

Dynasty[®]

From Primary to Revision Options



Outer Geometry: full hemispherical design,
1mm overall press-fit



2 options for optimal ingrowth surface

- Sintered Titanium beads
- BIOFOAM[®]



Additional Screw fixation

- 3 holes for Porous Coated option.
- 3, 7, 8, 10 holes depending on Cup Size
(for BIOFOAM[®] option only)

Standard and 15° A-CLASS[®] Polyethylene liners

Dynasty[®]

Design Features



Outer Geometry: full hemispherical design, 1 mm overall press-fit



2 options for optimal ingrowth surface

Sintered Titanium beads – irregularly layered, 30% Porosity - avg. 114 µm pore size
BIOFOAM[®]

Immediate rigid fixation compared to beads

Greater resistance to spin-out¹

Over 200% greater bone in-growth in BIOFOAM[®] Matrix as compared to sintered beads at 12 weeks¹

Full interconnecting porosity

Osteoconductive matrix



Additional Screw fixation

3 holes for Porous Coated option.

3, 7, 8, 10 holes depending on Cup Size for BIOFOAM[®] option.



Standard and 15° A-CLASS[®] Polyethylene liners

History

Today's orthopedic surgeons face many challenges with acetabular fixation. Studies have shown that early migration of the acetabular component is predictive of the long-term survival of the implants.² It is of critical importance to ensure proper component fixation and improved bonding by bony ingrowth at the bone-implant interface, which will lead to decreased rates of aseptic loosening.

The DYNASTY[®] acetabular cup system was launched in USA in 2006, with the BIOFOAM[®] line extension released in 2009. With the DYNASTY[®] Cup System, surgeons will continue to have the benefits of cementless press-fit design together with A-CLASS[®] Poly, and the option for screw fixation.

The addition of BIOFOAM[®] Matrix makes this cup the ultimate primary and revision option. The configuration of these cups will allow for up to 10 screw holes on the larger diameter cups in conjunction with the newest generation in ingrowth fixation technology. BIOFOAM[®] mimics natural trabecular architecture to ensure sustainable rigid fixation through natural ingrowth within a metallic implant that provides the long-term strength and stability required in today's orthopaedic implants.

References

1. MPO data on file: A Biomechanical & Histological Evaluation of CP Titanium Reticulated Metal Foams and CP Titanium Beads in a Canine Model: A Pilot Study.
2. Freeman MA. Acetabular cup migration: prediction of aseptic loosening. J Bone Joint Surg [Br] 1997;79-B:342-3.

Disclaimer

Individual results and activity levels after surgery vary and depend on many factors including age, weight and prior activity level. There are risks and recovery times associated with surgery and there are certain individuals who should not undergo surgery.