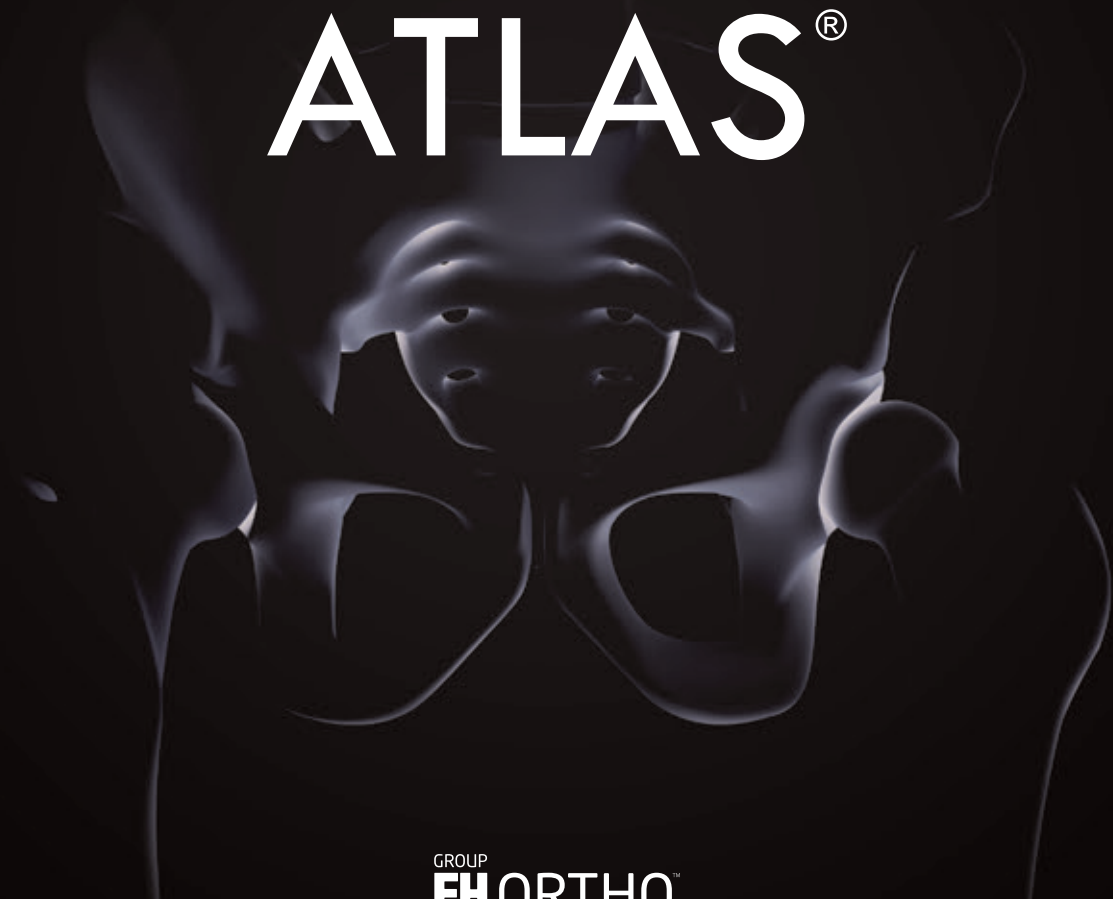




DOCUMENTATION

METAL BACK
CEMENTLESS ELASTIC ACETABULAR CUP

ATLAS[®]





ATLAS® IIIIP cup



ATLAS®

For more than 20 years, FH ORTHO has specialized in the manufacturing of cementless total hip prosthesis.

The ATLAS® cup was developed using this expertise and the latest technological advances in terms of bearing, metallurgy and instrumentation.

The concept

The ATLAS® concept was born in 1985 as a result of Dr Alain Dambreville's research. This cementless elastic cup immediately appealed to a large number of surgeons, who continue to implant several thousand every year, across the world. This success is partly due to ease of implant and to its results but also to its essential core principles:

- 1- Primary stability due to its press-fit;
- 2- Stability of the insert in the metal-back;
- 3- Secondary fixation due to surface coatings;
- 4- Thickness of the polyethylene.

Range and materials

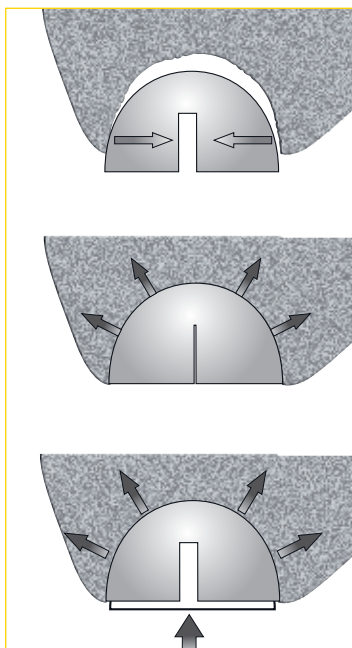
The ATLAS® metal-back is made out of titanium alloy, TA6V4 ELI with a constant 2.5 mm thickness. It includes:

- A slot providing the cup with the elasticity to ensure a perfect, instant press-fit and risk-free impacting for the supporting bone.
- Sand-blasting on the inside and a cylindrical area on par with the equatorial region ensuring the insert's stability.
- Hydroxyapatite coating for secondary fixation.

