



## Section of Modular Hip Prostheses cemented

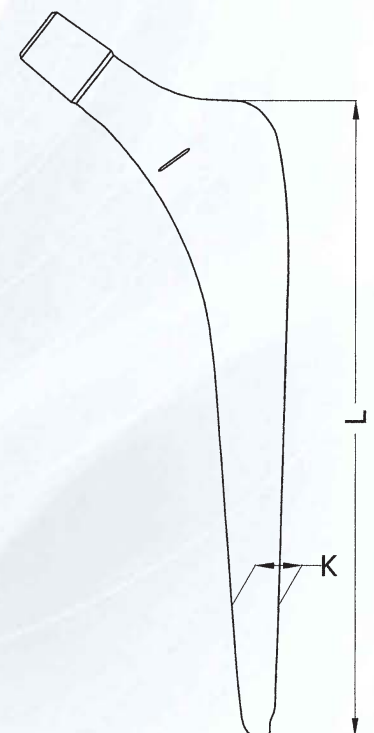
**TMC-3 Modular Hip Prosthesis, cemented**

**TMC-3 Modular Hüftprothese, zementiert**

**Prothèse de hanche modulaire TMC-3,  
cimentée**

**Indication** : The TMC-3 Modular hip prosthesis is a solution for total hip replacement namely with the concept of a hybrid system combined with distal centralizer. The form and the length of prostheses are ideal-together with distal centralizer in order to ensure self-centring. This prosthesis is design of conical wedge form with rounded edges in the proximal section corresponds with the anatomical and biomechanical requirements. These are, retention and utilisation of the morphology of the intertrochanteric region with resultant rotatory stability, self centering and a favourable zone for cementing. The main part of the cement mantle is subject to compressive forces. Tensile forces are restricted to the lateral shoulder where the cement merely has the function of a filling material. The implant does not have any sharp edges, as a result of which stress concentrations and resultant cement cracks are avoided. This prosthesis consist of an appropriate number of stem sizes which enable one to obtain the filling of the medullary canal. Furthermore, an optimum thickness of the cement layer can also be achieved. Tapered distal design helps reduce strains in the cement as compared to conventional stem. Also cutted edge at the end of the stem avoid the pain in the distal part of femur and permit wide range of motion. This stem is mostly indicated for all cases of primary implants and all cases in which there is a contraindication for an uncemented stem. Contraindications is revision cases with extensive proximal osseous defect. The prosthesis feature has a 135° degree stem/neck angle for an anatomic reconstruction. The neck has a taper 12/14 allowing standard metal heads to be used.

**Material** : The TMC-3 modular hip prosthesis is manufactured from casting Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiormechnical strenght.



Ref. Number Co.Cr-alloy	Stem Size K mm	Stem Length L mm	Cone Size mm	Neck Angle
10263013006	6.0	113.5	12/14	135°
10263013008	8.0	130.5	12/14	135°
10263013010	10.0	135.0	12/14	135°
10263013012	12.0	140.0	12/14	135°
10263013014	14.0	145.0	12/14	135°



### Section of Modular Hip Prostheses cemented

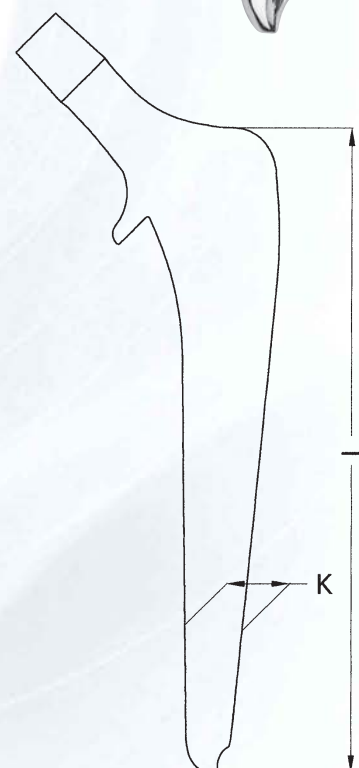
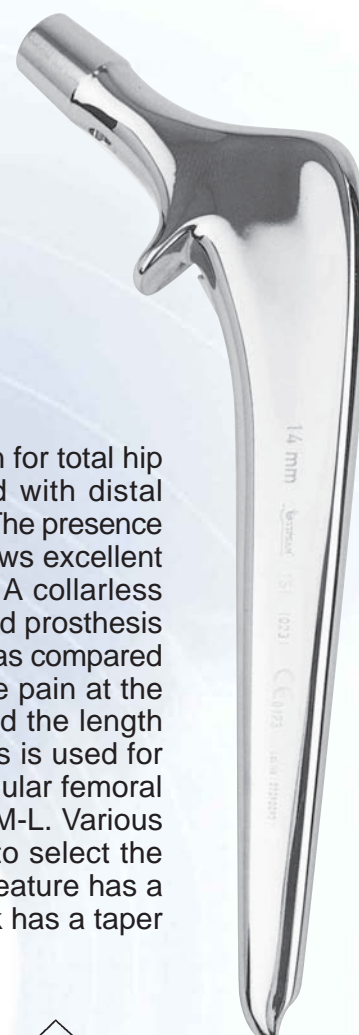
**TMC-4 Modular Hip Prosthesis with collar,  
cemented**

**TMC-4 Modular Hüftprothese mit Kragen,  
zementiert**

**Prothèse de hanche modulaire avec  
collerette TMC-4, cimentée**

**Indication** : The TMC-4 modular hip prosthesis with collar is a solution for total hip replacement namely with the concept of a hybrid system combined with distal centralizer. This prosthesis is designed to provide an anatomic precise fit. The presence of a broad medial collar together with a precise calcar preparation, allows excellent collar/calcar contact for load distribution and cement pressurization. A collarless version is also available (TMC-3) for clinical application where a collared prosthesis is inappropriate. Tapered distal design helps reduce strain in the cement as compared to conventional stem and cutted edge at the end of the stem avoid the pain at the distal part of the femur and permit wide range of motion. The form and the length of prosthesis are ideal - together with distal centralizer. This prosthesis is used for primary total hip arthroplasty when a collared design is preferred. Modular femoral heads available in diameters 28 mm with three different neck sizes S-M-L. Various stem size with interchangeable heads options enabling the surgeon to select the best combination for the long-term satisfactory result. The prosthesis feature has a 135° degree stem/neck angle for an anatomic reconstruction. The neck has a taper 12/14 allowing standard metal heads to be used.

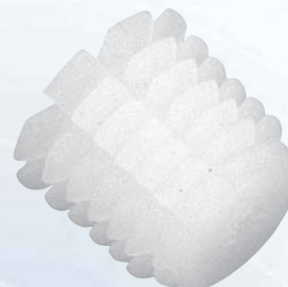
**Material** : The TMC-4 modular hip prosthesis is manufactured from casting Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiormechnical strenght.



Ref. Number Co.Cr-alloy	Stem Size K mm	Stem Length L mm	Cone Size mm	Neck Angle
10262153006	6.0	113.5	12/14	135°
10262153008	8.0	130.5	12/14	135°
10262153010	10.0	135.0	12/14	135°
10262153012	12.0	140.0	12/14	135°
10262153014	14.0	145.0	12/14	135°



### Cement Plug for TMC-3 / TMC-4



**Indication** : Reduced the potential for distal migration of bone cement within the medullary canal during prosthetic implantation, thus enhancing the chance for lateral displacement of bone cement and trabecular interstitial penetration. Firmly anchored at the desired depth within the medullary canal via the wedging action of 6-7 rows of circumferential fins.

**Material** : UHMWPE Ultra Heavy Molecular Weight Polyethylene meets ASTM F.648 and ISO 5834/2 standards. Selected for its, high degree of purity, good biotolerance, good mechanical performance and friction properties.

Ref. Number	Size (ø)
10247007001	9
10247007002	10
10247007003	11
10247007004	12
10247007005	13
10247007006	14
10247007007	15
10247007008	16
10247007009	17
10247007011	19
10247007013	21

### Distal Centralizer for TMC-3 / TMC-4



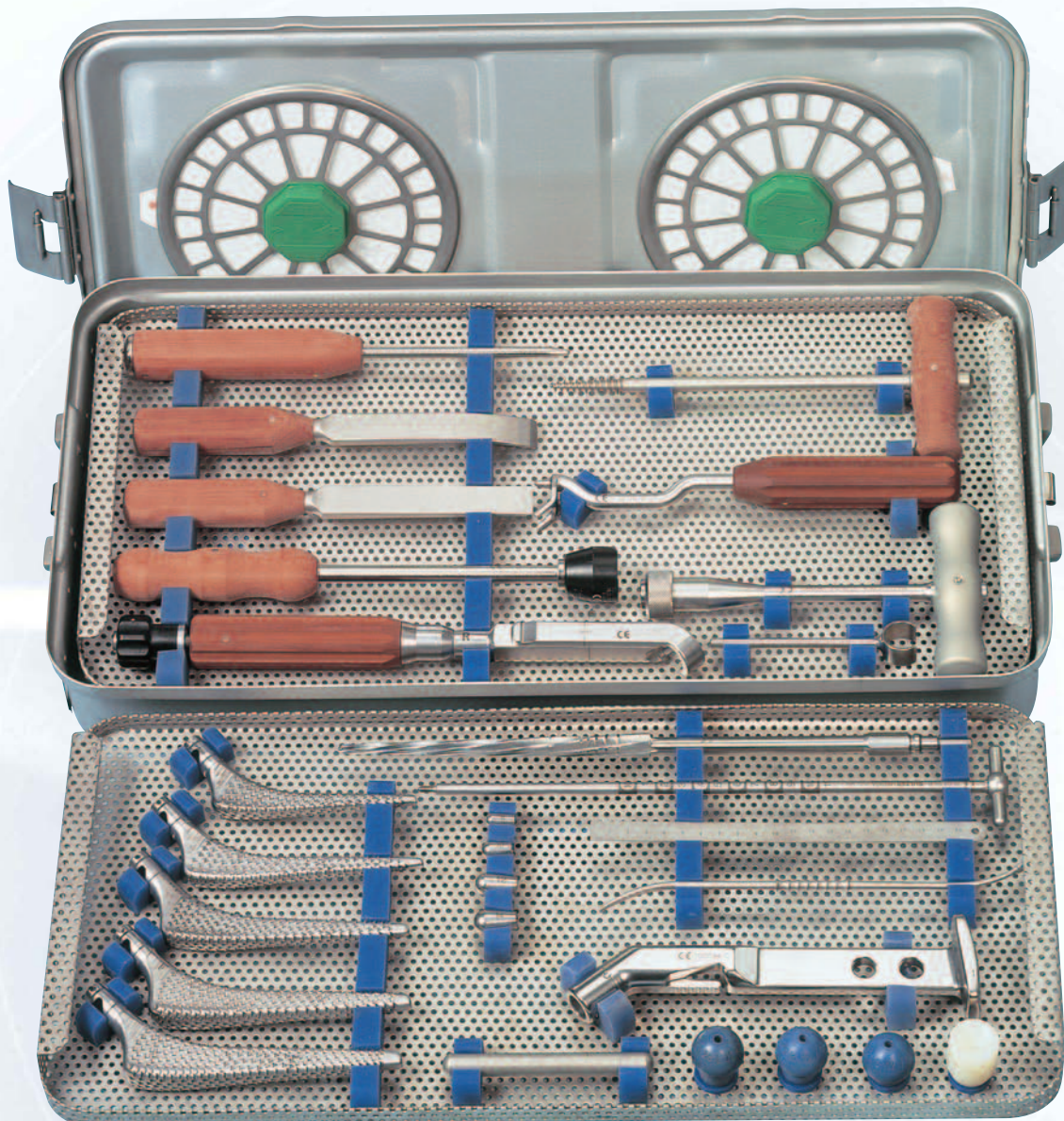
**Indication** : The distal centralizer with a three point - star configuration, helps improve cortical diaphyseal contact and stem alignment.

**Material** : PMMA Polymethylmethacrylate

Ref. Number	Size (ø)	Combining Stem Size
10246007001	8	6 mm stem
10246007002	10	8 mm stem
10246007003	12	10 mm stem
10246007004	14	12 mm stem
10246007005	16	14 mm stem



**TMC-3 / TMC-4 Modular Hip Prosthesis  
Complete Instrumentation Set**



**Ref. Number : 18003140001**

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10610331001	T-Handle		1	10610001001	Rasp Bar		1
10610331003	Medullary Awl Reamer		1	10610011050	Modular Rasp Handle		1
10608151008	Plug for Introducing Rod	8	1	10610331006	Rasps	6	1
10608151010	Plug for Introducing Rod	10	1	10610331008	Rasps	8	1
10608151012	Plug for Introducing Rod	12	1	10610331010	Rasps	10	1
10608151014	Plug for Introducing Rod	14	1	10610331012	Rasps	12	1
10608151020	Introducing Rod for Medullary Plug		1	10610331014	Rasps	14	1
10602311001	Cement Pusher		1	10601330001	Handle for Setting Device		1
10608081013	Ruler		1	10607031325	Impactor		1
10608280011	Test Head ø 28 mm 12/14	S	1	10607031321	Impactor & Extractor		1
10608280012	Test Head ø 28 mm 12/14	M	1	10606100001	Femoral Head Extractor		1
10608280013	Test Head ø 28 mm 12/14	L	1	10605210001	Curved Chisel		1
10607031330	Repositioning Lever		1	10605210002	Straight Chisel		1
10607031332	Repositioning Lever Synthetic Top		1	10608021011	Gauge for Femoral Head		1
10607031335	Repositioning Top	ø 28	1				



### Prosthesis Rasp



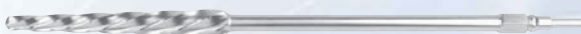
Ref. Number	Size (ø)
10610331006	6
10610331008	8
10610331010	10
10610331012	12
10610331014	14

### Modular Rasp Handle



Ref. Number  
10610011050

### Medullary Awl Reamer



Ref. Number  
10610331003

### Test Heads



Ref. Number	Size
10608280011	S
10608280012	M
10608280013	L

### Rasp Bar



Ref. Number  
10610001001

### Handle for Setting Device



Ref. Number  
10601330001

### T-Handle



Ref. Number  
10610040001

### Gauge For Femoral Head



Ref. Number  
10608021011

### Straight Chisel



Ref. Number  
10605210002

### Curved Chisel



Ref. Number  
10605210001



**Impactor & Extractor**



**Ref. Number**  
10607031321

**Impactor**



**Ref. Number**  
10607031325

**Ruler**



**Ref. Number**  
10608081013

**Cement Pusher**



**Ref. Number**  
10602311001

**Repositioning Lever**



**Ref. Number**  
10607031330

**Repositioning Lever Synthetic Top**



**Ref. Number**  
10607031332

**Repositioning Top**



**Ref. Number**  
10607031335

**Plug for Introducing Rod**



Ref. Number	Size (ø)
10608151008	8
10608151010	10
10608151012	12
10608151014	14

**Femoral Head Extractor**



**Ref. Number**  
10606100001

**Introducing Rod for Medullary Plug**



**Ref. Number**  
10608151020



## Section of Modular Hip Prostheses uncemented

### TAU-1 Anatomical Modular Stem with Porous Coating, uncemented

### TAU-1 Anatomische Modular Schaft mit Porous, unzementiert

### Tige anatomic modulaire en Porous TAU-1, non-cimentée

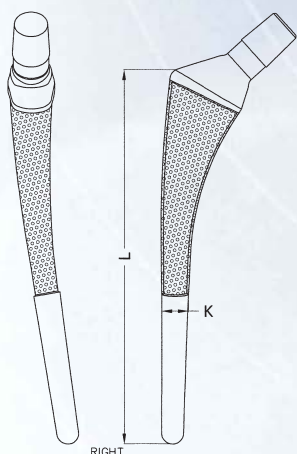
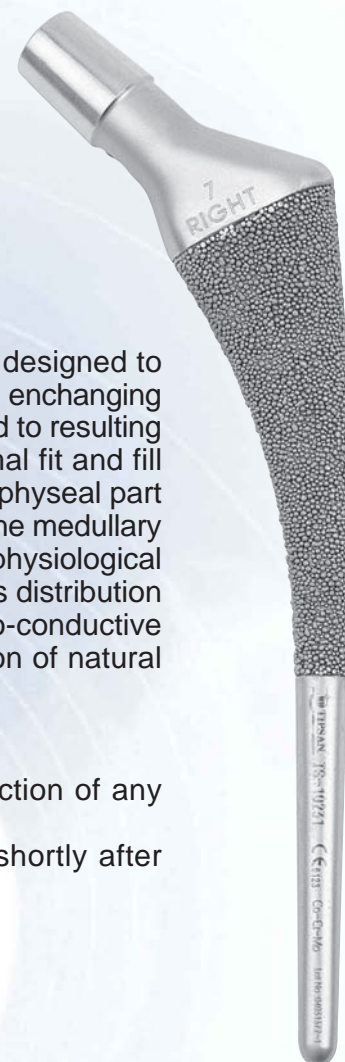
**Indication** : The TAU-1 Anatomical modular hip prosthesis system is designed to improve initial fixation stability and stress distribution at fixation interfaces, exchanging long-term fixation durability. The cervico-diaphyseal angle of 135° is closed to resulting force of mechanical axis of the femur and limits varus stresses. Optimal fit and fill of metaphysis in all three planes ensures perfect rotational stability. Diaphyseal part with anatomic anterior curvature ensures proper centring of the stem in the medullary canal. 8 sizes right & left femoral stem components are proportional to physiological shape of the proximal femur to improve initial fixation stability and stress distribution at fixation interfaces. Three dimensional porous coating uses the osteo-conductive qualities of this efficient biomaterial, which produce the mineral fraction of natural bone.

This similarity allows;

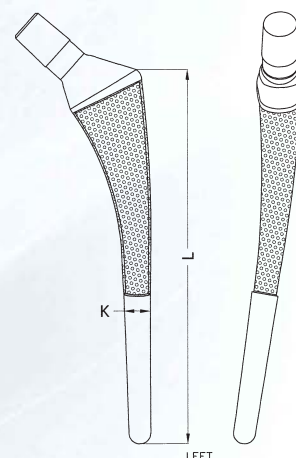
- To mislead the organism defenses
- To avoid fibrous encapsulation-the natural response to the introduction of any foreign substance.
- To create a remarkable link, of chemical nature, which appears shortly after operation and is very strong.

Anatomical design of neck cone 12/14 taper 5° 42 . '

**Material** : It is manufactured from casting Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiomechanical strenght.



Ref. Number Co.Cr-alloy	Stem Size K mm	Stem Length L mm	Cone	Side
10231013007	7	132.5	12/14	Right
10231013008	8	142.0	12/14	Right
10231013009	9	147.0	12/14	Right
10231013010	10	150.0	12/14	Right
10231013012	12	160.0	12/14	Right
10231013013	13	164.0	12/14	Right
10231013015	15	173.5	12/14	Right
10231013017	17	183.0	12/14	Right
10231023007	7	132.5	12/14	Left
10231023008	8	142.0	12/14	Left
10231023009	9	147.0	12/14	Left
10231023010	10	150.0	12/14	Left
10231023012	12	160.0	12/14	Left
10231023013	13	164.0	12/14	Left
10231023015	15	173.5	12/14	Left
10231023017	17	183.0	12/14	Left





### Section of Modular Hip Prostheses uncemented

**TAU-1 Anatomical Modular Stem with Ti.  
Plasma Spray & H.A Coating, uncemented**

**TAU-1 Anatomische Modular Schaft mit Ti.  
Plasma Spray und H.A, unzementiert**

**Tige anatomic modulaire en Ti. Plasma  
Spray & H.A TAU-1, non-cimentée**

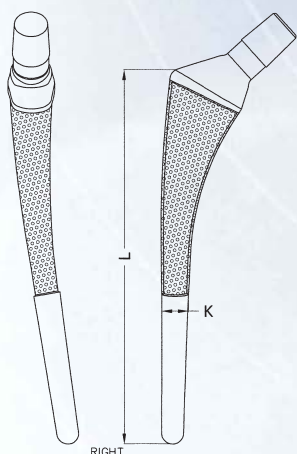
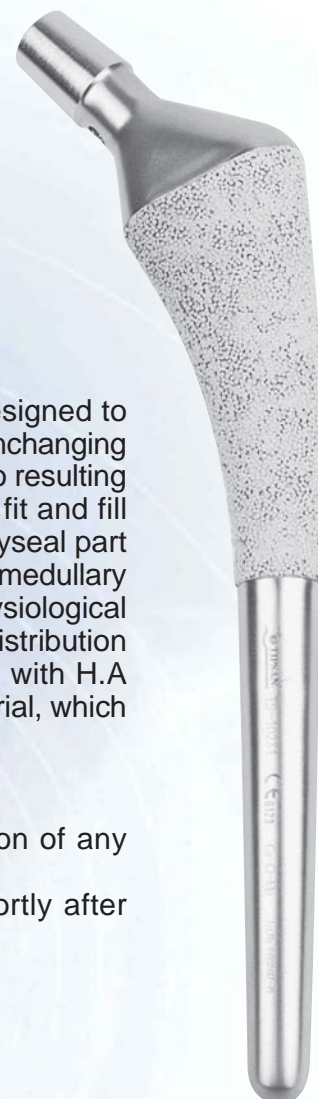
**Indication** : The TAU-1 Anatomical modular hip prosthesis system is designed to improve initial fixation stability and stress distribution at fixation interfaces, exchanging long-term fixation durability. The cervico-diaphyseal angle of 135° is closed to resulting force of mechanical axis of the femur and limits varus stresses. Optimal fit and fill of metaphysis in all three planes ensures perfect rotational stability. Diaphyseal part with anatomic anterior curvature ensures proper centring of the stem in the medullary canal. 8 sizes right & left femoral stem components are proportional to physiological shape of the proximal femur to improve initial fixation stability and stress distribution at fixation interfaces. Three dimensional Titanium plasma spray coating with H.A (hydroxapatite) uses the osteo-conductive qualities of this efficient biomaterial, which produce the mineral fraction of natural bone.

This similarity allows;

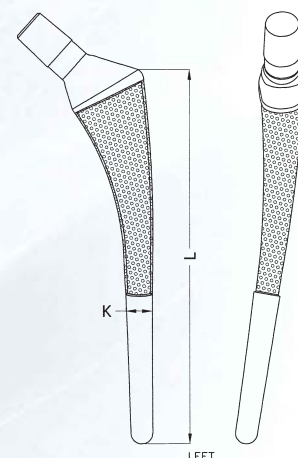
- To mislead the organism defenses
- To avoid fibrous encapsulation-the natural response to the introduction of any foreign substance.
- To create a remarkable link, of chemical nature, which appears shortly after operation and is very strong.

Anatomical design of neck cone 12/14 taper 5° 42 . '

**Material** : It is manufactured from casting Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiormechnical strenght.



