

ARTICULAR BALL HEADS

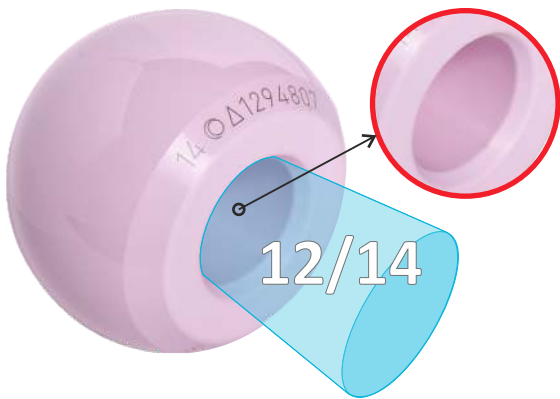
Ceramic / Metal



0426

BIOLOX[®] delta

Ceramic Ball Heads



4 diameters

28-32-36-40mm

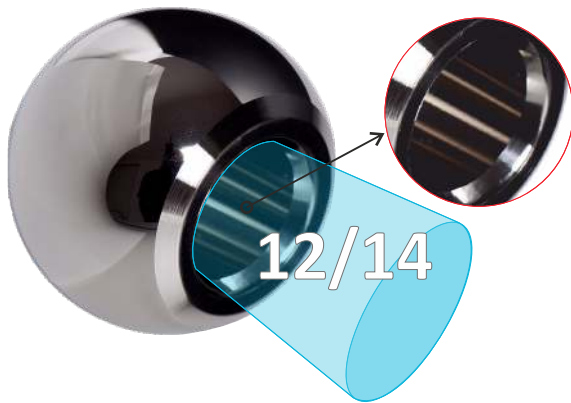
Taper 12/14 (top angle 5°42'30")

BIOLOX[®] Delta* articular heads ensure very low wear levels thanks to high corrosion resistance, material biocompatibility, degree of hardness, dimensional stability of the components and to excellent wetting and low roughness of surfaces.

* BIOLOX is a registered trademark of Ceramtec AG

PM734 / CrCo

Metal Ball Heads



4 diameters

22-28-32-36mm

Taper 12/14 (top angle 5°42'30")

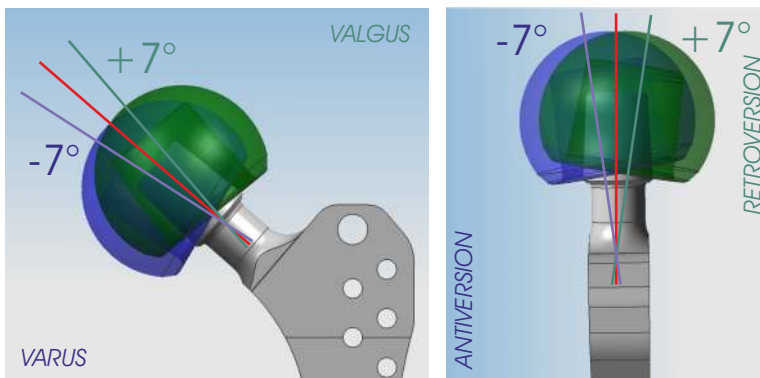
METAL articular heads are made of special Pm734 highly nitrogenized stainless steel forged alloy or CrCoMo forged alloy.

Each single head is severely controlled to ensure perfect and safe coupling onto the stem taper.

Grinding process guarantees perfect sphericity and low roughness values.

EXCENTRIC

Metal Ball Heads



2 diameters

28-32mm

Taper 12/14 (top angle 5°42'30")

EXCENTRIC articular heads are made of special Pm734 highly nitrogenized stainless steel forged alloy.

The taper axis is 7° inclined to allow correction of varus, valgus, antiversión and retroversion by rotating the articular head on the stem taper.

*References with asterisk are available on special request

BIOLOX® Delta Ceramic Ball-Heads



	Ø 28mm		Ø 32mm		Ø 36mm		Ø 40mm	
Size Ø	Neck Length	Reference	Neck Length	Reference	Neck Length	Reference	Neck Length	Reference
Short	- 3,5mm	20587	- 4,0mm	20537	- 3,5mm	20567	- 4,0mm	20547
Medium	0mm	20588	0mm	20538	0mm	20568	0mm	20548
Long	+3,5mm	20589	+4,0mm	20539	+3,5mm	20569	+4,0mm	20549
X-Long			+8,0mm	20540	+7,0mm	20570	+8,0mm	20550

