

Evolutis

CREATEUR FABRICANT



Hactiv® Reactiv™

Surgical Technique

Evolutis
MOTION INSIDE

Implants HACTIV® / CEMENTIV® / REACTIV™ Implants

	Standard 135° première intention Primary Standard 135°			Latéro-varus 128° première intention Primary Latéro-varus 128°		Standard 135° Révision Revision Standard 135°			
	HAP	à colerette Collared HAP	Cimenté Cemented	HAP	à colerette Collared HAP	Fendue Slotted	Fendue à colerette Slotted Collared	Verrouillage Distal Locking	A Colerette Collared Cemented
Taille / Size 7	H49 007 (1)(2)	NA	NA	NA	NA	NA	NA	NA	NA
Taille / Size 8	H49 008 (1)(2)	NA	NA	NA	NA	NA	NA	NA	NA
Taille / Size 9	H49 009	H49 C09	H49 S09	H49 L009	H49 LC09	NA	NA	NA	NA
Taille / Size 10	H49 010	H49 C10	H49 S10	H49 L010	H49 LC10	NA	NA	NA	NA
Taille / Size 11	H49 011	H49 C11	H49 S11	H49 L011	H49 LC11	NA	NA	NA	NA
Taille / Size 12	H49 012	H49 C12	H49 S12	H49 L012	H49 LC12	H49 R012	H49 RC012	H49 RC112	H49 SRC012
Taille / Size 13	H49 013	H49 C13	H49 S13	H49 L013	H49 LC13	NA	NA	NA	NA
Taille / Size 14	H49 014	H49 C14	H49 S14	H49 L014	H49 LC14	H49 R014	H49 RC014	H49 RC114	H49 SRC014
Taille / Size 15	H49 015	H49 C15	H49 S15	H49 L015	H49 LC15	NA	NA	NA	NA
Taille / Size 16	H49 016	H49 C16	H49 S16	H49 L016	H49 LC16	H49 R016	H49 RC016	H49 RC116	H49 SRC016
Taille / Size 18	H49 018	H49 C18	NA	H49 L018	H49 LC18	H49 R018	H49 RC018	H49 RC118	H49 SRC018
Taille / Size 20	H49 020	H49 C20 (1)	NA	H49 L020 (1)	H49 LC20 (1)	H49 R020	H49 RC020	H49 RC120	H49 SRC020

Têtes fémorales Femoral Heads

Diamètre Diameter	Longueur Length	Acier Inox Stainless steel	Chrome-Cobalt Cobalt-Chromium	Céramique Composite Composite Ceramic
Ø22	-2.0mm	H11 1220	H10 1220	-
	+0mm	H11 1221	H10 1221	-
	+2.0mm	H11 1222	H10 1222	-
	-7mm	H11 1279 (1)	H10 1279 (1)	-
Ø28	-3.5mm	H11 1280	H10 1280	H14 C1280
	+0mm	H11 1281	H10 1281	H14 C1281
	+3.5mm	H11 1282	H10 1282	H14 C1282
	+7mm	H11 1283	H10 1283	-
	+10.5mm	-	H10 1284 (1)(3)	-
Ø32	-4mm	H11 1320	H10 1320	H14 C1320
	+0mm	H11 1321	H10 1321	H14 C1321
	+4mm	H11 1322	H10 1322	H14 C1322
	+8mm	H11 1323	H10 1323	-
Ø36	-4mm	-	H10 1360	H14 C1360
	+0mm	-	H10 1361	H14 C1361
	+4mm	-	H10 1362	H14 C1362
	+8mm	-	H10 1363	-
Ø40	-4mm	-	-	H14 C1400
	+0mm	-	-	H14 C1401
	+4mm	-	-	H14 C1402

- (1) implants disponibles sur demande spéciale / implants available only on special request
 (2) limite de poids patient à 75kgs / not validated for patients exceeding 75kgs
 (3) non compatible avec les tiges latéralisées à 128° / not validated for use with 128° lateralized stems

Vis de verrouillage Locking screw

Diamètre Diameter	Longueur Length	Ref. Cat. N°
Ø6.0 / 4.5	25mm	H15 SC6025
Ø6.0 / 4.6	30mm	H15 SC6030
Ø6.0 / 4.7	35mm	H15 SC6035
Ø6.0 / 4.8	40mm	H15 SC6040



Manche porte-râpe
adapté : postéro-latéral,
décalé, ou antérieur
Choice of broach handle:
postero-lateral, offset, or
anterior

Instrumentation HACTIV®

Instrument Set

Instrumentation	Ref. Cat. N°
Hactiv première intention Hactiv Primary	H50 9100
Hactiv Révision base Hactiv revision basis	H50 9101
Complémentaire alésage Reamer complementary set	H50 9103
Viseur de verrouillage distal Distal locking aiming jig	H38 9103



Mentions légales :
 Les implants HACTIV, CEMENTIV et REACTIV sont des dispositifs médicaux implantables de classe III indiqués pour les arthroplasties primaires totales (PTH) partielles (PIH) ou pour les révisions d'arthroplastie (PTHR) de la hanche selon la version.
 Les implants HACTIV, CEMENTIV et REACTIV sont pris en charge par l'assurance maladie sous certaines conditions.
 Informations sur le site www.arnell.fr.
 Le chirurgien est expressément invité à lire attentivement les instructions mentionnées sur la notice d'utilisation incluse dans le conditionnement du DMI ainsi que le manuel de technique opératoire délivré à la mise en place du produit ou disponible en téléchargement sur le site www.evolutisfrance.com.

Matériaux / Materials:
 Tiges HACTIV® et REACTIV™ revêtues : alliage de titane TA6V selon ISO 5832-3 et HAP
 Tiges CEMENTIV® et REACTIV™ à ciment : acier inox. à haute teneur en azote selon ISO 5832-9
 Têtes fémorales : acier inox. à haute teneur en azote selon ISO 5832-9 ou alliage de chrome-cobalt selon ISO 5832-4 ou céramique d'alumine pure selon ISO 6474-1 ou céramique composite selon ISO 6474-2
 Vis de verrouillage : alliage de titane TA6V selon ISO 5832-2
 Conditionnement sous vide, stérilisation rayons gamma.
 Coated HACTIV® and REACTIV™ stems : titanium alloy TA6V according ISO 5832-3 + Calcium Hydroxyapatite
 Cemented CEMENTIV® and REACTIV™ stems : high nitrogen content stainless steel according ISO 5832-9
 Femoral heads : high nitrogen content stainless steel according ISO 5832-9 or cobalt-chromium alloy according ISO 5832-4 or pure alumina ceramic according ISO 6474-1 or ceramic composite according ISO 6474-2
 Locking screws : titanium alloy TA6V according ISO 5832-3
 Vacuum packed. Gamma ray sterilised.



Designed and
Manufactured in
France

E v o l u t i s
C R E A T E U R F A B R I C A N T

Product Sheet
Hactiv®
Reactiv™
Cemtiv®
Fiche Produit



Implant fémoral autostable

Première intention et révision

*Self-blocking
femoral implant*

Primary and revision indications

Evolutis
MOTION INSIDE

HACTIV / CEMENTIV HIP SYSTEM

The HACTIV uncemented primary femoral component is a fully HA coated titanium alloy stem, designed for immediate mechanical stability and long term biological fixation (1).

Made in France by the group originally responsible for the manufacture of one of the most clinically successful hip designs internationally, the HACTIV has been widely used throughout Europe with excellent results (2).

The basis of the design is a trapezoidal proximal and mid section to give immediate rotational stability and optimal metaphyseal fit.

The double taper longitudinal geometry with grooves that transfer load proximally ensure that the stem remains locked against the dense bone of the calcar and greater trochanter.

Long term fixation is enhanced through bone ingrowth into the HA coating which is plasma sprayed on to the grit blasted surface of the femoral component (3).

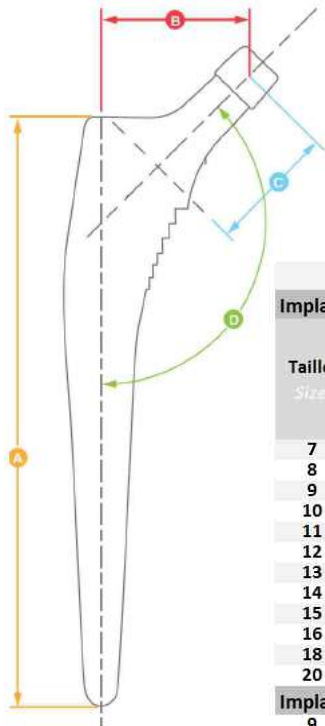
Physiological loading of the calcar region and trabecular ingrowth to the HA coating also prevent the ingress of particulate matter, reducing the potential for osteolysis.

The CEMENTIV femoral stem is the cemented version of the HACTIV. Made of High Nitrogen Content Stainless Steel material **with a smooth and polished surface**, the CEMENTIV is available in the same range of sizes and can be implanted with the same instruments.