Ref. Number Co.Cr-alloy	Stem Size mm	Stem Length L mm	Cone	Side
10231050007	7	132.5	12/14	Right
10231050008	8	142.0	12/14	Right
10231050009	9	147.0	12/14	Right
10231050010	10	150.0	12/14	Right
10231050012	12	160.0	12/14	Right
10231050013	13	164.0	12/14	Right
10231050015	15	173.5	12/14	Right
10231050017	17	183.0	12/14	Right
10231060007	7	132.5	12/14	Left
10231060008	8	142.0	12/14	Left
10231060009	9	147.0	12/14	Left
10231060010	10	150.0	12/14	Left
10231060012	12	160.0	12/14	Left
10231060013	13	164.0	12/14	Left
10231060015	15	173.5	12/14	Left
10231060017	17	183.0	12/14	Left





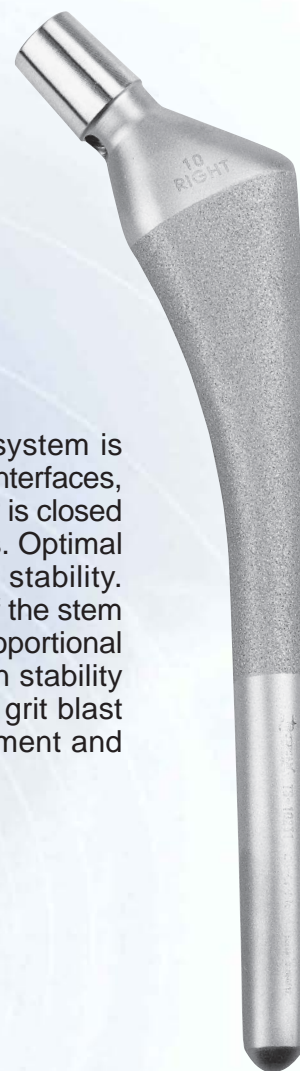


**Section of Modular Hip Prostheses  
cemented**

**TAU-2 Anatomical Modular Stem, cemented**

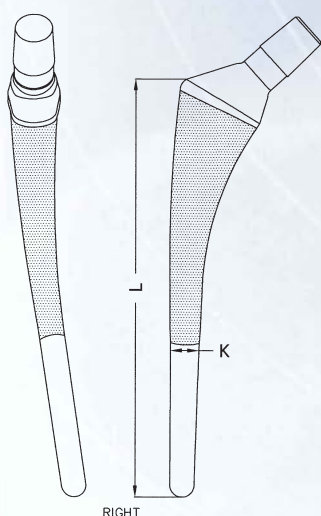
**TAU-2 Anatomische Modular Schaft,  
zementiert**

**Tige anatomic modulaire TAU-2,  
cimentée**



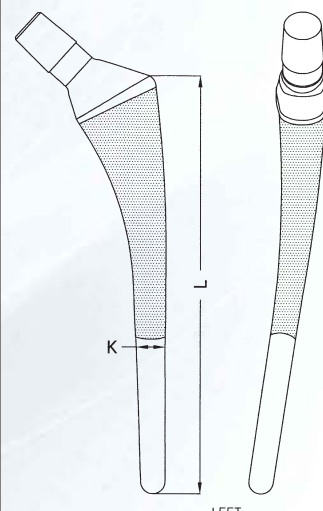
**Indication** : The TAU-2 Anatomical modular cemented hip prosthesis system is designed to improve initial fixation stability and stress distribution at fixation interfaces, enhancing long-term fixation durability. The cervico-diaphyseal angle of 135° is closed to resulting force of mechanical axis of the femur and limits varus stresses. Optimal fit and fill of metaphysis in all three planes ensures perfect rotational stability. Diaphyseal part with anatomic anterior curvature ensures proper centring of the stem in the medullary canal. 8 sizes right & left femoral stem components are proportional to the physiological shape of the proximal femur to improve initial fixation stability and stress distribution at fixation interfaces. Three dimensional interlock grit blast on the proximal area of prosthesis improve mechanical properties of cement and stress distribution at the fixation interfaces.

**Material** : It is manufactured from casting Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiormechanical strenght.



RIGHT

Ref. Number Co.Cr-alloy	Stem Size K mm	Stem Length L mm	Cone	Side
10231113007	7	132.5	12/14	Right
10231113008	8	142.0	12/14	Right
10231113009	9	147.0	12/14	Right
10231113010	10	150.0	12/14	Right
10231113012	12	160.0	12/14	Right
10231113013	13	164.0	12/14	Right
10231113015	15	173.5	12/14	Right
10231113017	17	183.0	12/14	Right
10231123007	7	132.5	12/14	Left
10231123008	8	142.0	12/14	Left
10231123009	9	147.0	12/14	Left
10231123010	10	150.0	12/14	Left
10231123012	12	160.0	12/14	Left
10231123013	13	164.0	12/14	Left
10231123015	15	173.5	12/14	Left
10231123017	17	183.0	12/14	Left



LEFT



**TAU Anatomical Modular Stem  
Complete Instrumentation Set**



**Ref. Number : 18003150001**

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10236018001	Conical Test Head ø28 mm 12/14	S	1	10610001001	Rasp Bar		1
10236018002	Conical Test Head ø28 mm 12/14	M	1	10610011050	Modular Rasp Handle		1
10236018003	Conical Test Head ø28 mm 12/14	L	1	10610301007	Anatomical Stem Rasp (Right)	7	1
10602041002	Bone Hook Blunt		1	10610301008	Anatomical Stem Rasp (Right)	8	1
10602101101	Hohmann Extractor	No.1	1	10610301010	Anatomical Stem Rasp (Right)	10	1
10602101102	Hohmann Extractor	No.2	1	10610301012	Anatomical Stem Rasp (Right)	12	1
10605210001	Curved Chisel		1	10610301013	Anatomical Stem Rasp (Right)	13	1
10605210002	Straight Chisel		1	10610311007	Anatomical Stem Rasp (Left)	7	1
10605210003	Guj Curette		1	10610311008	Anatomical Stem Rasp (Left)	8	1
10605210004	Curette		1	10610311010	Anatomical Stem Rasp (Left)	10	1
10605210005	Spoon Curette		1	10610311012	Anatomical Stem Rasp (Left)	12	1
10606100001	Femoral Head Extractor		1	10610311013	Anatomical Stem Rasp (Left)	13	1
10607020003	Femoral Head Impactor		1	10610331003	Medullary Awl Reamer		1
10607031301	Impactor		1				
10608021011	Gauge for Femoral Head		1				



**Anatomical Stem Rasp  
(Left)**



Ref. Number	Size (ø)
10610311007	7
10610311008	8
10610311010	10
10610311012	12
10610311013	13

**Anatomical Stem Rasp  
(Right)**



Ref. Number	Size (ø)
10610301007	7
10610301008	8
10610301010	10
10610301012	12
10610301013	13

**Rasp Bar**



**Ref. Number  
10610001001**

**Modular Rasp Handle**



**Ref. Number  
10610011050**

**Bone Hook Blunt**



**Ref. Number  
10602041002**

**Gauge For Femoral Head**



**Ref. Number  
10608021011**

**Straight Chisel**



**Ref. Number  
10605210002**

**Curved Chisel**



**Ref. Number  
10605210001**



**Guj Curette**



**Ref. Number  
10605210003**

**Femoral Head Impactor**



**Ref. Number  
10607020003**

**Spoon Curette**



**Ref. Number  
10605210005**

**Curette**



**Ref. Number  
10605210004**

**Hohmann Retractor**



**Ref. Number  
10602101101**

**Hohmann Retractor**



**Ref. Number  
10602101102**

**Femoral Head Extractor**



**Ref. Number  
10606100001**

**Impactor**



**Ref. Number  
10607031301**

**Medullary Awl Reamer**



**Ref. Number  
10610331003**

**Test Heads**



Ref. Number	Size
10236018001	S
10236018002	M
10236018003	L

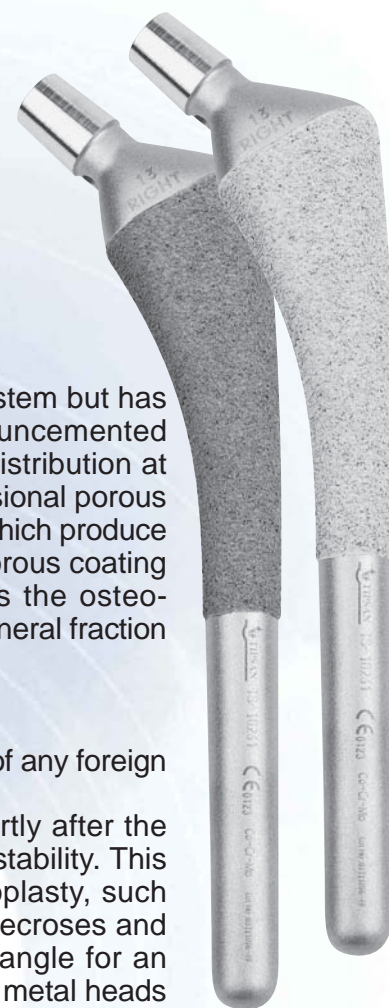


**Section of Modular Hip Prostheses  
uncemented**

**TPD Modular Straight Stem, uncemented**

**TPD Modular Geradschaft, unzementiert**

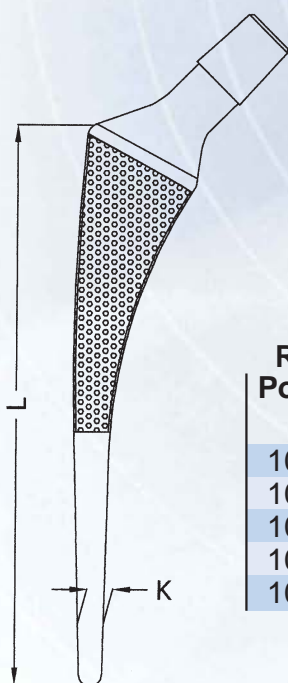
**Tige droite modulaire TPD, non-cimentée**



**Indication** : It is identical in shape to the TAU-1 anatomical modular stem but has no anatomical anterior curvature on stem. It is totally straight. This uncemented prosthesis is designed to improve initial fixation stability and stress distribution at fixation interfaces, enhancing long-term fixation stability. Three dimensional porous coating uses the osteo-conductive qualities of this efficient biomaterial, which produce the mineral fraction of natural bone. This prosthesis is available with porous coating and hydroxapatite (C.H.A) coating together. Its C.H.A coating uses the osteo-conductive qualities of this efficient biomaterial, which reproduces the mineral fraction of nature bone.

This similarity allows,

- to mislead the organism defenses,
- to avoid fibrous encapsulation-the natural response to the introduction of any foreign substance
- to create a remarkable link, of chemical nature, which appears shortly after the operation, and is very strong. It ensures secondary, biological, active stability. This prosthesis can be used for all classical indications of total hip arthroplasty, such primary or secondary hip osteoarthritis, rheumatic coxitis, avascular necroses and broken femoral neck. The prosthesis feature has a 135° stem/neck angle for an anatomic reconstruction. The neck has a taper 12/14 allowing standard metal heads to be used.

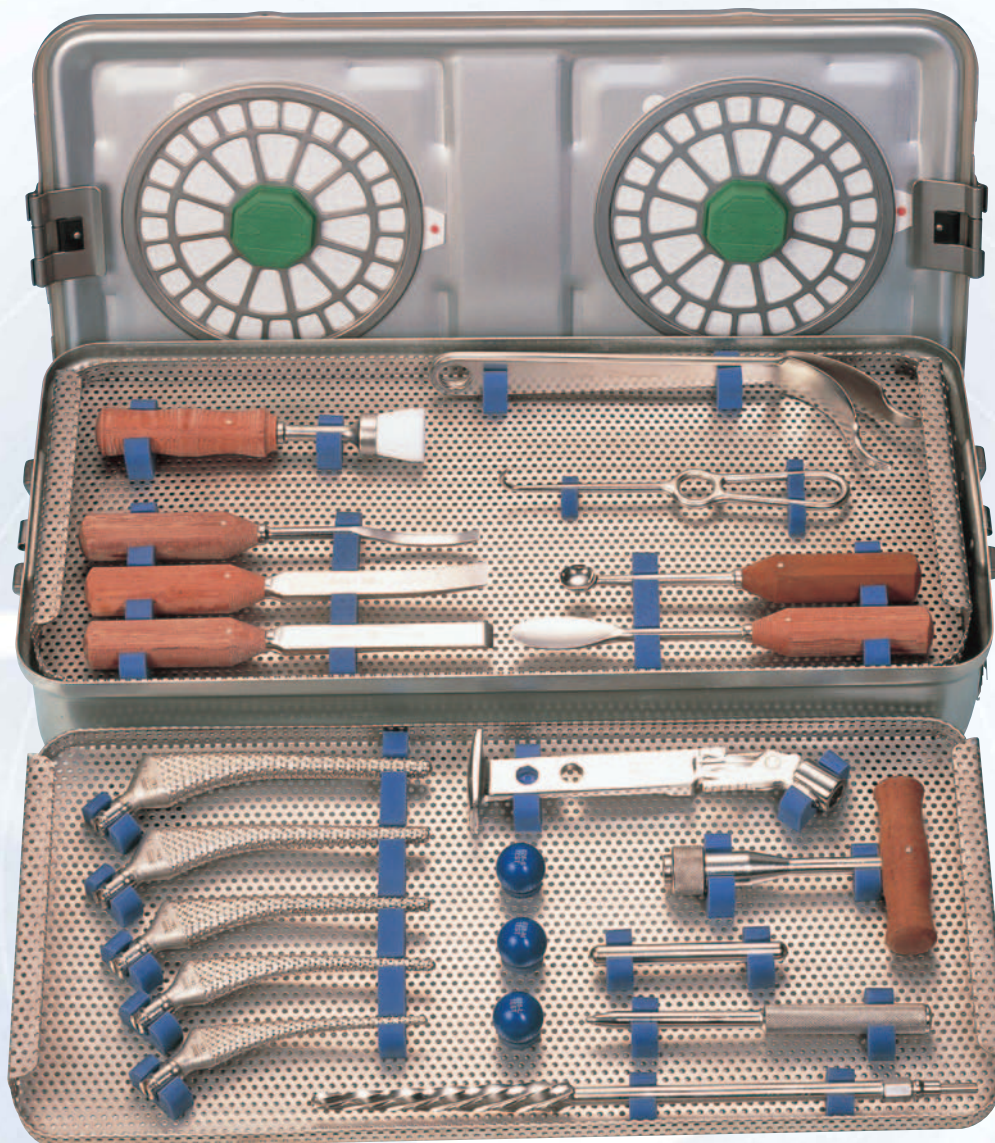


**Material** : It is manufactured from casting Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiormechnical strenght.

Ref. Number Porous Coated	Ref. Number Ti.PI.S. + HA	Stem Size K mm	Stem Length L mm	Cone
10266013006	10266050006	6	129.5	12/14
10266013008	10266050008	8	140.0	12/14
10266013010	10266050010	10	150.5	12/14
10266013012	10266050012	12	160.5	12/14
10266013014	10266050014	14	165.5	12/14



**TPD Modular Straight Stem  
Complete Instrumentation Set**

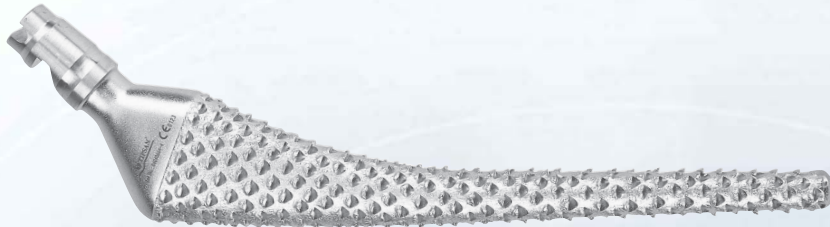


**Ref. Number : 18003160001**

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10236018001	Conical Test Head ø28 mm 12/14	S	1	10610001001	Rasp Bar		1
10236018002	Conical Test Head ø28 mm 12/14	M	1	10610011050	Modular Rasp Handle		1
10236018003	Conical Test Head ø28 mm 12/14	L	1	10610341006	Stem Rasp	6	1
10602041001	Bone Hook Sharp		1	10610341008	Stem Rasp	8	1
10602101101	Hohmann Extractor	No.1	1	10610341010	Stem Rasp	10	1
10602101102	Hohmann Extractor	No.2	1	10610341012	Stem Rasp	12	1
10605210001	Curved Chisel		1	10610341014	Stem Rasp	14	1
10605210002	Straight Chisel		1	10610331003	Medullary Awl Reamer		1
10605210003	Guj Curette		1	10608021011	Gauge for Femoral Head		1
10605210004	Curette		1				
10605210005	Spoon Curette		1				
10607020003	Femoral Head Impactor		1				
10607031301	Impactor		1				
10610040001	T-Handle		1				



### Stem Rasp



Ref. Number	Size (ø)
10610341006	6
10610341008	8
10610341010	10
10610341012	12
10610341014	14

### Modular Rasp Handle



Ref. Number  
10610011050

### Rasp Bar



Ref. Number  
10610001001

### Impactor



Ref. Number  
10607031301

### Bone Hook Sharp



Ref. Number  
10602041001

### Gauge For Femoral Head



Ref. Number  
10608021011

### Straight Chisel



Ref. Number  
10605210002

### Curved Chisel



Ref. Number  
10605210001

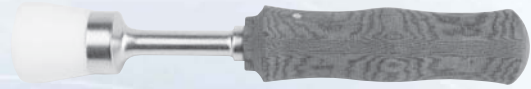


Guj Curette



Ref. Number  
10605210003

Femoral Head Impactor



Ref. Number  
10607020003

Spoon Curette



Ref. Number  
10605210005

Curette



Ref. Number  
10605210004

Hohmann Retractor



Ref. Number  
10602101101

Hohmann Retractor



Ref. Number  
10602101102

Medullary Awl Reamer



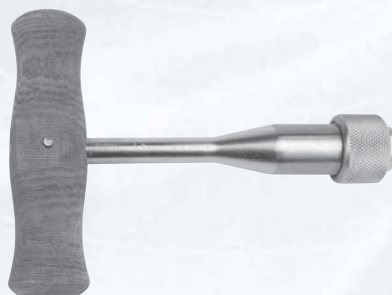
Ref. Number  
10610331003

Test Heads



Ref. Number	Size
10236018001	S
10236018002	M
10236018003	L

T-Handle



Ref. Number  
10610040001





## Section of Modular Hip Prostheses uncemented

### Modular Straight Stem Titanium, uncemented

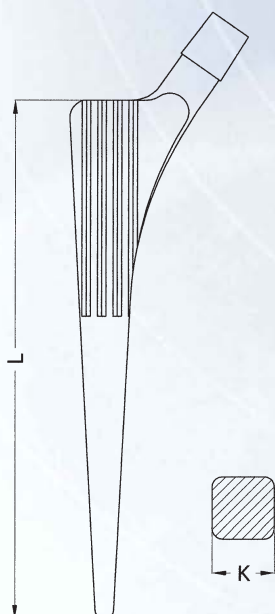
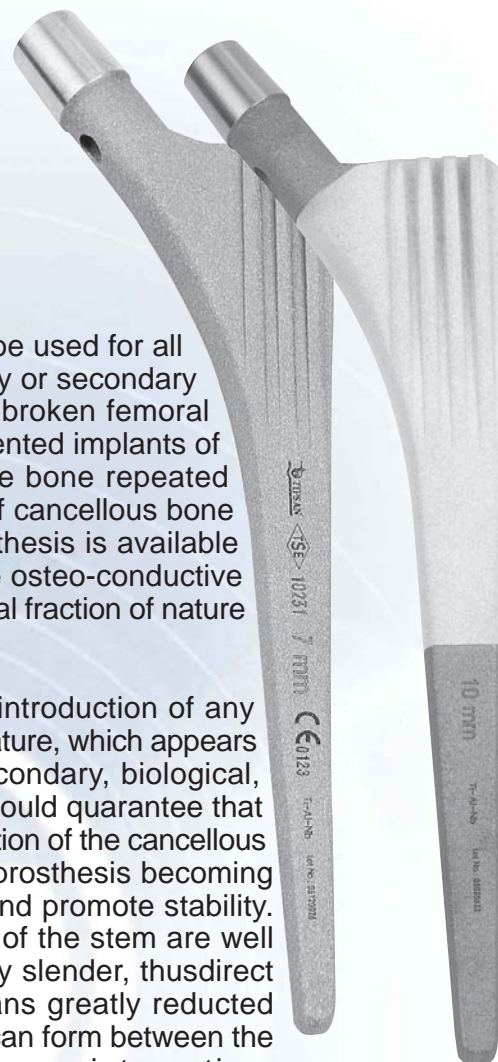
### Modular Geradschaft Titanium, unzementiert

### Tige droite modulaire, non-cimentée

**Indication** : It is a non-cemented, total hip prosthesis. It can be used for all the classical indications of total hip arthroplasty such as primary or secondary hip osteoarthritis, rheumatic coxitis, avascular necroses and broken femoral neck. Neither age, osteoporosis nor modifications to non-cemented implants of this type. In revision surgery with limited amount of available bone repeated cementings are illogical and disappointing. With the addition of cancellous bone grafts, this prosthesis is a very efficient alternative. This prosthesis is available with hydroxapatite (C.H.A) coating. Its C.H.A coating uses the osteo-conductive qualities of this efficient biomaterial, which reproduces the mineral fraction of nature bone. This similarity allows,

- to mislead the organism defenses,
- to avoid fibrous encapsulation-the natural response to the introduction of any foreign substance and to create a remarkable link, of chemical nature, which appears shortly after the operation, and is very strong. It ensures secondary, biological, active stability. The fixation of the stem in the proximal area should guarantee that transmission of the force is retained within this area. the interposition of the cancellous structure reduces the danger of the bond between bone and prosthesis becoming stiff. On introduction, the axial ribs exercise a cutting action and promote stability. In order to avoid tension peaks, the surface of the distal part of the stem are well rounded. The shape of distal part of the stem is kept relatively slender, thus direct contact with the cortex is where possible avoided. This means greatly reduced incidence of pain for the patient, plus the trabecular structures can form between the cortex and implant, which eventually result in osseointegration.

**Material** : Forged titanium alloy according to ASTM F.136 - ISO 5832/3 Selected for its; modulus of elasticity closes to that of living bone, high fatigue strength and perfect biocompatibility.