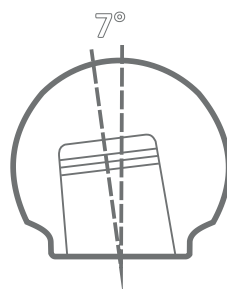
Standard Metal Ball-Heads



	CrCo Ø 22mm		CrCo Ø 28mm		CrCo Ø 32mm		CrCo Ø 36mm	
Size Ø	Neck Length	Reference	Neck Length	Reference	Neck Length	Reference	Neck Length	Reference
Short	- 2,0mm	20321	- 3,5mm	20381	- 4,0mm	20331	- 3,5mm	20391
Medium	0mm	20322	0mm	20382	0mm	20332	0mm	20392
Long	+2,0mm	20323	+3,5mm	20383	+4,0mm	20333	+3,5mm	20393
X-Long			+7,0mm	20384	+8,0mm	20334	+7,0mm	20394
XX-Long			+10,5mm	20385*	+12mm	20335*	+10,5mm	20395*
XXX-Long			+14,0mm	20386*	+16,0mm	20336*		

	PM734 Ø 22mm		PM734 Ø 28mm		PM734 Ø 32mm		PM734 Ø 36mm		PM1 Ø 28mm	
Size Ø	Neck Length	Reference	Neck Length	Reference	Neck Length	Reference	Neck Length	Reference	Neck Length	Reference
Short	- 2,0mm	20221	- 3,5mm	20281	- 4,0mm	20231	- 3,5mm	20291	- 3,5mm	20181
Medium	0mm	20222	0mm	20282	0mm	20232	0mm	20292	0mm	20182
Long	+2,0mm	20223	+3,5mm	20283	+4,0mm	20233	+3,5mm	20293	+3,5mm	20183
X-Long			+7,0mm	20284	+8,0mm	20234	+7,0mm	20294		
XX-Long			+10,5mm	20285*	+12mm	20235*	+10,5mm	20295*		
XXX-Long			+14,0mm	20286*	+16,0mm	20236*	+14,0mm	20296*		

EXCENTRIC Metal Ball-Heads



	PM734 Ø 28mm		PM734 Ø 32mm	
Size Ø	Neck Length	Reference	Neck Length	Reference
Short	- 3,5mm	22281*	- 4,0mm	22531*
Medium	0mm	22282*	0mm	22532*
Long	+3,5mm	22283*	+4,0mm	22533*
X-Long	+7,0mm	22284*	+8,0mm	22534*
XX-Long	+10,5mm	22285*	+12mm	22535*
XXX-Long	+14,0mm	22286*	+16,0mm	22536*

Information

INTENDED PURPOSE: Metal BALL HEADS are intended for use in Total or partial Hip Replacement procedures in combination with a femoral stem providing 12/14 morse-taper, coupled with a bi-articular head or an acetabular cup and related UHMWPE insert.

MATERIALS:

BIOLOX® Delta: Mix of Aluminium, Zirconia and other oxides (Al₂O₃ + ZrO₂).

PM734: highly nitrogenized Stainless Steel forged alloy - ISO5832/9.

PM1: Stainless Steel alloy - ISO5832/1.

CrCo: Cobalt Chromium Molybdenum forged alloy - ISO5832/12.

STERILIZATION:

Method: accelerated electron beam irradiation (β rays - nominal dose 25 kGy), in vacuum.

Validity: 5 years.

CLASSIFICATION:

Class III as reported in Directive 2005/50/CE (and related D.lgs 26 april 2007 n.65) concerning re-classification of Hip, Knee and Shoulder joint prostheses which modifies classification criteria of Annex IX of Directive 93/42/CEE and next integrations and amendments.



MICROLOY®



HaX-Pore®



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BI-POLAR HEADS

Monobloc / Modular



Product Information

permedica Bi-Articular Cups consists in an external shell made of stainless steel alloy and a UHMWPE inner core. They are available both in Monobloc and in Modular version.

The articulation distributed upon a double surface (Articular head and bi-articular Cup) reduces friction against the acetabular cartilage. Positive eccentricity provides for automatic valgus positioning of the cup, reducing the risk of dislocation and improving the stress distribution over the acetabular cartilage.

BI-Articular Head

Monobloc



19 diameters

42 to 60mm

28mm socket

Metal shell and polyethylene core are supplied pre-assembled.

The cup is provided with a special locking ring which allows engaging of the articular head by means of a snap-on system.

Monobloc cups are available in a range of sizes from 42 to 60mm, with millimetric increments, with inner socket matching 28mm articular heads.

