Order Information

BA BIOTAN™ uncemented femoral stem – TiAl6V4, DIN EN ISO 5832-3, 12-14

6,25 mm	001-1111-0625
7,50 mm	001-1111-0750
8,75 mm	001-1111-0875
10,00 mm	001-1111-1000
11,25 mm	001-1111-1125
12,50 mm	001-1111-1250
13,75 mm	001-1111-1375
15,00 mm	001-1111-1500
16,25 mm	001-1111-1625
17,50 mm	001-1111-1750
18,50 mm	001-1111-1875
20,00 mm	001-1111-2000

BA Fixloc™ cemented femoral stem – High Nitrogen Stainless Steel, DIN EN ISO 5832-9, 12-14

6,25 mm	001-2112-0625
7,50 mm	001-2112-0750
8,75 mm	001-2112-0875
10,00 mm	001-2112-1000
11,25 mm	001-2112-1125
12,50 mm	001-2112-1250
13,75 mm	001-2112-1375
15,00 mm	001-2112-1500
16,25 mm	001-2112-1625
17,50 mm	001-2112-1750

BA BIOTAN™ uncemented femoral stem CoCrMo DIN EN ISO 5832-4, 12-14

6,25 mm	001-1115-0625
7,50 mm	001-1115-0750
8,75 mm	001-1115-0875
10,00 mm	001-1115-1000
11,25 mm	001-1115-1125
12,50 mm	001-1115-1250
13,75 mm	001-1115-1375
15,00 mm	001-1115-1500
16,25 mm	001-1115-1625
17,50 mm	001-1115-1750

BA Fixloc™ cemented femoral stem CoCrMo DIN EN ISO 5832-4, 12-14

6,25 mm	001-2114-0625
7,50 mm	001-2114-0750
8,75 mm	001-2114-0875
10,00 mm	001-2114-1000
11,25 mm	001-2114-1125
12,50 mm	001-2114-1250
13,75 mm	001-2114-1375
15,00 mm	001-2114-1500
16,25 mm	001-2114-1625
17,50 mm	001-2114-1750

Metal Modular heads – CoCr DIN EN ISO 5832-4 (12/14)

diameter: 22mm	
S	016-1111-2225
M	016-1112-2225
L	016-1113-2225
XL	016-1114-2225
XXL	016-1115-2225
diameter: 26mm	
S	016-1111-2600
M	016-1112-2600
L	016-1113-2600
XL	016-1114-2600
XXL	016-1115-2600
diameter: 28mm	
S	016-1111-2800
M	016-1112-2800
L	016-1113-2800
XL	016-1114-2800
XXL	016-1115-2800
XXXL	016-1116-2800
XXXXL	016-1117-2800
diameter: 32mm	
S	016-1111-3200
M	016-1112-3200
L	016-1113-3200
XL	016-1114-3200
XXL	016-1115-3200
XXXL	016-1116-3200
XXXXL	016-1117-3200

Ceramic Modular heads – Al2O3 (12/14)

diameter: 22mm	
S	016-1311-2225
M	016-1312-2225
L	016-1313-2225
XL	016-1314-2225
XXL	016-1315-2225
diameter: 26mm	
S	016-1311-2600
M	016-1312-2600
L	016-1313-2600
XL	016-1314-2600
XXL	016-1315-2600

Ceramic Modular Heads

diameter: 28 mm	
S	016-1311-2800
M	016-1312-2800
L	016-1313-2800
XL	016-1314-2800
XXL	016-1315-2800
XXXL	016-1316-2800
XXXXL(	.016-1317-2800
diameter: 32 mm	
S	016-1311-3200
M	016-1312-3200
L	016-1313-3200
XL	016-1314-3200
XXL	016-1315-3200
XXXL	016-1316-3200
XXXXL	016-1317-3200

Metal Modular heads – HNSS DIN EN ISO 5832-9 (12/14)

diameter: 22mm	
S	016-1211-2225
M	016-1212-2225
L	016-1213-2225
XL	016-1214-2225
XXL	016-1215-2225
diameter: 26mm	
S	016-1211-2600
M	016-1212-2600
L	016-1213-2600
XL	016-1214-2600
XXL	016-1215-2600
diameter: 28mm	
S	016-1211-2800
M	016-1212-2800
L	016-1213-2800
XL	016-1214-2800
XXL	016-1215-2800
XXXL	016-1216-2800
XXXXL	016-1217-2800
diameter: 32mm	
S	016-1211-3200
M	016-1212-3200
L	016-1213-3200
XL	016-1214-3200
XXL	016-1215-3200
XXXL	016-1216-3200
XXXXL	016-1217-3200
diameter: 36mm	
S	016-1211-3600
M	016-1212-3600
L	016-1213-3600
XL	016-1214-3600
XXL	016-1215-3600
XXXL	016-1216-3600
XXXXL	016-1217-3600

BA HIP Stem System

"Movement is Life"

BIOTECH

Biotech GmbH
HauptstraBe 113.
56598 Rheinbrohl Germany
Tel : +49 2635 92221-0
Email : office-de@biotech-medical.net
www.biotech-medical.com

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Distributor:

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BA Hip Stem

The concept of this femoral component relies on a close prosthesis-bone contact in both medial and lateral zones. The stem geometry shows a proximal to distal 3 degree taper providing a greater femoral canal fill, improving rotational stability and transferring load in the proximal calcar region to restore near normal stress distribution. Proximal off-loading reduces stress-shielding and thereby minimizes the potential for loosening. Straight stemmed wedge-shaped prosthesis have been widely used throughout more than 20 years and have proven to be very effective in both cemented as well as uncemented cases.

