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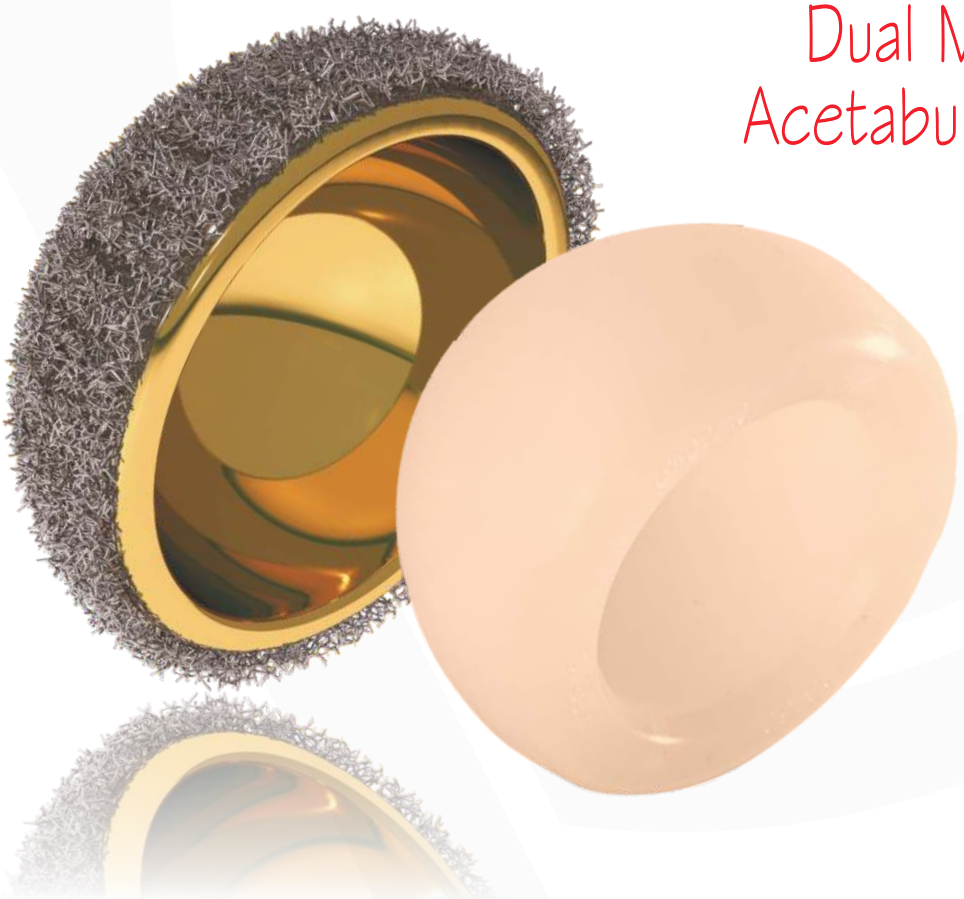
ORTHOPAEDICS

ACORN TRASER®

Dual Mobility Acetabular Cup



PRODUCT INFORMATION

CE
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ACORN TRASER®
Dual Mobility Cup

The ACORN TRASER® Cup is one of a kind.

Made entirely of titanium alloy by 3D printing, it combines two innovative technologies developed by Permedica: ***TRASER®*** and ***BIOLOY®***.

14 Implant sizes

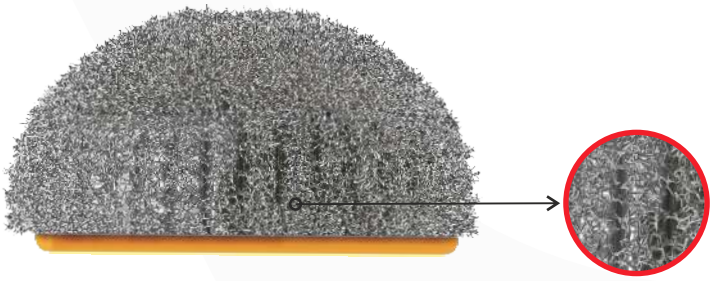
The ***TRASER®*** surface with randomized trabecular structure in contact with the bone ensures excellent primary press-fit anchoring and promotes osseointegration [1].

The ***BIOLOY®*** TiNbN coating on the inner surface of the cup guarantees an optimal tribology for coupling with the joint insert.

The titanium alloy composition makes the ACORN TRASER® cup a hypoallergenic solution

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. This system allows the use of large diameter heads, thereby permitting a wide Range Of Movement and increasing joint stability.

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.



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

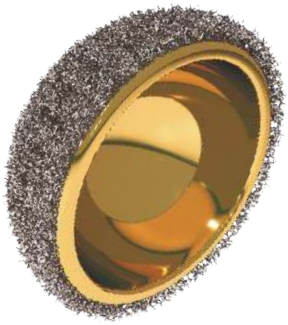
The articular inserts available for Ø 22mm and 28mm ball heads are designed to perfectly match the inner socket of each single size of the cup, thus ensuring maximum joint stability.

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.

[1] Ragone V, Canciani E, Arosio M, Olimpo M, Piras LA, von Degerfeld MM, Augusti D, D'Ambrosi R, Dellavia C. In vivo osseointegration of a randomized trabecular titanium structure obtained by an additive manufacturing technique;
Journal of Materials Science: Materials in Medicine. DOI 10.1007/s10856-019-6357-0

ACORN TRASER® Dual Mobility Cup

Class III



size Ø	reference
38mm	39838
40mm	39840
42mm	39842
44mm	39844
46mm	39846
48mm	39848
50mm	39850
52mm	39852
54mm	39854
56mm	39856
58mm	39858
60mm	39860
62mm	39862
64mm	39864

ACORN Dual Mobility Inserts

Class III

Ø socket 22 mm

size Ø	UHMWPE reference	VITAL-E® reference	VITAL-XE® reference
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 socket 28 mm

size Ø	UHMWPE reference	VITAL-E® reference	VITAL-XE® reference
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 TRASER® dual mobility cup is an acetabular component utilized in Total Hip Replacement procedures in combination with it's 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 it's characteristics, the dual mobility cup is pasrticularly 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.

***MATERIALS*:**

CUP: Titanium Aluminium Vanadium Ti6Al4V Alloy - ISO5832/3 - ASTM F 2924

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-oxydant and ***VITAL-XE®*** (cross-linked)

SURFACE FINISHING:

TRASER®: Randomized trabecular metal structure with average pores SIZE of 650µm.

BIOLOY®: TiNbN coating

STERILIZATION:

Method: Ethylene Oxyde (*EtO*) or irradiation (*Beta/Gamma rays - minimum dose 25 kGy*) or Vaporized Hydrogen Peroxide (*VH2O2*).

Validity: 5 years (*Beta sterilized products*) - 10 years (*EtO/Gamma/VH2O2 sterilized products*).

***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 amendements.Titanium Aluminium Vanadium Ti6Al4V Alloy - ISO5832/3

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