BI-Articular Head

Modular



22 diameters

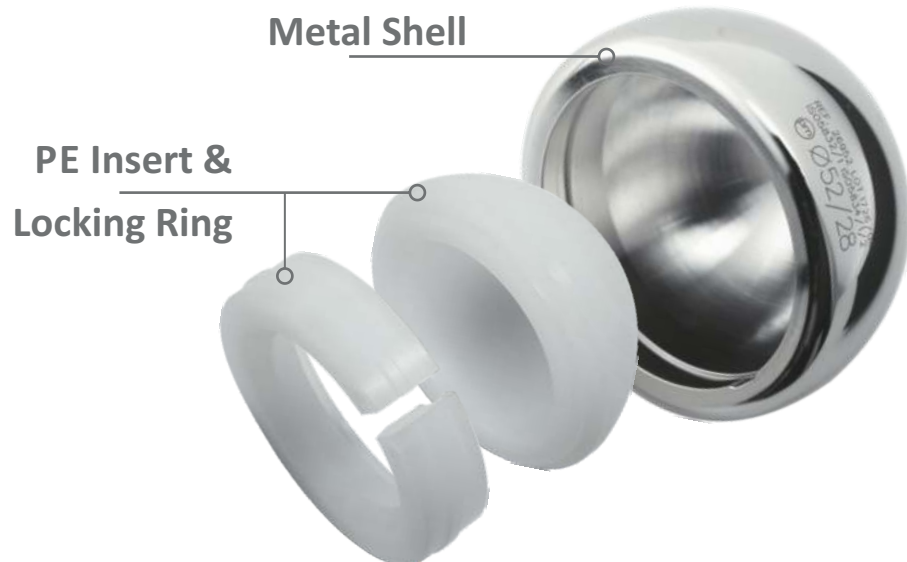
39 to 60mm

28mm socket

Metal shell and polyethylene core are supplied in two separated packaging.

The liner is provided with a special ring which allows retention of the articular head once inserted into the metal shell.

Modular cups are available in a range of sizes from 39 to 60mm, with millimetric increments, with inner socket matching 28 mm articular heads.



Bi-Articular Cup - Monobloc



Interno Ø 28mm	
SIZE	Reference
Ø	
42mm	26742
43mm	26743
44mm	26744
45mm	26745
46mm	26746
47mm	26747
48mm	26748
49mm	26749
50mm	26750
51mm	26751
52mm	26752
53mm	26753
54mm	26754
55mm	26755
56mm	26756
57mm	26757
58mm	26758
59mm	26759
60mm	26760

Bi-Articular Cup - Modular

Colour coding refers to the coupling between Metal Shell and Insert.



SIZE	Metal Shell		PE Insert
	AISI 316	PM734	
Ø	Reference	Reference	Reference
39mm	26939*	25939	
40mm	26940*	25940	26971
41mm	26941*	25941	
42mm	26942*	25942	
43mm	26943*	25943	
44mm	26944*	25944	26972
45mm	26945*	25945	
46mm	26946*	25946	
47mm	26947*	25947	
48mm	26948*	25948	26973
49mm	26949*	25949	
50mm	26950*	25950	
51mm	26951*	25951	
52mm	26952*	25952	
53mm	26953*	25953	
54mm	26954*	25954	
55mm	26955*	25955	
56mm	26956*	25956	26974
57mm	26957*	25957	
58mm	26958*	25958	
59mm	26959*	25959	
60mm	26960*	25960	

Information

INTENDED PURPOSE:

Bi-Articular cup is intended to be used for the prosthetic replacement of the femoral head in hemi-arthroplasty applications, in combination with a femoral stem and an articular head. It is indicated in partial hip replacement procedures where the acetabular cartilage is not involved in arthrosic disease and therefore an hemi-arthroplasty has been chosen (usually in cases of femoral head fractures).

MATERIALS:

METAL SHELL- MONOBLOC: PM734 highly nitrogenized Stainless Steel forged alloy - ISO5832/9.

METAL SHELL- MODULAR: AISI316 stainless steel alloy - ISO5832/1.

PM734 highly nitrogenized Stainless Steel forged alloy - ISO5832/9.

INSERT: Ultra High Molecular Weight Polyethylene, without calcium stearate - ISO5834/1/2.

STERILIZATION:

Method: Ethylene Oxide (ETO) sterilization or accelerated electron beam irradiation (β rays nominal dose 25 kGy)

Validity: 5 years.

CLASSIFICATION:

Class III as reported in Directive 2005/50/CE (and related D.lgs 26 april 2007 n.65) concerning re-classification of Hip, Knee and Shoulder joint prostheses which modifies classification criteria of Annex IX of Directive 93/42/CEE and next integrations and amendments.



