

# Performance. Versatility. Technology.

An Acetabular System Designed to Maximize Articulation Size

## RESTORIS® Trinity™ Acetabular Cup System



Used with the RIO® Robotic  
Arm Interactive Orthopedic  
System to enable a new  
level of precision



**MAKO**  
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# RESTORIS® Trinity™ Acetabular Cup System

A hemispherical acetabular cup system that provides a high performance bearing surface within a versatile acetabular shell featuring a cementless BONIT® coating. RESTORIS® Trinity™ represents the next generation in acetabular cup innovation and pioneering, cementless technology designed to maximize articulation size.

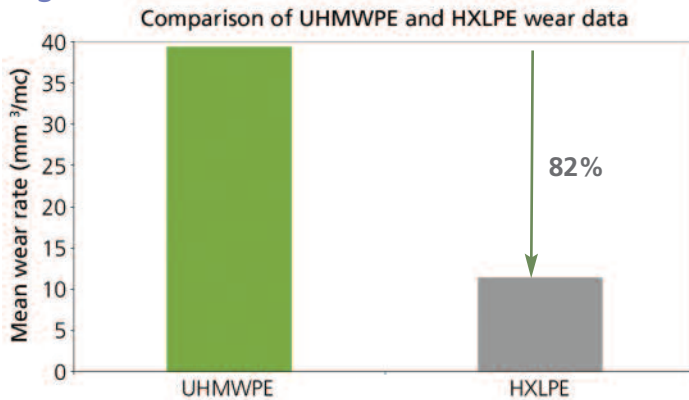


## Patient Matched Solutions

RESTORIS® Trinity™ Acetabular Cup ranges in size from 46mm to 64mm with 36mm heads in cup sizes 52mm and above, which has been shown to reduce the occurrence of dislocation and increase range of motion.<sup>1</sup>

1. Burroughs BR, Hallstrom B, Golladay GJ, Hoeffel D, Harris WH. Range of Motion and Stability in Total Hip Arthroplasty With 28-, 32-, 38-, and 44-mm Femoral Head Sizes: An In Vitro Study. *The Journal of Arthroplasty* 2005; 20.1:11-19.

## Significant Reduction in Wear<sup>2</sup>



RESTORIS® Trinity™ HXLPE Liners are machined from calcium-stearate free compression molded bar stock (GUR-1020), radiated to 7.5 Mrads, thermally treated to remove and minimize free radical formation, and final packaged with EtO sterilization. Standard and 4mm extended posterior wall liners are available.

2. Traynor, A; Smpson, D J; Ellison, P; Collins, S N. ECIMATM as a NExt Generation, Advanced Bearing Material. 11th European Federation of National Associations of Orthopaedics and Traumatology Congress, Copenhagen, June 2011

## Clinically Proven Biocompatible Coating



Vacuum plasma sprayed pure titanium with a 20 µm BONIT coating has more than 15 years<sup>3</sup> of clinical history and provides an initial 1.3mm press-fit and 35% porosity.

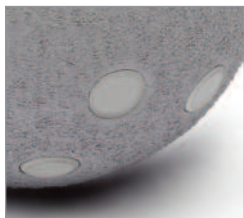
3. Saxler G, Temmen D, Bontemps G. Medium-term results of AMC-unicompartmental knee arthroplasty. *The Knee* 2004; 11:39-355.

## Potential Reduction in Psoas Irritation



Highly polished radiused surface of the RESTORIS® Trinity™ cup is designed to protect the iliopsoas tendon from irritation and may reduce impingement on the edge of the shell.

## Potentially Reduced Risk for Osteolysis



BONIT-coated occluders come pre-assembled in the RESTORIS® Trinity™ shell giving surgeons the option to use additional fixation via titanium bone screws, while providing the potential to block a pathway for fluid between the insert and the acetabular bone.

## Anti-Rotation Liner Locking Mechanism



Liner and the acetabular cup share a snap-fit locking mechanism with 12 anti-rotation castellations, which may reduce liner to shell micromotion.



*Restoring Quality of Life Through Innovation®*

MAKO Surgical Corp.

2555 Davie Road | Fort Lauderdale, FL 33317 | 866.647.6256 | www.makosurgical.com

Manufactured by Corin Group PLC.  
The Corinium Centre, Cirencester, GL71YJ, United Kingdom  
Phone: 011 44 1285659866

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