

aneXys

Modular, uncemented cup system

Stability – Durability – Safety – Modularity
aneXys System

Today, implantation of artificial hip joints is one of the most successful standard procedures in surgery. The aim of joint replacement is to eliminate pain and to restore the function and reconstruct the physiological anatomy of the hip joint.

Due to the demographic development and the increasing importance of sports even in advanced age, in recent years the requirements on artificial hip joints have increased.



The aneXys System addresses these requirements, and in the form of the vitamin-E-stabilised, highly crosslinked polyethylene vitamys® in combination with Mathys ceramic heads it provides a low-risk hard-soft pairing, which aims to optimise the long-term stability of the implant system.

Implant Design

By its design, the aneXys Shell generates initial mechanical press-fit and promotes, by means of its surface, biological long-term stability.

The system at a glance:

- Hemispheric external shape with equatorial excess and flattened pole
- Serrated macrostructure for high tilting and rotational stability
- Microporous titanium coating to promote osseointegration
- Optimised for use in hard-soft bearings
- Reliable inlay anchoring via taper connection
- Residual elasticity of the external shell in 11 thin-walled shell sizes
- Possibility of additional screw fixation in 16 shell sizes



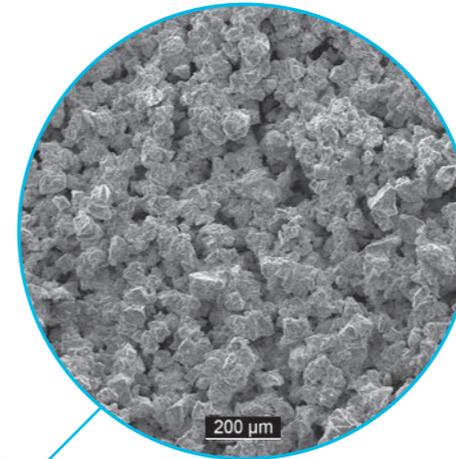
Combination of primary and secondary stability

Stability



Press-fit anchoring

- Equatorial excess for primarily stable implant fixation
- Polar flattening to direct load transmission to the equator of the acetabulum



Microstructure

- Microporous titanium coating
- Porosity up to 50 %
- Many years of clinical use
- Rough surface to support primary stability and stimulate osseointegration

Macrostructure

- Serrated structure for primary rotational and tilting stability

The E-factor makes the difference

Long service life

vitamys – the highly crosslinked polyethylene stabilised with vitamin E is notably resistant to oxidation. This prevents premature ageing of the material.

The resulting low wear rates contribute to long-term implant anchoring, without compromises in terms of fault tolerance.

Compared to the first generation of highly crosslinked polyethylenes, vitamys largely maintains the good properties of conventional UHMWPE.

In comparison with conventional UHMWPE, vitamys allows use of larger head diameters for increased joint stability and improved function.



vitamin E stabilised

irradiated

tensile strength

aging resistance

mechanical stability

yield strength

safety

	vitamys	HXLPE	UHMWPE
Oxidation/ Ageing			
Wear			
Mechanical properties			
Range of motion			

Safety

Rough surface

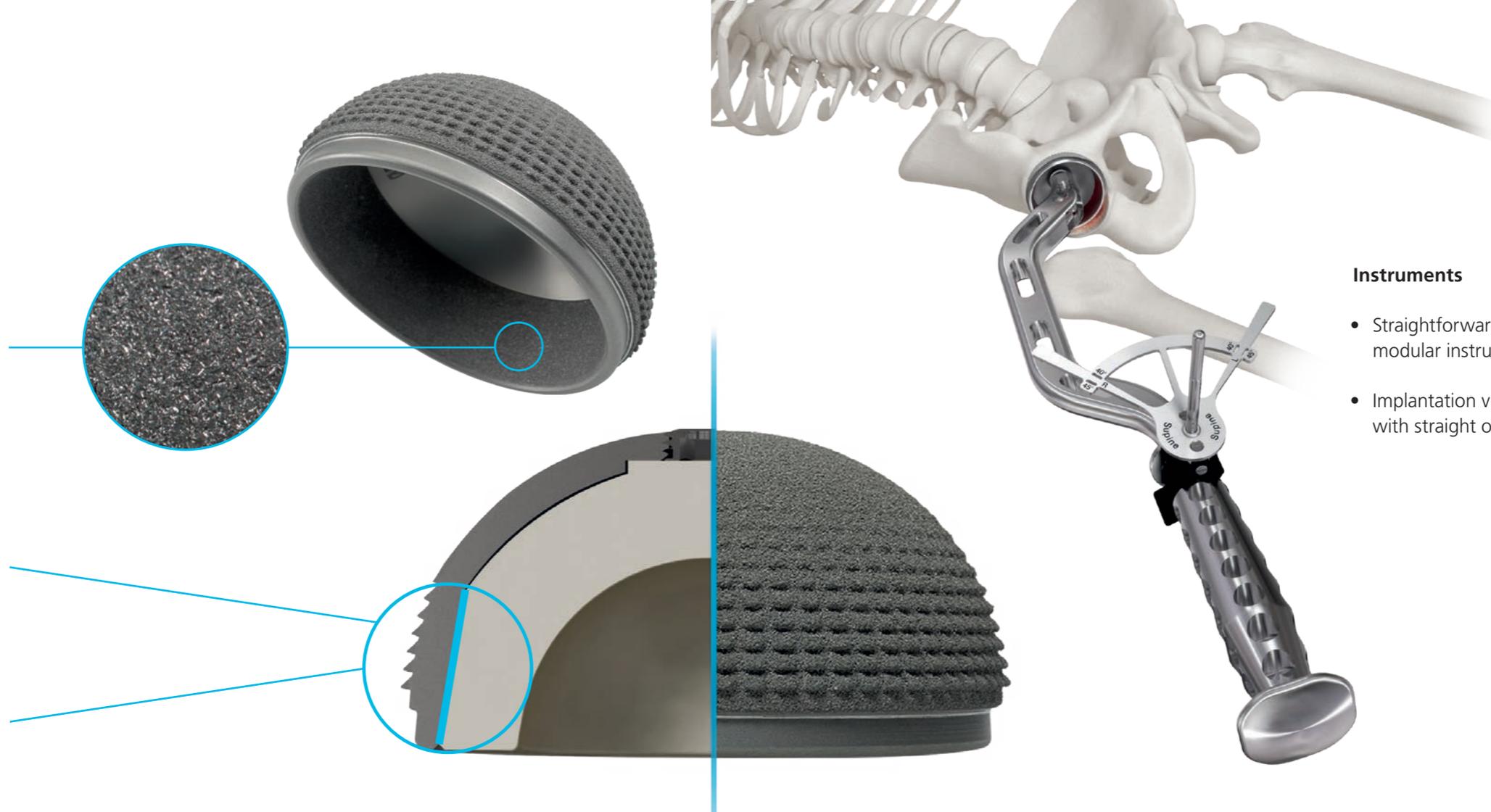
- Reliable anchoring by clearance-free friction fit between inlay and shell
- Rotational stability of the inlay

Taper connection

- Good centring of the inlay
- Low risk of incorrect positioning

Hard-soft pairing

- Low risk of interface complications



Instruments

- Straightforward workflow with clearly designed, modular instrument set
- Implantation via the most common surgical accesses with straight or offset instruments

aneXys – the modular solution by Mathys for hard-soft bearings



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