The HACTIV / CEMENTIV Hip System offers **stainless steel, cobalt chrome, pure alumina or composite ceramic femoral heads**.

Femoral Heads come in 22.2mm, 28mm, 32mm and 36mm and 40mm (ceramic only) 12/14 Eurocone.

1. Vidalain JP. Corail® Stem Long-Term Results Based upon the 15-Years ARTRO Group Experience. Fifteen Years of Clinical Experience with Hydroxyapatite Coatings in Joint Arthroplasty. Ed. Springer, 217-224, 200
2. The Norwegian Arthroplasty Register. <http://www.haukeland.no/nrl/eng/default.htm>
3. Frayssinet, P.; Hardy, D.; Harker, J. and Giammara, B.: Natural History of Bone Response to Hydroxyapatite-Coated Prostheses Implanted in Humans. Cells and Materials, Vol. 5, No. 2, 1995: 125-13



Lot 5

HACTIV / CEMENTIV / REACTIV Dimensions

							A	B	C	D	
Implants 135° STANDARD <i>Implants</i>											
Taille <i>Size</i>	Réf			Cat N°				Longueur <i>Length</i>	Offset <i>Lateral</i>	Longueur col <i>Neck length</i>	NSA Angle CCD
	HACTIV HA	HACTIV Coll. HA	CEMTIV		REV Fendue <i>Slotted</i>	REV Coll. Fendue <i>Slotted</i>	REV Verrouil. <i>Distal Lock</i>	Première int. <i>Primary</i>	Révision <i>Revision</i>		
7	H49 007 (1)(2)						110		36.0	38.5	135°
8	H49 008 (1)(2)						115		37.0	38.5	135°
9	H49 009	H49 C009	H49 S09				130		38.0	38.5	135°
10	H49 010	H49 C010	H49 S10				140		39.0	38.5	135°
11	H49 011	H49 C011	H49 S11				145		39.5	38.5	135°
12	H49 012	H49 C012	H49 S12	H49 R012	H49 RC012	H49 RC112	150	180	40.0	38.5	135°
13	H49 013	H49 C013	H49 S13				155		40.5	38.5	135°
14	H49 014	H49 C014	H49 S14	H49 R014	H49 RC014	H49 RC114	160	200	41.0	38.5	135°
15	H49 015	H49 C015	H49 S15				165		41.5	38.5	135°
16	H49 016	H49 C016	H49 S16	H49 R016	H49 RC016	H49 RC116	170	210	42.0	38.5	135°
18	H49 018	H49 C018		H49 R018	H49 RC018	H49 RC118	180	220	43.0	38.5	135°
20	H49 020	H49 C020 (2)		H49 R020	H49 RC020	H49 RC120	190	240	44.0	38.5	135°
Implants 128° LATERO-VARUS <i>Implants</i>											
9	H49 L009	H49 LC009					130		45.0	42.0	128°
10	H49 L010	H49 LC010					140		46.0	42.0	128°
11	H49 L011	H49 LC011					145		46.5	42.0	128°
12	H49 L012	H49 LC012					150		47.0	42.0	128°
13	H49 L013	H49 LC013					155		47.5	42.0	128°
14	H49 L014	H49 LC014					160		48.0	42.0	128°
15	H49 L015	H49 LC015					165		48.5	42.0	128°
16	H49 L016	H49 LC016					170		49.0	42.0	128°
18	H49 L018	H49 LC018					180		50.0	42.0	128°
20	H49 L020 (2)	H49 LC020 (2)					190		51.0	42.0	128°

- (1) not validated for patients exceeding 75kgs
(2) implants available only on special request

REFERENCES

Implants HACTIV® / REACTIV® Implants

	Standard 135° première intention Primary Standard 135°			Latero-varus 128° première intention Primary Latero-varus 128°		Standard 135° Révision Revision Standard 135°		
	HAP	à colerette Collared HAP	Cimenté Cemented	HAP	à colerette Collared HAP	Fendue Slotted	Fendue à colerette Slotted Collared	Verrouillage Distal Locking
Taille / Size 7	H49 007 (1)(2)	NA	NA	NA	NA	NA	NA	NA
Taille / Size 8	H49 008 (1)(2)	NA	NA	NA	NA	NA	NA	NA
Taille / Size 9	H49 009	H49 C09	H49 S09	H49 L009	H49 LC09	NA	NA	NA
Taille / Size 10	H49 010	H49 C10	H49 S10	H49 L010	H49 LC10	NA	NA	NA
Taille / Size 11	H49 011	H49 C11	H49 S11	H49 L011	H49 LC11	NA	NA	NA
Taille / Size 12	H49 012	H49 C12	H49 S12	H49 L012	H49 LC12	H49 R012	H49 RC012	H49 RC112
Taille / Size 13	H49 013	H49 C13	H49 S13	H49 L013	H49 LC13	NA	NA	NA
Taille / Size 14	H49 014	H49 C14	H49 S14	H49 L014	H49 LC14	H49 R014	H49 RC014	H49 RC114
Taille / Size 15	H49 015	H49 C15	H49 S15	H49 L015	H49 LC15	NA	NA	NA
Taille / Size 16	H49 016	H49 C16	H49 S16	H49 L016	H49 LC16	H49 R016	H49 RC016	H49 RC116
Taille / Size 18	H49 018	H49 C18	NA	H49 L018	H49 LC18	H49 R018	H49 RC018	H49 RC118
Taille / Size 20	H49 020	H49 C20 (1)	NA	H49 L020 (1)	H49 LC20 (1)	H49 R020	H49 RC020	H49 RC120

(1) limite de poids patient à 75kgs / not validated for patients exceeding 75kgs
(2) implants disponibles sur demande spéciale / Implants available only on special request

Têtes Fémorales Femoral Heads

Matériau / Material	Taille Size	Réf. Cat N°	Matériau / Material	Taille Size	Réf. Cat N°
Inox M30NW / Stainless Steel	Ø28 -3.5mm	H11 1280	Alumine / Alumina	Ø28 -3.5mm	H14 1280
Inox M30NW / Stainless Steel	Ø28 +0mm	H11 1281	Alumine / Alumina	Ø28 +0mm	H14 1281
Inox M30NW / Stainless Steel	Ø28 +3.5mm	H11 1282	Alumine / Alumina	Ø28 +3.5mm	H14 1282
Inox M30NW / Stainless Steel	Ø28 +7mm	H11 1283	Céram. Composite / Composite Ceram.	Ø32 -4mm	H14 C1320
Chrome-Cobalt / Cobalt-Chromium (1)	Ø28 -7mm	H10 1279	Céram. Composite / Composite Ceram.	Ø32 +0mm	H14 C1321
Chrome-Cobalt / Cobalt-Chromium	Ø28 -3.5mm	H10 1280	Céram. Composite / Composite Ceram.	Ø32 +4mm	H14 C1322
Chrome-Cobalt / Cobalt-Chromium	Ø28 +0mm	H10 1281	Céram. Composite / Composite Ceram.	Ø32 +8mm	H14 C1323
Chrome-Cobalt / Cobalt-Chromium	Ø28 +3.5mm	H10 1282	Céram. Composite / Composite Ceram.	Ø36 -4mm	H14 C1360
Chrome-Cobalt / Cobalt-Chromium	Ø28 +7mm	H10 1283	Céram. Composite / Composite Ceram.	Ø36 +0mm	H14 C1361
Chrome-Cobalt / Cobalt-Chromium (1)(3)	Ø28 +10.5mm	H10 1284	Céram. Composite / Composite Ceram.	Ø36 +4mm	H14 C1362
Chrome-Cobalt / Cobalt-Chromium	Ø32 -4mm	H10 1320	Céram. Composite / Composite Ceram.	Ø36 +8mm	H14 C1363
Chrome-Cobalt / Cobalt-Chromium	Ø32 +0mm	H10 1321			
Chrome-Cobalt / Cobalt-Chromium	Ø32 +4mm	H10 1322			
Chrome-Cobalt / Cobalt-Chromium	Ø32 +8mm	H10 1323			

Femoral broaches:
choice of machined
bone-compacting
structure (picture) or
embossed spiked
structure.



From top : postero-lateral,
anterior approach, and lateral
offset broach handle.

