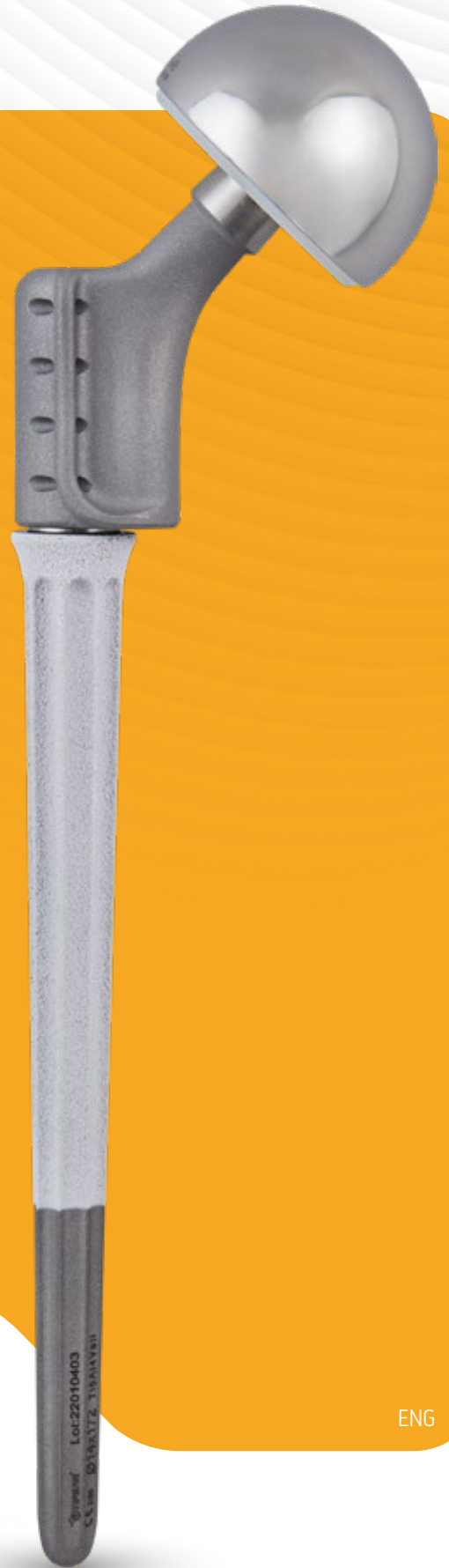


T-2 HIP PROSTHESIS STEM



ENG

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T-2 HIP PROSTHESIS STEM

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 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.

Material: The T-2 REVISION HIP PROSTHESIS is manufactured from titanium Ti6Al4V ELI according to ASTM F136 - 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 superiormechanical strength. The roughened surface finish also plays a vital role in the osseointegration.



T2 - STEM

T-2 HIP PROSTHESIS

U N C E M E N T E D

T2 HIP PROSTHESIS BODY CALCAR SUPPORTED

- Titanium Alloyed

Titanium		
Size	Length	Code
XXShort	36 mm	10255012036
XShort	42 mm	10255012042
Short	48 mm	10255012048
Medium	58 mm	10255012058
Long	68 mm	10255012068



T2 HIP PROSTHESIS BODY WITH TENDON HOLES

- Titanium Alloyed

Titanium		
Size	Length	Code
XXShort	36 mm	10255032036
XShort	42 mm	10255032042
Short	48 mm	10255032048
Medium	58 mm	10255032058
Long	68 mm	10255032068





T2 HIP PROTHESIS ANATOMIC STEM

- Titanium Alloyed

Titanium		
Size	Length	Code
13 mm	142 mm	10255532142
13 mm	172 mm	10255532172
13 mm	212 mm	10255532212
13 mm	252 mm	10255532252
14 mm	142 mm	10255542142
14 mm	172 mm	10255542172
14 mm	212 mm	10255542212
14 mm	252 mm	10255542252
15 mm	142 mm	10255552142
15 mm	172 mm	10255552172
15 mm	212 mm	10255552212
15 mm	252 mm	10255552252
16 mm	142 mm	10255562142
16 mm	172 mm	10255562172
16 mm	212 mm	10255562212
16 mm	252 mm	10255562252

Titanium		
Size	Length	Code
17 mm	142 mm	10255572142
17 mm	172 mm	10255572172
17 mm	212 mm	10255572212
17 mm	252 mm	10255572252
18 mm	142 mm	10255582142
18 mm	172 mm	10255582172
18 mm	212 mm	10255582212
18 mm	252 mm	10255582252
19 mm	142 mm	10255592142
19 mm	172 mm	10255592172
19 mm	212 mm	10255592212
19 mm	252 mm	10255592252
20 mm	142 mm	10255602142
20 mm	172 mm	10255602172
20 mm	212 mm	10255602212
20 mm	252 mm	10255602252