Ref. Number Titanium	Ref. Number Titanium (H.A.)	Stem Sizes K mm	Stem Length L mm	Cone Size mm
10212012001	10212112070	7.0	142.8	12/14
10212012002	10212112080	8.0	146.4	12/14
10212012003	10212112090	9.0	150.0	12/14
10212012004	10212112100	10.00	153.5	12/14
10212012005	10212112112	11.25	158.0	12/14
10212012006	10212112125	12.50	162.5	12/14
10212012008	10212112150	15.00	171.5	12/14
10212012010	10212112175	17.50	180.5	12/14



**Modular Straight Stem Uncemented  
Complete Instrumentation Set**

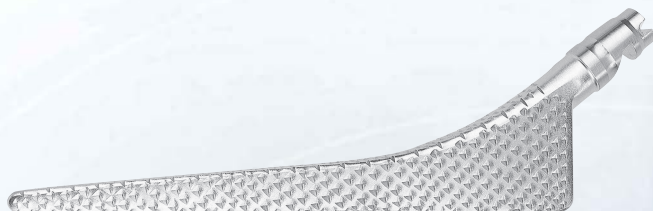


**Ref. Number  
18003020011**

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10610011051	Modular Prosthesis Rasp	7.00	1	10607031330	Repositioning Lever		1
10610011052	Modular Prosthesis Rasp	8.00	1	10607031332	Repositioning Lever Synthetic Top		1
10610011053	Modular Prosthesis Rasp	9.00	1	10607031335	Repositioning Top		1
10610011054	Modular Prosthesis Rasp	10.00	1	10607031301	Impactor		1
10610011055	Modular Prosthesis Rasp	11.25	1	10606100001	Femoral Head Extractor		1
10610011056	Modular Prosthesis Rasp	12.50	1	10605210005	Spoon Curette		1
10610331003	Medullary Awl Reamer		1	10605210004	Curette		1
10610011050	Modular Rasp Handle		1	10605210003	Guj Curette		1
10610001001	Rasp Bar		1	10605210002	Straight Chisel		1
10608280011	Test Head ø 28 mm 12/14	S	1	10605210001	Curved Chisel		1
10608280012	Test Head ø 28 mm 12/14	M	1	10602101101	Hohmann Retractor	No.1	1
10608280013	Test Head ø 28 mm 12/14	L	1	10602101102	Hohmann Retractor	No.2	1
10608021011	Gauge For Femoral Head		1				



### Prosthesis Rasp



Ref. Number	Size (ø)
10610011051	7.00
10610011052	8.00
10610011053	9.00
10610011054	10.00
10610011055	11.25
10610011056	12.50

### Medullary Awl Reamer



Ref. Number  
10610331003

### Modular Rasp Handle



Ref. Number  
10610011050

### Rasp Bar



Ref. Number  
10610001001

### Impactor



Ref. Number  
10607031301

### Spoon Curette



Ref. Number  
10605210005

### Curette



Ref. Number  
10605210004

### Straight Chisel



Ref. Number  
10605210002

### Curved Chisel



Ref. Number  
10605210001



Guj Curette



Ref. Number  
10605210003

Impactor



Ref. Number  
10607020003

Hohmann Retractor



Ref. Number  
10602101101

Hohmann Retractor



Ref. Number  
10602101102

Repositioning Lever



Ref. Number  
10607031330

Repositioning Lever Synthetic Top



Ref. Number  
10607031332

Repositioning Top



Ref. Number  
10607031335

Gauge For Femoral Head



Ref. Number  
10608021011

Femoral Head Extractor



Ref. Number  
10606100001

Test Heads



Ref. Number	Size
10608280011	S
10608280012	M
10608280013	L



## Section of Modular Hip Prostheses uncemented

### DHP Hip Prosthesis, uncemented

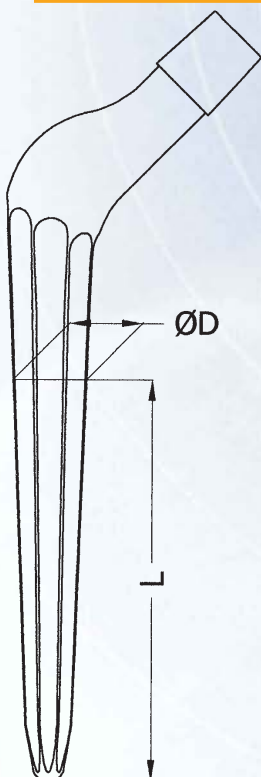
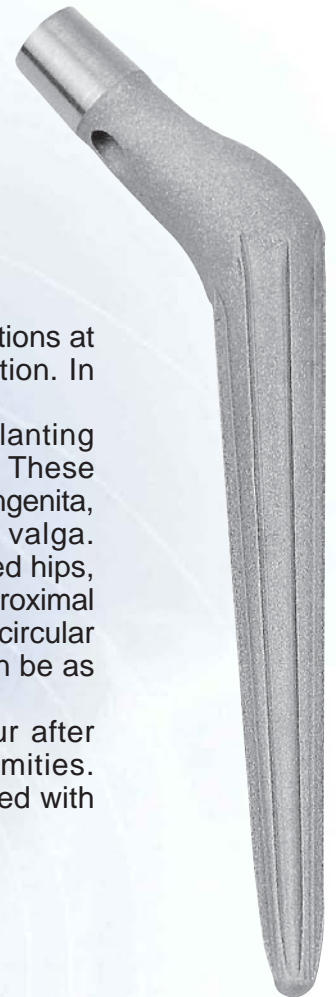
### DHP Hüftprothese, unzementiert

### Prothèse de DHP, non-cimentée

**Indication** : The DHP hip prosthesis primary is used for difficult bone conditions at the proximal end of the femur and where it has the most important indication. In particular these are;

- Cylindrical configuration of the proximal medullary cavity where implanting conventionally shaped prosthesis stem can lead to splitting of the bone. These conditions are mainly found in congenitally dislocated hips and in coxa vara congenita, in addition with very fine bone structures, often combined with coxa valga.
- Increased anterversion of the neck of the femur, with congenitally dislocated hips, where, even after resection of the neck of the femur. The cross-section of the proximal medullary cavity forces stem with a flat or oval profile into anterversion. With circular cross-section of the shaft of the DHP prosthesis, the anterversion angle can be as desired.
- Deformities and osseous cicatrization of the proximal end of the femur after osteotomies, fractures and growth disorders or with congenital deformities. The DHP hip prostheses with diameters 13 mm and 14 mm may not be used with a head for hemi prostheses.

**Material** : The DHP hip prosthesis is manufactured from titanium Ti6Al4v alloy according to ASTM F.136 - ISO 5832/3 which has been specifically designed for manufacture of orthopaedic implants. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiormechnical strenght. The roughened surface finish also plays a vital role in the osseointegration.



Ref. Number Titanium	Stem Sizes	Stem Length L mm	Cone Size mm
10267012013	13	80.5	12/14
10267012014	14	90.0	12/14
10267012015	15	90.0	12/14
10267012016	16	90.0	12/14
10267012017	17	90.0	12/14
10267012018	18	90.0	12/14
10267012019	19	90.0	12/14
10267012020	20	90.0	12/14
10267012021	21	90.0	12/14
10267012022	22	90.0	12/14
10267012023	23	90.0	12/14
10267012024	24	90.0	12/14



## Section of Modular Hip Prostheses uncemented

### Revision Stem, uncemented

### Revisionschaft, unzementiert

### Tige de reprise, non-cimentée

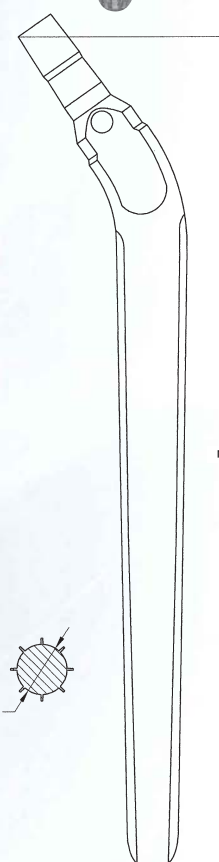
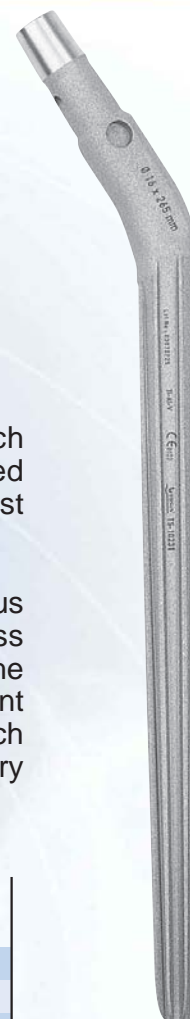
**Indication** : Revision of a loose prostheses (primary of revision care) in which proximal anchoring in the metaphysis is no longer possible owing to pronounced damage to the bony implant bed, and in which anchoring of a new implant must occur exclusively in the diaphysis.

-Revision in periprosthetic fractures

-Primary care in multi segmental fractures of the proximal femur, with simultaneous severe coxarthrosis. The revision prosthesis has been develop for cementless application. The conical design permits stable anchorage of the prosthesis within the femoral medullary canal. The revision stem is available in four lengths with different diameters, enabling the surgeon to select the most appropriate implants for each individual procedure upon the severity of the bone loss and width of the medullary canal. The prosthesis feature eight longitudinal ribs or equal heigh, which guarantees rotational stability of the implant after impaction. The wedging principle is facilitated by the conical and straight stem geometry. The wedging effect is magnified should any subsidence occur, ensuring prosthetic stability. The 145° cervico-diapyseal angle has been selected as it permits smaller torque forces on the femur, which significant advantages, especially during standing from a chair and / or climbing stairs. The cone angle is a standard 12/14 taper, allowing standard metal heads to be used.

**Material** : The revision stem is manufactured from titanium Ti6Al4V according to ASTM F.136 - ISO 5832/3 which has been specifically designed for the manufacture of orthopaedic implants. This alloy is characterized by demonstrating excellent biocompatibility, together with a high resistance of corrosion and superiormechnical strength. The roughened surface finish also plays a vital role in the osseointegration.

Ref. Number Titanium	Stem Size D mm	Cone Size mm	Stem Length L mm
10214002001	14	12/14	190
10214002002	15	12/14	190
10214002003	16	12/14	190
10214002004	17	12/14	190
10214002005	18	12/14	190
10214002006	19	12/14	190
10214002007	20	12/14	190
10214002008	14	12/14	225
10214002009	15	12/14	225
10214002010	16	12/14	225
10214002011	17	12/14	225
10214002012	18	12/14	225
10214002013	19	12/14	225
10214002014	20	12/14	225
10214002015	14	12/14	265
10214002016	15	12/14	265
10214002017	16	12/14	265
10214002018	17	12/14	265
10214002019	18	12/14	265
10214002020	19	12/14	265
10214002021	20	12/14	265
10214002022	14	12/14	305
10214002023	15	12/14	305
10214002024	16	12/14	305
10214002025	17	12/14	305
10214002026	18	12/14	305
10214002027	19	12/14	305
10214002028	20	12/14	305





## Section of Modular Hip Prostheses cemented

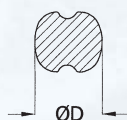
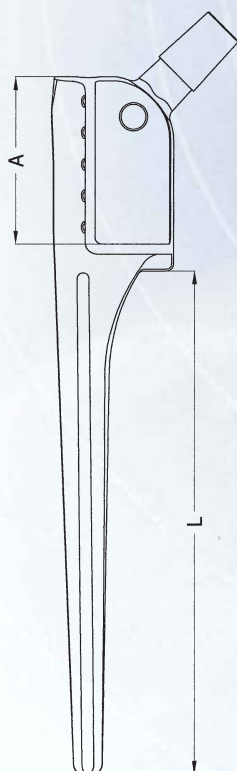
TMK-1 Modular Revision Stem , cemented

TMK-1 Modular Revisionschaft , zementiert

Tige de reprise modulaire TMK-1, cimentée

**Indication** : Used for hip arthroplasty in cases of hip fractures when collapse of the neck structure has occurred and revision arthroplasty where there is significant loss of bone stock in the region of the calcar. Specially for large deficits in the calcar region and severe proximal bone loss, the calcar replacement femoral stem allows customization via its proximal segments. The calcar series offers 38-48 and 58 mm resection levels to compensate for bone deficiencies in the proximal/medial portion of the femur. In addition to the three resection levels, the stems are offered in three different diameters 8-10-12 mm. Diameter 8 mm component has standard 140 mm stem length, other stem diameters 10-12 mm offered with 150 mm stem length. These components are specifically designed to conform and match with the patient's anatomy. The keel, located below the medial collar provides the additional rotational stability that has been reduced due to medial bone loss. Three dimensional Interlock grit blast all over on the stem surface provides increased fixation at the prosthesis/cement interface compared with that of traditional smooth surface implants. The angle of the neck is 135° for all size, while neck length increases in line with the prosthesis diameter. Also prosthesis has a cone 12/14 taper 5° 42'.

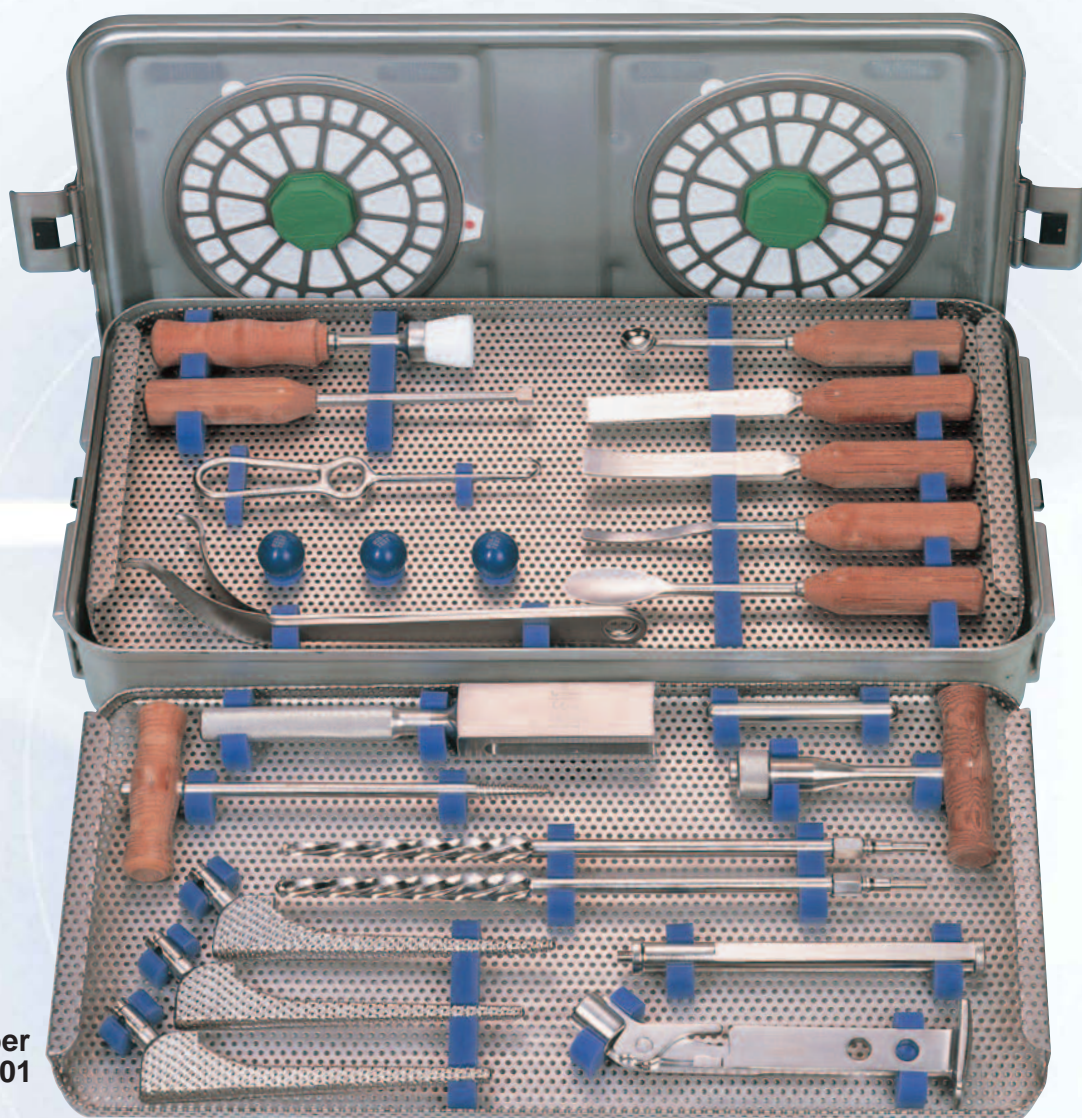
**Material** : It is manufactured from casting Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This alloy is characterized by demonstrating excellent biocompatibility together with a high resistance of corrosion and superiomechanical strenght.



Ref. Number Co.Cr-alloy	Stem		Stem Length L mm	Cone Size mm	Resection Level A mm
	mm	Size			
10211083001	8.0	Small	140	12/14	38
10211083002	8.0	Medium	140	12/14	48
10211083003	8.0	Large	140	12/14	58
10211103001	10.0	Small	150	12/14	38
10211103002	10.0	Medium	150	12/14	48
10211103003	10.0	Large	150	12/14	58
10211123001	12.0	Small	150	12/14	38
10211123002	12.0	Medium	150	12/14	48
10211123003	12.0	Large	150	12/14	58



**TMK-1 Modular Revision Stem  
Complete Instrumentation Set**



**Ref. Number  
18003130001**

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10610320800	Prosthesis Body Rasp	ø 8	1	10602041002	Bone Hook Blunt		1
10610321001	Prosthesis Body Rasp	ø 10	1	10605210002	Straight Chisel		1
10610321201	Prosthesis Body Rasp	ø 12	1	10605210001	Curved Chisel		1
10610040001	T-handle		1	10605210003	Guj Curette		1
10610321299	Medullary Awl Reamer	ø 8	1	10607020003	Impactor		1
10610321301	Medullary Awl Reamer	ø 10	1	10602101101	Hohmann Retractor	No.1	1
10610321321	Medullary Awl Reamer	ø 12	1	10602101102	Hohmann Retractor	No.2	1
10236018001	Test Head Ø 28 mm 12/14	S	1	10607031311	Impactor Pim		1
10236018002	Test Head Ø 28 mm 12/14	M	1	10607011102	Slotted Hammer		1
10236018003	Test Head Ø 28 mm 12/14	L	1	10605230011	Canal Chisel		1
10610001001	Rasp Bar		1	10610011050	Modular Rasp Handle		1
10605210004	Curette		1	10606100001	Femoral Head Extractor		1
10605210005	Spoon Curette		1	10608021011	Gauge for Femoral Head		1





**Prosthesis Body Rasp**



Ref. Number	Size (ø)
10610320800	8
10610321001	10
10610321201	12

**Gauge For Femoral Head**



**Ref. Number  
10608021011**

**Medullary Awl Reamer**



Ref. Number	Size (ø)
10610321299	8
10610321301	10
10610321321	12

**Modular Rasp Handle**



**Ref. Number  
10610011050**

**Rasp Bar**



**Ref. Number  
10610001001**

**Curette**



**Ref. Number  
10605210004**

**Spoon Curette**



**Ref. Number  
10605210005**

**Bone Hook Blunt**



**Ref. Number  
10602041002**

**Straight Chisel**



**Ref. Number  
10605210002**

**Curved Chisel**



**Ref. Number  
10605210001**



**Guj Curette**



**Ref. Number**  
**10605210003**

**Impactor**



**Ref. Number**  
**10607020003**

**Hohmann Retractor**



**Ref. Number**  
**10602101101**

**Hohmann Retractor**



**Ref. Number**  
**10602101102**

**Impactor Pim**



**Ref. Number**  
**10607031311**

**Slotted Hammer**



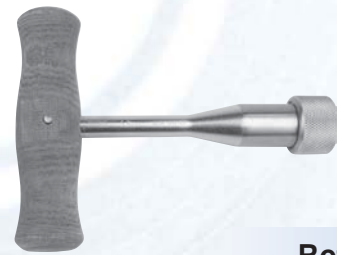
**Ref. Number**  
**10607011102**

**Canal Chisel**



**Ref. Number**  
**10605230011**

**T-Handle**



**Ref. Number**  
**10610040001**

**Femoral Head Extractor**



**Ref. Number**  
**10606100001**

**Test Heads**



Ref. Number	Size
10236018001	S
10236018002	M
10236018003	L



## Section of Modular Hip Prostheses uncemented

### T-2 Revision Hip Prosthesis, uncemented

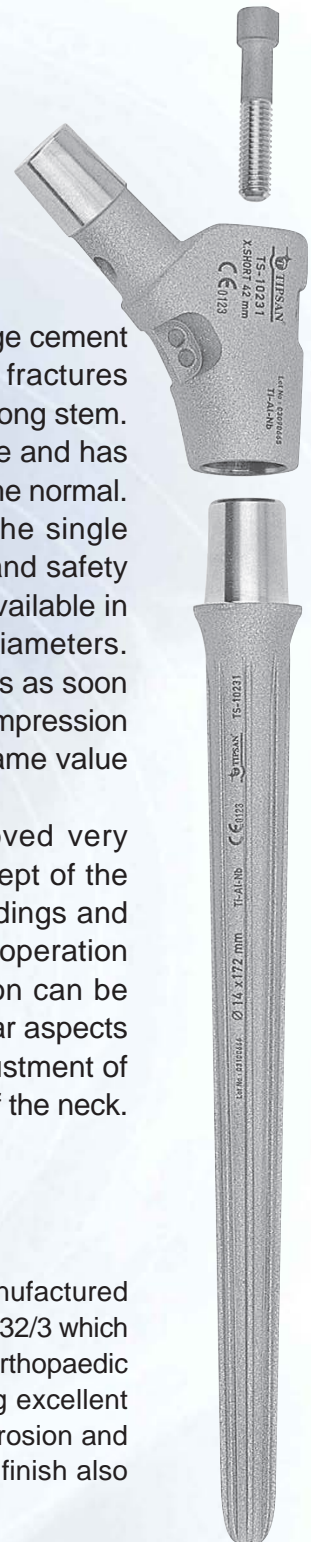
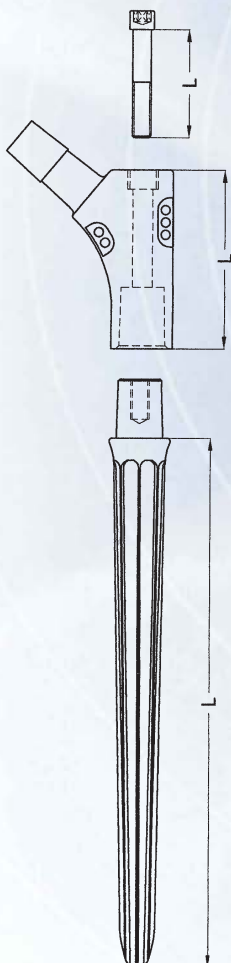
### T-2 Revision Hüftprothese, unzementiert

### Tige de reprise T-2, non-cimentée

**Indication** : In revision arthroplasty especially in cases of osteolysis or large cement mantels the extended femoral defects can cause intraoperatively shaft fractures when removing the stem. The defects and fractures must be bridged by a long stem. The implant has to be adapted exactly to the diameter of the cortical tube and has to be placed distally beyond the pathologic area where stress pattern become normal. The modular hip revision implant system Ti6Al4V Eli-alloy consist of the single modular elements, stems, proximal body (with or without tendon holes) and safety screw. All elements are able to be fixed rotationally free. The stems are available in three different length of 142-172-212 mm straight with eight different diameters. These components do really guarantee to solve all intraoperative situations as soon as the surgeon sees the defect during revision. A torque limiter fixes the compression force between the single modules always at the same value of torque.

The type 2 revision hip surgery has been proved very successfully for femoral deficiency. Modular concept of the system allows to manage each intraoperative findings and especially changing situations. Each step of the operation is reversible and intraoperative changing situation can be easily managed proceeding operation. The modular aspects of the design allow appropriate intraoperative adjustment of the length of prosthesis and angle of anteverision of the neck.

**Material** : The T-2 revision hip prosthesis is manufactured from titanium Ti6Al4V according to ASTM F.136 - ISO 5832/3 which has been specifically designed for the manufacture of orthopaedic implants. This alloy is characterized by demonstrating excellent biocompatibility, together with a high resistance of corrosion and superiormechnical strength. The roughened surface finish also plays a vital role in the osseointegration.





