References:

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DePuy believes in an approach to total hip replacement that places equal importance on recovery, function and survivorship.
The ceramic-on-metal bearing combination brings a new option for the surgeon within the DePuy high performance bearing range. The use of differential hardness bearings has been common in many different industries, as a solution for optimised wear performance. DePuy has embraced this technology by extensively testing the combination of their Biolox® Delta ceramic head and their Ultamet™ metal liner.

Combining the extremely low wear of ceramic with the toughness of metal, for active, demanding patients.
Smaller cup, bigger head.

The inherent strength of Ultamet™ metal liners allow a smaller Pinnacle™ acetabular cup to be used in conjunction with a larger diameter Biolox® Delta ceramic head.

The potential to use a larger head means that ceramic-on-metal bearings can offer superior resistance to dislocation with increased range of motion, reduced wear, and enhanced bone preservation.1,2,3,4
The tribology of a unique low-wear combination.

Biolox® Delta heads and Ultamet™ metal liners.

The differential hardness bearing improves fluid film lubrication and reduces adhesive wear.6,8,9

The ceramic-on-metal bearing minimises corrosive wear.5,8,9

Improved wear performance results in reduced metal ions levels.5,8,9
Overcoming stripe wear.

Microseparation and rim loading can cause stripe wear in ceramic-on-ceramic bearings. In-vitro tests have proven that differential hardness achieved through a ceramic-on-metal combination avoids stripe wear.
Potential for liner fracture or chipping eliminated.

Whilst modern ceramics are very tough there is still a potential for mechanical failure. Use of Ultamet™ liners and ceramic-on-metal bearings eliminates the potential damage to the ceramic liner.

The chipping of the liner caused by prosthesis femoral neck impingement is eliminated by using ceramic-on-metal.10

Possible liner fracture due to extreme trauma is eliminated.
DePuy High Performance Bearings

**Ordering Information**

28 mm 9/10 Biolox® Delta Head
- 1365-28-110 28 mm 9/10 Biolox® Delta Head Neck Length -3
- 1365-28-120 28 mm 9/10 Biolox® Delta Head Neck Length +0
- 1365-28-130 28 mm 9/10 Biolox® Delta Head Neck Length +3

28 mm 11/13 S-ROM® Biolox® Delta Head
- 1365-28-210 28 mm 11/13 S-ROM® Biolox® Delta Head Neck Length +0
- 1365-28-220 28 mm 11/13 S-ROM® Biolox® Delta Head Neck Length -3
- 1365-28-230 28 mm 11/13 S-ROM® Biolox® Delta Head Neck Length +6

36 mm 9/10 Biolox® Delta Head
- 1365-36-110 36 mm 9/10 Biolox® Delta Head Neck Length -3
- 1365-36-120 36 mm 9/10 Biolox® Delta Head Neck Length +0
- 1365-36-130 36 mm 9/10 Biolox® Delta Head Neck Length +3

36 mm 11/13 S-ROM® Biolox® Delta Head
- 1365-36-210 36 mm 11/13 S-ROM® Biolox® Delta Head Neck Length +0
- 1365-36-220 36 mm 11/13 S-ROM® Biolox® Delta Head Neck Length -3
- 1365-36-230 36 mm 11/13 S-ROM® Biolox® Delta Head Neck Length +6
- 1365-36-240 36 mm 11/13 S-ROM® Biolox® Delta Head Neck Length +9

36 mm 12/14 Articulox® Biolox® Delta Head
- 1365-36-310 36 mm 12/14 Articulox® Biolox® Delta Head Neck Length +1.5
- 1365-36-320 36 mm 12/14 Articulox® Biolox® Delta Head Neck Length +5
- 1365-36-330 36 mm 12/14 Articulox® Biolox® Delta Head Neck Length +8.5
- 1365-36-340 36 mm 12/14 Articulox® Biolox® Delta Head Neck Length +12

28 mm Ultamet™ Alternative Bearing Insert
- 1218-89-144 28 mm Ultamet™ Alternative Bearing Insert OD 44 mm
- 1218-89-146 28 mm Ultamet™ Alternative Bearing Insert OD 46 mm
- 1218-89-148 28 mm Ultamet™ Alternative Bearing Insert OD 48 mm
- 1218-89-150 28 mm Ultamet™ Alternative Bearing Insert OD 50 mm
- 1218-89-152 28 mm Ultamet™ Alternative Bearing Insert OD 52 mm
- 1218-89-154 28 mm Ultamet™ Alternative Bearing Insert OD 54 mm
- 1218-89-156 28 mm Ultamet™ Alternative Bearing Insert OD 56 mm
- 1218-89-158 28 mm Ultamet™ Alternative Bearing Insert OD 58 mm
- 1218-89-160 28 mm Ultamet™ Alternative Bearing Insert OD 60 mm

36 mm Ultamet™ Alternative Bearing Insert
- 1218-87-350 36 mm Ultamet™ Alternative Bearing Insert OD 50 mm
- 1218-87-352 36 mm Ultamet™ Alternative Bearing Insert OD 52 mm
- 1218-87-354 36 mm Ultamet™ Alternative Bearing Insert OD 54 mm
- 1218-87-356 36 mm Ultamet™ Alternative Bearing Insert OD 56 mm
- 1218-87-358 36 mm Ultamet™ Alternative Bearing Insert OD 58 mm
- 1218-87-360 36 mm Ultamet™ Alternative Bearing Insert OD 60 mm
- 1218-87-362 36 mm Ultamet™ Alternative Bearing Insert OD 62 mm
- 1218-87-364 36 mm Ultamet™ Alternative Bearing Insert OD 64 mm
- 1218-87-366 36 mm Ultamet™ Alternative Bearing Insert OD 66 mm