



Trinity™

Advanced Bearing Acetabular System

Corin

Responsible Innovation

Patient matched solutions

# Trinity™

## Patient matched solutions

The Trinity™ Advanced Bearing Acetabular System provides surgeons with a seamless range of high performance bearings within a versatile acetabular shell featuring a cementless Biomimetic Cementless Technology.

Trinity™ represents the new generation in innovation and pioneering cementless technology designed to maximise fixation and articulation size.





Harnessing the power of innovation

# Trinity™

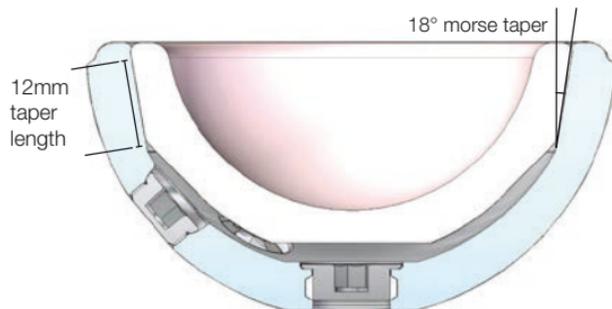
## Simplicity - Trinity<sup>i</sup>™

The Trinity-i™ system allows the largest bearing size to be matched to the smallest shell.

Bearing size	28	32	36	40
Shell size	44-46	46-50	50-68	54-68

## Two-in-one shell fixation

The Biomimetic Cementless Technology coated Hydrolok™ occluders are pre-assembled within the Trinity™ shell, giving the surgeon two options within one design. This gives the option for three screws to be used for additional fixation.

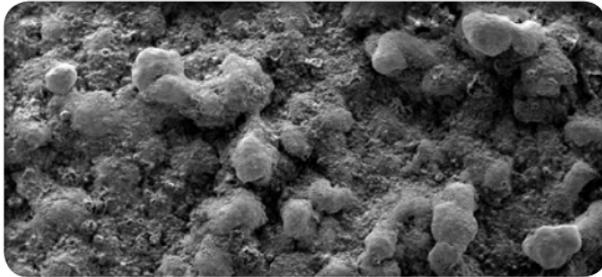


## Reproducibility of anatomy and liner seating

The longer taper and snap fit connection with anti-rotational castellations allow for easy liner insertion and soft tissue anatomical restoration. The taper is specifically designed to prevent mal-alignment of the liner.

## Advanced biomimetic coating

The vacuum plasma-sprayed pure titanium is overlaid with 20 microns of Biomimetic Cementless Technology, which has over 20 years of clinical heritage<sup>1,2,3</sup> and provides a 1.3mm press fit with over 30 ±10% porosity.

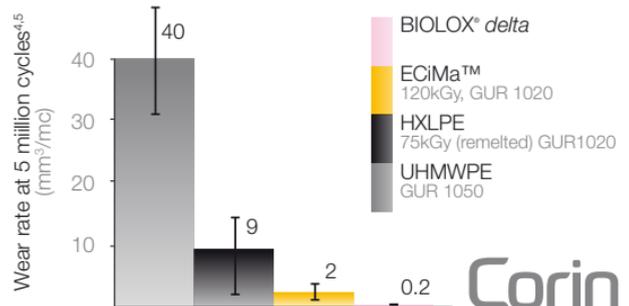


## Prime™ edge

The polished outer Prime rim is designed to reduce the potential of soft tissue irritation.

## ECiMa™: The power to lock out oxidative wear

- Ultra low wear: 95% reduction in wear with a 40mm bearing
- Mechanical superiority: 45% increase in ultimate tensile strength compared to first generation HXLPE
- Optimised function: Up to 40mm bearing sizes
- Oxidative shield: 'active stabilisation' provided by blended vitamin E



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#### References:

1. Wood PLR, Deakin S. Total ankle replacement. The results in 200 ankles. *J Bone Joint Surg (Br)* 2003; 85-B:3:334.
2. Saxler G, Temmen D, Bontemps G. Medium-term results of AMC-unicompartmental knee arthroplasty. *The Knee* 2004; 11:39-355.
3. Schlueter-Brust KU, Kruse S, Bontemps G. Twelve year survivorship after cemented and uncemented medial unicompartmental knee arthroplasty. 15th EFFORT Congress June 2014.
4. Traynor A, Simpson DJ, Collins SN. Vitamin E HXLPE for low wear and oxidation resistance of hip bearings. *International Society of Biomechanics*. Brussels. July 2011.
5. Data held on file, Prof Ian Clarke.

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