**T-2 Revision Hip Prosthesis Body with Tendon Holes**



Ref. Number Titanium	Size	Length L mm
10255032042	X Short	42
10255032048	Short	48
10255032058	Medium	58
10255032068	Long	68

**T-2 Revision Hip Prosthesis Body Standard**



Ref. Number Titanium	Size	Length L mm
10255012042	X Short	42
10255012048	Short	48
10255012058	Medium	58
10255012068	Long	68



**T-2 Revision Hip Prosthesis Stem uncemented**



Ref. Number Titanium	Stem Size D mm	Stem Length L mm	Cone Size mm
10255132142	13	142	12/14
10255132172	13	172	12/14
10255132212	13	212	12/14
10255142142	14	142	12/14
10255142172	14	172	12/14
10255142212	14	212	12/14
10255152142	15	142	12/14
10255152172	15	172	12/14
10255152212	15	212	12/14
10255162142	16	142	12/14
10255162172	16	172	12/14
10255162212	16	212	12/14
10255172142	17	142	12/14
10255172172	17	172	12/14
10255172212	17	212	12/14
10255182142	18	142	12/14
10255182172	18	172	12/14
10255182212	18	212	12/14
10255192142	19	142	12/14
10255192172	19	172	12/14
10255192212	19	212	12/14
10255202142	20	142	12/14
10255202172	20	172	12/14
10255202212	20	212	12/14

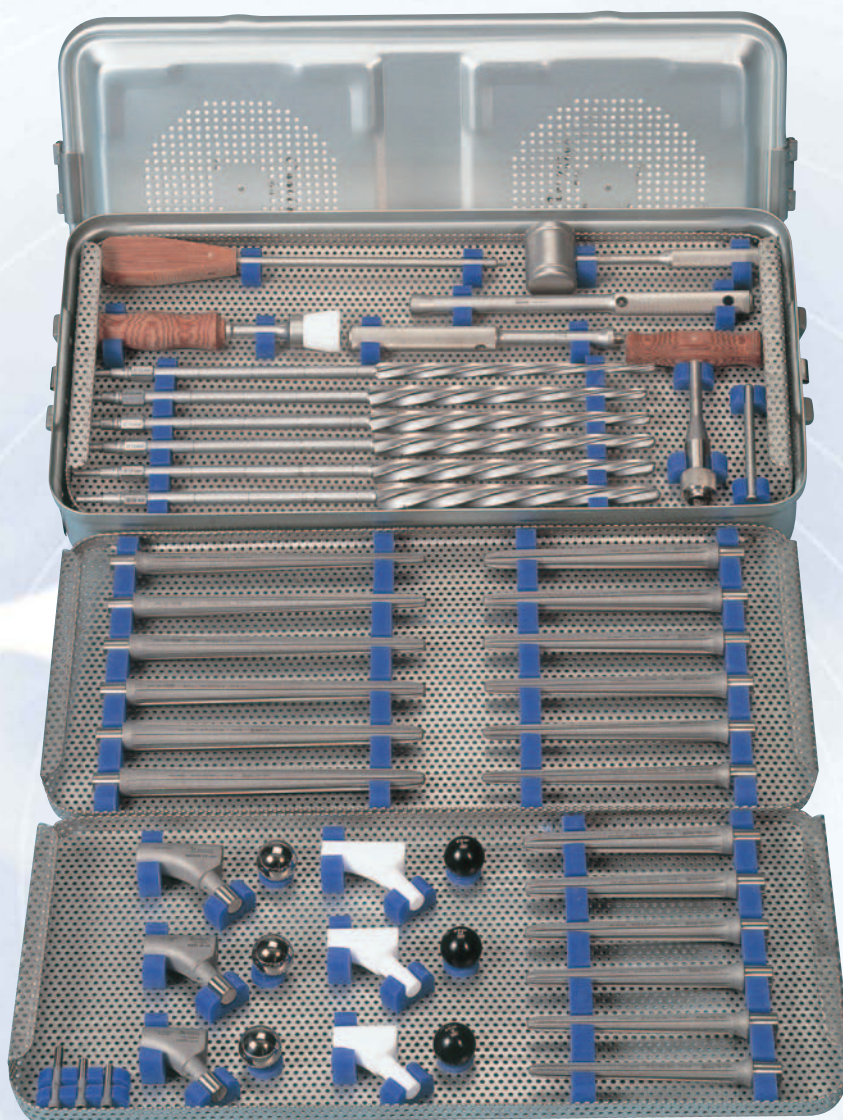
**T-2 Revision Hip Prosthesis Fixation Bolt**



Ref. Number Titanium	Size	Length L mm
10255022029	X Short	29
10255022035	Short	35
10255022045	Medium	45
10255022055	Long	55



**T-2 Revision Hip Prosthesis  
Complete Instrumentation Set**



**Ref. Number : 18003080001**

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10607020003	Modular Head Impactor		1	10236018001	Modular Test Head ø 28mm 12/14	S	1
10610040001	T-Handle		1	10236018002	Modular Test Head ø 28mm 12/14	M	1
10607011002	Hammer		1	10236018003	Modular Test Head ø 28mm 12/14	L	1
10607121001	Impactor Bar		1	10236011001	Modular Head ø 28mm 12/14	S	1
10607121002	Shaft Impactor		1	10236011002	Modular Head ø 28mm 12/14	M	1
10607121003	Body Impactor		1	10236011003	Modular Head ø 28mm 12/14	L	1
10610131013	Reamer	13	1	10255018042	T2 Revision Hip Prosthesis Test Body	XS	1
10610131014	Reamer	14	1	10255018048	T2 Revision Hip Prosthesis Test Body	S	1
10610131015	Reamer	15	1	10255018058	T2 Revision Hip Prosthesis Test Body	M	1
10610131016	Reamer	16	1	10255032042	T2 Revision Hip Prosthesis Body	XS	1
10610131017	Reamer	17	1	10255032048	T2 Revision Hip Prosthesis Body	S	1
10610131018	Reamer	18	1	10255032058	T2 Revision Hip Prosthesis Body	M	1
10604010004	Cortical Screwdriver	Long	1	10255022029	T-2 Fixation Bolt 29mm	XS	1
10255132/182	T-2 Revision Stem	13-18	18	10255022035	T-2 Fixation Bolt 35mm	S	1
10608021011	Gauge for Femoral Head		1	10255022045	T-2 Fixation Bolt 45mm	M	1



### T-2 Revision Hip Prosthesis Body Standard



Ref. Number Titanium	Size K mm	Length L mm
10255012042	X Short	42
10255012048	Short	48
10255012058	Medium	58

### T-2 Revision Hip Prosthesis Test Body



Ref. Number	Size
10255018042	X Short
10255018048	Short
10255018058	Medium

### Reamer



Ref. Number	Size ( $\phi$ )
10610131013	13
10610131014	14
10610131015	15
10610131016	16
10610131017	17
10610131018	18

### T-2 Revision Hip Prosthesis Fixation Bolt



Ref. Number Titanium	Size K mm	Length L mm
10255022029	X Short	29
10255022035	Short	35
10255022045	Medium	45
10255022055	Long	55

### T-2 Revision Hip Prosthesis Stem uncemented



Ref. Number Titanium	Stem Size K mm	Stem Length L mm	Cone Size mm
10255132142	13	142	12/14
10255132172	13	172	12/14
10255132212	13	212	12/14
10255142142	14	142	12/14
10255142172	14	172	12/14
10255142212	14	212	12/14
10255152142	15	142	12/14
10255152172	15	172	12/14
10255152212	15	212	12/14
10255162142	16	142	12/14
10255162172	16	172	12/14
10255162212	16	212	12/14
10255172142	17	142	12/14
10255172172	17	172	12/14
10255172212	17	212	12/14
10255182142	18	142	12/14
10255182172	18	172	12/14
10255182212	18	212	12/14



Screwdriver  
(Long)



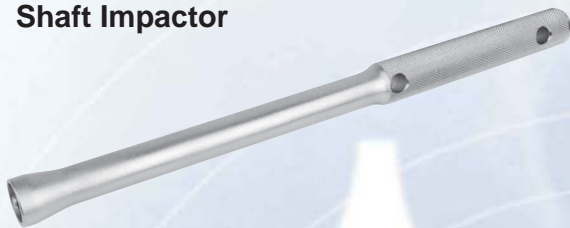
Ref. Number  
10604010004

Hammer  
(500gr)



Ref. Number  
10607011002

Shaft Impactor



Ref. Number  
10607121002

Gauge For Femoral Head



Ref. Number  
10608021011

Body Impactor



Ref. Number  
10607121003

Modular Head Impactor



Ref. Number  
10607020003

T-Handle



Ref. Number  
10610040001

Impactor Bar



Ref. Number  
10607121001

Modular Head  $\varnothing$ 28 mm 12/14



Ref. Number	Size
10236011001	S
10236011002	M
10236011003	L

Modular Test Head



Ref. Number	Size
10236018001	S
10236018002	M
10236018003	L



### Section of Modular Hip Prostheses cemented

Modular Tumor Resection Hip Prosthesis,  
cemented

Modulare Tumor Resektion Hüftprothese,  
zementiert

Tige modulaire de tumeur résection,  
cimentée

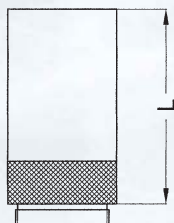
**Indication :** The cemented modular tumor resection prosthesis system was designed for cases of large resection of the proximal femur as primary tumors, metastases, revisions with bone resorption and severe epiphysial trauma. In order to obtain the highest number solution with a low number of components, a modular structure made up of stem, buttom cover, spacer and single proximal femoral body, has been conceived, where every component is assembled by a fixation screw connection. The stem feature eight longitudinal ribs or equal high, which guarantees rotational stability of the implant after impaction. The roughened surface finish also plays a vital role in the osseointegration. Suitable for both right and left femur.

**Material :** The modular tumor resection hip prosthesis system is manufactured from titanium Ti6Al4V according to ASTM F.136 - ISO 5832/3 which has been specifically designed for the manufacture of orthopaedic implants. This alloy is characterized by demonstrating excellent biocompatibility, together with a high resistance of corrosion and superiormechnical strength. The roughened surface finish also plays a vital role in the osseointegration.



### ExtansionPieces

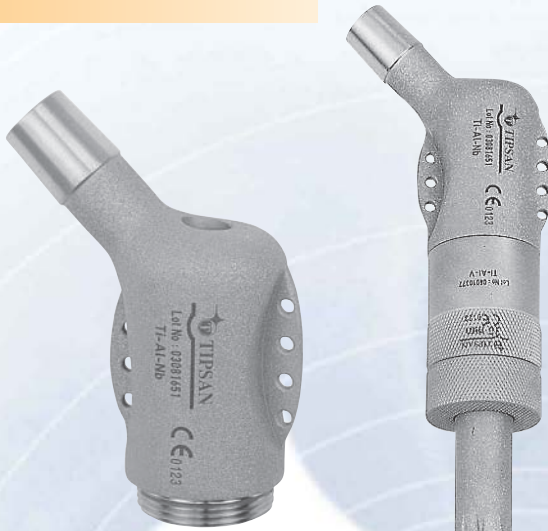
Ref. Number Titanium	Length (mm)
10245032001	10
10245032002	20
10245032003	30
10245032004	40
10245032005	50
10245032006	60
10245032007	80





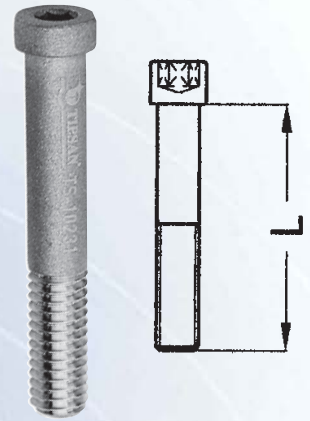


Proximal Femur Body



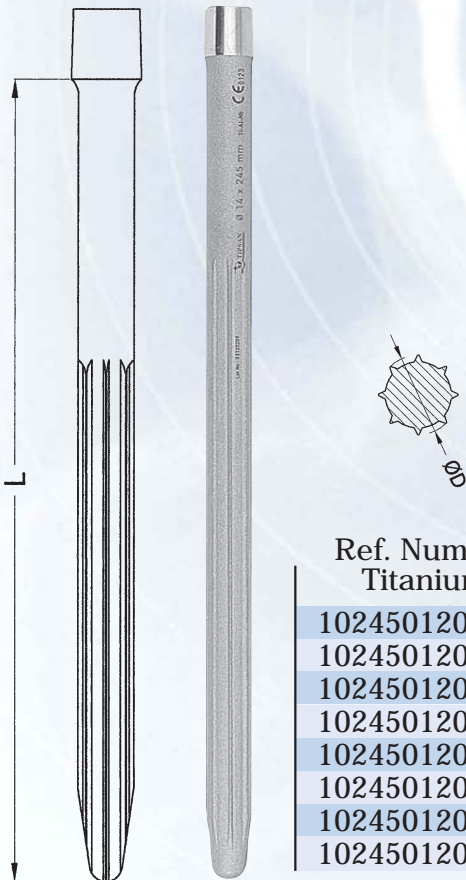
Ref. Number  
10245022001

Fixation Bolt



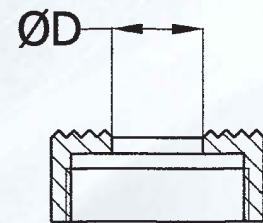
Ref. Number Titanium	Length (L mm)
10808062001	37

Modular Femoral Stem



Ref. Number Titanium	Size ( $\varnothing$ )	Length (mm)
10245012001	11	245
10245012002	11	285
10245012003	12	245
10245012004	12	285
10245012005	14	245
10245012006	14	285
10245012007	16	245
10245012008	16	285

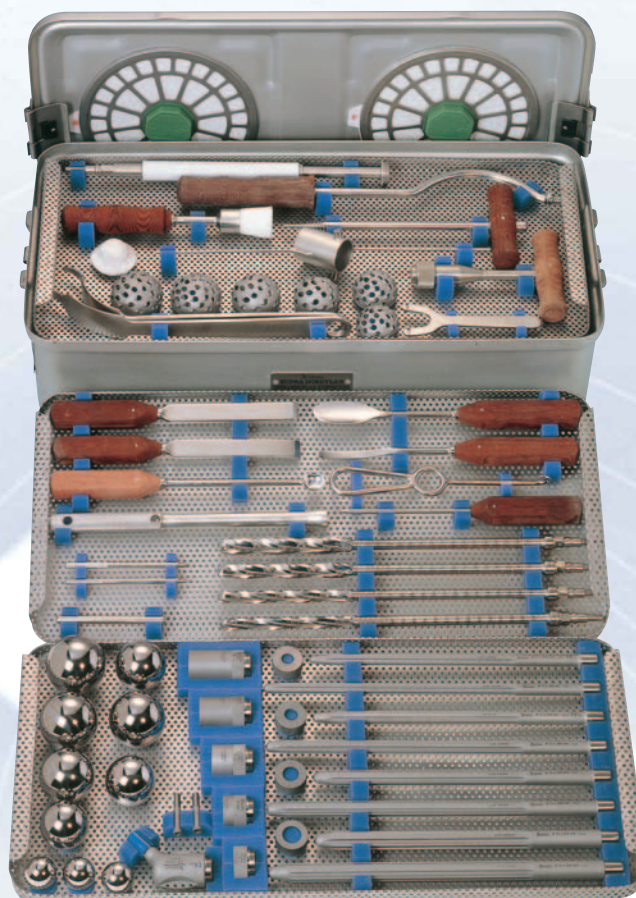
Bottom Cover



Ref. Number Titanium	Size (mm)
10245032101	11
10245032102	12
10245032103	14
10245032104	16



Modular Tumor Resection  
Implants & Instrumentation Set



Ref. Number  
18003030001

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10610040001	T-handle for Reamer		1	10245022001	Proximal Femoral Body		1
10610041001	Femoral Stem Reamer	11	1	10245012001	Femoral Stem	11x245	1
10610041002	Femoral Stem Reamer	12	1	10245012002	Femoral Stem	11x285	1
10610041003	Femoral Stem Reamer	14	1	10245012003	Femoral Stem	12x245	1
10610041004	Femoral Stem Reamer	16	1	10245012004	Femoral Stem	12x285	1
10607070001	Impactor		1	10245012005	Femoral Stem	14x245	1
10604010002	Screwdriver	3.5	1	10245012006	Femoral Stem	14x285	1
10602090001	Cup Inserting Device		1	10245012007	Femoral Stem	16x245	1
10602091002	Positioning Metal Cup	28	1	10245012008	Femoral Stem	16x285	1
10605210004	Curette		1	10245032001	Extension Pieces	10	1
10606100001	Femoral Head Extractor		1	10245032002	Extension Pieces	20	1
10610021101	Acetabular Reamer Shaft		1	10245032003	Extension Pieces	30	1
10610021004	Acetabular Reamer	44	1	10245032004	Extension Pieces	40	1
10610021005	Acetabular Reamer	46	1	10245032005	Extension Pieces	50	1
10610021006	Acetabular Reamer	48	1	10245032101	Bottom Cover	11	1
10610021007	Acetabular Reamer	50	1	10245032102	Bottom Cover	12	1
10610021008	Acetabular Reamer	52	1	10245032103	Bottom Cover	14	1
10610021009	Acetabular Reamer	54	1	10245032104	Bottom Cover	16	1
10604001011	Wrench for Acetabular Reamer		1	10236011001	Modular Head ø 28 - 12/14	S	1
10605210002	Straight Chisel		1	10236011002	Modular Head ø 28 - 12/14	M	1
10605210001	Curved Chisel		1	10236011003	Modular Head ø 28 - 12/14	L	1
10605210003	Guj Curette		1	10224012005	Modular Head 12/14 Titanium	42	1
10605210005	Spoon Curette		1	10224012007	Modular Head 12/14 Titanium	44	1
10602101101	Hohmann Retractor	No.1	1	10224012009	Modular Head 12/14 Titanium	46	1
10602101102	Hohmann Retractor	No.2	1	10224012011	Modular Head 12/14 Titanium	48	1
10602041002	Bone Hook Blunt		1	10224012013	Modular Head 12/14 Titanium	50	1
10607121001	Impactor Bar		1	10224012015	Modular Head 12/14 Titanium	52	1
10607121002	Impactor Shaft		1	10224012017	Modular Head 12/14 Titanium	54	1
10808062001	Fixation Bolt		2	10608021011	Gauge for Femoral Head		1



### Femoral Stem Reamer



Ref. Number	Size (ø)
10610041001	11
10610041002	12
10610041003	14
10610041004	16

### Gauge For Femoral Head



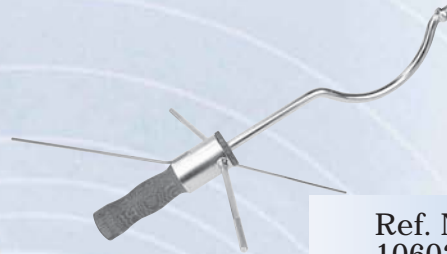
Ref. Number  
10608021011

### Positioning Metal Cup



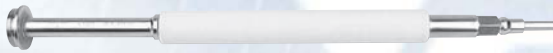
Ref. Number  
10602091002

### Cup Inserting Device



Ref. Number  
10602090001

### Acetabular Reamer Shaft



Ref. Number  
10610021101

### Impactor



Ref. Number  
10607031301

### Bone Hook Blunt



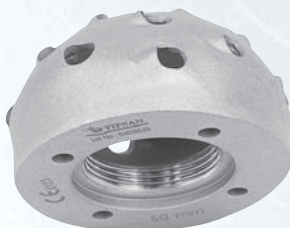
Ref. Number  
10602041002

### Wrench for Acetabular Reamer



Ref. Number  
10604001011

### Acetabular Reamer



Ref. Number	Size (ø)
10610021004	44
10610021005	46
10610021006	48
10610021007	50
10610021008	52
10610021009	54

### Impactor



Ref. Number  
10607070001



Spoon Curette



Ref. Number  
10605210005

Curette



Ref. Number  
10605210004

Guj Curette



Ref. Number  
10605210003

Hexagonal Head Screw Driver



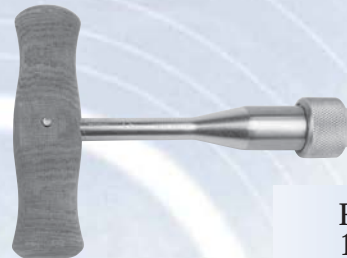
Ref. Number  
10604010002

Femoral Head Extractor



Ref. Number  
10606100001

T-Handle



Ref. Number  
10610040001

Straight Chisel



Ref. Number  
10605210002

Curved Chisel



Ref. Number  
10605210001

Hohmann Retractor



Ref. Number  
10602101101

Hohmann Retractor



Ref. Number  
10602101102

Shaft Impactor



Ref. Number  
10607121002

Impactor Bar



Ref. Number  
10607121001



## Section of Modular Hip Prostheses cemented

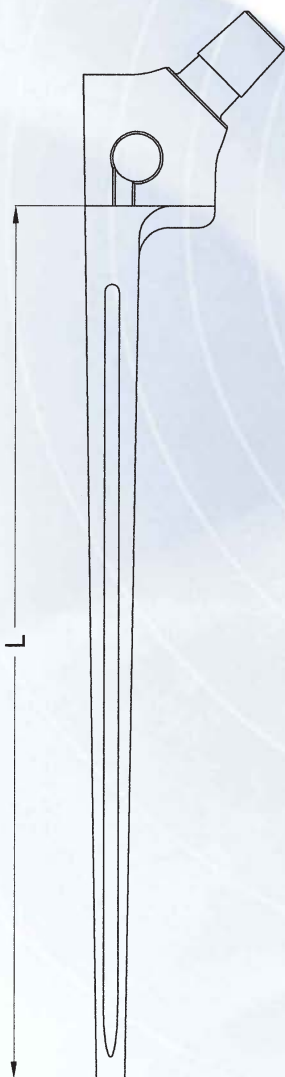
Leinbach Hip Prosthesis, cemented

Leinbach Hüftprothese, zementiert

Prothèse de Leinbach, cimentée

**Indication** : The Leinbach hip prosthesis can be used as a salvage procedure when a collapse of bone neck structure has occurred. It is a procedure in compensating for bone loss. A slightly thicker and longer stem affords stability. The prosthesis feature has a 135° degree stem/neck angle for an anatomic reconstruction. The neck has a taper 12/14 to accept a variety of head components. Three different length of stem available.

