

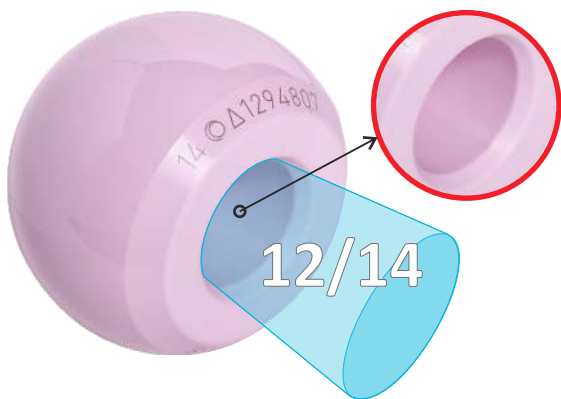
# ARTICULAR BALL HEADS

Ceramic / Metal



## BIOLOX<sup>®</sup> delta

Ceramic Ball Heads



4 diameters

28-32-36-40mm

Taper 12/14 (top angle 5°42'30")

**BIOLOX<sup>®</sup> 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")

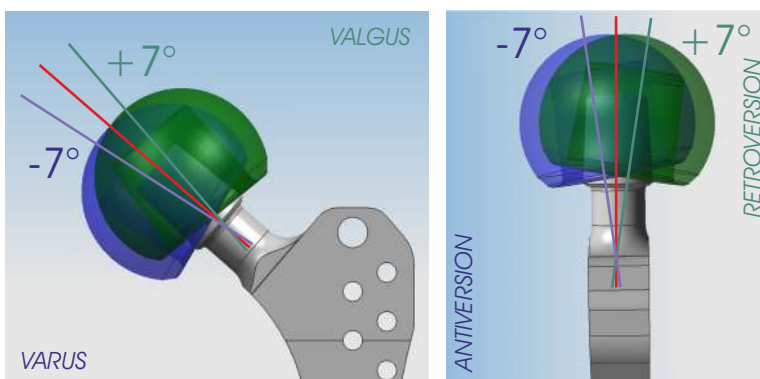
**METAL** articular heads are made of special Pm734 highly nitrogenized stainless steel forged alloy or CrCoMo forged alloy.

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

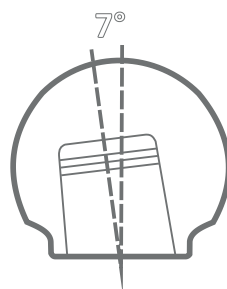
### Standard Metal Ball-Heads



	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 (Al<sub>2</sub>O<sub>3</sub> + ZrO<sub>2</sub>).

**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.



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