Instrumentation HACTIV® Instrument Set H50 9100

Description	Nbre. Numb. Articles	Réf. Cat N°	Description	Nbre. Numb. Articles	Réf. Cat N°
Plateau avec couvercle / Tray with Lid	1	H50 9000	Râpe Taille 9 / Broach size 9	1	H50 009
Manche porte-râpe / Broach handle	2	H01 009	Râpe Taille 10 / Broach size 10	1	H50 010
Ciseau évideur / Box chisel	1	H01 013	Râpe Taille 11 / Broach size 11	1	H50 011
Chemise bt conique / Conical tip sleeve	1	H01 021	Râpe Taille 12 / Broach size 12	1	H50 012
Impacteur à bout sphérique	1	H01 023	Râpe Taille 13 / Broach size 13	1	H50 013
Masse coulissante / Slap hammer	1	H01 033	Râpe Taille 14 / Broach size 14	1	H50 014
Embout pousse-tête / Head pusher tip	1	H02 001	Râpe Taille 15 / Broach size 15	1	H50 015
Tête d'essai Ø28 -3.5mm Trial Head	1	H02 2280	Râpe Taille 16 / Broach size 16	1	H50 016
Tête d'essai Ø28 +0mm Trial Head	1	H02 2281	Râpe Taille 18 / Broach size 18	1	H50 018
Tête d'essai Ø28 +3.5mm Trial Head	1	H02 2282	Râpe Taille 20 / Broach size 20	1	H50 020
Tête d'essai Ø28 +7mm Trial Head	1	H02 2283			
Tête d'essai Ø32 -4mm Trial Head	1	H02 2320			
Tête d'essai Ø32 +0mm Trial Head	1	H02 2321			
Tête d'essai Ø32 +4mm Trial Head	1	H02 2322			
Impacteur de tige / Stem impactor	1	H38 022			
Col d'essai 135° standard Trial Neck	1	H50 003			
Col d'essai 128° latero-varus Trial Neck	1	H50 005			

Options	Nbre. Numb. Articles	Numb. Articles
Anterior approach broach handle	2	H01 027
Right Offset broach handle	1	H01 048
Left Offset broach handle	1	H01 049
Head pusher tip for Ø36 & 40mm	1	H36 002



Materials:
Coated HACTIV® and REACTIV™ stems : titanium alloy TA6V according ISO 5832-3 + Calcium Hydroxyapatite
Cemented CEMENTIV® stems : high nitrogen content stainless steel according ISO 5832-9
Femoral heads : high nitrogen content stainless steel according ISO 5832-9 or cobalt-chromium alloy according ISO 5832-4 or pure alumina ceramic according ISO 6474-1 or ceramic composite according ISO 6474-2
Locking screws: titanium alloy TA6V according ISO 5832-3
Vacuum packed. Gamma ray sterilised.



Designed and
Manufactured in
France

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C R E A T E U R F A B R I C A N T

Product Sheet
**DM Cemented
& Cross-shell**
Fiche Produit



*Dual Mobility Cemented
acetabular Cup and Protrusio cross-shell*

Cupule acétabulaire à double
mobilité à Ciment et Croix de
reconstruction

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MOTION INSIDE

E v o l u t i s
C R E A T E U R F A B R I C A N T



CAPTIV

press fit dual mobility cup



POLYETHYLENE

Crosslinked Polyethylene



CAPITOLE

Cemented dual mobility cup

10 years clinical use

CAPTIV DM[®]
CAPITOLE[®]

DUAL MOBILITY: A GUARANTEE OF STABILITY

CAPTIV DM :

Dual Mobility ensures a high degree of articular stability and large range of motion. Primary stability is ensured by an excellent peripheral press fit.

CAPTIV specifications :

- The cups are made from nitrogen enriched M30 stainless steel : this steel is 40% more resistant than 316L and much less prone to corrosion. It avoids the risk of galvanic corrosion with titanium coating.
- The cup is entirely coated with a layer of 150 microns of porous titanium with a second coating of 100 microns of osteoconductive hydroxyapatite
- Peripheral pressfit is proportional to size with an average of 1mm.
- The pole is congruent with bone reamed, it is recommended to use the same size cup as the reamer ensuring the press fit.



CAPITOLE :

A complete range of Dual Mobility cups :
press-fit and cemented Dual Mobility ensures a high degree of articular stability and large ranges of motion.

CAPITOLE specifications :

- The cemented CAPITOLE C cup has a mobile insert for enhanced stability in different indications.
- Stainless steel cup, mirror polished inside and on the outside.
 - Reaming and cup size are size for size.
 - The cup has incorporated spacers which guarantee a regular cement mantle according to Charnley principles.
- The peripheral rim is flanged which ensures correct centring of the cup and cement pressurisation. The cement escapes via 3 vents.

Cement mantle and pressurisation is therefore of good quality.



MOBILE INSERT :

- The chamfered mobile insert is strongly retentive in order to prevent the head from dislocating.

Test CRITT (Independent Laboratory) :105,5daN pull out (1 daN equivalent to 1Kg).

- The polyethylene sphere behaves like a big head of at least 40 mm which ensures a large range of motion and stability which has been shown to be above 99,8%.

- Internal diameter for different heads. :

*Polyethylene for Ø28 mm heads.

- The range of sizes extends from Ø46mm to Ø62 mm (Ø47mm to Ø61mm Cemented).

Polyethylene wear of the retentive collar is reduced by the self centring anti capsizing insert which automatically realigns itself in the axis of constraints.



PEXEL® Polyethylene, "moderately crosslinked"

Ultra high molecular weight polyethylene (over 7 million), only made by extrusion. Cross linkage is obtained by using a moderate level of irradiation of about 40 kGy under vacuum.

Vac U Pac packaging is done under vacuum in a foil pouch free of oxygen, (seal validation undertaken by the Laboratoire National d'Essai (LNE))

Wear test undertaken by CERAH laboratory on a CAPITOLE T cup with an aged polyethylene:

- After 5 000 000 de cycles, the amount of mass lost was 131,7 mg, which corresponds to a penetration rate of 0,05 mm/year ; ie 5 times less than with standard polyethylene.
- The graph represents mass lost during walking cycles, getting up from a chair and stairs.



References

CAPITOLE C dual mobility Cemented cup Cupule à Ciment à double mobilité CAPITOLE C

Shell ϕ Cupule	CAPITOLE C	$\phi 22.2$ PE Liner / Insert	$\phi 28$ PE Liner / Insert
$\phi 45$	H51 C045	H51 M2245	-
$\phi 47$	H51 C047	H51 M2247	H51 M2847
$\phi 49$	H51 C049	H51 M2249	H51 M2849
$\phi 51$	H51 C051	H51 M2251	H51 M2851
$\phi 53$	H51 C053	H51 M2253	H51 M2853
$\phi 55$	H51 C055	H51 M2255	H51 M2855
$\phi 57$	H51 C057	H51 M2257	H51 M2857
$\phi 59$	H51 C059	H51 M2259	H51 M2859
$\phi 61$	H51 C061	H51 M2261	H51 M2861

Protrusio Cross-shell Croix de reconstruction

Size / Taille	For cemented cup ϕ Pour cupule ϕ	Inner ϕ Interne	Outer ϕ Externe	Cat N°
$\phi 46$	≤ 45	46	50	H13 046
$\phi 50$	46 - 49	50	54	H13 050
$\phi 54$	50 - 53	54	58	H13 054
$\phi 58$	54 - 57	58	62	H13 058
$\phi 62$	58 - 61	62	66	H13 062

Screws Vis

Description	ϕ (mm)	L. (mm)	Cat N°
Cortical screw / Vis corticale	5	35	H16 S5035
Cortical screw / Vis corticale	5	40	H16 S5040
Cortical screw / Vis corticale	5	45	H16 S5045
Cortical screw / Vis corticale	5	50	H16 S5050
Cortical screw / Vis corticale	5	55	H16 S5055
Cortical screw / Vis corticale	5	60	H16 S5060

Instrumentation
CAPITOLE
Curved Handle
Manche Courbe
H52 9101

Instrumentation
CAPITOLE
Straight Handle
Manche Droit
H52 9100

Instrumentation
Cross-shell
Croix de
reconstruction
H03 9102

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MOTION INSIDE

Mentions légales :
Les implants acetabulaires CAPITOLE sont des dispositifs médicaux implantables de classe III indiqués pour les arthroplasties primaires totales (PTH) ou en révision (PTHR) de la hanche selon la version.
Les Croix de reconstruction sont des dispositifs médicaux implantables de classe IIb indiqués pour les révisions d'arthroplasties (PTHR) de la hanche.
Les implants CAPITOLE et Croix de reconstruction sont pris en charge par l'assurance maladie. Informations sur www.ameli.fr.
Le chirurgien est expressément invité à prendre connaissance des instructions mentionnées sur la notice d'utilisation incluse dans le conditionnement du DMI, ainsi que celles portées sur le manuel de technique opératoire délivré à la mise en place du produit ou disponible en téléchargement sur le site www.evolutisfrance.com.