**Material** : The Leinbach hip prosthesis is manufactured from certified Stainless steel according to ASTM F.138 - ISO 5832/1. Co.Cr-alloy according to ASTM F.75 - ISO 5832/4



Ref. Number Stainless Steel	Ref. Number Co.Cr-alloy	Cone	Stem Length L mm	Sizes
10211011003	10211013003	12/14	150	Short
10211011001	10211013001	12/14	170	Medium
10211011002	10211013002	12/14	200	Long



Leinbach Hip Prosthesis  
Complete Instrumentation Set



Ref. Number : 18003040001

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10602041002	Bone Hook Blunt		1	10610011009	Monoblock Prosthesis Rasp	Short	1
10602101101	Hohmann Extractor	No.1	1	10610011008	Monoblock Prosthesis Rasp	Long	1
10602101102	Hohmann Extractor	No.2	1	10602090001	Cup Inserting Device		1
10605210001	Curved Chisel		1	10607020003	Femoral Head Impactor		1
10605210002	Straight Chisel		1	10602091002	Positioning Metal Top	28	1
10605210003	Guj Curette		1	10602091003	Positioning Metal Top	32	1
10605210004	Curette		1	10610021004	Acetabular Reamer	44	1
10605210005	Spoon Curette		1	10610021005	Acetabular Reamer	46	1
10607031301	Impactor		1	10610021006	Acetabular Reamer	48	1
10610040001	T-Handle		1	10610021007	Acetabular Reamer	50	1
10610001001	Rasp Bar		1	10610021008	Acetabular Reamer	52	1
10606100001	Femoral Head Extractor		1	10610021009	Acetabular Reamer	54	1
10610021101	Acetabular Reamer Shaft		1	10608021011	Gauge for Femoral Head		1
10604001011	Wrench for Acetabular Reamer		1				



Stem Rasp



Ref. Number	Size (ø)
10610011009	Short
10610011008	Long

Gauge For Femoral Head



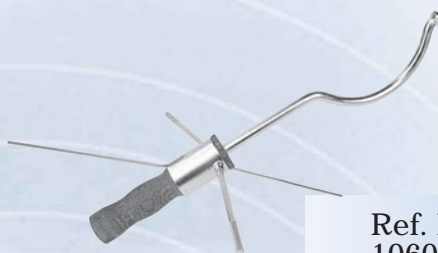
Ref. Number  
10608021011

Positioning Metal Cup



Ref. Number	Size (ø)
10602091002	28
10602091003	32

Cup Inserting Device



Ref. Number  
10602090001

Rasp Bar



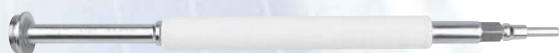
Ref. Number  
10610001001

Impactor



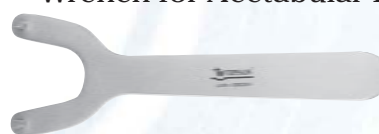
Ref. Number  
10607031301

Acetabular Reamer Shaft



Ref. Number  
10610021101

Wrench for Acetabular Reamer



Ref. Number  
10604001011

Bone Hook Blunt



Ref. Number  
10602041002

Acetabular Reamer



Ref. Number	Size (ø)
10610021004	44
10610021005	46
10610021006	48
10610021007	50
10610021008	52
10610021009	54



Spoon Curette



Ref. Number  
10605210005

Curette



Ref. Number  
10605210004

Guj Curette



Ref. Number  
10605210003

Femoral Head Impactor



Ref. Number  
10607020003

Femoral Head Extractor



Ref. Number  
10606100001

T-Handle



Ref. Number  
10610040001

Straight Chisel



Ref. Number  
10605210002

Curved Chisel



Ref. Number  
10605210001

Hohmann Retractor



Ref. Number  
10602101101

Hohmann Retractor



Ref. Number  
10602101102





## Section of Modular Hip Prostheses cemented

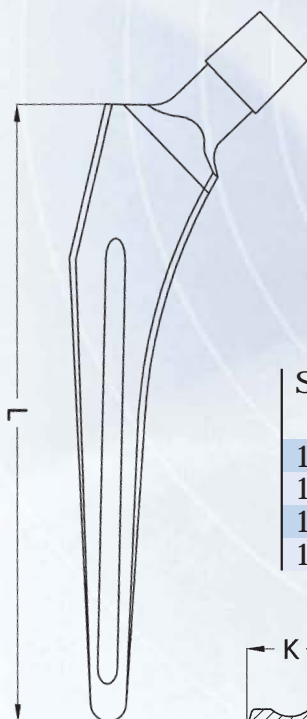
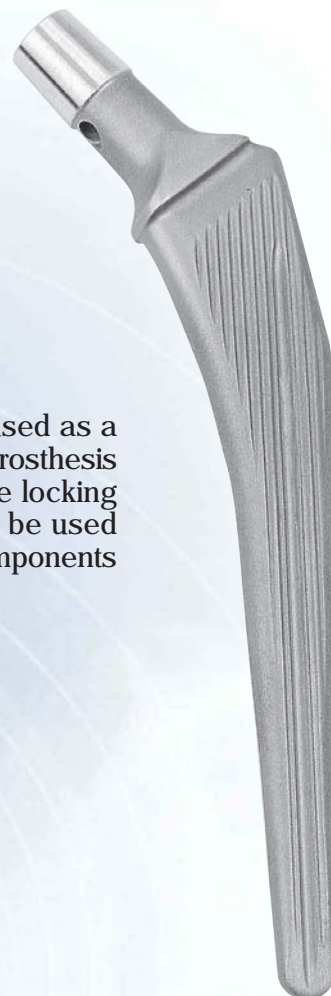
Modular Straight Stem, cemented

Modular Geradschaft, zementiert

Tige droite modulaire, cimentée

**Indication :** The modular straight stem hip prosthesis is designed to be used as a primary and revision total hip. The 4 stem sizes allow accurate matching of prosthesis to the medullary canal. The prosthesis offers dual fixation by combining the locking effect of a stem to bone contact, plus minimal bone cement support. May be used in conjunction with modular head cone 12/14 and polyethylene acetabular components for total articular replacement.

**Material :** Certified Stainless Steel according to ASTM F.138 ISO 5832/1. Available in titanium according to ASTM F.136 ISO 5832/3 and Co.Cr-alloy according to ASTM F.75 - ISO 5832/4



Ref. Number Stainless Steel	Ref. Number Titanium	Ref. Number Co.Cr-alloy	Stem Size K mm	Cone Size mm	Stem Length L mm
10206011001	10206012001	10206013001	7.5	12/14	137
10206011002	10206012002	10206013002	10.0	12/14	142
10206011003	10206012003	10206013003	12.5	12/14	147
10206011004	10206012004	10206013004	15.0	12/14	152



Section of Modular Hip Prostheses  
cemented

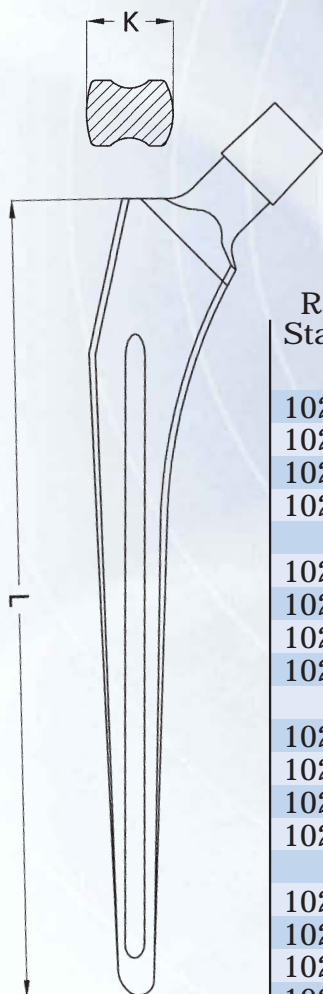
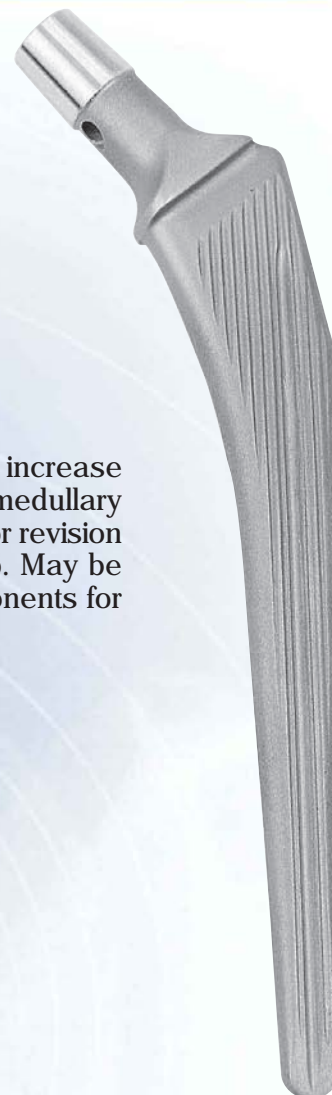
Modular Long Straight Stem, cemented

Modular Lang Geradschaft, zementiert

Tige droite modulaire long , cimentée

Indication : The modular long straight stem hip prosthesis allows for an increase in cross-sectional stem dimensions to more proportionately fill the intra-medullary canal and ensure implant stability. The stem can be used in either primary or revision cases where bone dimensions are too large for the standard primary hip. May be used in conjunction with modular head and polyethylene acetabular components for total articular replacement.

Material : Certified Stainless Steel according to ASTM F.138 ISO 5832/1. Available in titanium according to ASTM F.136 ISO 5832/3 and Co.Cr-alloy according to ASTM F.75 - ISO 5832/4



Ref. Number Stainless Steel	Ref. Number Titanium	Ref. Number Co.Cr-alloy	Stem Size K mm	Cone Size mm	Stem Length L mm
10207011001	10207012001	10207013001	7.5	12/14	180
10207011009	10207012009	10207013009	10.0	12/14	180
10207011017	10207012017	10207013017	12.5	12/14	180
10207011025	10207012025	10207013025	15.0	12/14	180
10207011003	10207012003	10207013003	7.5	12/14	200
10207011011	10207012011	10207013011	10.0	12/14	200
10207011019	10207012019	10207013019	12.5	12/14	200
10207011027	10207012027	10207013027	15.0	12/14	200
10207011005	10207012005	10207013005	7.5	12/14	220
10207011013	10207012013	10207013013	10.0	12/14	220
10207011021	10207012021	10207013021	12.5	12/14	220
10207011029	10207012029	10207013029	15.0	12/14	220
10207011007	10207012007	10207013007	7.5	12/14	240
10207011015	10207012015	10207013015	10.0	12/14	240
10207011023	10207012023	10207013023	12.5	12/14	240
10207011031	10207012031	10207013031	15.0	12/14	240



Modular Straight Stem Complete  
Instrumentation Set



Ref. Number : 18003050001

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10602041002	Bone Hook Blunt		1	10610021004	Acetabular Reamer	44	1
10602041001	Bone Hook Sharp		1	10610021005	Acetabular Reamer	46	1
10602101101	Hohmann Extractor	No.1	1	10610021006	Acetabular Reamer	48	1
10602101102	Hohmann Extractor	No.2	1	10610021007	Acetabular Reamer	50	1
10605210001	Curved Chisel		1	10610021008	Acetabular Reamer	52	1
10605210002	Straight Chisel		1	10610021009	Acetabular Reamer	54	1
10605210003	Guj Curette		1	10610011002	Monoblock Prosthesis Rasp	7.5	1
10605210004	Curette		1	10610011003	Monoblock Prosthesis Rasp	10.0	1
10605210005	Spoon Curette		1	10610011004	Monoblock Prosthesis Rasp	12.5	1
10607031301	Impactor		1	10610011005	Monoblock Prosthesis Rasp	15.0	1
10610040001	T-Handle		1	10602090001	Cup Inserting Device		1
10610001001	Rasp Bar		1	10607020003	Femoral Head Impactor		1
10606100001	Femoral Head Extractor		1	10602091001	Positioning Metal Top	22	1
10610021101	Acetabular Reamer Shaft		1	10602091002	Positioning Metal Top	28	1
10604001011	Wrench for Acetabular Reamer		1	10602091003	Positioning Metal Top	32	1
				10608021011	Gauge for Femoral Head		1



### Stem Rasp



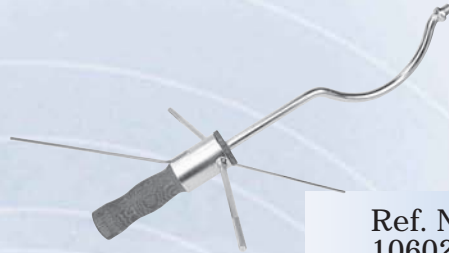
Ref. Number	Size (ø)
10610011002	7.5
10610011003	10.0
10610011004	12.5
10610011005	15.0

### Positioning Metal Cup



Ref. Number	Size (ø)
10602091001	22
10602091002	28
10602091003	32

### Cup Inserting Device



Ref. Number  
10602090001

### Rasp Bar



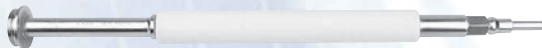
Ref. Number  
10610001001

### Impactor



Ref. Number  
10607031301

### Acetabular Reamer Shaft



Ref. Number  
10610021101

### Wrench for Acetabular Reamer



Ref. Number  
10604001011

### Bone Hook Sharp



Ref. Number  
10602041001

### Acetabular Reamer



### Bone Hook Blunt



Ref. Number  
10602041002

Ref. Number	Size (ø)
10610021004	44
10610021005	46
10610021006	48
10610021007	50
10610021008	52
10610021009	54



Spoon Curette



Ref. Number  
10605210005

Curette



Ref. Number  
10605210004

Guj Curette



Ref. Number  
10605210003

Femoral Head Impactor



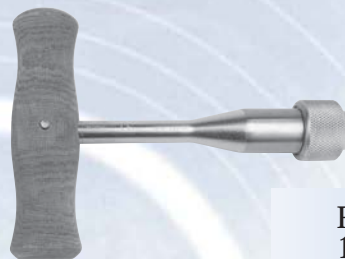
Ref. Number  
10607020003

Femoral Head Extractor



Ref. Number  
10606100001

T-Handle



Ref. Number  
10610040001

Straight Chisel



Ref. Number  
10605210002

Curved Chisel



Ref. Number  
10605210001

Hohmann Retractor



Ref. Number  
10602101101

Hohmann Retractor



Ref. Number  
10602101102

Gauge for Femoral Head



Ref. Number  
10608021011



Section of Modular Hip Prostheses  
cemented

CDH Modular Straight Stem, cemented

CDH Modular Geradschaft, zementiert

Tige droite modulaire CDH, cimentée

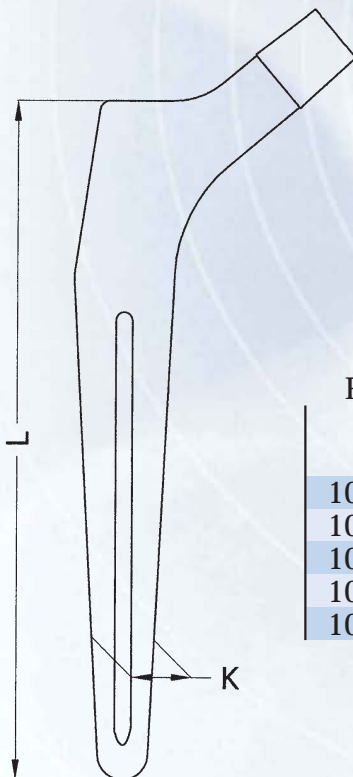
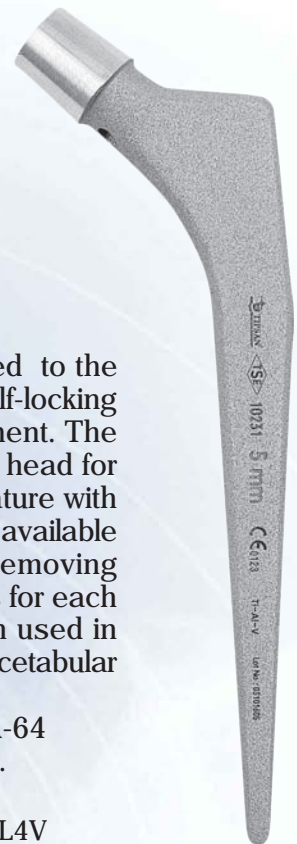
Indication : It is cemented total hip prosthesis. CDH prosthesis is adapted to the narrow condition in the proximal medullary canal. Fixation is achieved by self-locking of the largest possible stem into the medullary cavity and using bone cement. The modular CDH straight stem hip prosthesis is designed for using detachable head for total hip replacement as well. This prosthesis combines the self-locking feature with the versatility of detachable heads with  $\varnothing 22$  mm - 12/14 cone. 3 size of heads available (S-M-L). Detachable heads mean different sizes may be fitted without removing entire unit and enabling the surgeon to select the most appropriate implants for each individual procedure. The CDH straight stem with modular head has been used in combination with a ultra-high molecular weight (U.H.M.W.P.E.) polyethylene acetabular cup provides for an exceptionally stable total hip replacement.

Cups to be used : Polyethylene acetabular cup diam. 22 mm. See page A-64

Heads to be used : Metal stainless steel or Co.Cr-alloy heads diam. 22mm.

See page A-62

Material : The modular CDH straight stem is manufactured from titanium Ti6AL4V Alloy according to ASTM F.136 - ISO 5832/3



Ref. Number Titanium	Stem Size K mm	Stem Length L mm	Cone Size mm
10205012001	5.0	121	12/14
10205012002	7.5	126	12/14
10205012003	10.0	131	12/14
10205012004	12.5	136	12/14
10205012005	15.0	141	12/14



Section of Monoblock Hip Prostheses  
cemented

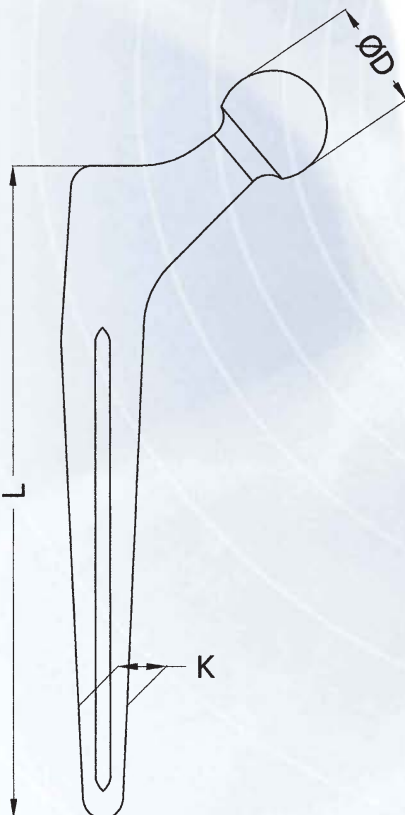
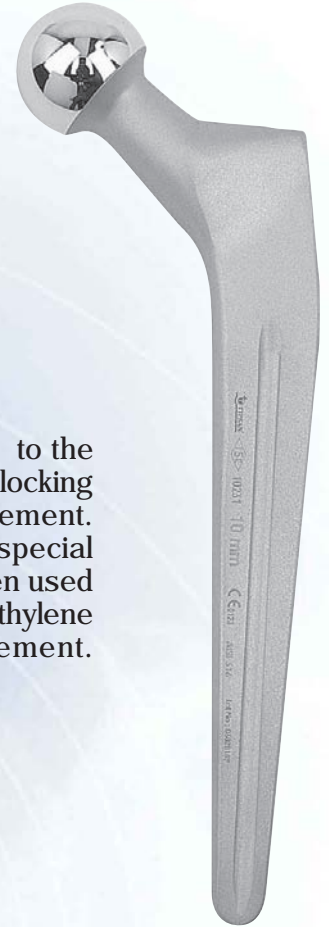
CDH Straight Stem, cemented

CDH Geradschaft, zementiert

Tige droite CDH, cimentée

Indication : It is cemented total hip prosthesis. CDH prosthesis is adapted to the narrow condition in the proximal medullary canal. Fixation is achieved by self-locking of the largest possible stem into the medullary cavity and using bone cement. Proximal stem configuration and 22 mm head diameter are designed for special conditions of dysplastic hip. The CDH straight stem with 22 mm head has been used in combination with a ultra-high molecular weight (U.H.M.W.P.E.) 22 mm polyethylene acetabular cup provides for an exceptionally stable total hip replacement.

Material : Certified Stainless Steel according to ASTM F.138  
ISO 5832/1



Ref. Number Stainless Steel	Stem Size K mm	Head Size D mm	Stem Length L mm
10205001001	5.0	22	121
10205001002	7.5	22	126
10205001003	10.0	22	131
10205001004	12.5	22	136
10205001005	15.0	22	141

P.E acetabular cups to be used

Ref. Number U.H.M.W.	Inside Diam mm	Outside Diam mm
10217017005	22	44
10217017006	22	46
10217017007	22	48
10217017008	22	50
10217017009	22	52
10217017010	22	54
10217017011	22	56
10217017012	22	58



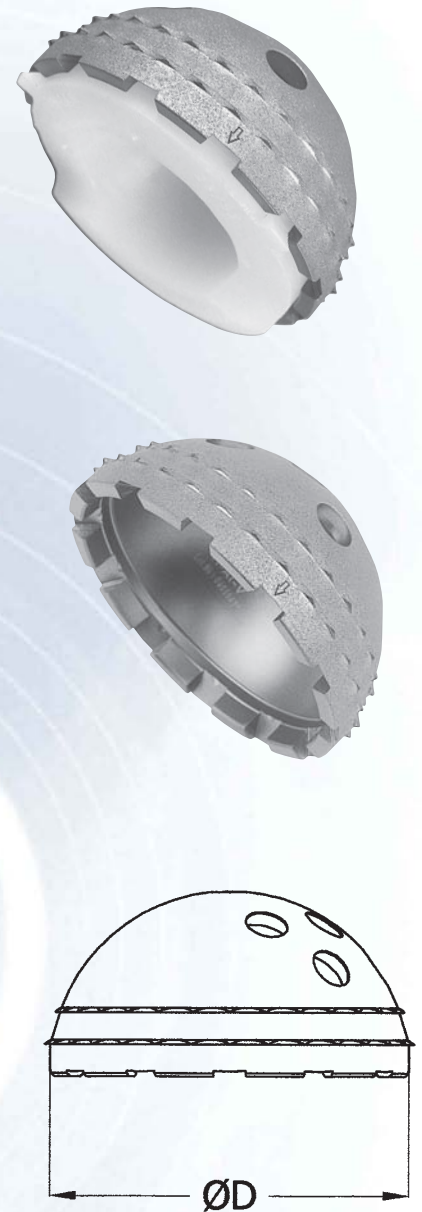
Section of Acetabular Implants  
uncemented

Press fit Cup, uncemented

Pressfitpfannen, unzementiert

Cotyle press-fit, non-cimentée

Indication : In principal for all forms of arthrosis, advance wear and tear of the hip joint because of degeneratif, posttraumatic or rheumatoid arthritis fracture of avascular necrosis of the head of femur. Sequelae of earlier operations such as osteosynthesis, joint reconstruction, arthrodesis, hemiarthroplastic or total hip replacement. Press-fit cup, is an acetabular implant for uncemented fixation. The standard cup made of Ti6Al4V alloy with three dimensional interlock grit blast present an hemispherical shape with polar deflection to enhance the periphery distribution of the stresses effecting the cup. The titanium cup has three holes on superolateral side. This sensibly reduce the extrubtion of UHMWPE owing to a wide contact surface between metal and P.E and consequent low specific pressure. The screws have a spheric head and have always a good contact with their seatings, even if the introduction angle may be different. This prevent the frating corrosion and assure the screw stability. In spite of the different possible introduction angles of the screw. There is no risk of damages to vessels or nerves if the acetabular metal cup have been conceived for a press-fit implant. Therefore if the acetabular socket has a regular confirmation, the use of screws is not necessary and cup must implanted with the holes in inferomedial. The unused screw holes can be sealed with a screw plug. In this way there is no contact discontinuity between metal and P.E and the extrusion of UHMWPE in the screws seals is avoid. Chosen as the basic material was Ti6Al4V which has been tried and tested over many years and is outstandingly biocompatible. For the bone side contact surface Titanium Plasma Spray coating enhances initial fixation and long term bone apposition. The porosity of plasma spray is ideal for osseointegration. Optional, available with Titanium plasma spray + HA.C Hydroxapatite coating.



Material : Certified Titanium alloy according to ASTM F.136 - ISO 5832/3. It is selected for its, modulus of elasticity closest to that living bone, high fatigue strength and perfect biocompatibility.

Ref. Number Titanium Grit Blast	Ref. Number Ti. Plasma Spray	Ref. Number Ti.P.S. + HA	Diam D mm
10220000001	10220010046	10220020046	46
10220000002	10220010048	10220020048	48
10220000003	10220010050	10220020050	50
10220000004	10220010052	10220020052	52
10220000005	10220010054	10220020054	54
10220000006	10220010056	10220020056	56
10220000007	10220010058	10220020058	58
10220000008	10220010060	10220020060	60





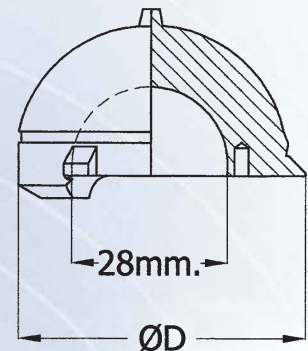
Section of Acetabular Implants  
uncemented

P.E Insert for Press fit Cup, uncemented

P.E Einsartz für Pressfitpfannen, unzementiert

Noyau P.E pour Cotyle press-fit, non-cimentée

Indication : The UHMWPE insert is snapped into the metal acetabular cup. However, the liner can be removed via the two slots in the rim and be reused again. The press fit acetabular cup can reduce the possibility of wear debris from the inner surface of the metal cup. It is done by machining and polishing the inner surface after the coating process, thus preventing a rough metal surface from coming into contact with polyethylene. The good precision of manufacture assures moreover the direct contact between the UHMWPE insert and inner surface of the metal cup reducing micromotions and fretting. The polyethylene insert is produced with a 10° rim to avoid dislocation.



