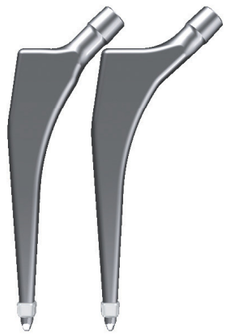
atesos medical AG

Implant-Range:

Hip Stem cementless		Ref.no.	
CCD = 135° (konstant) standard › lateral = +7 mm	Size	standard	lateralisiert
	0	310001	-
	1	310002	310014
	2	310003	310015
	3	310004	310016
	4	310005	310017
	5	310006	310018
	6	310007	310019
	7	310008	310020
	8	310009	310021
	9	310010	310022
	10	310011	310023
	11	310012	310024

Hip Stem cemented		Ref.no.	
CCD = 135° (konstant) standard › lateral = +7 mm	Size	standard	lateralized
	1	350000	-
	2	350001	350013
	3	350002	350014
	4	350003	350015
	5	350004	350016
	6	350005	350017
	7	350006	350018
	8	350007	350019
	9	350008	350020
	10	350009	350021
	11	350010	350022
	12	350011	350023

	Ball Heads				
	Ceramic ELEC			Metal CoCrMo	
Size	28 mm	32 mm	36 mm	28 mm	32 mm
S	319000	319003	319006	319100	319103
M	319001	319004	319007	319101	319104
L	319002	319005	319008	319102	319105

ELEC: Al_2O_3 nach ISO 6474

XL and XXL Ball Heads on request

Literature:

1. Hallan G, Lie SA, Furnes O, Engesaeter LB, Vollset SE, Havelin LI. Medium- and long-term performance of 11,516 uncemented primary femoral stems from the Norwegian arthroplasty register. J Bone Joint Surg Br. 2007 Dec; 89(12):1574-80.

2. Ramos A; Simões JA / The influence of cement mantle thickness and stem geometry on fatigue damage in two different cemented hip femoral prostheses. Journal of biomechanics; VOL: 42 (15); p. 2602-10 /20091113/

3. R.A. Berger, M. Seel, K. Wood, R. Evans, J. DÀntonio, H.E. Rubash / Effect of a Centralizing device on Cement Mantle Deficiencied and Initial Prosthetic Alignment in Total Hip Arthroplasty. The Journal of Arthroplasty, Vol. 12 No. 4 1997

atesos medical AG

Atesos medical AG
Schachenallee 29
CH-5000 Aarau
Switzerland

CE 1250

Lit No: 502.E004-A4

Pyramid Hip Stem

Cementless and cemented

atesos medical AG

www.atesos.ch

Pyramid Stem - cementless

Clinically succesfull concept
- biofunctional anchorage

The PYRAMID Hip Stem is based on a implant concept which has been leading to good clinical results since more than 20 years. Choice of material, concept of offset and assortment of sizes correspond to the latest standard.

The Pyramid Hip Stem is offered in a cemented and a cementless version. Both come with the same offset system and can be used with the exactly same instruments.

Assortment:

Stem offset:
» constant CCD angle (135°)
» Standard
» Lateralized +7mm

Suitable for all approaches
» Applicable for MIS approach

Sortiment:
» 12 sizes

Cementless:

Material:
» Ti6Al4V

Surface:
» Pure titanium plasma coating with high roughness (TiVPS)
Supports safe and stable long term osseointegration
» Calcium phosphate coating
Supports accelerated osseointegration

Biofunctional Anchorage

Primary stability	Osseointegration Calcium-Phosphate cover	Long term anchorage TiVPS base coating
Highly precise rasp system Implant geometry with clinically tested 3D pressfit highly rough surface for maximal force transmission	 20 µm thin cover Very large surface Controlled resorption	 Cp titanium, high biocompability Very high roughness High porosity
High primary stability	**Accelerated osseointegration**	**Solid ossification**

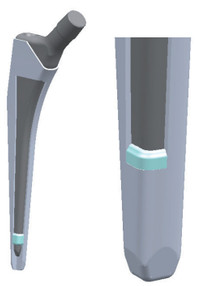
Pyramid Hip Stem

Pyramid Stem - cemented

Controlled full cement mantle
- fully polished surface

The cemented version of the Pyramid Hip Stem is produced with a highly polished surface. Combined with the cement this leads to better clinical long term results compared to rough surfaces. The material is choosen according to ISO 5832-9, highly nitrogen stainless steel.

A closed cement mantle is base for a long term anchorage without osteolysis.
The rasp concept in combination with the PMMA centralizer system offers secure cement mantle quality.



Cemented:

Material:
» Highly nitrogen stainless steel (ISO 5832-9)
» Netshape forged

Surface
» Polished

Edge radii:
» Enlarged for reduced cement loading

Cement:
» Minimum 1mm full cement mantle
» 'Line-to-line' (Option)

Centralizer:
» Material PMMA
» Firm connection with stem