

# Next Generation of Ceramics

**BIOLOX<sup>®</sup>delta**

Femoral Heads



**Exactech<sup>®</sup>**

# BIOLOX<sup>®</sup>delta

The BIOLOX<sup>®</sup>delta heads provide a femoral head option with diamond like hardness that provides a high resistance to third-body wear in vivo.<sup>1</sup> These femoral heads are comprised of an aluminum oxide matrix consisting of approximately 80 percent alumina, 17 percent zirconia and three percent strontium oxide.



## MATERIAL STRENGTH

A reinforcement mechanism is achieved by adding strontium oxide, which forms platelet-like crystals. These platelets dissipate energy by deflecting cracks, thereby increasing the strength and toughness of the Biolox Delta material.<sup>1</sup>

## INCREASED HEAD LENGTHS

The addition of zirconia into the material increases the overall material strength and prevents the initiation and propagation of cracks.<sup>1</sup> By doing this, greater head lengths are able to be achieved over the traditional Alumina heads.

## ADDITIONAL SIZES

Available in four head lengths without the use of a skirt.

## BIOLOX<sup>®</sup>OPTION

An additional femoral head option that allows one to revise any head to a ceramic head, with the use of a metal interface sleeve.

The BIOLOX<sup>®</sup>OPTION femoral head system can be used on a new stem taper (12/14 only) for primary and revision cases or on an implanted stem with a slightly damaged taper in revision.<sup>2</sup>

Name	Catalog Number	Outer Diameter (mm)	Size (mm)
Exactech Delta Head	170-28-93	28	-3.5
	170-28-00		+0
	170-28-03		+3.5
	170-32-93	32	-3.5
	170-32-00		+0
	170-32-03		+3.5
	170-32-07		+7
	170-36-93	36	-3.5
	170-36-00		+0
	170-36-03		+3.5
	170-36-07		+7
	170-40-93	40	-3.5
	170-40-00		+0
	170-40-03		+3.5
170-40-07	+7		
Exactech Delta Options Head	170-28-50	28	
	170-32-50	32	
	170-36-50	36	
	170-40-50	40	
Adapter	170-50-93		-3.5
	170-50-00		+0
	170-50-03		+3.5
	170-50-07		+7

	Size (mm)	-3.5	+0	+3.5	+7	+10
Cobalt Chrome	22*	n/a	✓	✓	✓**	✓**
	28	✓	✓	✓	✓	✓**
	32	✓	✓	✓	✓	✓**
	36	✓	✓	✓	✓	✓
	40*	✓	✓	✓	✓	✓
Delta	28	✓	✓	✓	✓ <sup>†</sup>	n/a
	32	✓	✓	✓	✓	n/a
	36	✓	✓	✓	✓	n/a
	40*	✓	✓	✓	✓	n/a
Alumina	28*	✓	✓	✓	n/a	n/a
	32*	✓	✓	✓	n/a	n/a
	36*	✓	✓	✓	n/a	n/a

\*Special order only.

\*\*Items are skirted.

<sup>†</sup>Uses the BIOLOX<sup>®</sup>OPTION for this head length.

### References:

- <https://www.ceramtec.com/biolox/>
- BIOLOX<sup>®</sup>Delta Alumina/Zirconia Ceramic Femoral Head Components and BIOLOX<sup>®</sup>Option Alumina/Zirconia Ceramic Femoral Head System Instructions for Use. 700-096-117.