Material : UHMWPE Ultra Heavy Molecular Weight Polyethylene meets ASTM F.648 and ISO 5834/2 standards.

Selected for its;

- High degree of purity
- Good biotolerance
- Good mechanical performance
- Friction properties

Ref. Number P.E.	Inside Diam mm	Outside Diam D mm
10218007001	28	46
10218007002	28	48
10218007003	28	50
10218007004	28	52
10218007005	28	54
10218007006	28	56
10218007007	28	58
10218007008	28	60

Starex Titanium Fixation Screw

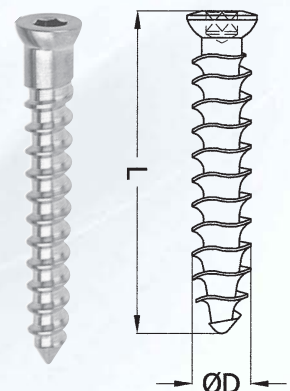
Starex Titanium Fixationschrauben

Vis starex de fixation en Titane

Ref. Number Titanium	Diam D mm	Length mm
10802382003	6.5	25
10802382004	6.5	30
10802382005	6.5	35
10802382006	6.5	40
10802382007	6.5	45

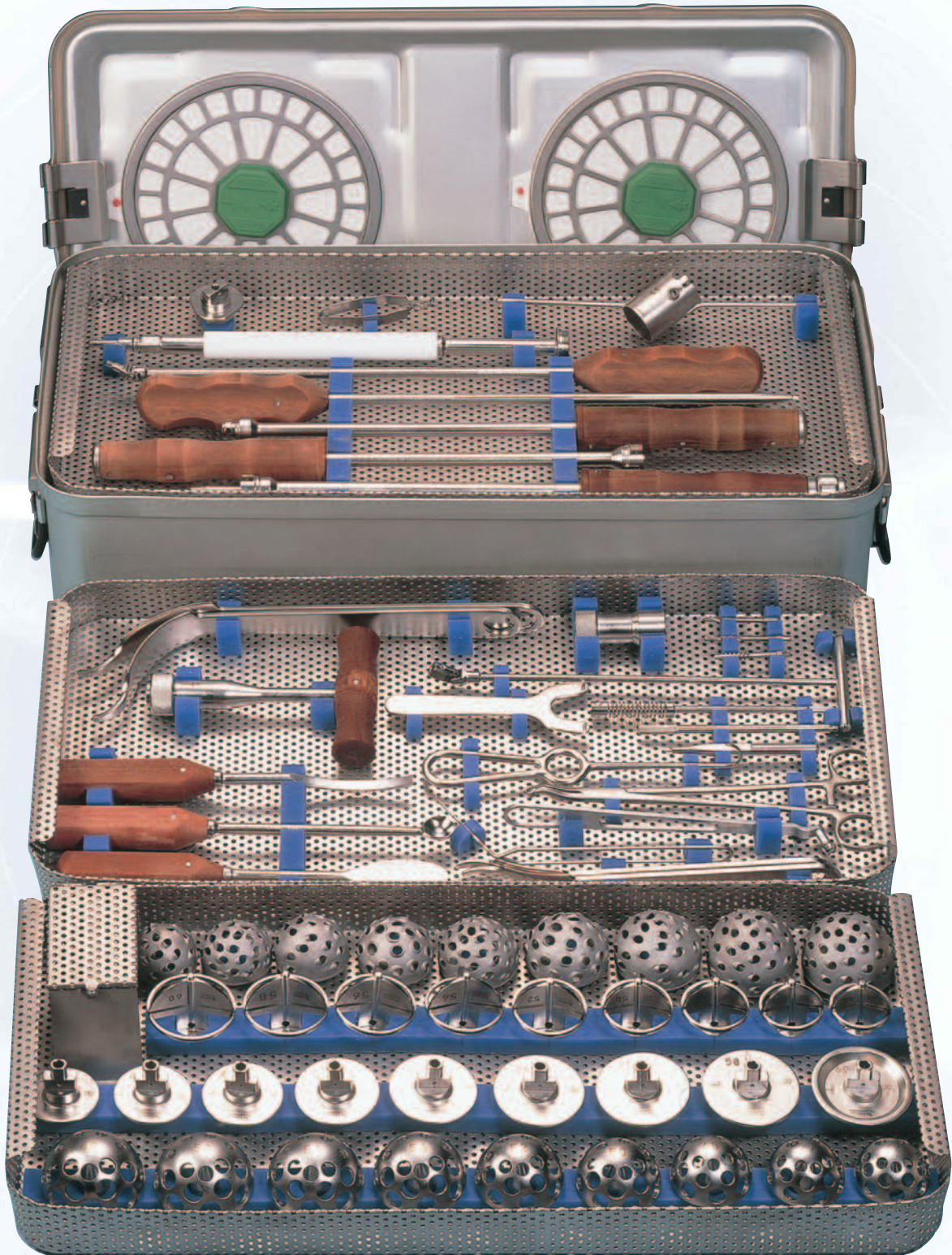
Indication : If bone quality is such that the titanium cup has to be secured with screws, special bone screws with spheric head and cancellous thread (Ø 6.5 mm) are used for fixation. For fixation, flexible drill and universal joint screw driver are available. The screw has always a good contact with their seatings, even if the introduction angle may be different. This prevents fretting corrosion and assures the screw stability.

Material : Certified Titanium alloy according to ASTM F.136 and ISO 5832/3.





Press Fit Cup  
Instrumentation Set



Ref. Number : 18003060020



Press Fit Cup Instrumentation Set  
Ref. Number : 18003060020

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10605210003	Guj Curette		1	10610021004	Acetabular Reamer	44	1
10605210004	Curette		1	10610021005	Acetabular Reamer	46	1
10605210005	Spoon Curette		1	10610021006	Acetabular Reamer	48	1
10606001101	Tap	ø 6.5	1	10610021007	Acetabular Reamer	50	1
10608021011	Gauge for Femoral Head		1	10610021008	Acetabular Reamer	52	1
10608021021	Gyroscopic Drill Guide		1	10610021009	Acetabular Reamer	54	1
10608031021	Depth Gauge		1	10610021010	Acetabular Reamer	56	1
10608210010	Handle for Test Cup		1	10610021011	Acetabular Reamer	58	1
10608211044	Test Cup	44	1	10610021012	Acetabular Reamer	60	1
10608211046	Test Cup	46	1	10610021101	Acetabular Reamer Shaft		1
10608211048	Test Cup	48	1	10610040001	T-Handle (Fiber)		1
10608211050	Test Cup	50	1	10809071040	Drill ø 3.5 x 25 x 40		1
10608211052	Test Cup	52	1	10809071050	Drill ø 3.5 x 30 x 50		1
10608211054	Test Cup	54	1	10601361010	Replacement Handle		1
10608211056	Test Cup	56	1	10601361044	Insert Control Guide	44	1
10608211058	Test Cup	58	1	10601361046	Insert Control Guide	46	1
10608211060	Test Cup	60	1	10601361048	Insert Control Guide	48	1
10601091001	Self Holding Forceps		1	10601361050	Insert Control Guide	50	1
10601091011	Starex Screw Holding Forceps		1	10601361052	Insert Control Guide	52	1
10601290005	Extraction Sleeve		1	10601361054	Insert Control Guide	54	1
10601350010	Press Fit Cup Handle		1	10601361056	Insert Control Guide	56	1
10601351044	Impactor Attachment	44	1	10601361058	Insert Control Guide	58	1
10601351046	Impactor Attachment	46	1	10601361060	Insert Control Guide	60	1
10601351048	Impactor Attachment	48	1	10601361101	Flexible Shaft		1
10601351050	Impactor Attachment	50	1	10601361110	Universal Joint Tap Handle		1
10601351052	Impactor Attachment	52	1	10602041002	Bone Hook Blunt		1
10601351054	Impactor Attachment	54	1	10602101005	Hohmann Retractor	No.5	2
10601351056	Impactor Attachment	56	1	10602101001	Hohmann Retractor	No.1	1
10601351058	Impactor Attachment	58	1	10602101002	Hohmann Retractor	No.2	1
10601351060	Impactor Attachment	60	1	10604001011	Acetabular Reamer Wrench		1
10604010010	Hexagonal Long Screwdriver		1	10604101020	Hexagonal Wrench		1
10604010012	Universal Joint Screwdriver		1	10601361028	Screw-in Attachment		1



**Tap**



Ref. Number  
10606001101

**Gauge for Femoral Head**



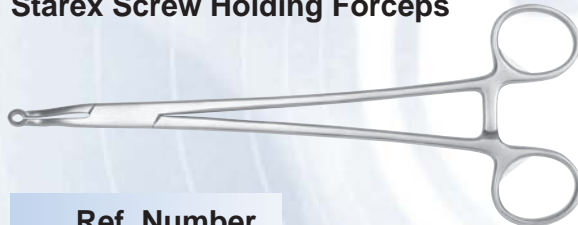
Ref. Number  
10608021011

**Self Holding Forceps**



Ref. Number  
10601091001

**Starex Screw Holding Forceps**



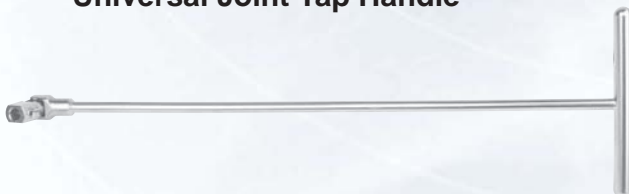
Ref. Number  
10601091011

**Flexible Shaft**



Ref. Number  
10601361101

**Universal Joint Tap Handle**



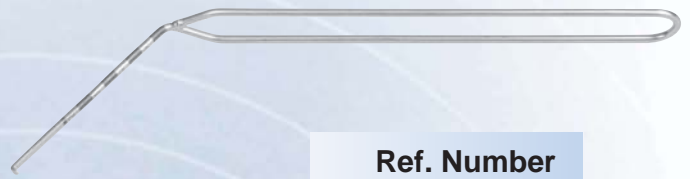
Ref. Number  
10601361110

**Gyroscopic Drill Guide**



Ref. Number  
10608021021

**Depth Gauge**



Ref. Number  
10608031021

**Extraction Sleeve**



Ref. Number  
10601290005

**Press Fit Cup Handle**



Ref. Number  
10601350010

**Replacement Handle**



Ref. Number  
10601361010

**Bone Hook Blunt**



Ref. Number  
10602041002



Spoon Curette



Ref. Number  
10605210005

Curette



Ref. Number  
10605210004

Guj Curette



Ref. Number  
10605210003

Hexagonal Long Screwdriver



Ref. Number  
10604010010

Hexagonal Wrench



Ref. Number  
10604101020

Universal Joint Screwdriver



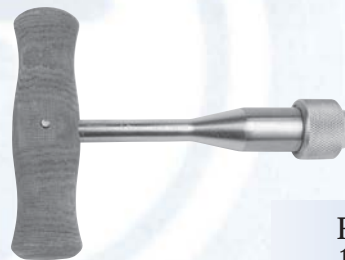
Ref. Number  
10604010012

Acetabular Reamer Wrench



Ref. Number  
10604001011

T-Handle



Ref. Number  
10610040001

Screw-in Attachment



Ref. Number  
10601361028

Hohmann Retractor



Ref. Number  
10602101005

Hohmann Retractor



Ref. Number  
10602101101

Hohmann Retractor



Ref. Number  
10602101102



Handle for Test Cup



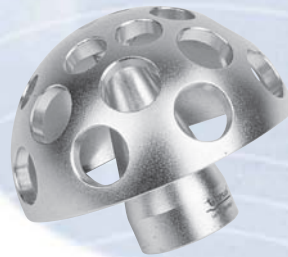
Ref. Number  
10608210010

Drill



Ref. Number	Size (ø)
10809071040	3.5x25x40
10809071050	3.5x30x40

Test Cup



Ref. Number	Size (ø)
10608211044	44
10608211046	46
10608211048	48
10608211050	50
10608211052	52
10608211054	54
10608211056	56
10608211058	58
10608211060	60

Impactor Attachment



Ref. Number	Size (ø)
10601351044	44
10601351046	46
10601351048	48
10601351050	50
10601351052	52
10601351054	54
10601351056	56
10601351058	58
10601351060	60

Insert Control Guide



Ref. Number	Size (ø)
10601361044	44
10601361046	46
10601361048	48
10601361050	50
10601361052	52
10601361054	54
10601361056	56
10601361058	58
10601361060	60

Acetabular Reamer

Ref. Number	Size (ø)
10610021004	44
10610021005	46
10610021006	48
10610021007	50
10610021008	52
10610021009	54
10610021010	56
10610021011	58
10610021012	60



Acetabular Reamer Shaft



Ref. Number  
10610021101

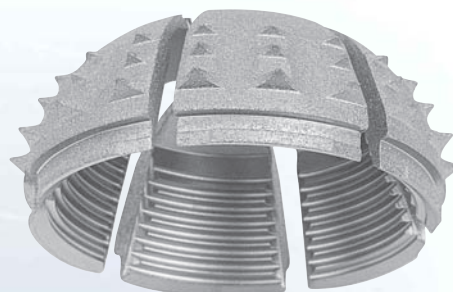


Section of Acetabular Implants  
uncemented

Expansion Cup, uncemented

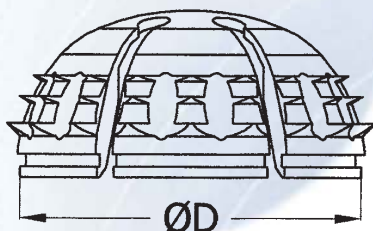
Spreizchale, unzementiert

Cupule à expansion, non-cimentée



Indication : The expansion cup is characterised by extreme easy implantation. When inserted, six point pedals that expand equatorially assure an immediate primary stability. The

hemispherical shape with polar deflection guarantees that the stress is distributed on lateral portions of the cup. The outer surface of the cup is microstructured by sandblasting with corundic stream to enhance the biological fixation. Internally is sandblasted too.



Ref. Number Titanium	Size D
10233002001	46
10233002002	48
10233002003	50
10233002004	52
10233002005	54
10233002006	56
10233002007	58
10233002008	60
10233002009	62

Material : Certified Titanium alloy according to ASTM F.136 - ISO 5832/3. It is selected for its, modulus of elasticity closest to that living bone, high fatigue strength and perfect biocompatibility.

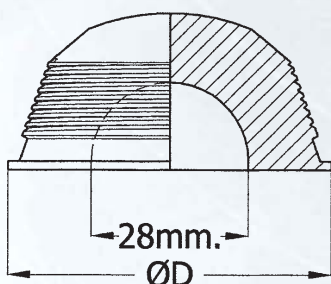
P.E Insert for Expansion Cup

P.E Einsatz für Spreizchale

Noyau P.E pour la cupule à expansion



Indication : The insert is installed into titanium expansion cup. The rotational stability is insured by this special profile both on external surface of the liner and internal surface of the cup. In addition, the polyethylene does not have any expansive function, in order to avoid the formation of debris due to excessive between cup and polyethylene insert.

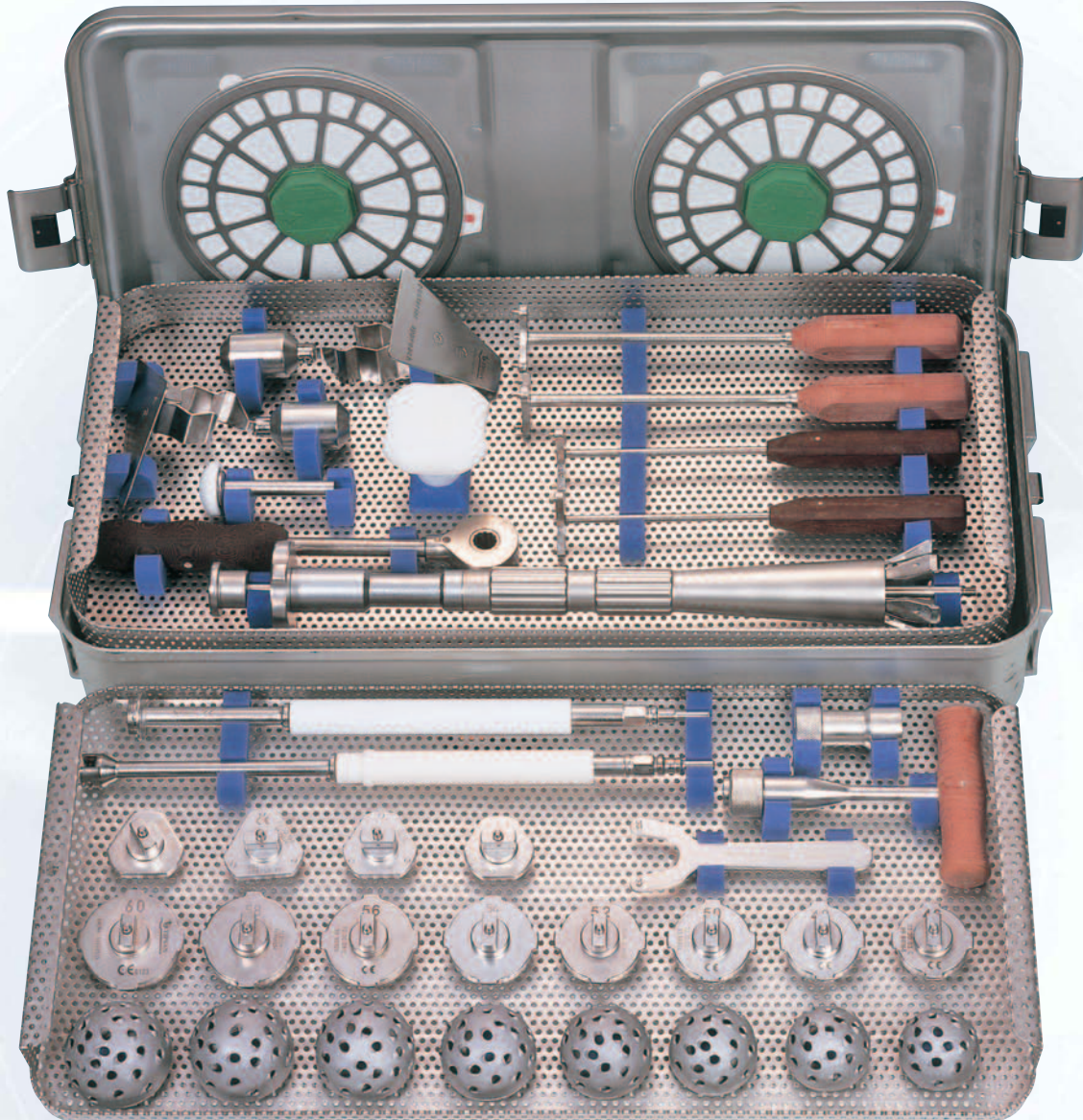


Material : UHMWPE Ultra Heavy Molecular Weight Polyethylene meets ASTM F.648 and ISO 5834/2 standards. Selected for its, high degree of purity, good biotolerance, good mechanical performance and friction properties.

Ref. Number P.E.	Size D
10234007001	46
10234007002	48
10234007003	50
10234007004	52
10234007005	54
10234007006	56
10234007007	58
10234007008	60
10234007009	62



Expansion Cup  
Instrumentation Set



Ref. Number : 18003060030

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10601290001	Compression Pliers		1	10610040001	T-Handle		1
10608401001	Positioning Guide for Lateral		1	10604120001	Ratchet Wrench		1
10608401002	Posit. Guide for Postero-Lateral		1	10604001011	Acetabular Reamer Wrench		1
10610021101	Acetabular Remer Shaft		1	10610021005	Acetabular Reamer	46	1
10601300046	Setting Device	46-48	1	10610021006	Acetabular Reamer	48	1
10601300050	Setting Device	50-62	1	10610021007	Acetabular Reamer	50	1
10601250001	Handle	46-48	1	10610021008	Acetabular Reamer	52	1
10601251046	Expansion Cone	50-62	1	10610021009	Acetabular Reamer	54	1
10601251048	Expansion Cone		1	10610021010	Acetabular Reamer	56	1
10601251050	Expansion Cone	46	1	10610021011	Acetabular Reamer	58	1
10601251052	Expansion Cone	48	1	10610021012	Acetabular Reamer	60	1
10601251054	Expansion Cone	50	1	10601291046	Screw-in Attachment ø46-48	28	1
10601251056	Expansion Cone	52	1	10601291050	Screw-in Attachment ø50-62	28	1
10601251058	Expansion Cone	54	1	10601290005	Extraction Sleeve		1
10601251060	Expansion Cone	56	1				



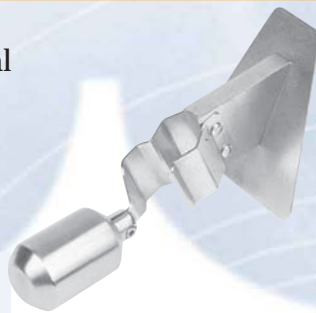


### Compression Pilers



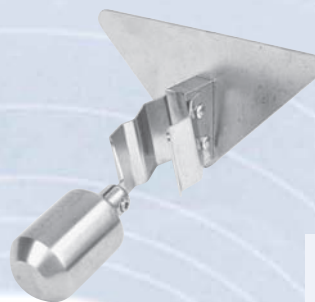
Ref. Number  
10601290001

### Positioning Guide for Postero-Lateral



Ref. Number  
10608401002

### Positioning Guide



Ref. Number  
10608401001

### Acetabular Reamer Shaft



Ref. Number  
10610021101

### Handle



Ref. Number  
10601250001

### Acetabular Reamer Wrench



Ref. Number  
10604001011

### T-Handle



Ref. Number  
10610040001

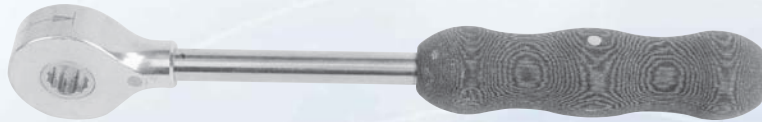
### Extraction Sleeve



Ref. Number  
10601290005

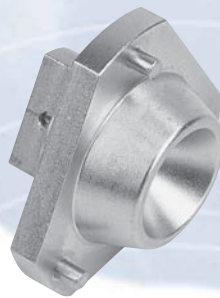


### Ratchet Wrench



Ref. Number  
10604120001

### Screw-in Attachment



Ref. Number	Size (ø)
10601291046	28
10601291050	28

### Expansion Cone



Ref. Number	Size (ø)
10601251046	46
10601251048	48
10601251050	50
10601251052	52
10601251054	54
10601251056	56
10601251058	58
10601251060	60

### Acetabular Reamer



Ref. Number	Size (ø)
10610021004	44
10610021005	46
10610021006	48
10610021007	50
10610021008	52
10610021009	54

### Setting Device



Ref. Number	Size (ø)
10601300046	46-48
10601300050	50-62

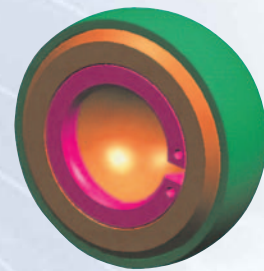
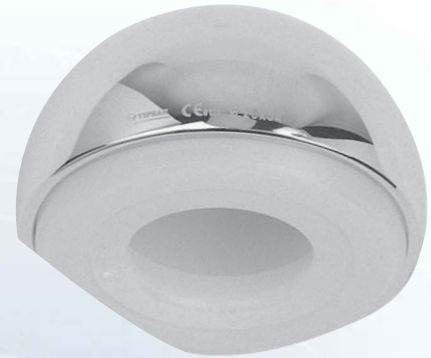


### Section of Acetabular Components uncemented

Modular Bipolar Cup, uncemented

Modulare Bipolarkopf, unzementiert

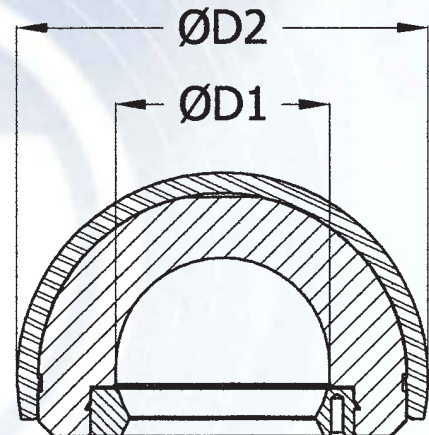
Tête modulaire bipolaire, non-cimentée



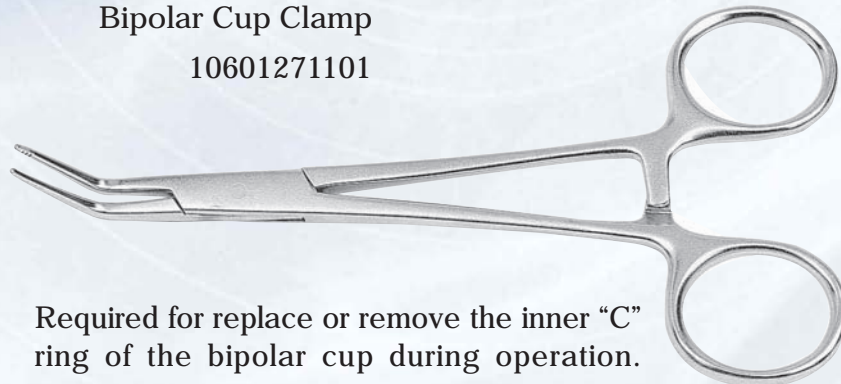
Indication : Placement of cup together with a femoral head on stem gives an articulated partial prosthesis. The modular outer shell is manufactured from certified stainless steel and inner side, the insert is manufactured from Ultra High Molecular Weight Polyethylene UHMWPE.

