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A 3D rendering of the Exceed ABT Acetabular System components. The image shows two views of the acetabular cup. The top view shows the outer shell with a dark, textured surface and a yellow, wavy, porous inner layer. The bottom view shows the inner shell with a dark, textured surface and a purple, wavy, porous inner layer. The components are shown in a perspective view, highlighting their curved, bowl-like shape.

Exceed ABT Acetabular System

Design Rationale

BIOMET®



Exceed ABT Acetabular System

Integral to Biomet's Total System Approach, the highly versatile Exceed ABT multi-bearing acetabular system unites the latest technological developments in large diameter bearing design with clinically proven fixation methods.

- Versatile
- Secure
- Clinically Proven Fixation^{1,2}
- Microplasty Compatible



Versatility

The Exceed-ABT acetabular system is a highly versatile multi-bearing platform capable of addressing the needs of both primary and revision hip surgery.

The facility to select intra-operatively between C2A-Delta (ceramic), M2A Series (metal) and E1 Antioxidant Infused Technology large diameter bearings optimises implant function in-line with clinical requirements and patient activity. Another significant benefit is the ability for components to be easily converted from a 'solid' to a 'multi-hole' shell by simply removing pre-assembled dome hole blanking plugs allowing the use of supplementary screw fixation.





Security

Improved stability, increased range of motion and reduced contact stress are all benefits that distinguish the Exceed ABT acetabular system from other products. Improved stability and increased range of motion are attributed to the extensive use of large diameter bearings, limiting the instances of dislocations and impingement; whilst reduced contact stress is a benefit achieved through optimal bearing contact via the patented 15 degree component.





C2A Delta Ceramic on Ceramic Bearings

The material of choice for the Exceed ABT ceramic on ceramic bearing is C2A Delta ceramic. This third generation ceramic is an alumina matrix composite that provides improved wear resistance and mechanical strength when compared to traditional alumina ceramic. C2A Delta ceramic bearings for the Exceed ABT are available in articulation diameters of 28mm, 32mm 36mm and 40mm.





M2A series Metal on Metal Bearings

The Exceed-ABT acetabular system utilises Biomet's clinically proven M2A series of metal on metal bearings. The M2A family of products includes the M2A 28, M2A 38, ReCap and M2A-Magnum brands and has for many years combined the benefits of reduced wear with large diameter articulation. M2A series metal bearings for the Exceed ABT are available in articulation diameters of 28mm, 32mm and 36mm.

The M2A series cobalt Chromium liners can equally be combined with Delta Ceramic modular heads.





E1 Antioxidant Infused Technology Bearings

The E1 Antioxidant Infused Technology has been developed from the clinically proven Arcom³. E1's manufacturing utilises a patented Vitamin E infusion method, avoiding remelting. The natural antioxidant of Vitamin E neutralises free radicals therefore addressing the limitations associated with remelting and annealing. E1 RingLoc-X bearings for the Exceed ABT RingLoc-X acetabular shell are available in articulation diameters 22,22mm, 28mm, 32mm, 36mm and 40mm, in standard, high-wall 10° and +3mm liner options.

The E1 tapered bearing for the Exceed ABT Taperfit shell is available in articular diameters 28mm, 32mm and 36mm, in standard and 10° liner options.





Clinically Proven Fixation Methods

All Exceed ABT Acetabular components utilise Biomet's clinically proven closed pore and optional Hydroxyapatite coatings as a combination medium for the bone implant interface. Biomet's closed pore plasma sprayed porous coating has been enhancing implant stability and survivorship since 1987^{1,2}, with the additional HA coated options, including Biomet's nano-crystalline Bonemaster HA, proven to clinically enhance bone density^{4,5}.





Clinically Proven Fixation Methods

The Exceed ABT C2A-Delta ceramic, M2A and E1 Antioxidant Infused Technology bearings employ the industry tested and clinically proven morse taper system, in addition the E1 bearings utilise Biomet's clinically proven RingLoc-X liner retaining mechanism.





Total System Approach to Total Hip Replacement

As an integral part of Biomet's Total System Approach, the Exceed ABT acetabular system can be integrated to any of Biomet's clinically proven cemented and cementless primary and revision femoral components, making it a truly versatile implant system.





Minimally Invasive

The ability to choose between Biomet's Microplasty and Anterior Supine Intermuscular (ASI) instruments designed specifically to facilitate precise bone preparation and implant insertion of the Exceed-ABT components through reduced incisions, provide you with the ability to select the surgical technique and approach best suited for your patient.





Exceed ABT Acetabular System

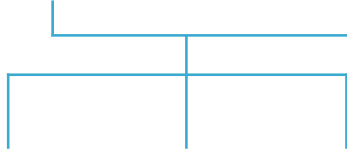
The Exceed ABT cementless shell components are available in diameters ranging from 40mm to 70mm in 2mm increments. The articulation diameter of each ceramic, metal and E1 Antioxidant Infused Technology bearing is tailored to the shell diameter. The acetabular bearing inserts are available in articulating diameters of 22,22mm, 28mm, 32mm, 36mm and 40mm.

Exceed ABT TaperFit



Standard
TaperFit Shell

15°
TaperFit Shell



C2A Ceramic Liner



E1 Liner



M2A Metal Liner

Exceed ABT Ringloc-X



3-Hole Shell

Multi-Hole Shell



E1 Standard Liner



E1 High-Wall Liner



E1 10° Liner



C2A Ceramic Head



M2A CoCrMo Head

Orthopaedic Skills Academy

As a worldwide orthopaedic device manufacturer, Biomet believe that continuous education and training is just as essential as implant reliability in achieving excellent long-term clinical results and optimal patient care.

In order to transform this belief into a reality, Biomet has developed a detailed education and training programme called the Orthopaedic Skills Academy. This innovative orthopaedic educational programme has been specifically designed for all health care professionals.

Our aim is to unite members of the orthopaedic community, continuously improve their knowledge, enhance their understanding of orthopaedic procedures and latest technological advances. The Orthopaedic Skills Academy therefore provides a comprehensive selection of educational programmes that can be specifically tailored to match the expectations and needs of each individual.



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