

HACTIV'



HACTIV' HIP SYSTEM

HACTIV' stems are HA fully coated tulip flared proximally trapezoidal shaped stems with a rounded distal quadrangular section.

MATERIAL

Manufactured under ISO 9001 and EN 46001 standards. **Wrought TA6V ELI medical grade titanium alloy.**

Tests have evidenced a significant gain in the fatigue limit of HACTIV' stems as resistance has been shown to resist to over **10 million de cycles** with a load 6 times that of a body weight.

SURFACE PREPARATION

Prior to HA coating stems are sandblasted with alumina granules: [Ra 5. Porosity 30µm]. This technique ensures greater bonding strength for the HA coating and clinically will enhance bone on-growth.

BLUE PROXIMAL NECK

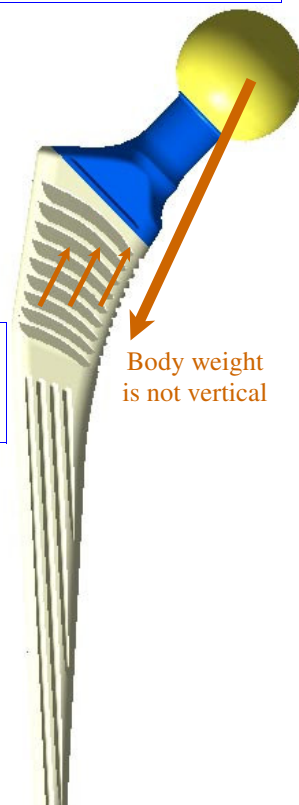
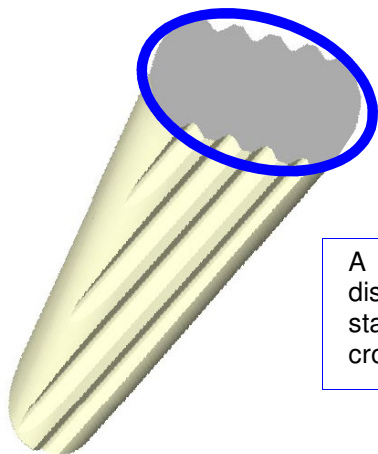
A very stable anodised surface that hardens the titanium.

HA COATING

Stems are coated with highly calibrated HA particles.
Technique: Atmospheric Plasma Spray [APS]
Coating thickness: **155µm**

CROSS SECTIONS

A quadrangular cross section ensures excellent distal rotational stability while perfect proximal stability is achieved through a proximal trapezoidal cross section.



CE
0499

Manufactured by: *evolutis* 42720 BRIENNON (France)

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CONE

A classical 12/14 Morse micro-grooved taper that fits 22.225 mm, 28 mm and 32 mm diameter heads.

The cone features micro-grooves for optimal contact between the titanium cone and the femoral head. This ensures essential micro-deformation of the titanium alloy allowing for the cone to fit perfectly.

CRASH TEST RESULTS : Average: 63 kN (e.g. 6300 Kg).
Standard requirement: 46kN.
Standard deviation : 4 kN with 7 readings.

TRACEABILITY

Engraved on the top end of the cone protected by the femoral head. This will facilitate reading should the stem have to be explanted.

Marks to be found :

- manufacturer's logo
- characteristics of the cone: angle 5°42 and narrowest diameter 12.5mm
- material: T (titanium).
- lot n°: year, month, and manufacturer's monthly factory work order number.

The stem size is engraved on the side of the proximal part of the implant.



HEADS

HACTIV' stem 12/14 morse taper accepts 22.225 mm, 28 mm and 32 mm diameter heads.

Ceramic alumina heads: BIOLOX® Forte ceramic ISO 6474

Cobalt chrome highly polished heads : ISO 5832-12

Nitrogen enriched stainless steel heads: resistance to corrosion and superior hardness: ISO 5832-9

INSTRUMENT SET

A simplified, rational and easy to clean instrument set common to both the HACTIV' and the CEMTIV' stems.



Broach handle



PACKAGING

Stems are vacuum packed in PE expanded foam eliminating stem abrasion and/or HA contamination with PETG particles.

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