Material : UHMWPE meets ASTM F.648 and ISO 5834/2 standards. Selected for its, high degree of purity, good biotolerance, good mechanical performance and friction properties. Metal part made from certified stainless steel meets ASTM F.138 - ISO 5832/1 standards.

Ref. Number Titanium	Inside Diam D1 mm	Outside Diam D2 mm
10261280042	28	42
10261280044	28	44
10261280046	28	46
10261280048	28	48
10261280050	28	50
10261280052	28	52
10261280054	28	54
10261280056	28	56
10261280058	28	58



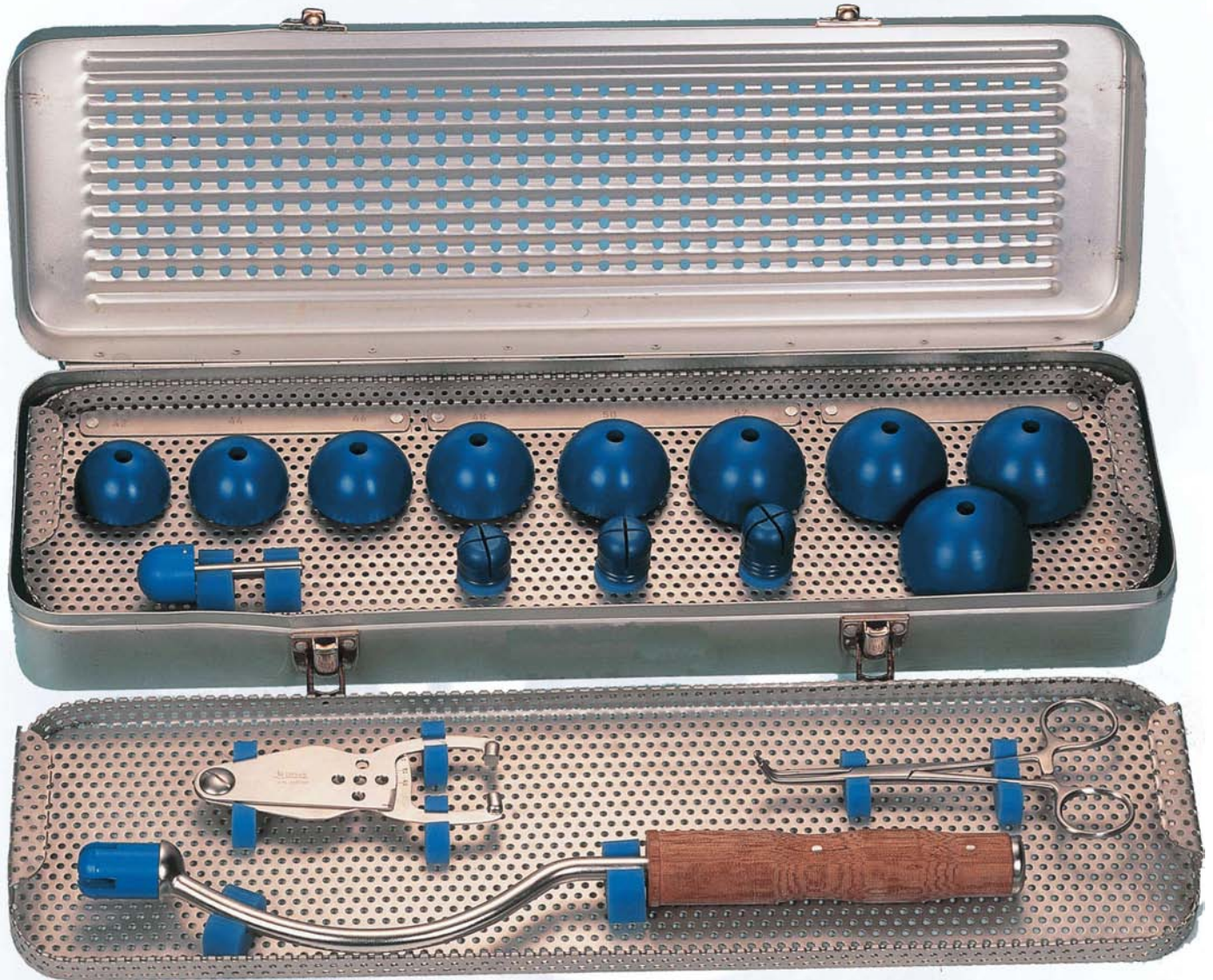
Bipolar Cup Clamp  
10601271101



Required for replace or remove the inner "C" ring of the bipolar cup during operation.



**Modular Bipolar Cup Instrumentation Set**



**Ref. Number : 18003060001**

Ref.Number	Description		Pieces	Ref.Number	Description		Pieces
10608118042	Bipolar Modular Test head	42	1	10608108001	Inner Taper Trial	S	1
10608118044	Bipolar Modular Test head	44	1	10608108002	Inner Taper Trial	M	1
10608118046	Bipolar Modular Test head	46	1	10608108003	Inner Taper Trial	L	1
10608118048	Bipolar Modular Test head	48	1	10602180001	Cup Impactor Curved		1
10608118050	Bipolar Modular Test head	50	1	10602180011	Attachment for Cup Impactor		1
10608118052	Bipolar Modular Test head	52	1	10602190001	Insert Remover		1
10608118054	Bipolar Modular Test head	54	1	10608021011	Gauge for Femoral Head		1
10608118056	Bipolar Modular Test head	56	1	10601271101	Bipolar Clamp		1
10608118058	Bipolar Modular Test head	58	1				



### Bipolar Modular Test Head



Ref. Number	Size (ø)
10608118042	42
10608118044	44
10608118046	46
10608118048	48
10608118050	50
10608118052	52
10608118054	54
10608118056	56
10608118058	58

### Inner Taper Trial Head Cone 12/14



Ref. Number	Size
10608108001	S
10608108002	M
10608108003	L

### Attachment for Cup Impactor



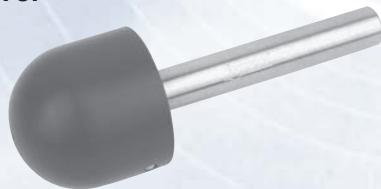
Ref. Number  
10602180011

### Cup Impactor Curved



Ref. Number  
10602180001

### Insert Remover



Ref. Number  
10602190001

### Gauge For Femoral Head



Ref. Number  
10608021011

### Bipolar C Ring Clamp



Ref. Number  
10601271101



Section of Modular Heads for Total Hip Prostheses

Modular Head for Total Hip Prosthesis

Modulare Kopf, für Hüft-totalprothese

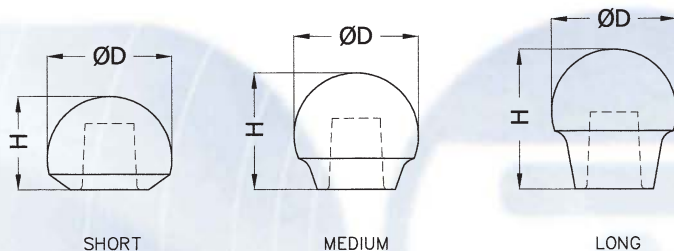
Tête modulaire pour prothèse total de hanche



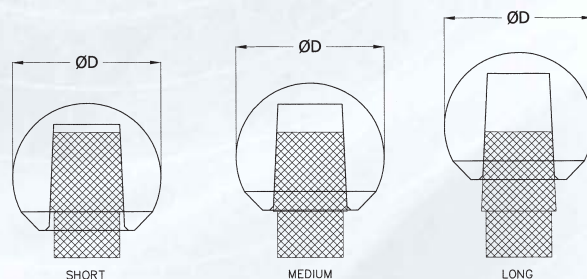
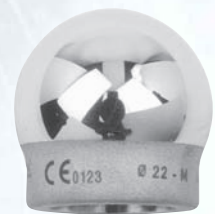
Indication : Placement of the head on the stem gives an articulated partial prosthesis. The head is set on the taper of stem giving required movement within the inner semi-sphere of the acetabulum. The T>psan modular heads available with cone 12/14 and 22 - 28 - 32 mm outside diameter with 3 sizes (Short - Medium - Long)

Material : Certified Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This raw metarial has excellent biomechanical properties. Combined with a modern manufacturing process and outstanding quality control the result is a carbide free, high-polished surface femoral head. This ensure maximum function and reliability for both surgeon and patient.

Advantages; Biologically compatible, meets stringent CE quality control standards, fractures resistance. The femoral heads are also available from certified Stainless Steel according to ASTM F.138 - ISO 5832/1



Ref. Number Stainless Steel	Ref. Number Co.Cr-alloy	Head Diam mm	Cone Size mm	Size
10223011001	10223013001	22	12/14	S
10223011002	10223013002	22	12/14	M
10223011003	10223013003	22	12/14	L
10223031001	10223033001	32	12/14	S
10223031002	10223033002	32	12/14	M
10223031003	10223033003	32	12/14	L



Ref. Number Stainless Steel	Ref. Number Co.Cr-alloy	Head Diam mm	Cone Size mm	Size
10236011001	10236013001	28	12/14	S
10236011002	10236013002	28	12/14	M
10236011003	10236013003	28	12/14	L

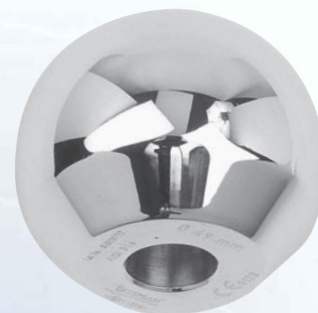


## Section of Modular Heads for Total Hip Prostheses

### Unipolar Head for Partial Prosthesis

Unipolarkopf, für Partialprothese

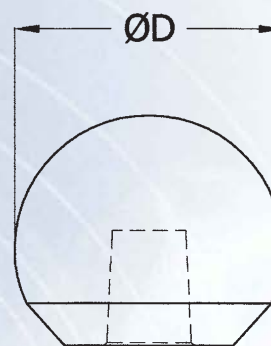
Tête unipolar pour prothèse partial



**Indication** : Placement of the head on the stem gives an articulated partial prosthesis. The head is set on the taper of stem giving required movement within the inner semi-sphere of the acetabulum. The Tipsan unipolar head has are available with 20 outside diameters and with cone 12/14.

**Material** : Certified Co.Cr-alloy according to ASTM F.75 - ISO 5832/4. This raw material has excellent biomechanical properties. Combined with a modern manufacturing process and outstanding quality control the result is a carbide free, high-polished surface femoral head. This ensure maximum function and reliability for both surgeon and patient.

**Advantages**; Biologically compatible, meets stringent CE quality control standards, fractures resistance. The femoral heads are also available from certified Stainless Steel according to ASTM F.138 - ISO 5832/1



Ref. Number Stainless Steel	Ref. Number Co.Cr-alloy	Head Diam mm	Cone Size mm
10237011001	10237013001	38	12/14
10237011002	10237013002	39	12/14
10237011003	10237013003	40	12/14
10237011004	10237013004	41	12/14
10237011005	10237013005	42	12/14
10237011006	10237013006	43	12/14
10237011007	10237013007	44	12/14
10237011008	10237013008	45	12/14
10237011009	10237013009	46	12/14
10237011010	10237013010	47	12/14
10237011011	10237013011	48	12/14
10237011012	10237013012	49	12/14
10237011013	10237013013	50	12/14
10237011014	10237013014	51	12/14
10237011015	10237013015	52	12/14
10237011016	10237013016	53	12/14
10237011017	10237013017	54	12/14
10237011018	10237013018	55	12/14
10237011019	10237013019	56	12/14
10237011020	10237013020	58	12/14



Section of Acetabular Implants  
cemented

Acetabular Cup, cemented

Pfannen, zementiert

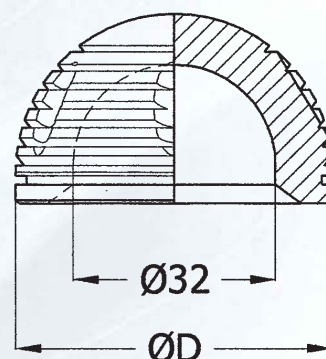
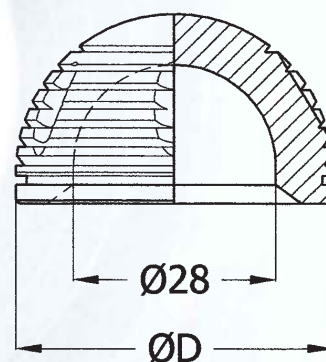
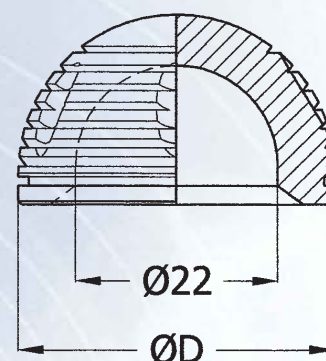
Cotyle, cimentée



Indication : The cups are placed in degerated anatomical acetabulum and requires cement for fixation. Provided with radiopaque wire for postoperatory visualisation. The standard 50 mm acetabular cup meets the anatomical requirements of major patients, while the 44 mm cup is used if the ilium is narrow in cases of high dislocation with migration of the acetabulum. Two larger sizes of acetabular cups, 54, 58 mm have been added to tha range to meet special requirements of large boned patients. The U.H.M.W. polyethylene cup has well-proved tissue tolerance, elasticity and a very low coefficient of friction. Particular attention is paid to the precision machining and surface finish of the acetabular component, so that, when combined with femoral component, and exceptionally stable total hip replacement is achieved with minimal risk of dislocation and minimum wear rate on the acetabular component.

Material : UHMWPE Ultra Heavy Molecular Weight Polyethylene meets ASTM F.648 and ISO 5834/2 standards. Selected for its, high degree of purity, good biotolerance, good mechanical performance and friction properties.

Ref. Number U.H.M.W.	Inside Diam D mm	Outside Diam D mm
10217017005	22	44
10217017006	22	46
10217017007	22	48
10217017008	22	50
10217017009	22	52
10217017010	22	54
10217017011	22	56
10217017012	22	58
10217027001	28	44
10217027002	28	46
10217027003	28	48
10217027004	28	50
10217027005	28	52
10217027006	28	54
10217027007	28	56
10217027008	28	58
10217037001	32	44
10217037002	32	46
10217037003	32	48
10217037004	32	50
10217037005	32	52
10217037006	32	54
10217037007	32	56
10217037008	32	58







## Section of Acetabular Components uncemented

### Acetabular Ring

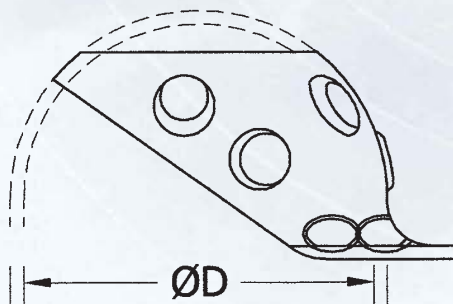
### Pfannendach - Schale

### Anneau de soutien



**Indication :** Acetabular ring is indicated in total hip replacement in cases of osteoporosis, rheumatoid arthritis, acetabular roof cysts, simultaneous bone grafting, after arthrodeses and in socket revision. An acetabular reinforcement ring is also recommended in combination with polyethylene cups with low wall thickness. In revision cases with severe bone loss and protrusion, the usage of a acetabular reinforcement cage is recommended. After the preparation of the acetabulum, an acetabular ring with diameter of 4 mm smaller than the last reamer is normally used. The implant is wedge into the acetabulum with the metal impactor. The ring is positioned correctly if its lateral rim lies on the border of acetabulum. It is imperative that the area of the screw holes and lower border of the ring should have sufficient bone contact. The acetabular ring is fixed with 4 or 6 cancellous screws. These are positioned in the os ilium in the direction of the sacral-iliae joint and are inclined approximately 20° medially and posteriorly in relation to the long axis of the body. The polyethylene cup has an inclination of approximately 40° which corresponds in most cases with the position of the ring.

**Material :** Certified Stainless Steel according to ASTM F.138 and ISO 5832/1. On request can be produced from pure Titanium according to ISO 5832/3. Pure titanium is known to be one of the most corrosion-resistance, most biocompatible metal implant materials available. Its elasticity makes it ideal for acetabular cups. Pure titanium with a defined rough surface enhances the growth of bone directly onto the implant surface. (Available on special request★)



Ref. Number Stainless Steel	Ref. Number Titanium ★	Diam D mm
10221001001	10221002001	44
10221001002	10221002002	46
10221001003	10221002003	48
10221001004	10221002004	50
10221001005	10221002005	52
10221001006	10221002006	54
10221001007	10221002007	56
10221001008	10221002008	58



Section of Acetabular Components  
uncemented

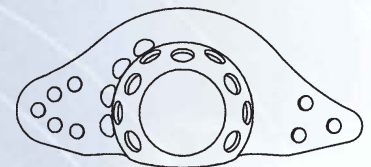
Acetabular Reinforcement Cage

Pfannenstützschale

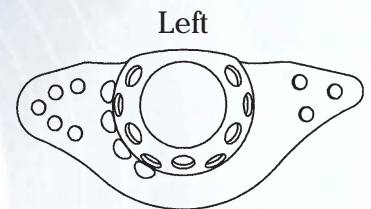
Armature de soutien



Indication : The reinforcement cage is indicated for cup revision with considerable osseous defects or protrusion, if it is no longer possible to achieve adequate primary stability with any other implant. The intact, resistance bone is made usable again; forces acting on the bone are spread over a large area. The reinforcement cage permits undisturbed incorporation of bone grafts. The reinforcement cage is implanted without cement; the cement serves only to fix the cup in the cage. The sievelike cage tapers to flange cranially and to a nose caudally. The dorsal edge is turned out in order to ensure better rotational stability. The holes in the flange serve for subsequent fixing in the pelvic wall. The distal nose is hammered through from the inside of the cup into the ischium. The reinforcement cage can be adapted to the anatomy of pelvis by bending the flange. The inclination of the cage does not determine that of the cup. The cup can be cemented into correct position.

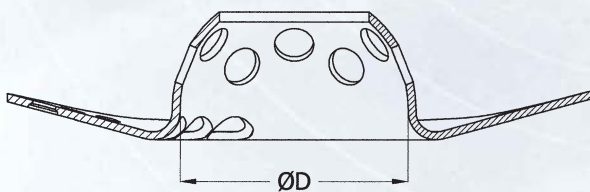


Right



Left

Material : Certified Stainless Steel according to ASTM F.138 and ISO 5832/1. On request can be produced from pure Titanium according to ISO 5832/3. Pure titanium is known to be one of the most corrosion-resistance, most biocompatible metal implant materials available. Its elasticity makes it ideal for acetabular cups. Pure titanium with a defined rough surface enhances the growth of bone directly onto the implant surface. (Avaliable on special request \*)



Ref. Number Stainless Steel	Ref. Number Titanium *	Diam D mm	Style
10222011001	10222012001	44	Right
10222011002	10222012002	46	Right
10222011003	10222012003	48	Right
10222011004	10222012004	50	Right
10222011005	10222012005	52	Right
10222011006	10222012006	54	Right
10222011007	10222012007	56	Right
10222011008	10222012008	58	Right
10222021001	10222022001	44	Left
10222021002	10222022002	46	Left
10222021003	10222022003	48	Left
10222021004	10222022004	50	Left
10222021005	10222022005	52	Left
10222021006	10222022006	54	Left
10222021007	10222022007	56	Left
10222021008	10222022008	58	Left



Section of Monoblock Hip Prostheses  
cemented

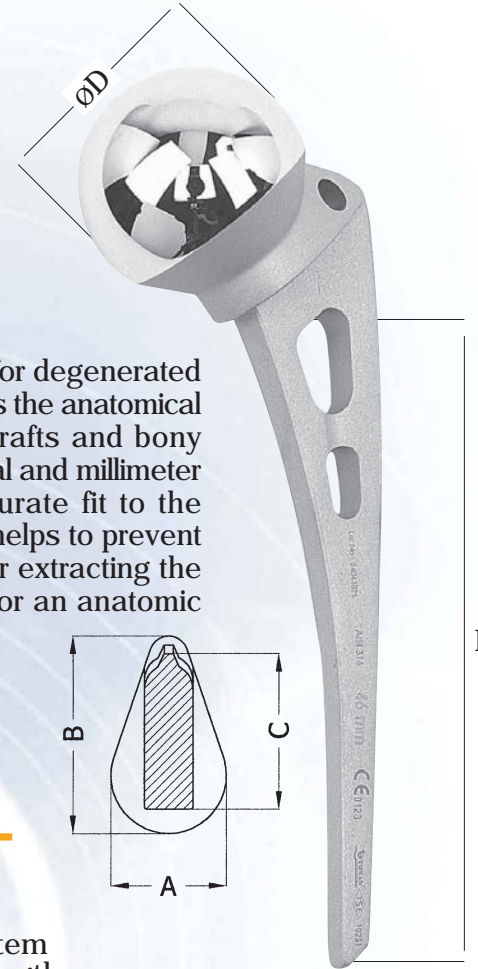
Standard Moore Hip Prosthesis

Hüftprothese nach Moore

Prothesè de Moore

Indication : The Standard Moore hip prosthesis is designed to use for degenerated femoral head replacement. The designed of this applience approximates the anatomical shape of femur. The fenestrated stem permits packing of bone grafts and bony ingrowth for improved fixation. The availability of head sizes in fractional and millimeter increments offers, the surgeon a wide selection for a more accurate fit to the acetabulum. The stem shape as well as the fin along, the outer side helps to prevent rotation of the prosthesis. The loop at the top of stem is provided for extracting the stem. The prosthesis feature has a 135° degree stem/neck angle for an anatomic reconstruction.

