

xl-axenture

Cementless Total Hip
Replacement System



xlo trusted by
Orthopaedics

The XL-Axenture Stem capitalizes on the excellent clinical results of proximal to distal tapered stem designs. The XL-AXENTURE system features a variety of stem designs that provide different methods of stem fixation, bone geometries and that also addresses different patients.

The porous-coated design promotes bone ingrowth and 3-dimensional interlocking between the implant and the bone. All XL-AXENTURE femoral stems are made from high-strength, titanium and feature a 3° proximal to distal taper. Parallel and longitudinally arranged flutes on the stems provide good axial and antirotational stability. The circulo trapezoidal neck of XLAXENTURE stems is smaller in the anterior/ posterior direction than most comparative stems.

- XL-AXENTURE cementless femoral stems are available in 7 different sizes. All are available in standard and high offset versions.
- All stems in the XL-AXENTURE system are implanted with one simple set of surgical instruments.
- The 12/14 taper of XL-AXENTURE stems accepts 28, 32 and 36mm femoral heads in a variety of neck lengths.
- **Dual Porous Coating**
Porous Titanium layer provided enhanced primary and secondary fixation. With the application of a second layer of HaP we can have an additional enhancement of secondary implant fixation, with a rapid bone ingrowth. TiPorous 400 ±50, Hap 90±30.

- Suits All forms of Bone Anatomy.
- No Turning moment and calcar absorption as the stem is collarless.
- Tapered stem leads to excellent radial compressive loading & reduces shear forces.
- Available in single, clearly labeled sterile pack.

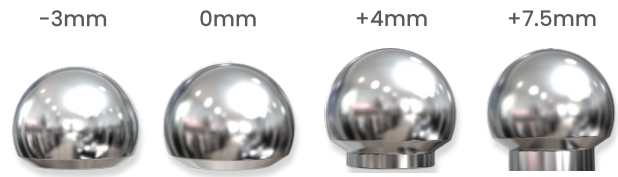


Stem Size	Ref. No.
0S	5005-00-0S
0L	5005-00-0L
1	5005-00-01
2	5005-00-02
3	5005-00-03
4	5005-00-04
5	5005-00-05

Femur Head for Dual Mbility

- Unique machining techniques, guarantee perfect roundness and excellent polish.
- 100% Quality Assurance of all ball spheres assure longevity of implant in the human body.
- 100% Quality Control of 12/14 taper comes make them synergise with similar tapered stems worldwide.

The captive head ensures continuous internal articulation, ease of assembly / disassembly and full prosthetic security.



Head(∅)	Head Neck	Ref. No.
22	-3	5006-00-22/-3
22	0	5006-00-22/0
22	+4	5006-00-22/+4
22	+7.5	5006-00-22/+7.5
28	-3	5006-00-28/-3
28	0	5006-00-28/0
28	+4	5006-00-28/+4
28	+7.5	5006-00-28/+7.5

Dual Mobility Cup

- Titanium Dual Porous Coating
- No screw-holes
- Available in sizes 46mm to 60mm
- Indicated for cementless biological fixation

Size	Ref No.
46	7001-0T-46
48	7001-0T-48
50	7001-0T-50
52	7001-0T-52
54	7001-0T-54
56	7001-0T-56
58	7001-0T-58
60	7001-0T-60



Poly Insert (UHMWPE) for Dual Mobility

- Available in sizes 46mm to 60mm

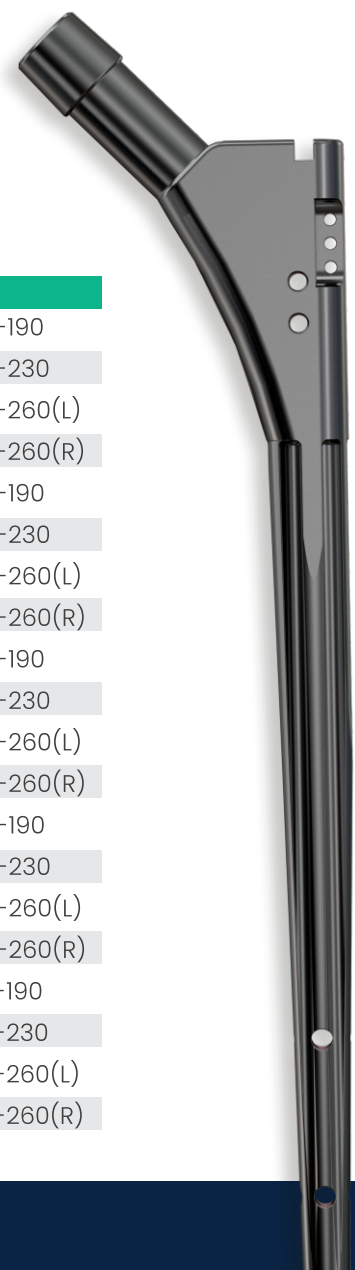
Size	Ref No.
46	7001-22-46
48	7001-22-48
50	7001-22-50
52	7001-22-52
54	7001-28-54
56	7001-28-56
58	7001-28-58
60	7001-28-60