The ATLAS® IIIIP has 4 pegs that penetrate into the receiving bone to avoid any rotation of the cup and also screw holes if screw fixation is required.

The ATLAS® metal-back can be combined with a wide range of highly cross-linked polyethylene (TRIANON) PE inserts, available in various internal diameters (28; 32 and 36 mm) and shapes:

- flat-edge,
- posterior wall.

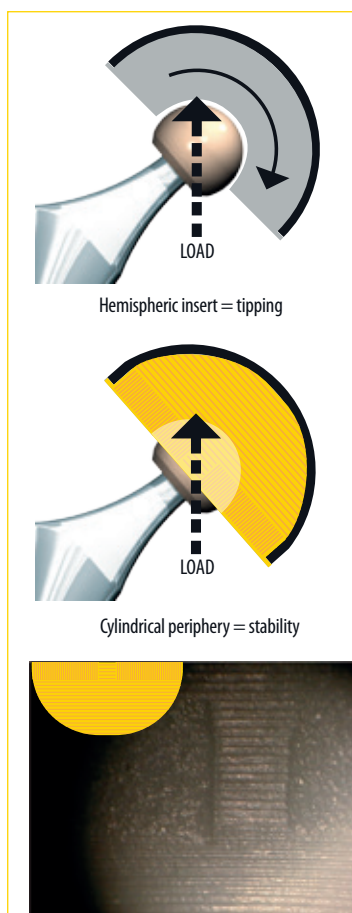


Press-fit

The ATLAS® cup has a slot, which closes during impaction to facilitate penetration into the acetabulum. When the insert is impacted, this slot returns to its initial position, thus applying a major force for coaptation of the bone. Only an elastic cup allows this kind of press-fit. The elasticity of the metal-back improves transmission constraint.

Stability of the insert

The stability of the insert is, obviously, essential. To avoid the insert tilting, it has been designed with an equatorial cylindrical area and a rough internal surface on the metal-back due to sand-blasting. These technical elements have proven to be effective over the past 25 years and more than 150 000 implants. This fixation ensures there is no micro-movement of the insert within the metal-back, proven by observing the machining lines, which are still visible on inserts removed after over 10 years.



Hemispheric insert = tipping

Cylindrical periphery = stability

No micromovement at 10 years

Coating

Secondary stability through surface coating has greatly improved as a result of 25 years of progress. The bioactive hydroxyapatite 120 µm coating has already proven its effectiveness. Bone adherence to the surface of the prosthesis is rapid and long lasting, even after absorption of the hydroxyapatite (HAP) in the long term.

Intimate osteointegration with no risk of fibrous tissue interposition as a result of using HAP, limits the risk of periprosthetic osteolysis by countering the migration of wear particles.

PE thickness

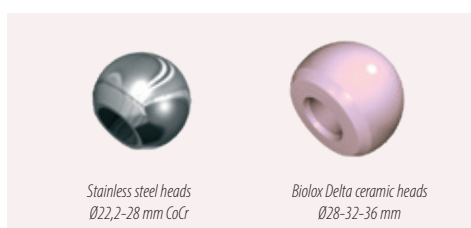
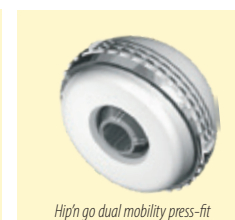
The 2.5 mm thickness of the ATLAS® cup allows polyethylene layers in highly cross-linked polyethylene to have a minimum thickness, and therefore provides excellent creeping resistance.

SALES REFERENCES

SIZES	ATLAS® IIIP (with screw hole)	XPE TRIANON STD D28 LINER	XPE TRIANON STD D32 LINER	XPE TRIANON D36 LINER
46	241 363	252 472		
48	241 364	252 473		
50	241 365	252 474	256 197	
52	241 366	252 475	256 198	
54	241 367	252 476	256 199	263 673
56	241 368	252 477	256 200	263 674
58	241 369	252 478	256 201	263 675
60	241 370	252 479	256 202	263 676
62	241 371	252 480	256 203	263 677
64	241 372	252 481	256 204	263 678

STERILE FIXATION SCREWS	
245 215	Ø 6,5mm - L.15mm
245 216	Ø 6,5mm - L.20mm
245 217	Ø 6,5mm - L.25mm
245 218	Ø 6,5mm - L.30mm
245 219	Ø 6,5mm - L.35mm
245 220	Ø 6,5mm - L.40mm
245 221	Ø 6,5mm - L.45mm
245 222	Ø 6,5mm - L.50mm

OTHER IMPLANTS OF THE RANGE



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