Materials / Matériaux :
Cups: Stainless steel according ISO 5832-1
Liners: UHMWPE according ISO 5834-1 & 2
Cross-shell: Stainless steel according ISO 5832-1 with spacers in UHMWPE according ISO 5834-1 & 2
Screws: Stainless steel according ISO 5832-1
Packaging: Sterilized under Gamma irradiation, VacUpac packaging
Cupules : Acier inoxydable selon ISO 5832-1
Inserts : UHMWPE selon ISO 5834-1 et 2
Croix de reconstruction : Acier inoxydable selon ISO 5832-1 et spacers en UHMWPE selon ISO 5834-1 & 2
Vis : Acier inoxydable selon ISO 5832-1
Conditionnement : Stérilisé sous rayonnement Gamma, conditionnement VacUpac

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www.evolutisfrance.com



Cupules CAPTIV® Acetabular cups

Description	Ø	Réf. Cat N°	Description	Ø	Réf. Cat N°
HA ss ciment Press-Fit / C. less HA Press-Fit	44	H29 DM044	HA ss. ciment av. picots / C. less HA with spikes	44	H29 DM144
HA ss ciment Press-Fit / C. less HA Press-Fit	46	H29 DM046	HA ss. ciment av. picots / C. less HA with spikes	46	H29 DM146
HA ss ciment Press-Fit / C. less HA Press-Fit	48	H29 DM048	HA ss. ciment av. picots / C. less HA with spikes	48	H29 DM148
HA ss ciment Press-Fit / C. less HA Press-Fit	50	H29 DM050	HA ss. ciment av. picots / C. less HA with spikes	50	H29 DM150
HA ss ciment Press-Fit / C. less HA Press-Fit	52	H29 DM052	HA ss. ciment av. picots / C. less HA with spikes	52	H29 DM152
HA ss ciment Press-Fit / C. less HA Press-Fit	54	H29 DM054	HA ss. ciment av. picots / C. less HA with spikes	54	H29 DM154
HA ss ciment Press-Fit / C. less HA Press-Fit	56	H29 DM056	HA ss. ciment av. picots / C. less HA with spikes	56	H29 DM156
HA ss ciment Press-Fit / C. less HA Press-Fit	58	H29 DM058	HA ss. ciment av. picots / C. less HA with spikes	58	H29 DM158
HA ss ciment Press-Fit / C. less HA Press-Fit	60	H29 DM060	HA ss. ciment av. picots / C. less HA with spikes	60	H29 DM160
HA ss ciment Press-Fit / C. less HA Press-Fit	62	H29 DM062	HA ss. ciment av. picots / C. less HA with spikes	62	H29 DM162

Inserts DM CAPTIV® DM Liners

Ø de cupule Ø of cup	Description	Tête / Head 22.2	Ø Tête / Head Ø 28
44	Insert UHMWPE PEXEL UHMWPE liner	H51 M2245	
46	Insert UHMWPE PEXEL UHMWPE liner	H51 M2247	H51 M2847
48	Insert UHMWPE PEXEL UHMWPE liner	H51 M2249	H51 M2849
50	Insert UHMWPE PEXEL UHMWPE liner	H51 M2251	H51 M2851
52	Insert UHMWPE PEXEL UHMWPE liner	H51 M2253	H51 M2853
54	Insert UHMWPE PEXEL UHMWPE liner	H51 M2255	H51 M2855
56	Insert UHMWPE PEXEL UHMWPE liner	H51 M2257	H51 M2857
58	Insert UHMWPE PEXEL UHMWPE liner	H51 M2259	H51 M2859
60	Insert UHMWPE PEXEL UHMWPE liner	H51 M2261	H51 M2861
62	Insert UHMWPE PEXEL UHMWPE liner	H51 M2263	H51 M2863



Instrumentation CAPTIV® Instrument Set

Description	H30 9102 Droit/Straight	H30 9104 Courbe/Curved	Description	H30 9102 Droit/Straight	H30 9104 Courbe/Curved
Plateau avec couvercle / Tray with Lid	H30 9002	H30 9004	Préhenseur de cotyle Ø46-47 cup impaction tip	H52 2247	H52 P47
Corps d'impacteur / Cup impactor (body)	H52 007	-	Préhenseur de cotyle Ø48-49 cup impaction tip	H52 2249	H52 P49
Vis d'impacteur / Cup impactor (Screw)	H52 008	-	Préhenseur de cotyle Ø50-51 cup impaction tip	H52 2251	H52 P51
Manche impacteur courbe / Curved impaction	-	H52 036	Préhenseur de cotyle Ø52-53 cup impaction tip	H52 2253	H52 P53
Tige d'orientation Ø18 Orientation axis	H03 013	H76 019	Préhenseur de cotyle Ø54-55 cup impaction tip	H52 2255	H53 P55
Presse à insert / Liner press	H52 033		Préhenseur de cotyle Ø55-56 cup impaction tip	H52 2257	H52 P57
Vis de presse à insert / Liner press screw	H52 030		Préhenseur de cotyle Ø57-58 cup impaction tip	H52 2259	H52 P59
Centreur de tête / Femoral head centralizer	H52 031		Préhenseur de cotyle Ø59-60 cup impaction tip	H52 2261	H52 P61
Embout poussoir d'insert / Liner pusher tip	H52 035		Préhenseur de cotyle Ø62-63 cup impaction tip	H52 2263	H52 P63
Réducteur d'essai Ø22.2 trial insert adaptor	H52 2228		Cotyle d'essai Ø44 trial cup	H03 0244	
Manche impacteur M10 Impaction shaft	H03 036		Cotyle d'essai Ø46 trial cup	H03 0246	
Embout poussoir de cupule / Cup impaction tip	H03 037		Cotyle d'essai Ø48 trial cup	H03 0248	
Sphère d'impaction / Impaction spherical tip	H62 005		Cotyle d'essai Ø50 trial cup	H03 0250	
Insert d'essai Ø 22/44-45 trial liner	H52 M2245		Cotyle d'essai Ø52 trial cup	H03 0252	
Insert d'essai Ø 28/46-47 trial liner	H52 M2847		Cotyle d'essai Ø54 trial cup	H03 0254	
Insert d'essai Ø 28/48-49 trial liner	H52 M2849		Cotyle d'essai Ø56 trial cup	H03 0256	
Insert d'essai Ø 28/50-51 trial liner	H52 M2851		Cotyle d'essai Ø58 trial cup	H03 0258	
Insert d'essai Ø 28/52-53 trial liner	H52 M2853		Cotyle d'essai Ø60 trial cup	H03 0260	
Insert d'essai Ø 28/54-55 trial liner	H52 M2855		Cotyle d'essai Ø62 trial cup	H03 0262	
Insert d'essai Ø 28/56-57 trial liner	H52 M2857				
Insert d'essai Ø 28/58-59 trial liner	H52 M2859				
Insert d'essai Ø 28/60-61 trial liner	H52 M2861				
Insert d'essai Ø 28/62-63 trial liner	H52 M2863				
Préhenseur de cotyle Ø44-45 cup impaction tip	H52 2245	H52 P45			

Options

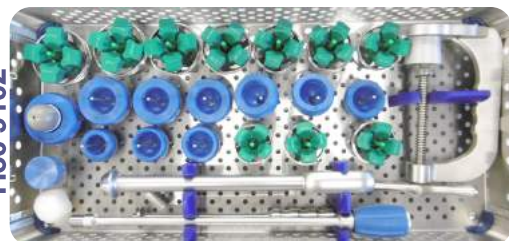
Réf.
Cat N°

Tige d'orientation Ø12 Orientation axis (Tommy bar)

H03 007

Instrum. fraises à cotyle / Grater Reamer set

H03 9100



Mentions légales :

Les implants CAPTIV DM sont des dispositifs médicaux implantables de classe III indiqués pour les arthroplasties primaires totales (PTH) de la hanche.
Les implants CAPTIV DM sont pris en charge par l'assurance maladie.
Le chirurgien est expressément invité à lire attentivement les instructions mentionnées sur la notice d'utilisation incluse dans le conditionnement du DMI, ainsi que le manuel de technique opératoire délivré à la mise en place du produit ou disponible en téléchargement sur le site www.evolutisfrance.com.

Materials / Matériaux :

Cups: High Nitrogen content Stainless Steel according ISO 5832-9 with T40 and calcium hydroxyapatite coatings
Polyethylene liners: UHMWPE according ISO 5834-1 & 2 moderately crosslinked
Packaging: Sterilized under Gamma irradiation, VacUpac packaging
Cupules : Acier Inoxydable à haute teneur en azote selon ISO 5832-9 revêtu T40 et Hydroxyapatite de Calcium
Inserts polyéthylène : UHMWPE selon ISO 5834-1 et 2 modérément réticulé
Conditionnement : Stérilisé sous rayonnement Gamma, conditionnement VacUpac



Evolutis

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Designed and
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France

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COVISION
ORTHOPAEDICS

SUPERICA Medial-Pivot Knee System
Surgical Technique



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Introduction

Why set out to design a better knee system? Today, according to the latest literature, nearly 20% of all patients are unhappy with their total knee replacement due to residual pain, functional issues and early implant failure.

Superica Knee System is designed to answer the limitations of traditional implants by delivering superior flexion stability, anatomic motion, and wear-limiting design characteristics.