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EXACTA

Femoral Stem

CE
0426

Cementless Stems

12 Implant sizes

STANDARD (ccd 135°)

LATERAL (ccd 127°)

Taper

12/14 (top angle 5°42'30") BIOLOX approved

Bio-active surface

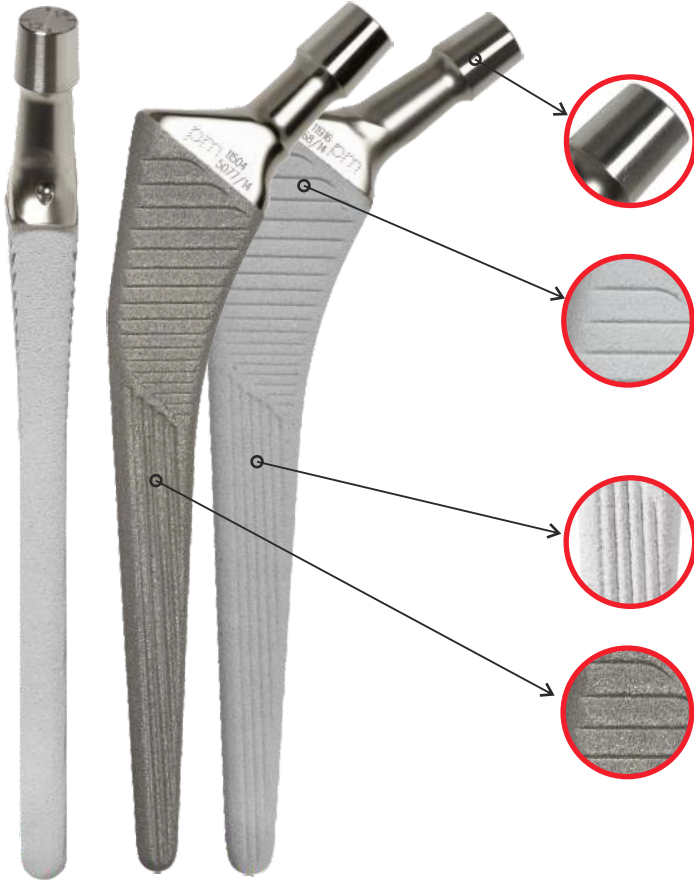
Surface coated with bio-active materials as pure Titanium and Hydroxyapatite to enhance primary stability and promote biological integration.

Stability

Vertical and horizontal grooves provides rotational and torsional stability.

Titanium

Sandblasted surface



Cemented Stems

12 Implant sizes

STANDARD (ccd 135°)

LATERAL (ccd 127°)

Taper

12/14 (top angle 5°42'30") BIOLOX approved

Polished or Matt (sandblasted) surface

Smoothed profile

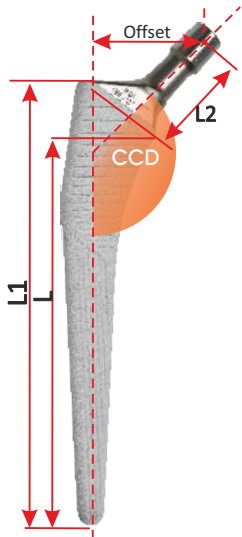
Sinking level marks

Distal centralizer



EXACTA Femoral Stem - Cementless

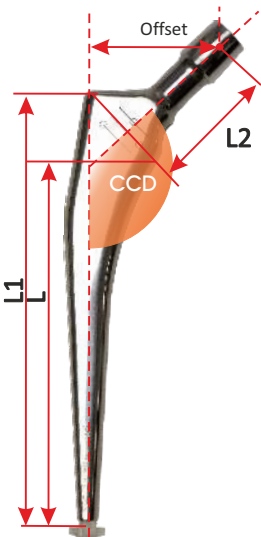
Class III



Size	Standard - CCD 135°		Lateral - CCD 127°					
	L1	L	Offset	L2	Titanium	HaX-Pore	X-Pore	HA
	mm	mm	mm	mm	Reference	Reference	Reference	Reference
1	130,5	110	40,0	41,0	11501	11901	11801*	11601*
2	140,5	120	40,5	41,0	11502	11902	11802*	11602*
3	145,5	125	41,0	42,0	11503	11903	11803*	11603*
4	150,5	130	42,0	43,0	11504	11904	11804*	11604*
5	155,5	135	43,3	44,0	11505	11905	11805*	11605*
6	160,5	140	43,5	44,5	11506	11906	11806*	11606*
7	165,5	145	44,5	45,0	11507	11907	11807*	11607*
8	170,5	150	45,0	45,0	11508	11908	11808*	11608*
9	175,4	154	45,0	45,2	11529	11929	11829*	11609*
10	180,4	158	45,5	45,2	11530	11930	11830*	11610*
11	185,4	162	45,5	45,8	11531	11931	11831*	11611*
12	190,4	166	46,0	46,5	11532	11932	11832*	11612*