T-2 HIP PROSTHESIS

U N C E M E N T E D



T-2 HIP PROSTHESIS STEM

- Titanium Alloyed

Titanium		
Size	Length	Code
13 mm	142 mm	10255132142
13 mm	172 mm	10255132172
13 mm	212 mm	10255132212
13 mm	252 mm	10255132252
14 mm	142 mm	10255142142
14 mm	172 mm	10255142172
14 mm	212 mm	10255142212
14 mm	252 mm	10255142252
15 mm	142 mm	10255152142
15 mm	172 mm	10255152172
15 mm	212 mm	10255152212
15 mm	252 mm	10255152252
16 mm	142 mm	10255162142
16 mm	172 mm	10255162172
16 mm	212 mm	10255162212
16 mm	252 mm	10255162252
17 mm	142 mm	10255172142
17 mm	172 mm	10255172172
17 mm	212 mm	10255172212
17 mm	252 mm	10255172252

Titanium		
Size	Length	Code
18 mm	142 mm	10255182142
18 mm	172 mm	10255182172
18 mm	212 mm	10255182212
18 mm	252 mm	10255182252
19 mm	142 mm	10255192142
19 mm	172 mm	10255192172
19 mm	212 mm	10255192212
19 mm	252 mm	10255192252
20 mm	142 mm	10255202142
20 mm	172 mm	10255202172
20 mm	212 mm	10255202212
20 mm	252 mm	10255202252
22 mm	142 mm	10255222142
22 mm	172 mm	10255222172
22 mm	212 mm	10255222212
22 mm	252 mm	10255222252
24 mm	142 mm	10255242142
24 mm	172 mm	10255242172
24 mm	212 mm	10255242212
24 mm	252 mm	10255242252



T-2 HIP PROSTHESIS STEM

- Titanium Alloyed
- Plasma + HA Coated

Titanium		
Size	Length	Code
13 mm	142 mm	10257130142
13 mm	172 mm	10257130172
13 mm	212 mm	10257130212
14 mm	142 mm	10257140142
14 mm	172 mm	10257140172
14 mm	212 mm	10257140212
15 mm	142 mm	10257150142
15 mm	172 mm	10257150172
15 mm	212 mm	10257150212
16 mm	142 mm	10257160142
16 mm	172 mm	10257160172
16 mm	212 mm	10257160212

Titanium		
Size	Length	Code
17 mm	142 mm	10257170142
17 mm	172 mm	10257170172
17 mm	212 mm	10257170212
18 mm	142 mm	10257180142
18 mm	172 mm	10257180172
18 mm	212 mm	10257180212
19 mm	142 mm	10257190142
19 mm	172 mm	10257190172
19 mm	212 mm	10257190212
20 mm	142 mm	10257200142
20 mm	172 mm	10257200172
20 mm	212 mm	10257200212

T-2 HIP PROSTHESIS

U N C E M E N T E D



T2 HIP PROSTHESIS

CALCAR SUPPORTED

- Titanium Alloyed

Titanium									
Size	Stem Length	Stem Size							
		13 mm	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	20 mm
Small	142 mm	10260132003	10260142003	10260152003	10260162003	10260172003	10260182003	10260192003	10260202003
Small	172 mm	10260132004	10260142004	10260152004	10260162004	10260172004	10260182004	10260192004	10260202004
Small	212 mm	10260132005	10260142005	10260152005	10260162005	10260172005	10260182005	10260192005	10260202005
Small+	142 mm	10260132013	10260142013	10260152013	10260162013	10260172013	10260182013	10260192013	10260202013
Small+	172 mm	10260132014	10260142014	10260152014	10260162014	10260172014	10260182014	10260192014	10260202014
Small+	212 mm	10260132015	10260142015	10260152015	10260162015	10260172015	10260182015	10260192015	10260202015
Medium	142 mm	10260132023	10260142023	10260152023	10260162023	10260172023	10260182023	10260192023	10260202023
Medium	172 mm	10260132024	10260142024	10260152024	10260162024	10260172024	10260182024	10260192024	10260202024
Medium	212 mm	10260132025	10260142025	10260152025	10260162025	10260172025	10260182025	10260192025	10260202025
Medium+	142 mm	10260132033	10260142033	10260152033	10260162033	10260172033	10260182033	10260192033	10260202033
Medium+	172 mm	10260132034	10260142034	10260152034	10260162034	10260172034	10260182034	10260192034	10260202034
Medium+	212 mm	10260132035	10260142035	10260152035	10260162035	10260172035	10260182035	10260192035	10260202035
Long	142 mm	10260132043	10260142043	10260152043	10260162043	10260172043	10260182043	10260192043	10260202043
Long	172 mm	10260132044	10260142044	10260152044	10260162044	10260172044	10260182044	10260192044	10260202044
Long	212 mm	10260132045	10260142045	10260152045	10260162045	10260172045	10260182045	10260192045	10260202045
Long+	142 mm	10260132053	10260142053	10260152053	10260162053	10260172053	10260182053	10260192053	10260202053
Long+	172 mm	10260132054	10260142054	10260152054	10260162054	10260172054	10260182054	10260192054	10260202054
Long+	212 mm	10260132055	10260142055	10260152055	10260162055	10260172055	10260182055	10260192055	10260202055