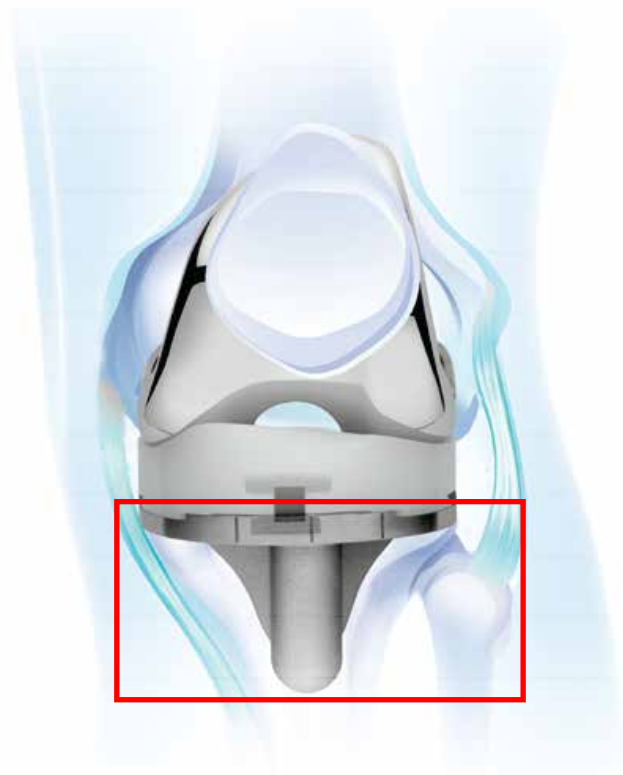
Stable Motion, Normal Function, Natural Feel

The Medial-Pivot Knee is uniquely engineered to reproduce a healthy knee's stability and motion. With a stable, pivoting medial side and a lateral side that rolls forward or backward throughout flexion, the SUPERICA MEDIAL PIVOT Knee System is designed to feel and function like a natural knee.

ACL-PCL Substituting

High Conformity, Constant Radius, Unique Design.

The Medial-Pivot Knee features a highly conforming medial side that results from a constant radius design. Reproducing the natural function and stability of the ACL and PCL, this design is unique from every other less conforming traditional knee system. It gives the MedialPivot Knee natural motion, so it feels more like a normal knee.



Introduction

High Conformity

High Conforming Articulations, Stable Range of Motion, Fewer Revisions.

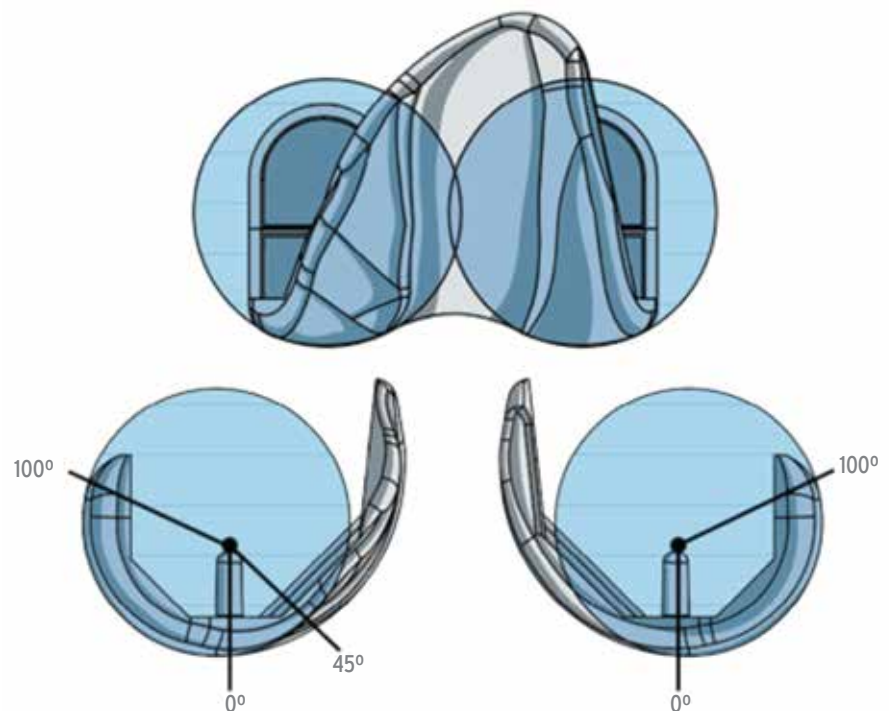
It is routine for patients to complain of instability following a traditional knee replacement. Studies also clearly show instability to be the leading cause of early revisions. By delivering a more secure, highly conforming articulation, the Supera Knee System provides the kind of stability throughout the range of motion that patients seek.

Constant Radius

Natural Biomechanics, Anterior-Posterior Stability.

With a constant radius design, the new Knee System gives patients a more stable feeling and more normal biomechanics. The constant radius in both the coronal and sagittal planes is uniquely designed to mimic the movement of the natural knee. This is a significant benefit over traditional multi-radius implants, which are typically less stable and fail to deliver the same natural feeling to the patient.

With a constant radius femoral component featuring a highly congruent tibial insert, the new Knee System also delivers superior stability in mid-flexion and prevents anterior-posterior translation. The simple result is that the Supera constant radius knee design has been documented in literature to achieve higher clinical function than competitive multi-radius designs.



Only knee design with spherical geometry in both sagittal and coronal planes.

Introduction

Feels Normal, Behaves Naturally, Functions Like the Human Knee.

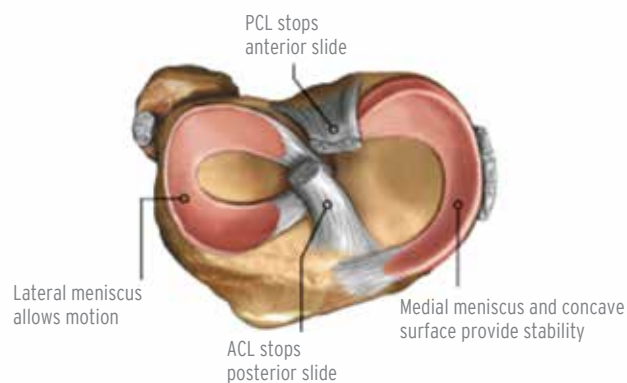
With the increasingly active lives of patients today, they have come to demand and expect an implant that feels normal and behaves naturally. The Superica MEDIAL PIVOT Knee System has uniquely designed structures, contours and movements that look, feel and function like the human knee. This is in stark contrast to traditional knee replacements that do not possess design features similar to the human knee, and thus do not reproduce performance that feels like a natural knee.

Equally important and essential to a normal feeling replacement is the Superica Knee System global sizing profile. It helps assure a more natural fit that promotes normal feeling functionality and higher quality of life.

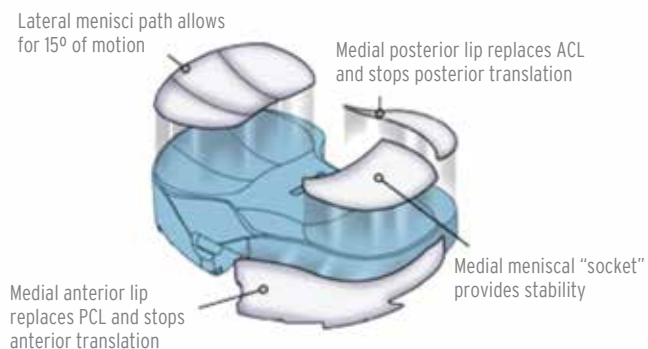
Replicates ACL and PCL, Preferred Over All Other Designs, More Natural Feeling.

One reason patients can tell the difference between their natural knee and a replacement is soft tissue. One study found that our Medial-Pivot design, which effectively substitutes for the ACL and PCL, is strongly preferred over all other designs (CR, PS, and Mobile-Bearing).²

The Superica tibial insert features a high anterior and posterior lip which substitutes for both cruciate ligaments and delivers a more normal feeling for the patient. The result is a more natural feeling for patients that increases proprioception.



Anatomic structure of the normal knee.



Knee System replicates normal knee structures to recreate natural function.

Intended Use

SUPERICA MEDIAL PIVOT instrumentation is designed to be applicable to both less-invasive and standard total knee procedures. Therefore, surgeons should employ the technique they are most comfortable with; be it medial parapatellar, subvastus or midvastus. With the SUPERICA MEDIAL PIVOT instrumentation, the preparation of the femur and tibia can be performed independently. This choice is left to the surgeon's discretion.

Indications

COVISION Total Knee Systems are indicated for use in knee arthroplasty in skeletally mature patients with the following conditions:

1. noninflammatory degenerative joint disease including osteoarthritis, traumatic arthritis, or avascular necrosis;
2. inflammatory degenerative joint disease including rheumatoid arthritis;
3. correction of functional deformity;
4. revision procedures where other treatments or devices have failed; and treatment of fractures that are unmanageable using other techniques.

SUPERICA Medial-Pivot Tibial Base and Insert Components are for use with bone cement.



Surgical Technique

Proper surgical procedures and techniques are ultimately the responsibility of the operating medical professionals. The following guidelines are furnished for informational purposes only and relate specifically to the use of the SUPERICA Total Knee Prosthesis instruments and trials by Covision. Each surgeon must evaluate the appropriateness of the information provided based on his or her personal training and experience.

