

# BIOTECH BP Total Shoulder System

## Product Catalog



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# BIOTECH

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2

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## “Movement is Life”

**BP Polyethylene Glenoid Component**

<b>UHMWPE DIN EN ISO 5834-2</b>		
BP Polyethylene Glenoid	S - 3 mm	090-3300-1003
BP Polyethylene Glenoid	S - 4 mm*	090-3300-1004
BP Polyethylene Glenoid	S - 5 mm	090-3300-1005
BP Polyethylene Glenoid	M - 3 mm	090-3300-2003
BP Polyethylene Glenoid	M - 4 mm*	090-3300-2004
BP Polyethylene Glenoid	M - 5 mm	090-3300-2005
BP Polyethylene Glenoid	L - 3 mm	090-3300-3003
BP Polyethylene Glenoid	L - 4 mm*	090-3300-3004
BP Polyethylene Glenoid	L - 5 mm	090-3300-3005

**BP Glenoid Insert**

<b>UHMWPE DIN EN ISO 5834-2</b>		
BP Glenoid tray insert	S - 3 mm	090-5300-0003
BP Glenoid tray insert	S - 4 mm*	090-5300-0004
BP Glenoid tray insert	S - 5 mm	090-5300-0005
BP Glenoid tray insert	M - 3 mm	090-5300-1003
BP Glenoid tray insert	M - 4 mm*	090-5300-1004
BP Glenoid tray insert	M - 5 mm	090-5300-1005
BP Glenoid tray insert	L - 3 mm	090-5300-2003
BP Glenoid tray insert	L - 4 mm*	090-5300-2004
BP Glenoid tray insert	L - 5 mm	090-5300-2005

**BP Glenoid Tray**

<b>TiAl6V4 DIN EN ISO 5832-3</b>		
BP Glenoid Tray	S	090-4220-0000
BP Glenoid Tray	M	090-4220-0001
BP Glenoid Tray	L	090-4220-0002

**BP Modular Humeral Head**

<b>- Stainless Steel DIN EN ISO 5832-9</b>		
BP Modular Humeral Head	40mmx15mm	090-2100-4015
BP Modular Humeral Head	48mmx17mm	090-2100-4817
BP Modular Humeral Head	48mmx20mm	090-2100-4820
BP Modular Humeral Head	48mmx22mm	090-2100-4822
BP Modular Humeral Head	48mmx25mm	090-2100-4825
BP Modular Humeral Head	48mmx28mm	090-2100-4828

**BP Glenoid Tray Fixation Screw**

<b>- TiAl6V4 DIN EN ISO 5832-3</b>		
BP Glenoid Tray Fixation Screw	5mmx15mm	090-0200-5015
BP Glenoid Tray Fixation Screw	5mmx20mm	090-0200-5020
BP Glenoid Tray Fixation Screw	5mmx25mm	090-0200-5025
BP Glenoid Tray Fixation Screw	5mmx30mm	090-0200-5030
BP Glenoid Tray Fixation Screw	5mmx35mm	090-0200-5035
BP Glenoid Tray Fixation Screw	5mmx40mm	090-0200-5040

**BP Modular Humeral Stem Cemented**

<b>- TiAl6V4 DIN EN ISO 5832-3</b>		
BP Modular Humeral Stem	6mm	090-1210-0006
BP Modular Humeral Stem	8mm	090-1210-0008
BP Modular Humeral Stem	10mm	090-1210-0010
BP Modular Humeral Stem	12mm	090-1210-0012

**BP Modular Revision Humeral Stem Cemented**

<b>- TiAl6V4 DIN EN ISO 5832-3</b>		
BP Modular Revision Humeral Stem	6mmx190mm, cemented	091-1030-0006
BP Modular Revision Humeral Stem	8mmx190mm, cemented	091-1030-0008
BP Modular Revision Humeral Stem	10mmx190mm, cemented	091-1030-0010
BP Modular Revision Humeral Stem	12mmx190mm, cemented	091-1030-0012

