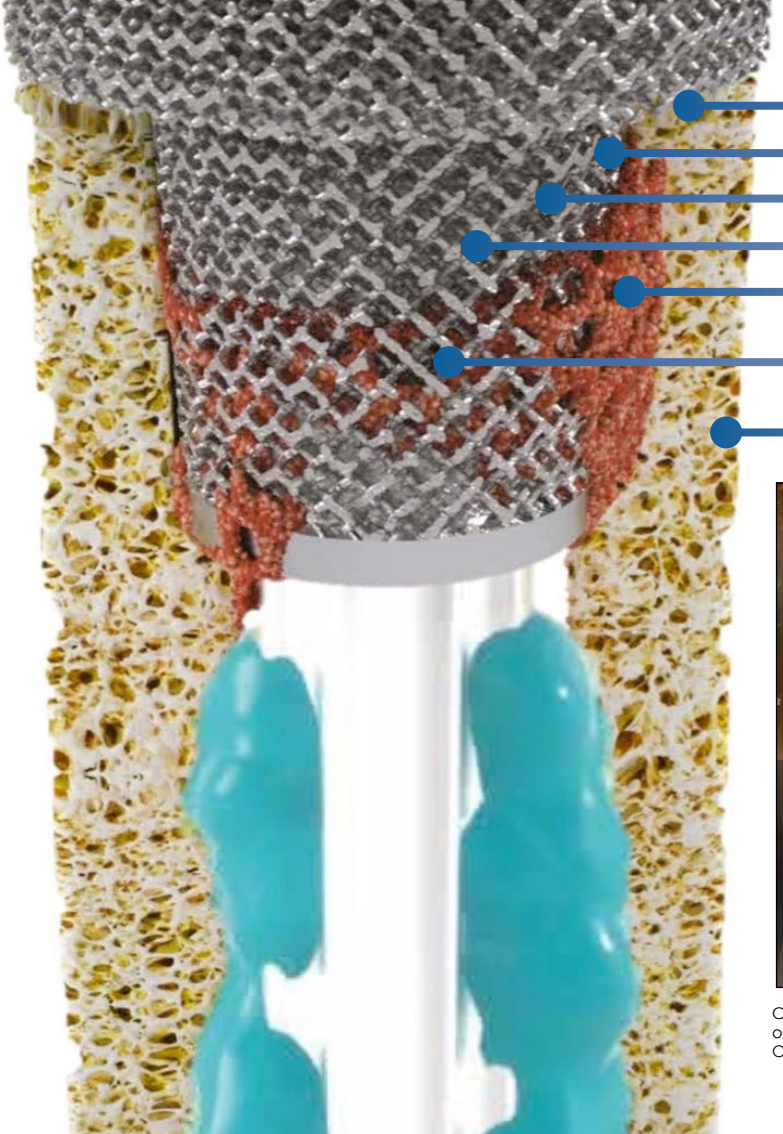
- The first and only company in the world to utilise 3D printed titanium collar technology, combining the design needs of a collar & sleeve in a single system for immediate primary press-fit stability for the modern endo-prosthesis
- 3D printed collars, have helped to significantly increase bony ingrowth histologically compared to existing HA only grooved designed collars
- Histological analysis has shown bone ingrowth (pink) into the porous collar (black). Porous/HA ALM technology augmented new bone formation by improving implant osteo-conductivity



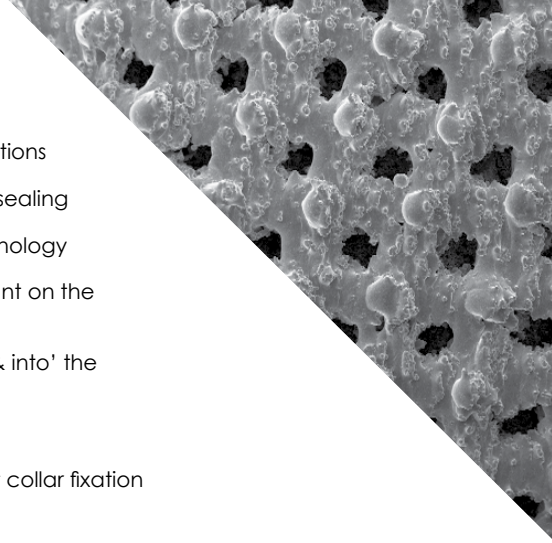
References: Batta V et al. Bone Joint J 2014 February 01;96-B(2):263-9. / Coathup MJ et al. J Bone Joint SurgAm. 2013 Sep 4;95(17):1569- 75 / Mumith A et al. Bone Joint J 2017 February 01;99-B(2):276-82

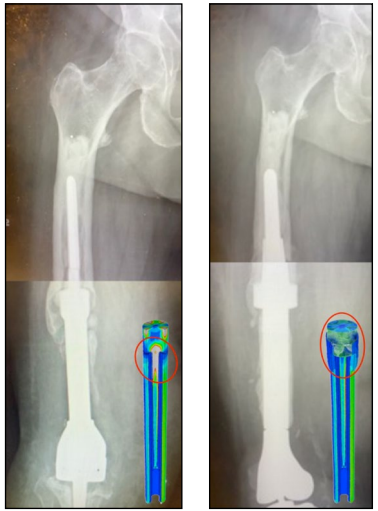


Courtesy of Mr. Ben Kendrick, consultant orthopaedic surgeon, Nuffield Orthopaedic Centre Oxford UK. Revised Adler stem and collar for infection

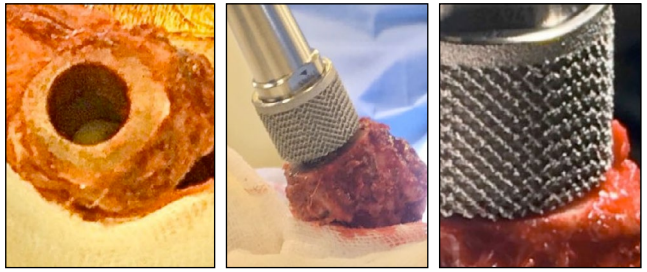


- 1000-micron porosity
- 26mm / 30mm / 36mm diameter collar options
- Immediate primary press-fit & joint-space sealing
- Integrated collar & endosteal sleeve technology
- Utilising endosteal cells and not solely reliant on the periosteum
- Endosteal bone bridging grows ‘through & into’ the porous structure
- Redistribute stresses onto cortical bone
- Specialised cement pressurisers to protect collar fixation





Courtesy of Mr. Duncan Whitwell, consultant orthopaedic surgeon, Nuffield Orthopaedic Centre Oxford UK. Revision of METS Stanmore to an Adler DFR



Courtesy of Mr. Ben Kendrick, consultant orthopaedic surgeon, Nuffield Orthopaedic Centre Oxford UK. Implantation of Adler stem and collar

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