EXACTA PLUS Femoral Stem - Cemented

Class III



Size	Standard - CCD 135°		Lateral - CCD 127°							
	L1	L	Offset	L2	Polished	Matt	Offset	L2	Polished	Matt
	mm	mm	mm	mm	Reference	Reference	mm	mm	Reference	Reference
1	117	97	40,0	39,0	11701	11771*	46,0	43,0	11711	11786*
2	120	100	40,5	39,0	11702	11772*	46,5	43,0	11712	11787*
3	130	110	41,0	39,0	11703	11773*	48,0	43,5	11713	11788*
4	135	115	42,0	40,0	11704	11774*	49,0	45,5	11714	11789*
5	140	120	43,3	41,0	11705	11775*	50,0	46,5	11715	11790*
6	145	125	43,5	42,0	11706	11776*	51,0	47,0	11716	11791*
7	150	130	44,5	42,7	11707	11777*	52,0	47,8	11717	11792*
8	155	135	45,0	43,3	11708	11778*	52,5	48,4	11718	11793*
9	160	140	45,0	43,3	11729	11779*	52,5	48,4	11739	11794*
10	165	145	45,5	43,3	11730	11780*	53,0	48,4	11740	11795*
11	170	150	45,5	44,0	11731	11781*	53,0	49,0	11741	11796*
12	175	155	46,0	44,5	11732	11782*	53,5	49,5	11742	11797*

Information

INTENDED PURPOSE: EXACTA stems are intended for use in total or partial Hip Replacement procedures, combined with a femoral ball head (or a bi-articular head) and an acetabular cup. Indicated for primary hip arthroplasties in cases of serious joint degeneration, mainly due to arthrosis and post-traumatic degenerative factors. Device fixation is obtained by means of primary cementless press-fit stabilization or by using bone cement, depending on the version utilized.

MATERIALS:

Cementless stems: Titanium Aluminium Niobium forged alloy (Ti6Al7Nb) ISO5832/11
Cemented stem: PM734 highly nitrogenized Stainless Steel forged alloy ISO5832/9

SURFACE FINISHING:

EXACTA Titanium: microstructured sandblasted surface roughness 4-6µm
EXACTA HaX-Pore: double coating 300µm pure Titanium+50µm Hydroxyapatite Ca₁₀(OH)₂(PO₄)₆ plasma sprayed
EXACTA X-Pore: coating 300µm pure Titanium plasma sprayed
EXACTA HA: coating 80µm Hydroxyapatite Ca₁₀(OH)₂(PO₄)₆ plasma sprayed
EXACTA Plus: mirror polished or matt (sandblasted, on request) finishing surface

STERILIZATION:

Method: accelerated electron beam irradiation (b rays - nominal dose 25 kGy), in vacuum.
Validity: 5 years.

CLASSIFICATION:

Class III as reported in Directive 2005/50/CE (and related D.lgs 26 april 2007 n.65) concerning re-classification of Hip, Knee and Shoulder joint prostheses which modifies classification criteria of Annex IX of Directive 93/42/CEE and next integrations and amendments.



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JUMP[®] System 3

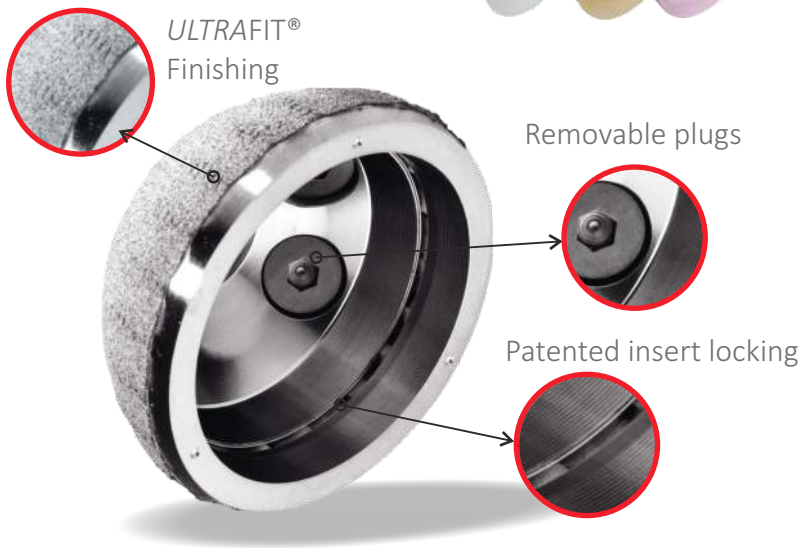
Press-Fit Acetabular Cup



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JUMP[®] System

Accepts all types of inserts



15 Implant sizes

Hemispherical geometry with polar deflection. ULTRAFIT[®] finishing along the equatorial rim to maximize press-fit insertion.