**BP BIOTAN Modular Humeral Stem Uncemented**

<b>- TiAl6V4 DIN EN ISO 5832-3,</b>		
BP BIOTAN Modular Humeral Stem	6mm	090-1030-0006
BP BIOTAN Modular Humeral Stem	8mm	090-1030-0008
BP BIOTAN Modular Humeral Stem	10mm	090-1030-0010
BP BIOTAN Modular Humeral Stem	12mm	090-1030-0012

**BP BIOTAN Modular Revision Humeral Stem Uncemented**

<b>- TiAl6V4 DIN EN ISO 5832-3,</b>		
BP BIOTAN Modular Revision Humeral Stem	6mmx190mm, uncem.	091-1040-0006
BP BIOTAN Modular Revision Humeral Stem	8mmx190mm, uncem.	091-1040-0008
BP BIOTAN Modular Revision Humeral Stem	10mmx190mm, uncem.	091-1040-0010
BP BIOTAN Modular Revision Humeral Stem	12mmx190mm, uncem.	091-1040-0012

\* - optional

The Biotech BP Total Shoulder System has been designed to take into account the latest advances in the evolution of prosthetic systems for shoulder replacement; primary, revision, total or hemiarthroplasty and trauma prosthesis. The fenestration of the stem allows better healing of the tubercular fragments and hereby provides the appropriate function of the rotator cuff. The Biotech BP Total Shoulder System is modular and incorporates a comprehensive range of implants, it offers the unique feature of a posterior offset head which can be indexed to achieve maximal coverage of the cut humeral head surface and a large joint surface area. These choices allow better restoration of normal humeral head shape and size, factors which are important in the tensioning of the soft tissues, providing maximum possible function.

The System Comprises:

- 4 Humeral Stem sizes (6,8,10,12 mm) and 4 Revision Stems (6,8,10,12x190 mm) for use with and without bone cement
- Modular Heads of a 40x15mm and of 48mm spherical diameter in 5 head heights (17, 20, 22, 25 & 28 mm)
- Cementless and Cemented Glenoid components.

The Biotech Shoulder System has been designed for implantation entirely without cement using a low profile screw anchored porous coated shell with the option of a 3 mm liner.

**HUMERAL STEMS**

The Biotech BP Total Shoulder Arthroplasty System incorporates a range of 4 humeral stems, which have been used in clinical trials over a five-year period. The sizes have been selected for their suitability as uncemented components but also incorporate design features, which make them equally suitable for use with methylmethacrylate bone cement. The reverse morse taper provides the surgeon optimal access to the surgical field after the humeral component has been implanted. The proximal porous coating allows biological fixation as a result of bone ingrowth and cement should not normally be applied to this area. The smooth distal stem with 3 anti-rotation flutes provides good fixation with cement. The morse taper includes a unique indexing system to allow for an adjustable posterior offset. The fenestration of the stem allows better healing of the tubercular fragments and hereby provides appropriate function of the rotator cuff. The cortico-spongiosa bone-block taken from the head serves the healing of the tubercles with the by-pass fixation through the stem fenestration.

**MODULAR OFFSET HEAD**

Each head comprises a hollow cobalt chrome alloy design providing lightness and a durable articulating surface. The unique ability to index the head allows the surgeon to adjust the degree of posterior and superior displacement to  $\pm 5$  mm,  $\pm 3$  mm or 0 mm of posterior offset depending on the anatomy of each patient.

The range of 6 head heights allow accurate balancing and tensioning of the rotator cuff muscles.

**THE UNCEMENTED GLENOID**

Having a 1,5mm thick base-plate it incorporates a porous ingrowth surface to maximise the bone ingrowth. This type of "closed-pore" coating has no inter-connective spaces, a pore size ranging between 75-350 micron, thickness of 500 micron and approximately 30% porosity. The base-plate has a central peg to provide primary stability under large surface area for ingrowth. Two holes - superior and inferior for low-profile screws to provide additional primary stability. A standard polyethylene high conformity bearing surface with a minimum thickness of 3mm.

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