1. Distal Femoral Resection

Initiate an opening in the femoral canal with the 9.5mm (3/8") diameter drill bit. The hole may be placed slightly medial and anterior to the intercondylar notch. Insert the fluted IM reamer/rod into the femoral canal, being sure to irrigate and aspirate several times to reduce the chance of a fat embolus. Turn the reamer during insertion with the T-handle. FIGURE 1-2

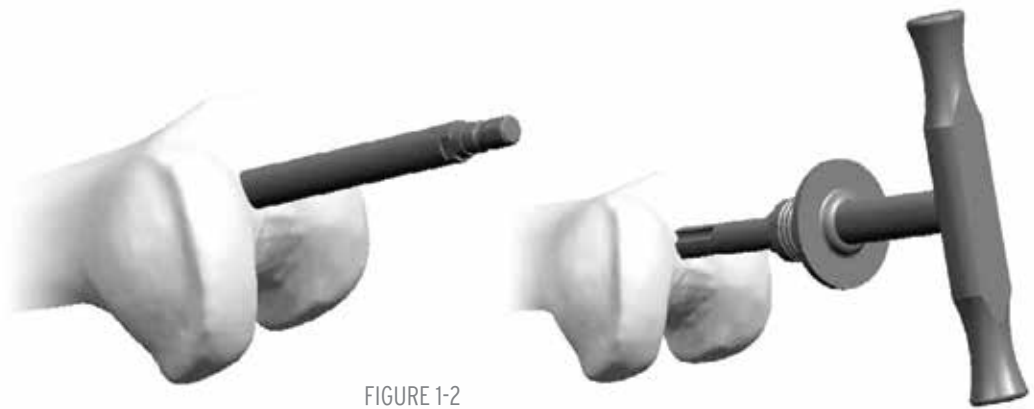


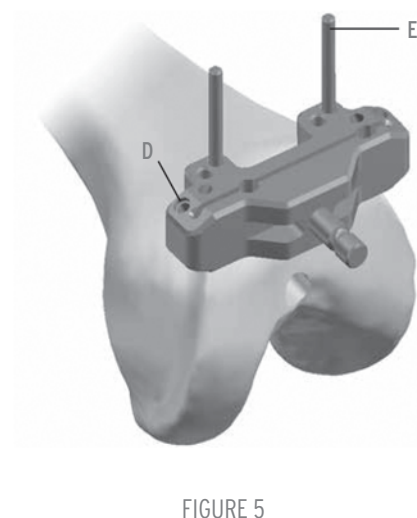
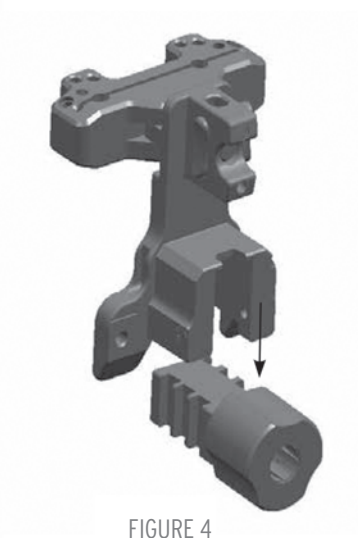
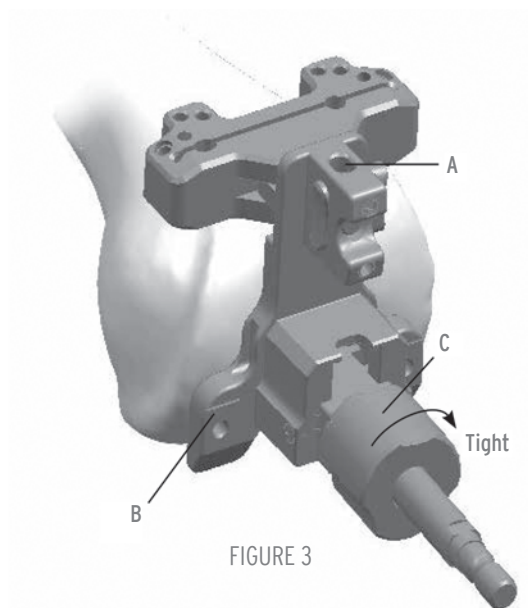
FIGURE 1-2

Distal resection blocks are available in 9mm, 11mm, and 13mm. Load the appropriate distal resection block onto the distal resection paddle and lock them together by sliding the locking button to the right (FIGURE 3).

Insert the distal resection paddle onto the valgus bushing. The valgus bushing has both a "Left" and "Right" side, and has three slots which allow 3°, 5°, or 7° of valgus. Ensure the "Left" side of the bushing is superior for a left knee and the "Right" side is superior for a right knee. Slide the valgus alignment bushing down the IM rod until the distal resection paddle rests against the unresected prominent distal condyle. Although rotation is not critical at this step, the distal resection paddle features two lines which may be aligned with the epicondyles. | B in FIGURE 3 Lock the valgus alignment bushing to the rod by turning the knurled knob until it is tight. The knurled knob is highly geared. Only 1/4 turn allows to lock the jig rod. | C in FIGURE 3.

Pin the block to the anterior cortex with two headless pins through the "Std" holes. Additional fixation pins may be added through the divergent holes. | D in FIGURE 4 Slide left the locking button to detach the resection block and remove the IM rod, distal resection paddle and valgus bushing.

Surgical Technique



Related Instruments:



Re-cutting the Distal Femur

Insert the fluted IM reamer/rod into the femoral canal with the help of the T-handle . Load a distal resection block (available in 9mm, 11mm and 13mm) onto the distal resection paddle and lock them together. Insert the distal resection paddle onto the valgus bushing. Slide the 7mm distal spacer against the interior face of the distal resection paddle until it clicks. | A in When utilized, the distal spacer will reduce the distal resection made by 7mm. (For example, it will allow a 2mm distal resection when used with the 9mm distal resection guide.) Slide the reamer into the intramedullary canal until the distal spacer contacts the distal femur. Pin the resection block in place with two headless pins . Slide left the locking mechanism to detach the resection block and remove the IM rod, distal resection paddle and valgus bushing. Perform the distal re-cut.

2. Femoral Sizing and Rotation

NOTE: The caliper must be set for the appropriate knee. For example: If used on a right knee, the "Right" marking must be facing the observer and the "Left" marking should be against the bone. To set the caliper for the opposite knee, remove the posterior feet, rotate the caliper and reinsert the feet.

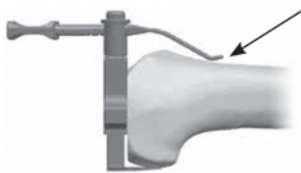
Place the sizing caliper flush against the resected distal femur. Adjust the sizer so the posterior feet rest against the posterior condyles. The stylus should be pushed proximally until it "clicks". Each click represents one femoral size. The stylus should be pushed until the number of clicks equals the suspected femoral size.

The stylus size markings are read at the point where the stylus enters the back of the stylus holder. | A in FIGURE 6. The tip of the stylus should touch the most prominent aspect of the anterior cortex just proximal to the lateral anterior condyle. While performing this check, pay attention to not push on the caliper.

The femoral size is read through the windows in the anterior face of the sizing caliper. The resection block preparation holes are drilled through the 3° holes with the 3.2 mm (1/8") drill bit which features a collar at the correct depth. | FIGURE 7 This sets 3° of external rotation relative to the posterior condylar axis.

In the severe varus or valgus knee, the posterior condylar axis may not be a reliable reference for femoral rotation. Instead rotation may be set visually referencing the epicondylar line. If rotation must be set visually, the caliper features a central window with crosshairs. Remove the posterior feet and, with the caliper resting on the distal resection, the crosshair window should be aligned to the epicondylar line. | FIGURE 8 Once aligned, the peg holes are drilled through the 0° holes. Once holes are drilled, remove the sizing caliper and stylus assembly.

Precision Pointer



Make sure the caliper rests flat on the distal surface

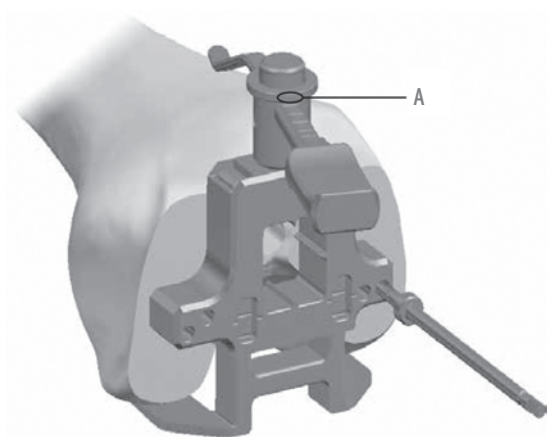


FIGURE 6



FIGURE 7



FIGURE 8

Related Instruments:



Sizing Caliper



3.2mm (1/8") Drill Bit



Sizing Stylus

3. Anterior and Posterior Resections

NOTE: Take care to protect the collateral ligaments during resections.