Rotational Stability

A critical parameter for successful THR is rotational stability, to which the design of the BA stem contributes through its geometry in combination with being collar-less. A collar-less prosthesis tends to allow for self seating, thereby improving load transfer to the femur and maintaining stability.

Lasting Fixation – Uncemented / Cemented Stems

Long term survival of uncemented components depends not only on implant material and geometry, but also on the coating used for a biological fixation. For this reason, BioTech ™ has chosen the well-proven process of applying a circumferential plasma-sprayed porous titanium coating. 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. By sealing off the femur for transport of fluids and debris particles, known for its negative effect on implant survival due to osteolysis, long term fixation concern has been addressed. Since only the titanium powder is heated during the spraying process, the high mechanical properties of the forged implant itself are maintained. The excellent biocompatibility of titanium will generate a strong bone response, resulting in a proper implant fixation. The controlled oversize provides excellent initial stability (scratch fit), allowing for rapid full weight bearing post-operatively.

The cemented version of the BA Hip stem, is manufactured from high grade forged CoCrMo for strength and endurance, meeting the philosophy of Müller stems. The special Fixloc™ surface treatment creates a strong bond between cement and implant, improving the shear strength when compared to other smooth finished orthopaedic implants. With a consistent cement mantle on both sides of the tapered stem, this wedge configuration reduces the stem-cement interface stresses, thereby increasing the potential for long-term survival.

Preservation of Bone

Many clinical studies have shown that flat wedge-shaped tapered stems are durable, show satisfactory fixation and effective pain relief. The tapered non-collared stems gradually reduce in stiffness, resulting in a very low incidence of mid-thigh pain.

Single set of Instruments

The stem geometry of both the cemented, uncemented and revision stem is similar, which allows for the use of just one set of instruments. This means, that the decision,- which implant to use, can be made intra-operatively. The rasp can be used as a trial prosthesis allowing for trial reduction for leg-length and off-set control. The Biotech hip system can be implanted by minimal invasive surgical technique.

Size Range

The size range of the BA Hip stems is generally accepted for both the cemented and uncemented version. For cemented application there are sizes available ranging from 6.25-20.00 mm. (1.25 mm increments), offering the surgeon a freedom of choice as to how much of a predetermined cement mantle is preferred. The universal set of instruments also allows for line-to-line rasping in case an uncemented stem is chosen, requiring direct initial stability and an optimal fit. The uncemented version offers sizes ranging from 6.25-20.00mm, with 1.25 mm increments. A special 6.25 mm is added to this range of sizes to also service the very narrow femora such as in hip dysplasia. In case of revision special sizes are available.

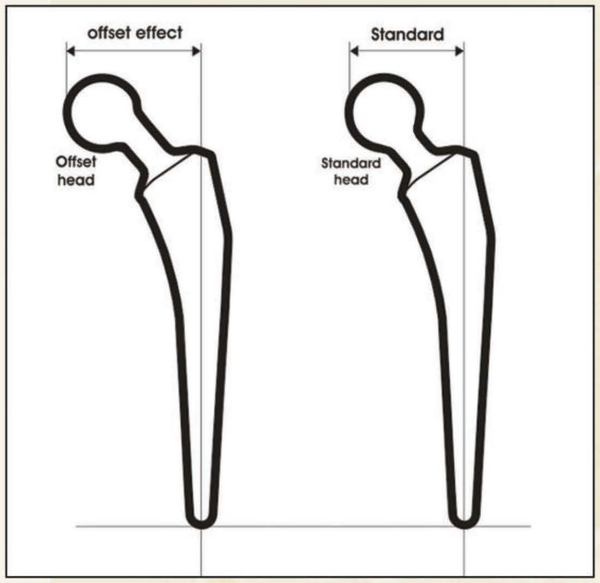
Easy and Reproducible

The simplicity of the instrumentation, the biomechanical principles and the number of proportionally sized stems, all adds up to making the procedure quick, easy and reproducible.

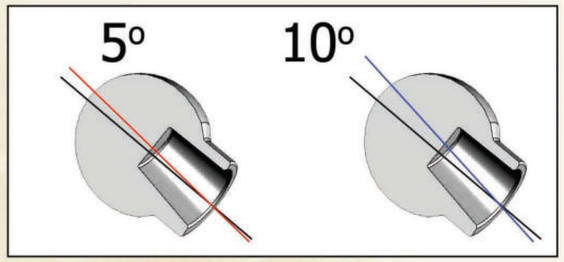
Modularity

The BA femoral prosthesis has a standard 12/14 taper (5º42'30"), to accommodate CoCr and Ceramic (Al2O3) modular heads, which are available in various neck length. The parameters of head geometry meet the standards of ISO 7206-02. Combined with the opportunity to perform trial reductions, choosing the best combination for the patient's needs is ensured.

Offset solution - by 5° and 10° offset heads



Theory of the offset solution



Offset heads - CoCr *
DIN EN ISO 5832-4 (12/14)

diameter: 28mm	
S offset 5°	019-1111-2800
M offset 5°	019-1112-2800
L offset 5°	019-1113-2800
XL offset 5°	019-1114-2800
XXL offset 5°	019-1115-2800
diameter: 28mm	
S offset 10°	018-1111-2800
M offset 10°	018-1112-2800
L offset 10°	018-1113-2800
XL offset 10°	018-1114-2800
XXL offset 10°	018-1115-2800

* optional

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