Surface coated with bio-active materials as pure Titanium and Hydroxyapatite to enhance primary stability and promote biological integration.

BIOLOX[®] ceramic inserts locks into the cup thanks to the taper connection. UHMWPE and VITAL-XE inserts, more than the taper connection, locks into the cup thanks to a patented locking system which ensures retention and rotational stability.

Screw holes are sealed by apposite plugs that can be removed in case additional screw fixation is required.



Dual Mobility option

JUMP[®] SYSTEM Dual Mobility insert represents an effective solution for those cases where a high possibility of dislocation can be expected (patients with poor muscle tone or neuromotor control).

Metal insert fitting into the cup and accepts ACORN Dual Mobility UHMWPE or VITAL-E articular inserts.

JUMP[®] System PE

Accepts only UHMWPE and VITAL-XE inserts



4 Implant sizes

The JUMP System PE option has been realized to allow use of large heads even in small size cups.

Cup size	Insert Socket
Ø 48-50mm	Ø 36mm
Ø 52-54mm	Ø 36-40mm

It is available in 4 sizes (48-50-52-54) with metal-back of reduced thickness and only works with Polyethylene inserts (UHMWPE and VITAL-XE).

Screw holes are open and cannot be sealed.

JUMP® System Cementless Press-Fit Cups

Class III

Accepting all types of inserts



	Standard	X-Pore	HA	HaX-Pore
Size	Reference	Reference	Reference	Reference
42	35142*	35242*	35442*	35342*
44	35145	35244	35444	35345
46	35147	35246	35446	35347
48	35149	35248	35448	35349
50	35150	35250	35450	35350
52	35153	35252	35452	35353
54	35155	35254	35454	35355
56	35156	35256	35456	35356
58	35158	35258	35458	35358
60	35160	35260	35460	35360
62	35162	35262	35462	35362
64	35164	35264	35464	35364
66	35166*	35266*	35466*	35366*
68	35168*	35268*	35468*	35368*
70	35170*	35270*	35470*	35370*

JUMP® System PE Cementless Press-Fit Cups

Class III

Accepting PE and VITAL-XE inserts only



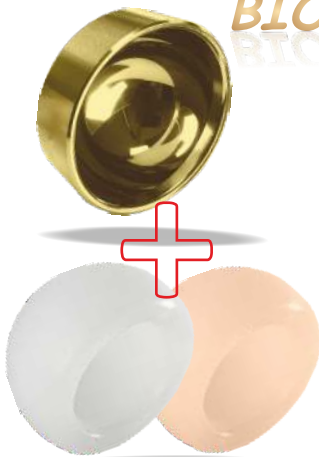
WITH HOLES

	Standard	X-Pore	HA	HaX-Pore
Size	Reference	Reference	Reference	Reference
48	35791*	35991*	35491*	35881
50	35792*	35992*	35492*	35883
52	35793*	35993*	35493*	35882*
54	35794*	35994*	35494*	35884*

JUMP SYSTEM Dual Mobility Option

Class III

BIOLOY®



Cup size	Color code	BIOLOY® PM734 Reference	BIOLOY® CrCo Reference
44-46	BLACK	36215	36205
48-50	YELLOW	36211	36201
52-54	GREY	36212	36202
56-60	BLUE	36213	36203
62+	RED	36214	36204

			UHMWPE reference	VITAL-E® reference
28 mm	∅ inner	∅ outer	reference	reference
	22mm	36mm	BLACK 38844	38844E
		38mm	YELLOW 38846	38846E
		40mm	GREY 38848	38848E
		44mm	BLUE 38852	38852E
	46mm	RED 38854	38854E	

Accessories

Class IIb

Polar Plug



Reference
35103

Fixation Screws ∅ 6,5 mm

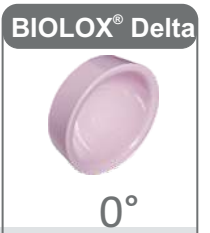


Length	Reference
20mm	36720
25mm	36725
30mm	36730
35mm	36735
40mm	36740
45mm	36745
50mm	36750
60mm	36760

JUMP SYSTEM Articular Inserts

Class III

ATTENTION:
The COLOUR CODING refers
to CUP / INSERT coupling.



