



Pyramid Hip Cup

Product information

About

Founded in 2009, we are a Swiss family-owned company offering products and services for hip replacement. We develop and manufacture our products in Switzerland and distribute them worldwide. It is important to us that we can offer you high-quality products to care for your patients.

When developing the Pyramid Press-Fit cup, we pursued the concept of a metal shell that was as thin as possible to accommodate an articulation insert with the greatest possible wall thickness.

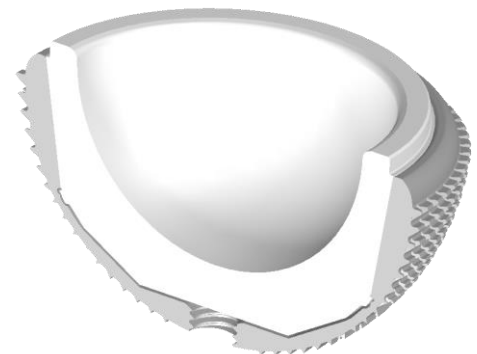
The result is impressive as it allows combinations of, for example, a 50 mm shell with a 36 mm ball head, with sufficient insert wall thickness. This allows for bone-sparing surgery and ensures high dislocation resistance and long-term durability of the articulation.



Full form fit

The notch-free and easy-to-install modular connection between the hip shell and the insert is form-fitting, thus supporting the articulation insert throughout its entire volume.

The hip shell is suitable for both ceramic and polyethylene inserts (including anti-luxation variants) and has been clinically proven over 15 years.



Structure of the hip shell



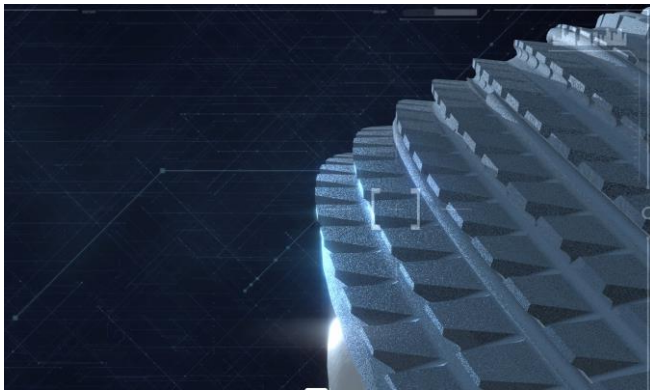
Pole region

Stability zone

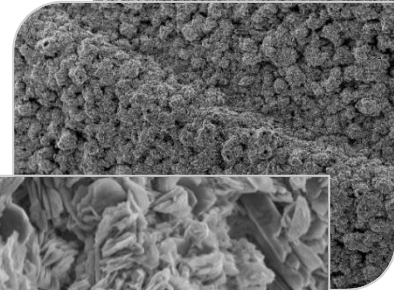
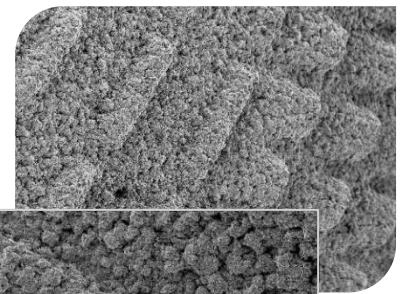
Anchoring zone

Anchoring & coating

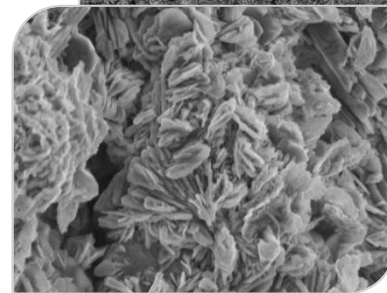
The “teeth” in the lower area enable excellent primary stability. We support rapid osseointegration and long-term secondary stability with a two-layer coating that has two functions: The outer thin layer of calcium phosphate (dicalcium phosphate), which is resorbed after 2-4 months, accelerates osseointegration. Underneath is a highly rough pure titanium vacuum plasma layer for permanent anchoring.



Basic structure of the titanium shell



Roughness of titanium plasma layer



Dicalcium phosphate layer

Product Range

The titanium hip cups are available in a standard version and as a revision cup with additional anchoring using cancellous bone screws. They can be fitted with a highly cross-linked polyethylene insert or a ceramic insert.

For further information on the size system, see the overview on the reverse.

Instruments

Different instruments are suitable depending on the approach. For this reason, the instruments are divided into different sets and can be configured in various ways.



Basic equipment for hip cups







Set for MIS procedures



Set with trial shells and trial inserts

Literature:

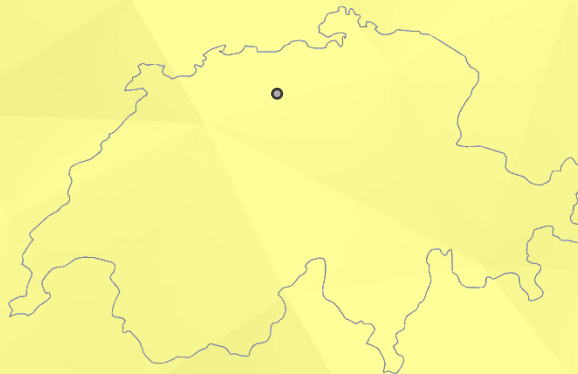
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2. P. Becker, B. Nebe, F. Lüthen, J. Rychly, H.-G. Neumann Cellular investigations on electrochemically deposited CaP-Composite. From the 18th European Conference on Biomaterials October 1-4, 2003, Stuttgart, Germany
3. P. Becker, B. Nebe, F. Lüthen, J. Rychly, H.-G. Neumann, P. Zeggel: Resorbable calcium phosphate composite coatings. Key Engineering Materials Vols. 218-220 (2002) pp. 653-656

Primary shell	3-hole shell (revision)	Insert	x-link PE	Ceramics
				
42	42	D	D / 28	D / 28
44	44			
46	46	E	E / 32	E / 32
48	48			
	50			
50	52	F	F / 32	F / 36
52	54		F / 36	
	56			
54	58	G	G / 32	G / 36
56	60		G / 36	
58	62	H	H / 32	H / 36
60	64		H / 36	
62	66			
	68			
	(70)*			

*: available on request

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