T2 HIP PROSTHESIS CALCAR SUPPORTED

- Titanium Alloyed
- Plasma + HA Coated

Titanium									
Size	Stem Length	Stem Size							
		13 mm	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	20 mm
Small	142 mm	10260132103	10260142103	10260152103	10260162103	10260172103	10260182103	10260192103	10260202103
Small	172 mm	10260132104	10260142104	10260152104	10260162104	10260172104	10260182104	10260192104	10260202104
Small	212 mm	10260132105	10260142105	10260152105	10260162105	10260172105	10260182105	10260192105	10260202105
Small+	142 mm	10260132113	10260142113	10260152113	10260162113	10260172113	10260182113	10260192113	10260202113
Small+	172 mm	10260132114	10260142114	10260152114	10260162114	10260172114	10260182114	10260192114	10260202114
Small+	212 mm	10260132115	10260142115	10260152115	10260162115	10260172115	10260182115	10260192115	10260202115
Medium	142 mm	10260132123	10260142123	10260152123	10260162123	10260172123	10260182123	10260192123	10260202123
Medium	172 mm	10260132124	10260142124	10260152124	10260162124	10260172124	10260182124	10260192124	10260202124
Medium	212 mm	10260132125	10260142125	10260152125	10260162125	10260172125	10260182125	10260192125	10260202125
Medium+	142 mm	10260132133	10260142133	10260152133	10260162133	10260172133	10260182133	10260192133	10260202133
Medium+	172 mm	10260132134	10260142134	10260152134	10260162134	10260172134	10260182134	10260192134	10260202134
Medium+	212 mm	10260132135	10260142135	10260152135	10260162135	10260172135	10260182135	10260192135	10260202135
Long	142 mm	10260132143	10260142143	10260152143	10260162143	10260172143	10260182143	10260192143	10260202143
Long	172 mm	10260132144	10260142144	10260152144	10260162144	10260172144	10260182144	10260192144	10260202144
Long	212 mm	10260132145	10260142145	10260152145	10260162145	10260172145	10260182145	10260192145	10260202145
Long+	142 mm	10260132153	10260142153	10260152153	10260162153	10260172153	10260182153	10260192153	10260202153
Long+	172 mm	10260132154	10260142154	10260152154	10260162154	10260172154	10260182154	10260192154	10260202154
Long+	212 mm	10260132155	10260142155	10260152155	10260162155	10260172155	10260182155	10260192155	10260202155

T-2 HIP PROSTHESIS UNCEMENTED

Surgical Technique

Preparation of The Femur With The Reamers

If diaphyseal fixation is required, the femur is prepared with the reamers, which have the role of giving the medullary canal a conical shape. To obtain bone-implant contact as a surface with the reamers, three rules have to be complied with:

- ① **Stay Close to The Fixation Area** : If the press-fit area can be in the proximal diaphyseal area, preparation through the endofemoral approach is possible. If the press-fit area has to be in the isthmus of the femur, it is often preferable to carry out a femoral flap.
- ② **Ream a Straight Segment of The Femur** : The role of the reamers is to give the medullary canal a conical shape, and they are only effective if there is a certainty of working on a straight segment of the femur.
- ③ **Ream a Short Segment of The Femur** : It is easier to make a segment of the femur "conical" if the height of this area is not too large.

! *The references provided by the reamer (diameter and length) are only indicative for the choice of the definitive implant, which must always be done with a test prosthesis.*



Preparing The Femur With The Rasps

It is only possible to prepare a bone-implant contact surface with the rasps if an endofemoral approach is chosen and the primary stability area is situated in the metaphyseal-diaphyseal area of the femur (in revision procedures it is rarely possible to achieve fixation in the metaphyseal area). In this case, take advantage of the modularity of the rasp to perform a two-stage preparation of the medullary canal.