Neutral
0°



Hooded
10°



Hooded
20°

Ø Socket	UHMWPE			VITAL-XE®			BIOLOX® Delta
	Reference	Reference	Reference	Reference	Reference	Reference	Reference
22mm	36303*		36304*				
28mm	36301	36363	36302	36301XE	36363XE	36302XE	36007*
	36305	36364	36306	36305XE	36364XE	36306XE	
	36311	36365	36312	36311XE	36365XE	36312XE	
	36321	36374	36323	36321XE	36374XE	36323XE	
	36307	36366	36308	36307XE	36366XE	36308XE	
32mm	36309	36367	36310	36309XE	36367XE	36310XE	36011 36016 36015 36017 36018
	36313	36368	36314	36313XE	36368XE	36314XE	
	36319	36369	36320	36319XE	36369XE	36320XE	
	36340	36376	36342	36340XE	36376XE	36342XE	
	36315	36370	36316	36315XE	36370XE	36316XE	
36mm	36317	36371	36318	36317XE	36371XE	36318XE	36022 36025 36026
	36343	36378	36345	36380XE	36382XE	36381XE	
	36325	36329	36326	36343XE	36378XE	36345XE	
40mm	36327	36330	36328	36325XE	36329XE	36326XE	36041 36042
	36346		36347	36327XE	36330XE	36328XE	
	36348		36349	36346XE		36347XE	
				36348XE		36349XE	

Information

INTENDED PURPOSE:

JUMP® System is an acetabular component for cementless applications to be used in Total Hip Replacement procedures in combination with an articular liner, a femoral ball-head and a femoral stem. Indicated in primary and revision hip arthroplasties, all cases of coxarthrosis where the bony tissue is suitable enough to guarantee a correct and stable primary mechanical press-fit fixation.

Anchorage of the device to the bone is achieved by press-fit insertion. Whenever necessary, fixation can be improved by using cancellous bone screws inserted into the dedicated holes.

STERILIZATION:

Method: Ethylene Oxyde (ETO) or accelerated electron beam irradiation (β rays - nominal dose 25 kGy), in vacuum.

Validity: 5 years.

CLASSIFICATION:

Class III or IIb as reported in Directive 2005/50/CE (and related D.lgs 26 april 2007 n.65) concerning re-classification of Hip, Knee and Shoulder joint prostheses which modifies classification criteria of Annex IX of Directive 93/42/CEE and next integrations and amendements.

Materials

CUPS, SCREWS, PLUGS:

Titanium Aluminium Vanadium Ti₆Al₄V Alloy - ISO5832/3.

INSERTS:

UHMWPE: Ultra High Molecular Weight Polyethylene without Calcium Stearate - ISO5834/1/2.

VITAL-XE: cross-linked UHMWPE added with Vitamin E - ISO5834/1/2.

CERAMIC: **BIOLOX® Delta** mix of Alumina and Zirconia Oxide (Al₂O₃ + ZrO₂) - ISO6474.

Metal Dual Mobility:

- PM734 highly nitrogenized Stainless Steel forged alloy ISO5832/9

- CrCoMo forged alloy ISO5832/12

SURFACE FINISHING:

HaX-Pore: 500µm pure Titanium + 40µm Hydroxyapatite Ca₁₀(OH)₂(PO₄)₆ applied with plasma spray technique.

X-Pore: 500µm pure Titanium applied with plasma spray technique.

HA: 80µm Hydroxyapatite Ca₁₀(OH)₂(PO₄)₆ applied with plasma spray technique.

Standard: microstructured sandblasted surface (ra ± 4-6µm).

BIOLOY®: TiNbN coating (Dual Mobility inserts).



ACORN

Dual Mobility
Acetabular Cup



ACORN

Dual Mobility Cup



The concept of dual mobility involves the use of a metal shell within which articulates a mobile insert, of a diameter perfectly compatible, where the femoral ball head articulates as well.

First introduced in the '70s by Prof. Bousquet, this type of implant has demonstrated in clinical use high joint stability even in the most critical cases.

14 Implant sizes

Available in cementless and cemented version, also with BIOLOY® anti-allergic coating.



BIOLOY®
TiNbN coating

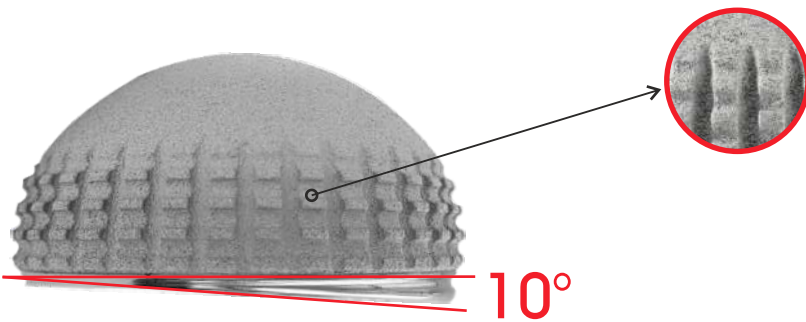
HaX-Pore
HaX-hole



The cup has an hemispherical geometry with polar deflection and circumferential radial grooves to guarantee optimal press-fit in the equatorial region.