The XL-Resurge Revision Stem is made of Titanium Medical Grade 5 ELI, whose biocompatibility has been proven by numerous histological studies of implant retrievals. The rough-blasted surface supports bone formation and, thus, generates reliable secondary stability. The characteristic narrow ribs on the XL-Resurge Revision Stem allows bone formation as well: the longitudinal furrows between the ribs provide room for the vessels in the marrow cavities to regenerate. This is an effective prerequisite for reactive ossification and revascularization in the cortex. A fundamental advantage of Titanium Medical Grade 5 ELI is its modulus of elasticity, which can have particularly positive effects in revision surgery. This element is designed to fulfil a biomechanical role, in that it allows visible bone regeneration in the proximal femoral segment. The synergetic interaction between material, surface structure and design of the XL-Resurge Revision Stem creates ideal conditions that allow bone formation.

- Modular revision endo prosthesis with straight and curved stems.
- Rotational stability through star shape and distal interlocking option.
- Catch-free stability by applied frictional connection.
- Multiple opportunities for trial reduction.
- Intra- and extra osseous assembly of the implant components.

Stem Size	Ref. No.
13mm x 190mm	1007-RE-13-190
13mm x 230mm	1007-RE-13-230
13mm x 260mm(Left)	1007-RE-13-260(L)
13mm x 260mm(Right)	1007-RE-13-260(R)
14mm x 190mm	1007-RE-14-190
14mm x 230mm	1007-RE-14-230
14mm x 260mm(Left)	1007-RE-14-260(L)
14mm x 260mm(Right)	1007-RE-14-260(R)
15mm x 190mm	1007-RE-15-190
15mm x 230mm	1007-RE-15-230
15mm x 260mm(Left)	1007-RE-15-260(L)
15mm x 260mm(Right)	1007-RE-15-260(R)
16mm x 190mm	1007-RE-16-190
16mm x 230mm	1007-RE-16-230
16mm x 260mm(Left)	1007-RE-16-260(L)
16mm x 260mm(Right)	1007-RE-16-260(R)
17mm x 190mm	1007-RE-17-190
17mm x 230mm	1007-RE-17-230
17mm x 260mm(Left)	1007-RE-17-260(L)
17mm x 260mm(Right)	1007-RE-17-260(R)



Resurge Cup

- Titanium acetabular shell with Dual Porous Coating
- Incorporates three screw holes in one quadrant to offer additional implant stability
- Available in sizes 44mm to 60mm
- Indicated for cementless biological fixation



Head(∅)	Titanium	Stainless Steel
44	1006-0T-44	1006-0S-44
46	1006-0T-46	1006-0S-46
48	2006-0T-48	2006-0S-48
50	2006-0T-50	2006-0S-50
52	2006-0T-52	2006-0S-52
54	2006-0T-54	2006-0S-54
56	2006-0T-56	2006-0S-56
58	2006-0T-58	2006-0S-58
60	2006-0T-60	2006-0S-60

Standard Cup

- Titanium acetabular shell with Dual Porous Coating
- No screw-holes
- Available in sizes 44mm to 60mm
- Indicated for cementless biological fixation



Head(∅)	Ref No.
44	1006-FC-44
46	1006-FC-46
48	1006-FC-48
50	1006-FC-50
52	1006-FC-52
54	1006-FC-54
56	1006-FC-56
58	1006-FC-58
60	1006-FC-60



Spiked Cup

- Titanium acetabular shell with Dual Porous Coating
- Incorporates three porous-coated spikes to maximize implant stability and rotational control
- Available in sizes 44mm to 60mm
- Indicated for cementless biological fixation

Head(∅)	Ref No.
44	1006-SC-44
46	1006-SC-46
48	1006-SC-48
50	1006-SC-50
52	1006-SC-52
54	1006-SC-54
56	1006-SC-56
58	1006-SC-58
60	1006-SC-60