Select the femoral resection block corresponding to the size indicated by the sizing caliper. If the femoral size is found to be between sizes, the bigger size should be utilized, since this choice will not jeopardize the option of downsizing. Place the pegs on the back of the femoral resection block into the holes drilled through the sizing caliper.

The femoral resection blocks may be used to double-check the femoral size. The distance between the pin outriggers on the sides of the block is the same width as the corresponding femoral component. | **FIGURE 9** To confirm A/P size, an 8mm posterior resection gauge is available. It has the same thickness as the posterior condyles of sizes 1 through 5. When placed in the posterior slot of the resection block it is possible to determine if the proper amount of posterior condyle will be resected. | **FIGURE 9** To check the risk of anterior notching the dual reference gauge should always be used. If it appears too much or too little of the posterior condyles are being removed or there will be anterior notching, a 2mm re-drill guide is available. | **FIGURE 10** This allows the block peg holes to be re-drilled 2mm above or below the existing holes. To utilize the guide, remove the femoral resection block and place the re-drill guide in the existing holes. While maintaining pressure on the guide, re-drill through the appropriate holes and re-insert the femoral resection block in the new drilled holes. These holes do not have to be in the same location as the final implant pegs, which will be prepared with the femoral trials.

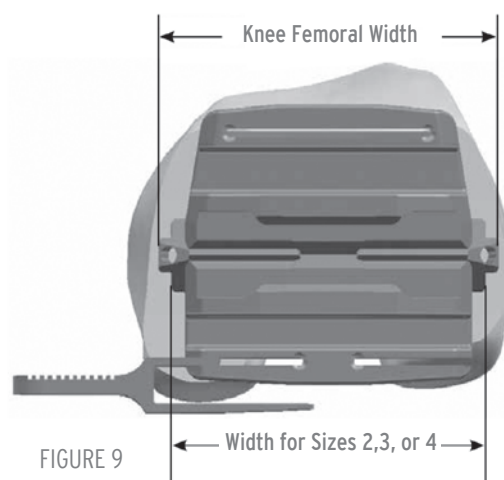


FIGURE 9

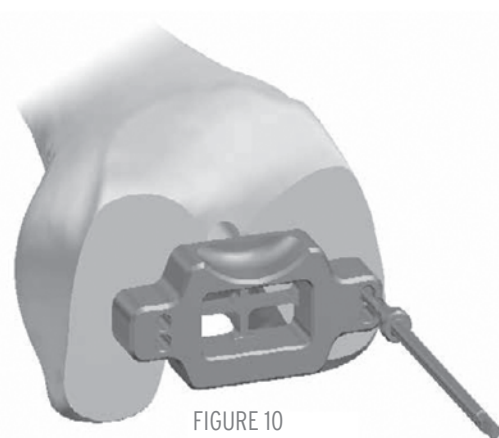


FIGURE 10

Stabilize the resection block against the bone using 3.2mm (1/8") diameter pins on the medial and lateral sides of the block. The tightening of the pins should be completed by using the T-handle in combination with the threaded pin driver.

The resection is then performed in this recommended order: anterior cut (1), then the posterior cut (2) followed by the posterior chamfer (3) and ending with the anterior chamfer (4). | **FIGURE 11**

NOTE: A narrow saw blade must be used for the chamfer resections.

After resections have been made, the pins are withdrawn. Assemble the resection block/femoral trial extractor on the slaphammer and slide it on the resection block for extraction. | **FIGURE 12**

Surgical Technique

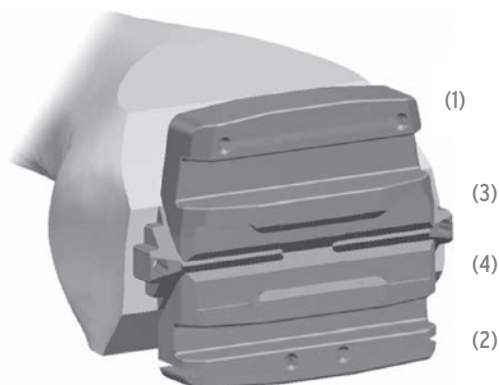


FIGURE 11

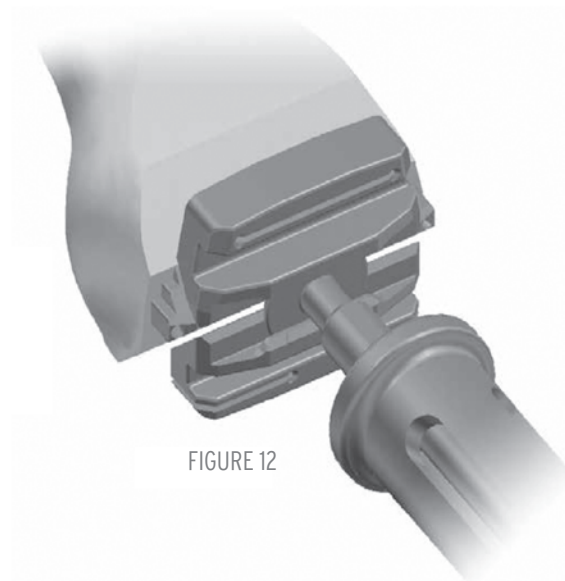


FIGURE 12

Related Instruments:



Femoral Resection Block



Dual Reference Gauge



Resection Gauge



2mm Re-drill guide



Threaded Pin Driver



T-handle Reamer



Slaphammer



3.2mm (1/8") Diameter Pins



Resection Block/Femoral Trial Extractor

In case it is determined a femoral downsizing is necessary for a proper balancing, position on existing holes a smaller femoral resection block than the one previously used.

SUPERICA femoral components are designed to maintain a common distance from stabilizer pegs to the anterior flange resection. Therefore you don't have to re-cut through the anterior slot.

Stabilize the resection block against the bone using 3.2mm (1/8") diameter pins on the medial and lateral sides of the block. Proceed with the resection of the posterior cut, followed by the posterior and anterior chamfer, as described in the "Anterior and Posterior Resections" chapter. |

4. Trochlear Groove Resection

Select the trochlear groove resection block corresponding to the size indicated by the sizing caliper. Place the trochlear groove resection block on the femur. | FIGURE 13 The width of the block is the same M/L width as the femoral implant and dictates the final implant location. If the trochlear groove resection block is indicating an overhanging, you'll need to switch to the corresponding SUPERICA notch block specific trochlear groove resection block. | FIGURE 14

Some surgeons place the guide along the lateral edge of the femur to reproduce the natural Q-angle. Stabilize the trochlear groove resection block against the bone using 3.2mm (1/8") pins before resection. | A in FIGURE 14 The trochlear groove should be resected by using a 12.7mm (1/2") sawblade on the angled surface and along the sides of the central portion of the block. If your flexion/extension balance is correct, you can proceed with the preparation of the peg holes for the femoral implant. Using the 4.8mm (3/16") drill bits drill through the distal holes of the trochlear groove resection block. B in | FIGURE 14

NOTE: The peg holes for the implant can also be prepared during the femoral trialing step. If the flexion/extension balance has not been properly achieved at this stage and a femoral re-cut is necessary, the femoral resection block cannot be re-mounted onto the femur due to the 3.2 mm (1/8") pegs on the back of the blocks once the 4.8mm (3/16") peg holes have been drilled.