HaX-Pore pure Titanium and Hydroxyapatite coated surface to enhance primary stability and promote biological integration.

The presence of a 10° protruded rim allows for a better coverage in the cranial region.



10°

The articular inserts available for Ø 22mm and 28mm ball heads are designed to perfectly match the inner socket of each single size of the cup, thus ensuring maximum joint stability.

They are manufactured with the latest generation Ultra High Molecular Weight PE (GUR1020) without Calcium Stearate, also in VITAL-E® and VITAL-XE® option enriched with Vitamin E antioxidant.



ACORN Dual Mobility Cups



size Ø	PRIMARY		CEMENTED	
	HaX-Pore reference	HaX-Pore BIOLOY® reference	Cemented reference	Cemented BIOLOY® reference
38mm	38338	38438	38638	39238*
40mm	38340	38440	38640	39240*
42mm	38342	38442	38642	39242*
44mm	38344	38444	38644	39244*
46mm	38346	38446	38646	39246*
48mm	38348	38448	38648	39248*
50mm	38350	38450	38650	39250*
52mm	38352	38452	38652	39252*
54mm	38354	38454	38654	39254*
56mm	38356	38456	38656	39256*
58mm	38358	38458	38658	39258*
60mm	38360	38460	38660	39260*
62mm	38362	38462	38662	39262*
64mm	38364	38464	38664	39264*

ACORN Dual Mobility Inserts



Ø inner	size Ø	UHMWPE	VITAL-E®	VITAL-XE®
		reference	reference	reference
22 mm	38mm	38838	38838E	38838XE*
	40mm	38840	38840E	38840XE*
	42mm	38842	38842E	38842XE*
	44mm	38844	38844E	38844XE*
	46mm	38946*	38946E*	38946XE*
	48mm	38948*	38948E*	38948XE*
	50mm	38950*	38950E*	38950XE*
	52mm	38952*	38952E*	38952XE*
	54mm	38954*	38954E*	38954XE*
	56mm	38956*	38956E*	38956XE*
	58mm	38958*	38958E*	38958XE*
	60mm	38960*	38960E*	38960XE*
	62mm	38962*	38962E*	38962XE*
	64mm	38964*	38964E*	38964XE*

Ø inner	size Ø	UHMWPE	VITAL-E®	VITAL-XE®
		reference	reference	reference
28 mm	46mm	38846	38846E	38846XE*
	48mm	38848	38848E	38848XE*
	50mm	38850	38850E	38850XE*
	52mm	38852	38852E	38852XE*
	54mm	38854	38854E	38854XE*
	56mm	38856	38856E	38856XE*
	58mm	38858	38858E	38858XE*
	60mm	38860	38860E	38860XE*
	62mm	38862	38862E	38862XE*
	64mm	38864	38864E	38864XE*

Information

INTENDED PURPOSE:

ACORN dual mobility cup is an acetabular component utilized in Total Hip Replacement procedures in combination with its dedicate articular liner, a femoral ball-head and a femoral stem. It is indicated in cases of coxarthrosis, both for primary and/or revisions. Due to its characteristics, the dual mobility cup is particularly indicated in those cases with low muscle tone where, by using traditional cups, dislocation phenomena could occur.

Anchoring of the device is achieved by primary press-fit insertion or by means of bone cement, depending on the model used.

MATERIALS:

CUP: highly nitrogenized stainless steel forged alloy - ISO5832/9.

INSERT: Ultra High Molecular Weight Polyethylene without Calcium Stearate - ISO5834/1/2. Also available in **VITAL-E®** version, UHMWPE added with Vitamin-E (Alpha Tocopherol) anti-oxidant and **VITAL-XE®** (cross-linked)

COATINGS:

HaX-Pore: 500µm pure Titanium + 40µm Hydroxyapatite Ca₁₀(OH)₂(PO₄)₆

BIOLOY®: Titanium Niobium Nitride (TiNbN) PVD

STERILIZATION:

Method: Ethylene Oxide (ETO) or accelerated electron beam irradiation (b rays - nominal dose 25 kGy), in vacuum.

Validity: 5 years.

CLASSIFICATION:

Class III as reported in Directive 2005/50/CE (and related D.lgs 26 april 2007 n.65) concerning re-classification of Hip, Knee and Shoulder joint prostheses which modifies classification criteria of Annex IX of Directive 93/42/CEE and next integrations and amendments.



MICROLOY®



HaX-Pore®



TRASER®



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**CHALLENGING
EXCELLENCE
IN TECHNOLOGY**



BIOLOY®



VITAL-XE®