Impact the assembled rasp, and when its depth of penetration corresponds to the one achieved in the previous stage, a perfect bone implant contact in the metaphysealdiaphyseal area is guaranteed.



Trial Reduction

Mounting of the test stem test body and test head for T2 REVISION HIP PROSTHESIS. Removal of the tests.



Implant Fixation

The stem is impacted into the prepared bed with the Shaft impactor. The intensity of the hammer blows should be adjusted to the bone quality. The body is impacted with the Body impactor. The Fixation Bolt is screwed onto the thread of the connecting taper of the implant with the Screw Driver.

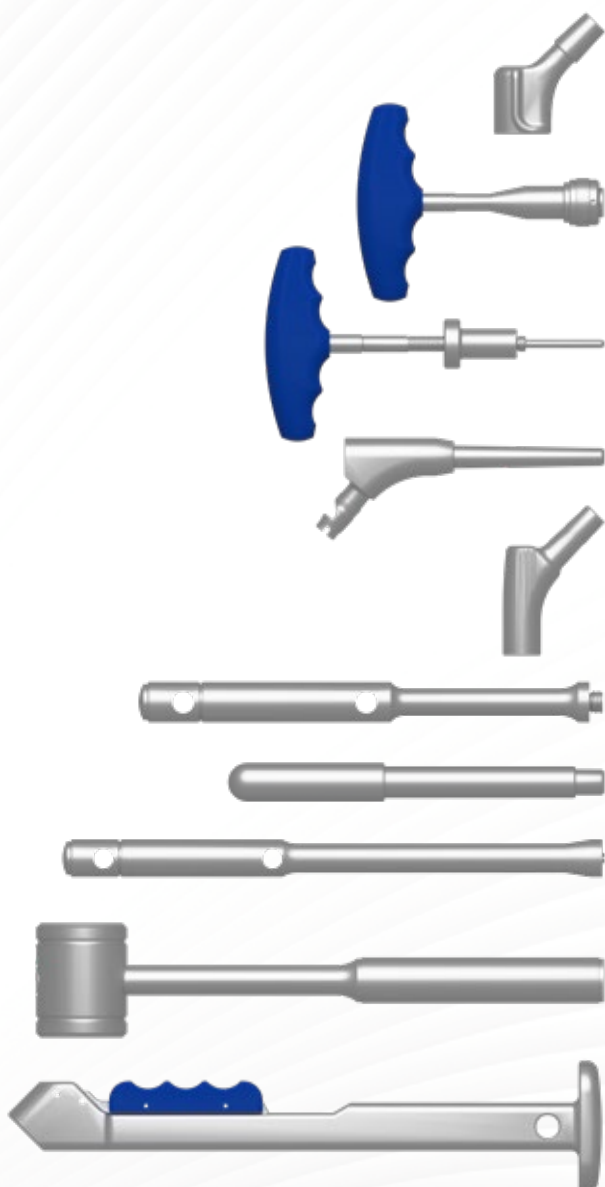
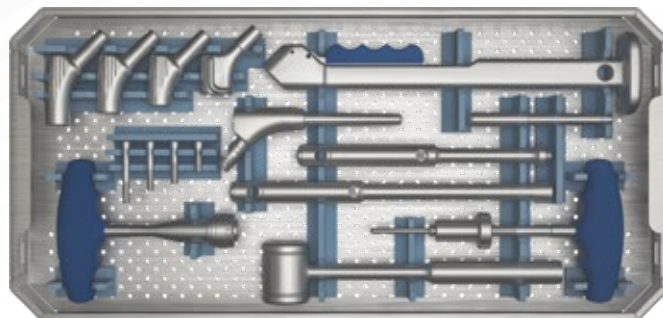