Material : Certified Stainless Steel according to ASTM F.138  
ISO 5832/1. Available in titanium according to ASTM F.136  
ISO 5832/3 and Co.Cr-alloy according to ASTM F.75  
ISO 5832/4



Ref. Number Stainless Steel	Ref. Number Titanium	Ref. Number Co.Cr-alloy	Head Sizes Diameter D mm	Stem Length L mm	A mm	B mm	C mm
10202001001	10202002001	10202003001	38 mm	130	25,50	44,5	38
10202001002	10202002002	10202003002	39 mm	"	"	"	"
10202001003	10202002003	10202003003	40 mm	"	"	"	"
10202001004	10202002004	10202003004	41 mm	"	"	"	"
10202001005	10202002005	10202003005	42 mm	"	"	"	"
10202001006	10202002006	10202003006	43 mm	"	"	"	"
10202001007	10202002007	10202003007	44 mm	"	"	"	"
10202001008	10202002008	10202003008	45 mm	"	"	"	"
10202001009	10202002009	10202003009	46 mm	"	"	"	"
10202001010	10202002010	10202003010	47 mm	150	27	45,5	"
10202001011	10202002011	10202003011	48 mm	"	"	"	"
10202001012	10202002012	10202003012	49 mm	"	"	"	"
10202001013	10202002013	10202003013	50 mm	"	"	"	"
10202001014	10202002014	10202003014	51 mm	"	"	"	"
10202001015	10202002015	10202003015	52 mm	"	"	"	"
10202001016	10202002016	10202003016	53 mm	"	"	"	"
10202001017	10202002017	10202003017	54 mm	"	"	"	"
10202001018	10202002018	10202003018	55 mm	"	"	"	"
10202001019	10202002019	10202003019	56 mm	"	"	"	"
10202001020	10202002020	10202003020	57 mm	"	"	"	"
10202001021	10202002021	10202003021	58 mm	"	"	"	"



Section of Monoblock Hip Prostheses  
cemented

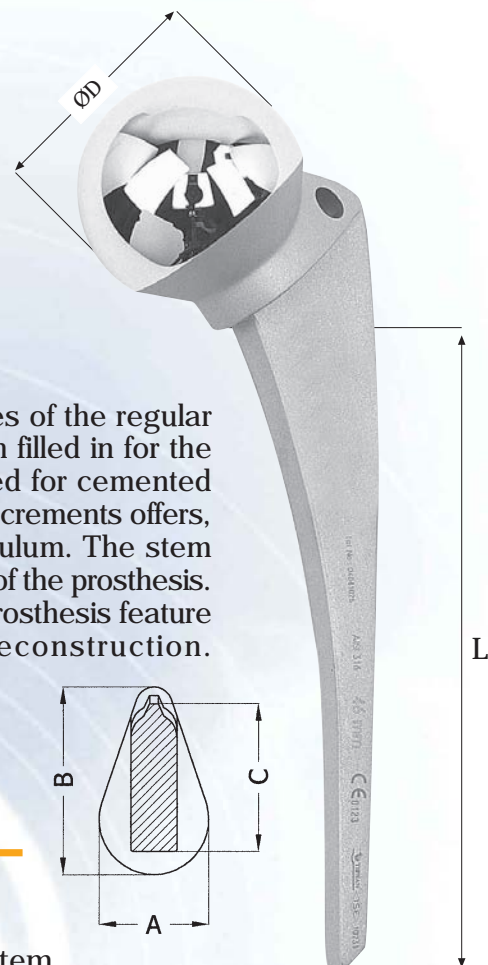
Moore Hip Prosthesis, Solid Stem

Hüftprothese nach Moore, vollschaft

Prothèse de Moore, tige pleine

Indication : The solid stem Moore prostheses are exact duplicates of the regular stems respectively, except that fenestration in the stem have been filled in for the surgeon who wishes to use with bone cement. It is totally designed for cemented application. The availability of head sizes in fractional and millimeter increments offers, the surgeon a wide selection for a more accurate fit to the acetabulum. The stem shape as well as the fin along, the outer side helps to prevent rotation of the prosthesis. The loop at the top of stem is provided for extracting the stem. The prosthesis feature has a 135° degree stem/neck angle for an anatomic reconstruction.

Material : Certified Stainless Steel according to ASTM F.138  
ISO 5832/1. Available in titanium according to ASTM F.136  
ISO 5832/3 and Co.Cr-alloy according to ASTM F.75  
ISO 5832/4



Ref. Number Stainless Steel	Ref. Number Titanium	Ref. Number Co.Cr-alloy	Head Sizes Diameter D mm	Stem Length L mm	A mm	B mm	C mm
10202011038	10202012038	10202013038	38 mm	130	25,50	44	38
10202011039	10202012039	10202013039	39 mm	"	"	"	"
10202011040	10202012040	10202013040	40 mm	"	"	"	"
10202011041	10202012041	10202013041	41 mm	"	"	"	"
10202011042	10202012042	10202013042	42 mm	"	"	"	"
10202011043	10202012043	10202013043	43 mm	"	"	"	"
10202011044	10202012044	10202013044	44 mm	"	"	"	"
10202011045	10202012045	10202013045	45 mm	"	"	"	"
10202011046	10202012046	10202013046	46 mm	"	"	"	"
10202011047	10202012047	10202013047	47 mm	150	27	45	"
10202011048	10202012048	10202013048	48 mm	"	"	"	"
10202011049	10202012049	10202013049	49 mm	"	"	"	"
10202011050	10202012050	10202013050	50 mm	"	"	"	"
10202011051	10202012051	10202013051	51 mm	"	"	"	"
10202011052	10202012052	10202013052	52 mm	"	"	"	"
10202011053	10202012053	10202013053	53 mm	"	"	"	"
10202011054	10202012054	10202013054	54 mm	"	"	"	"
10202011055	10202012055	10202013055	55 mm	"	"	"	"
10202011056	10202012056	10202013056	56 mm	"	"	"	"
10202011057	10202012057	10202013057	57 mm	"	"	"	"
10202011058	10202012058	10202013058	58 mm	"	"	"	"



Moore Hip Prosthesis  
Complete Instrumentation Set



Ref. Number : 18003110001

Ref.Number	Description		Pieces
10610011006	Moore Rasp	Long	1
10610011007	Moore Rasp	Short	1
10605021001	Moore Mortising Chisel		1
10607020003	Femoral Head Impactor		1
10606100001	Femoral Head Extractor		1
10611011002	Universal Head Extractor		1
10610001001	Rasp Bar		1
10607011002	Hammer	500gr	1
10608021011	Gauge for Femoral Head		1



### Moore Rasps



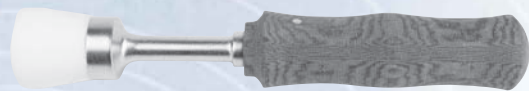
Ref. Number	Size
10610011006	Long
10610011007	Short

### Moore Mortising Chisel



Ref. Number  
10605021001

### Modular Head Impactor



Ref. Number  
10607020003

### Femoral Head Extractor



Ref. Number  
10606100001

### Universal Driver Extractor



Ref. Number  
10611011002

### Rasp Bar



Ref. Number  
10610001001

### Hammer (500gr)



Ref. Number  
10607011002

### Gauge for Femoral Head



Ref. Number  
10608021011



Section of Monoblock Hip Prostheses  
cemented

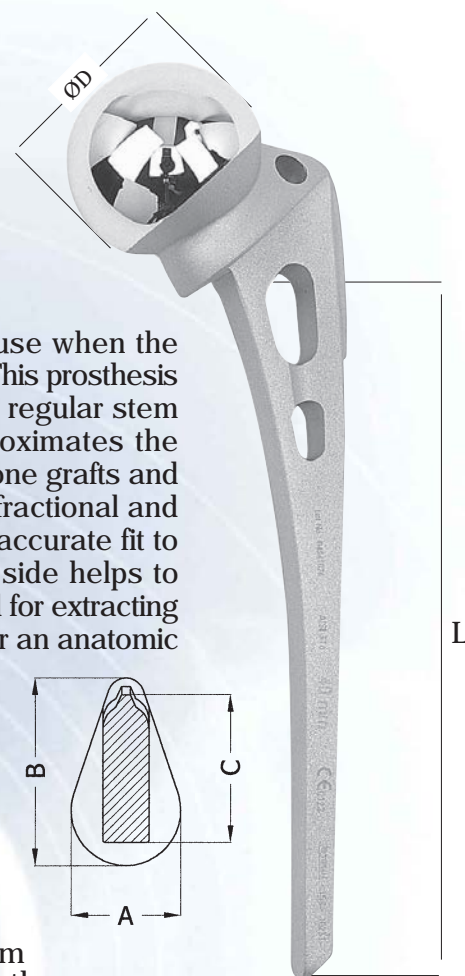
Moore Hip Prosthesis, Narrow Stem

Hüftprothese nach Moore, schmalschaft

Prothèse de Moore, tige étroite

Indication : The narrow stem Moore hip prosthesis is designed to use when the medullary canal is too small to accept the standard Moore hip prosthesis. This prosthesis has the same features as the standard stem but is narrower than the regular stem in the medial/lateral direction. The design of this appliance approximates the anatomical shape of femur. The fenestrated stem permits packing of bone grafts and bony ingrowth for improved fixation. The availability of head sizes in fractional and millimeter increments offers the surgeon a wide selection for a more accurate fit to the acetabulum. The stem shape as well as the fin along the outer side helps to prevent rotation of the prosthesis. The loop at the top of stem is provided for extracting the stem. The prosthesis feature has a 135° degree stem/neck angle for an anatomic reconstruction.

Material : Certified Stainless Steel according to ASTM F.138  
ISO 5832/1 Available in titanium according to ASTM F.136  
ISO 5832/3 and Co.Cr-alloy according to ASTM F.75  
ISO 5832/4



Ref. Number Stainless Steel	Ref. Number Titanium	Ref. Number Co.Cr-alloy	Head Sizes Diameter D mm	Stem Length L mm	A mm	B mm	C mm
10203001001	10203002001	10203003001	38 mm	140	24	43	34
10203001002	10203002002	10203003002	39 mm	"	"	"	"
10203001003	10203002003	10203003003	40 mm	"	"	"	"
10203001004	10203002004	10203003004	41 mm	"	"	"	"
10203001005	10203002005	10203003005	42 mm	"	"	"	"
10203001006	10203002006	10203003006	43 mm	"	"	"	"
10203001007	10203002007	10203003007	44 mm	"	"	"	"
10203001008	10203002008	10203003008	45 mm	"	"	"	"
10203001009	10203002009	10203003009	46 mm	"	"	"	"
10203001010	10203002010	10203003010	47 mm	152	25	44	"
10203001011	10203002011	10203003011	48 mm	"	"	"	"
10203001012	10203002012	10203003012	49 mm	"	"	"	"
10203001013	10203002013	10203003013	50 mm	"	"	"	"
10203001014	10203002014	10203003014	51 mm	"	"	"	"
10203001015	10203002015	10203003015	52 mm	"	"	"	"
10203001016	10203002016	10203003016	53 mm	"	"	"	"
10203001017	10203002017	10203003017	54 mm	"	"	"	"
10203001018	10203002018	10203003018	55 mm	"	"	"	"
10203001019	10203002019	10203003019	56 mm	"	"	"	"
10203001020	10203002020	10203003020	57 mm	"	"	"	"
10203001021	10203002021	10203003021	58 mm	"	"	"	"



Narrow Stem Moore Hip Prosthesis  
Complete Instrumentation Set



Ref. Number : 18003120001

Ref.Number	Description		Pieces
10610011018	Narrow Stem Moore Rasp	Long	1
10610011019	Narrow Stem Moore Rasp	Short	1
10605021011	Narrow Moore Mortising Chisel		1
10607020003	Femoral Head Impactor		1
10606100001	Femoral Head Extractor		1
10611011002	Universal Head Extractor		1
10610001001	Rasp Bar		1
10607011002	Hammer	500gr	1
10608021011	Gauge for Femoral Head		1





### Narrow Stem Moore Rasps

Ref. Number	Size
10610011018	Long
10610011019	Short

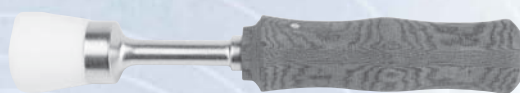


### Narrow Moore Mortising Chisel



Ref. Number  
10605021011

### Modular Head Impactor



Ref. Number  
10607020003

### Femoral Head Extractor



Ref. Number  
10606100001

### Universal Driver Extractor



Ref. Number  
10611011002

### Rasp Bar



Ref. Number  
10610001001

### Hammer (500gr)



Ref. Number  
10607011002

### Gauge for Femoral Head



Ref. Number  
10608021011

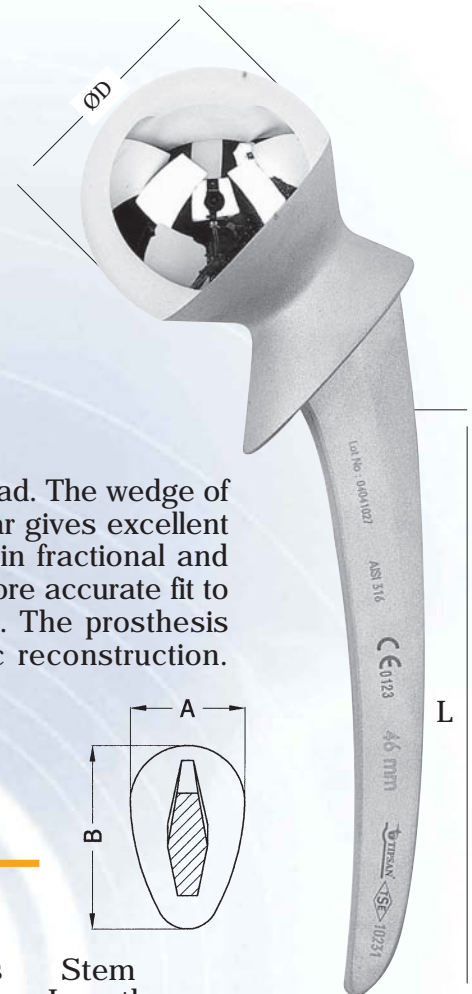


Section of Monoblock Hip Prostheses  
cemented

Thompson Hip Prosthesis

Hüftkopfprothese nach Thompson

Prothèse de Thompson



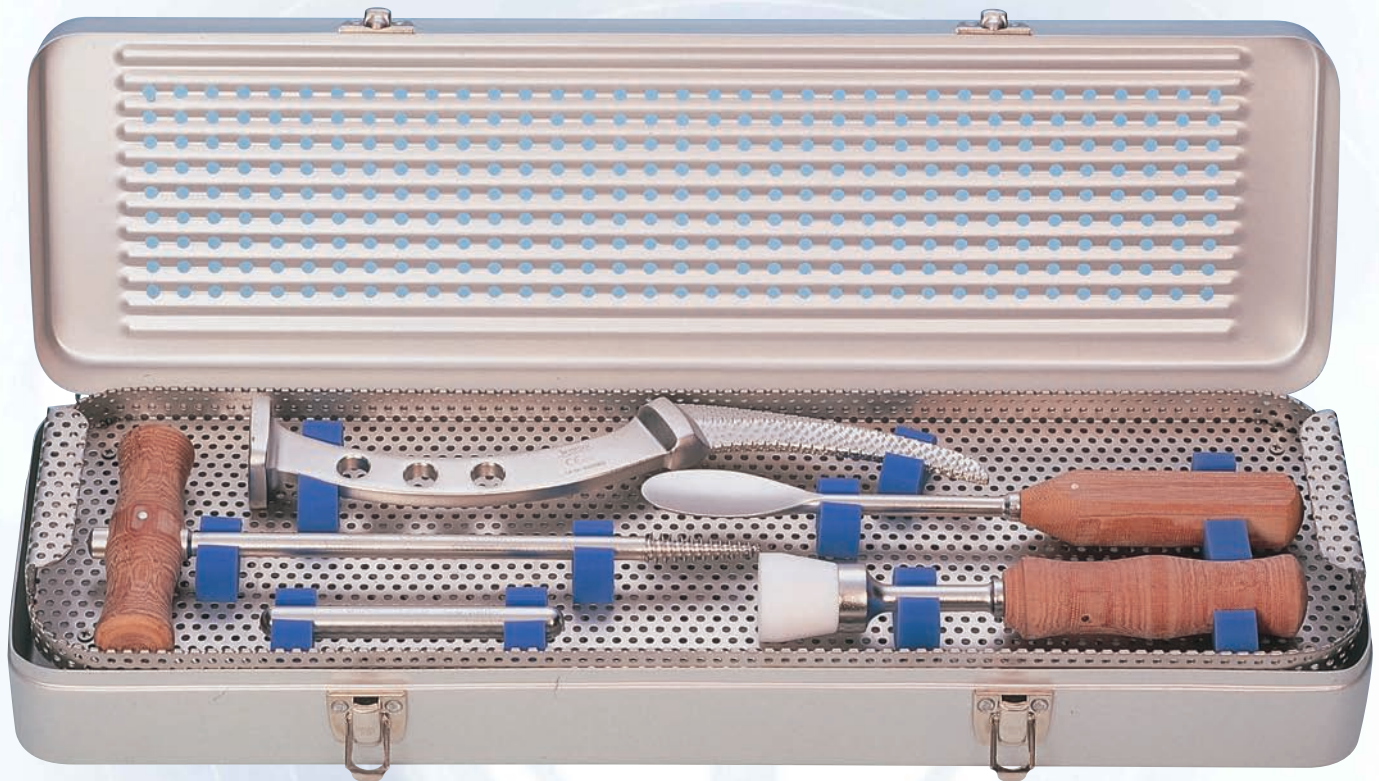
Indication : Used for replacement of the degenerated femoral head. The wedge of the stem provides great resistance to rotation and its broad collar gives excellent weight distribution on the calcar. The availability of head sizes in fractional and millimeter increments offers the surgeon a wide selection for a more accurate fit to the acetabulum. The Curved Trapezoidal Stem resists rotation. The prosthesis features has a 135° degree stem/neck angle for an anatomic reconstruction.

Material : Certified Stainless Steel according to ASTM F.138  
ISO 5832/1 Available in titanium according to ASTM F.136  
ISO 5832/3 and Co.Cr-alloy according to ASTM F.75  
ISO 5832/4

Ref. Number Stainless Steel	Ref. Number Titanium	Ref. Number Co.Cr-alloy	Head Sizes Diameter D mm	Stem Length L mm	A mm	B mm
10201001001	10201002001	10201003001	38 mm	104	28,5	46
10201001002	10201002002	10201003002	39 mm	"	"	"
10201001003	10201002003	10201003003	40 mm	"	"	"
10201001004	10201002004	10201003004	41 mm	"	"	"
10201001005	10201002005	10201003005	42 mm	"	"	"
10201001006	10201002006	10201003006	43 mm	"	"	"
10201001007	10201002007	10201003007	44 mm	"	"	"
10201001008	10201002008	10201003008	45 mm	"	"	"
10201001009	10201002009	10201003009	46 mm	"	"	"
10201001010	10201002010	10201003010	47 mm	"	"	"
10201001011	10201002011	10201003011	48 mm	"	"	"
10201001012	10201002012	10201003012	49 mm	"	"	"
10201001013	10201002013	10201003013	50 mm	"	"	"
10201001014	10201002014	10201003014	51 mm	"	"	"
10201001015	10201002015	10201003015	52 mm	"	"	"
10201001016	10201002016	10201003016	53 mm	"	"	"
10201001017	10201002017	10201003017	54 mm	"	"	"
10201001018	10201002018	10201003018	55 mm	"	"	"
10201001019	10201002019	10201003019	56 mm	"	"	"
10201001020	10201002020	10201003020	57 mm	"	"	"
10201001021	10201002021	10201003021	58 mm	"	"	"



**Thompson Hip Prosthesis  
Complete Instrumentation Set**



**Ref. Number : 18003070001**

Ref.Number	Description	Pieces
10610001001	Rasp Bar	1
10610011001	Thompson Rasp	1
10607020003	Impactor	1
10606100001	Femoral Head Extractor	1
10605210004	Curette	1
10608021011	Gauge for Femoral Head	1



Thompson Rasp



Ref. Number  
10610011001

Rasp Bar



Ref. Number  
10610001001

Impactor



Ref. Number  
10607020003

Femoral Head Extractor



Ref. Number  
10606100001

Gauge For Femoral Head



Ref. Number  
10608021011

Curette

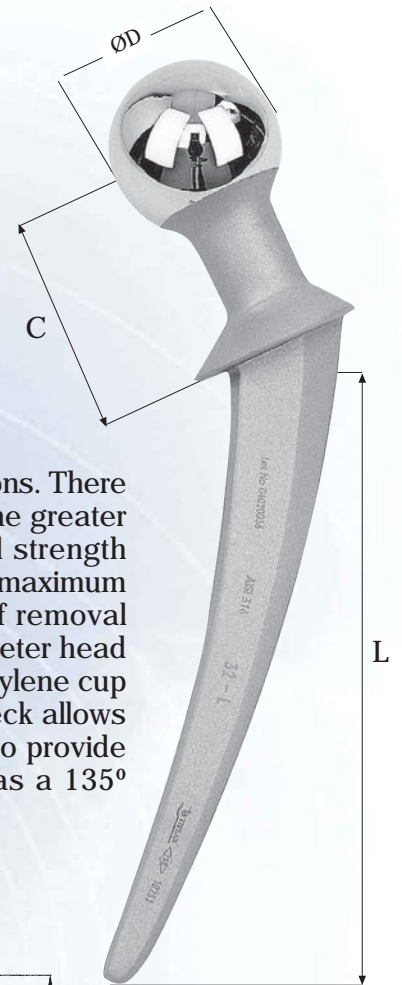


Ref. Number  
10605210004



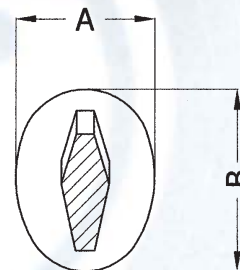
Section of Monoblock Hip Prostheses  
cemented

Müller Type Hip Prosthesis  
Hüftkopfprothese nach Müller  
Prothèse de Müller



Indication : The standard stem configuration will match %90 of all indications. There are 3 different neck lengths which allow implantation without removal of the greater trochanter. This curved stem is designed to provide the greatest metal strength laterally where strength is needed most. Also the structured surface offers maximum cement/stem interface. The tapered shaft helps permit easy removal, if removal becomes necessary. Müller type hip prostheses with a 32 mm/28 mm diameter head in combination with the ultra-high molecular weight (U.H.M.W.P.E.) polyethylene cup provides for an exceptionally stable total hip replacement. The elliptical neck allows for greater clearance and flexion, and the collar is recessed at the base to provide greater surface area contact for the cement. The prosthesis feature has a 135° degree stem/neck angle for an anatomic reconstruction.

Material : Certified Stainless Steel according to ASTM  
F.138 - ISO 5832/1



Ref. Number Stainless Steel	Neck Length C mm	Head Sizes Diameter D mm	Stem Length L mm	Head Sizes	
				A mm	B mm
10204001001	28 mm	32 mm	111	27	36
10204001002	34 mm	32 mm	111	27	36
10204001003	40 mm	32 mm	111	27	36
10204281004	28 mm	28 mm	111	27	36
10204281005	34 mm	28 mm	111	27	36
10204281006	40 mm	28 mm	111	27	36



### Instruments for Hip Surgery

Hohmann Retractor



Distap tip of retractor placed under shaft of bone to retract soft tissue and elevate bone.

Ref. Number  
10602101001

Hohmann Retractor



Ref. Number  
10602101002

Hohmann Retractor



Ref. Number  
10602101003

Hohmann Retractor



Ref. Number  
10602101004

Hohmann Retractor



Ref. Number  
10602101005

Hohmann Retractor



Ref. Number  
10602101006