Multihole Cup

- Titanium acetabular shell with Dual Porous Coating
- Incorporates eight to 12 screw holes, depending on cup size, to maximize implant stability and provide screw position flexibility
- Available in sizes 44mm to 60mm
- Indicated for cementless biological fixation

Head(∅)	Ref No.
44	1006-MH-44
46	1006-MH-46
48	1006-MH-48
50	1006-MH-50
52	1006-MH-52
54	1006-MH-54
56	1006-MH-56
58	1006-MH-58
60	1006-MH-60



Acetabular liners for the AXENTURE System are available in two types of polyethylene – our high-performing compression-moulded standard polyethylene and Crosslinked Polyethylene as per ASTM F-648 and ISO 5834-2.

Neutral Liner

- Provides 180 degree coverage of the femoral head
- Offers a symmetric face about the metal shell rim
- Typical range of motion (using 28mm +5 Head and Stem):

Ref No.	Head(∅)	Femoral Head (∅mm)
1006-NL-28-44	44	28
1006-NL-28-46	46	28
1006-NL-28-48	48	28
1006-NL-32-50	50	32
1006-NL-32-52	52	32
1006-NL-32-54	54	32
1006-NL-36-54	54	36
1006-NL-36-56	56	36
1006-NL-36-58	58	36
1006-NL-36-60	60	36



+4 Neutral Liner

- Provides 180 degree coverage of the femoral head
- Offers a symmetrical face about the metal shell rim
- Lateralizes head center 4mm
- Typical range of motion: 124° Medial/Lateral, 124° Anterior/Posterior

Ref No.	Head(∅)	Femoral Head (∅mm)
1006-NL-7-28-44	44	28
1006-NL-7-28-46	46	28
1006-NL-7-28-48	48	28
1006-NL-7-32-50	50	32
1006-NL-7-32-52	52	32
1006-NL-7-32-54	54	32
1006-NL-7-36-54	54	36
1006-NL-7-36-56	56	36
1006-NL-7-36-58	58	36
1006-NL-7-36-60	60	36



20 Degree Face Changing/Hooded Liner

- Provides 180 degree coverage of the femoral head plus a 5mm build-up to address dislocation
- Depending on placement, offers 20 degrees of anteversion/ retroversion and/or 20 degrees of abduction/adduction
- Typical range of motion:
107° Medial/Lateral 122° Anterior/Posterior



Ref No.	Head(Ø)	Femoral Head (Ømm)
1006-20-28-44	44	28
1006-20-28-46	46	28
1006-20-28-48	48	28
1006-20-32-50	50	32
1006-20-32-52	52	32
1006-20-32-54	54	32
1006-20-36-54	54	36
1006-20-36-56	56	36
1006-20-36-58	58	36
1006-20-36-60	60	36

20 Degree Face Changing/Hooded Liner

- Provides 180 degree coverage of the femoral head
- Depending upon placement, changes orientation (anteversion, retroversion, abduction, adduction) by 10 degrees
- Typical range of motion:
113° Medial/Lateral, 113° Anterior/Posterior



Ref No.	Head(Ø)	Femoral Head (Ømm)
1006-28-44	44	28
1006-28-46	46	28
2006-28-48	48	28
2006-32-50	50	32
2006-32-52	52	32
2006-32-54	54	32
2006-36-54	54	36
2006-36-56	56	36
2006-36-58	58	36
2006-36-60	60	36

Femur Head

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28	0	5006-00-28/0
28	+4	5006-00-28/+4
28	+7.5	5006-00-28/+7.5
32	-3	5006-00-32/-3
32	0	5006-00-32/0
32	+4	5006-00-32/+4
32	+7.5	5006-00-32/+7.5
36	-3	5006-00-36/-3
36	0	5006-00-36/0
36	+4	5006-00-36/+4
36	+7.5	5006-00-36/+7.5

Cancellous Screws

- For the improved XL-Axenture wall thickness special fixation screws with flatter screw heads have been designed.
- The self-cutting, 6.5 mm screws are inserted with a 3.5 hex screwdriver and allow a pivoting angle of +/- 9°.

Length	Ref No.
25mm	1009-0T-25
30mm	1009-0T-30
35mm	1009-0T-35
40mm	1009-0T-40
45mm	1009-0T-45
50mm	1009-0T-50





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