T-2 HIP PROSTHESIS U N C E M E N T E D

Instrumentation Set

TRAY 1

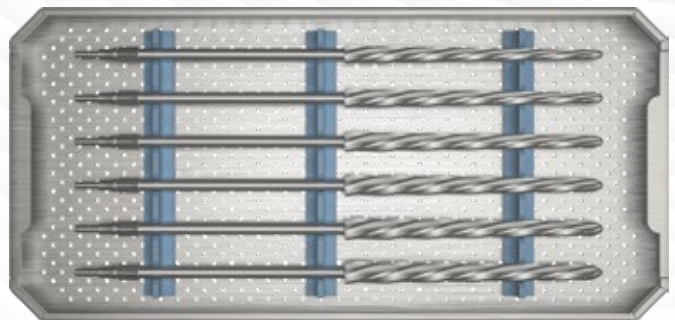
18003080002



Code	Description	Unit
10608642001	TEST BODY FOR T2 CALCAR BODY	1
10610040001	T- HANDLE	1
10611060001	T-2 HEAD REMOVER	1
10610011045	T2 GUIDE RASP	1
10608632042	T2 TYPE CEMENTLESS PROSTHESIS - TEST BODY/ Tİ - 42 XS	1
10608632048	T2 TYPE CEMENTLESS PROSTHESIS - TEST BODY/ Tİ - 48 S	1
10608632058	T2 TYPE SEMENTLESS PROSTHESIS - TEST BODY/ Tİ - 58 M	1
10607121003	BODY IMPACTOR	1
10607121001	IMPACTOR BAR	1
10607121002	SHAFT IMPACTOR	1
10607011002	HAMMER - INOX	1
10610011050	MODULAR RASP HANDLE	1

TRAY 2

18003080002



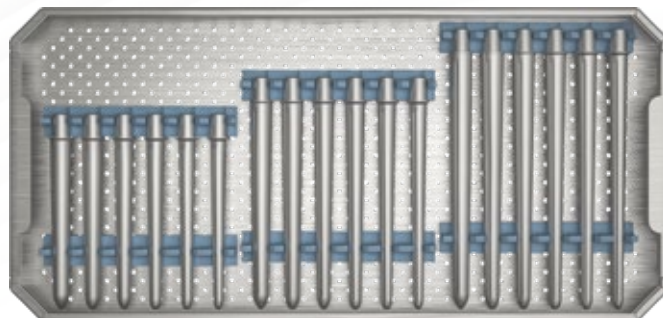
Code	Description	Unit
10610131013	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 13	1
10610131014	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 14	1
10610131015	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 15	1
10610131016	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 16	1
10610131017	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 17	1
10610131018	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 18	1
10610131019	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 19	1
10610131019	REAMER FOR T-2 REVISION HIP PROSTHESIS / Ø 20	1

T-2 HIP PROSTHESIS UNCEMENTED

Instrumentation Set

TRAY 3

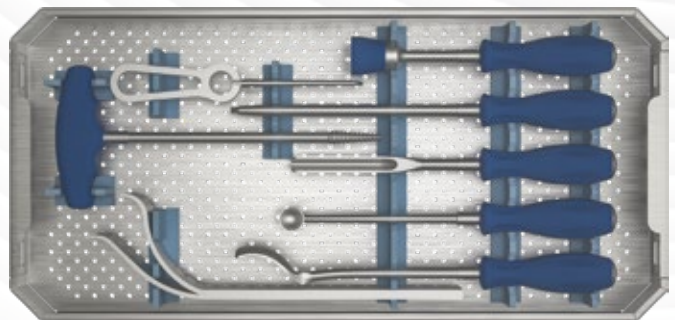
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Code	Description	Unit
10608310003	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø13 X 142	1
10608310013	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø13 X 172	1
10608310023	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø13 X 212	1
10608310004	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø14 X 142	1
10608310014	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø14 X 172	1
10608310024	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø14 X 212	1
10608310005	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø15 X 142	1
10608310015	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø15 X 172	1
10608310025	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø15 X 212	1
10608310006	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø16 X 142	1
10608310016	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø16 X 172	1
10608310026	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø16 X 212	1
10608310007	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø17 X 142	1
10608310017	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø17 X 172	1
10608310027	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø17 X 212	1
10608310008	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø18 X 142	1
10608310018	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø18 X 172	1
10608310028	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø18 X 212	1
10608310009	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø19 X 142	1
10608310019	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø19 X 172	1
10608310029	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø19 X 212	1
10608310010	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø20 X 142	1
10608310020	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø20 X 172	1
10608310030	T-2 REVISION HIP PROSTHESIS TEST STEM / Ø20 X 212	1

TRAY 4

18003080002



Code	Description	Unit
10602101101	HOHMANN RETRACTOR - TYPE 1	1
10602101102	HOHMANN RETRACTOR - TYPE 2	1
10605210103	GUJ CURETTE	1
10605210005	SPOON CURETTE	1
10602041002	BONE HOOK / BLUNT	1
10604010004	SCREW DRIVER - 5mm	1
10607020003	FEMORAL HEAD IMPACTOR	1
10605210025	SPATUL CURETTE	1
10606100001	FEMORAL HEAD EXTRACTOR	1

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