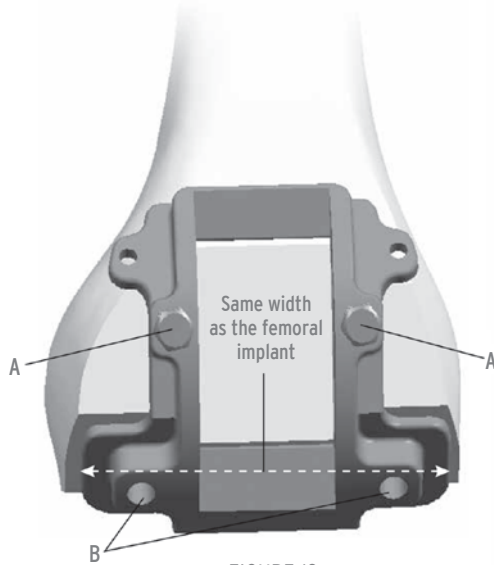


FIGURE 13

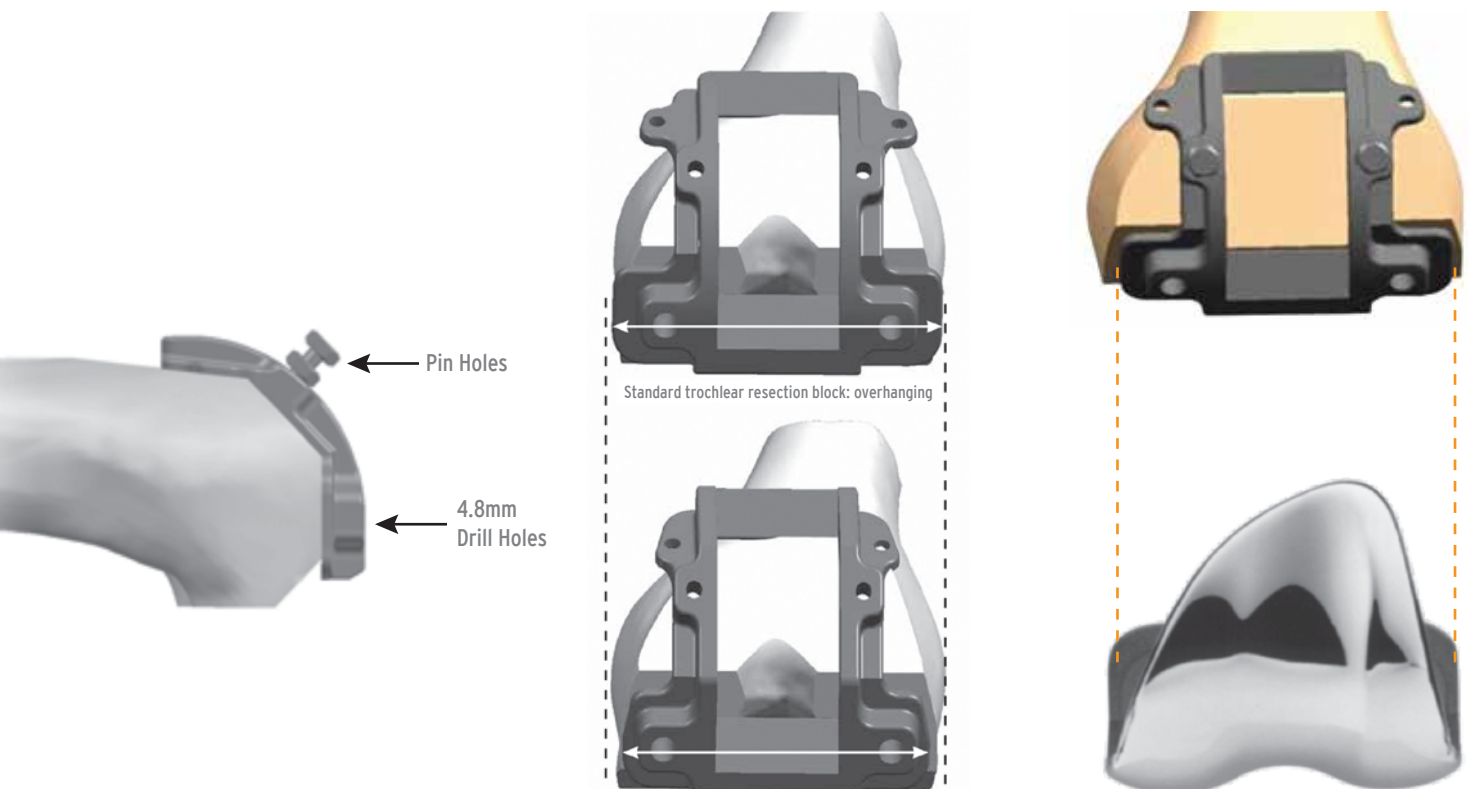


FIGURE 14

Related Instruments:



Trochlear Groove Resection Block



3.2mm (1/8") Diameter Pins



4.8mm (3/16") Drill Bit

Surgical Technique

Extramedullary Tibial Resection

Position the ankle clamp of the extramedullary (EM) tibial resection guide against the lower leg just proximal to the malleoli. | FIGURE 15 In case a more stable initial fixation is required, the EM tibial resection guide can be assembled using the spiked component. Slide the appropriate left or right tibial resection guide onto the guide and adjust the guide until the resection slot is located a few millimeters below the lowest articular surface. | FIGURE 15 When the vertical axis of the guide is parallel to the mechanical tibial axis, it is positioned for a 3° posterior sloped resection. Attach the external alignment guide and slide the alignment rod through the appropriate TL or TR (Tibia Left or Tibia Right) hole. If the rod is parallel to the tibia, 3° slope is confirmed. | FIGURE 16

Drop the 2mm/10mm stylus into one of the holes on the resection guide and turn the resection guide adjustment knob | A in FIGURE 16 until the proper resection is found. | FIGURE 16 Generally the stylus is set to resect 2mm from the most deficient side and/or 10mm from the most prominent. Pin the resection guide to the proximal tibia through the “std” holes. The alignment guide and rod can be used to check alignment to the ankle. If the resection guide is detached, it can be moved distally 2mm if headless pins are used. Use of a divergent pin is recommended to prevent the resection block from vibrating off the pins during resections. | B in FIGURE 16



FIGURE 15

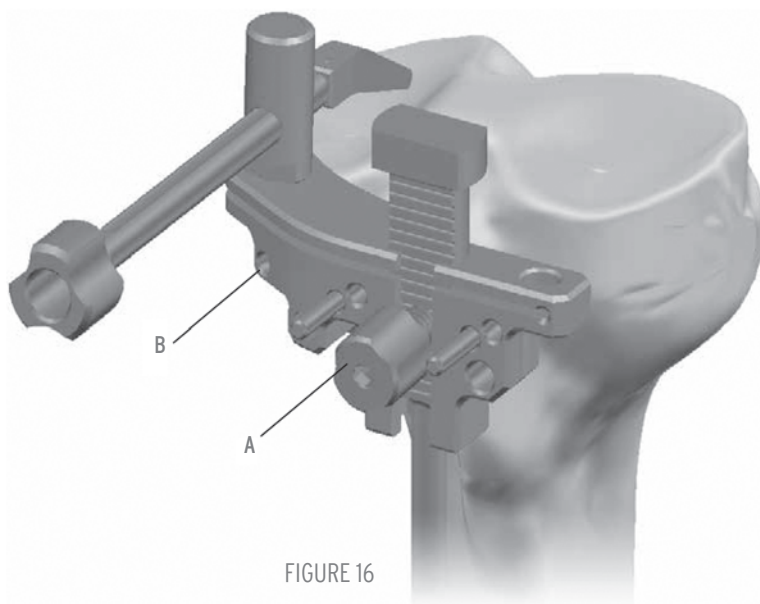


FIGURE 16

The correct height of the cut is determined based on preoperative x-ray templating and intraoperative status of the ligaments. A stylus is also available to help in determining the resection level. Drop the stylus into the resection guide hole: the stylus is set to resect 2mm from the most deficient side when it is positioned with the 0mm arm towards the tibial plateaux. It also features a 10mm arm which can be used to check the most prominent side. | FIGURE 17

Set the guide to the 0mm position to start. The height of the cut can be further fine tuned by turning the proximal knob of the guide. | A in FIGURE 18 By rotating the knob clockwise, the guide moves down.

For a proper stabilization of the guide, the spiked fixator can also be used. | FIGURE 19

Surgical Technique



FIGURE 17

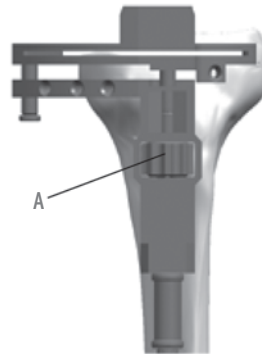


FIGURE 18



FIGURE 19

Intramedullary Tibial Resection (Optional)

The 9.5mm (3/8") drill bit is used to penetrate the proximal tibia just posterior to the tibial ACL footprint. Insert the fluted IM reamer/rod into the tibial canal with the help of the T-handle. | FIGURE 20 Irrigate and aspirate several times to reduce the chance of a fat embolus. The reamer/ rod should be inserted to at least the mid isthmus. Slide the tibial alignment guide onto the IM reamer/rod and insert the appropriate tibial resection guide. | FIGURE 21 Turn the locking screw to lock the guide to the IM reamer/rod. | A in FIGURE 21 Use of a divergent pin is recommended to prevent the resection block from vibrating off the pins during resections. | B in FIGURE 21



FIGURE 20

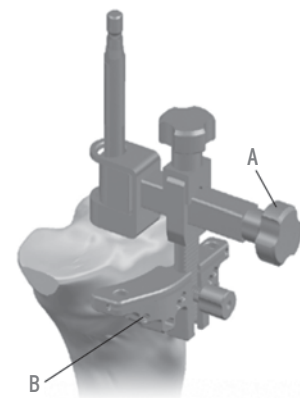


FIGURE 21

Surgical Technique

Drop the 2mm/10mm stylus into one of the holes on the resection guide to set the desired level of tibial resection. | A in FIGURE 22 Generally the stylus is set to resect 2mm from the most deficient side and/or 10mm from the most prominent. Pin the resection guide to the proximal tibia through the "std" holes. Before inserting a divergent pin, loosen the A/P adjustment knob and move the resection guide as close as possible to the tibia. | B in FIGURE 22 To detach the guide, loosen the resection guide knob | C in FIGURE 22 and extract the IM reamer/rod and alignment guide together. When the resection guide is detached from the guide, the block can be moved 2 mm distally if headless pins are used. Varus/valgus angulation can be checked to the ankle using the external alignment guide and rod. | FIGURE 23

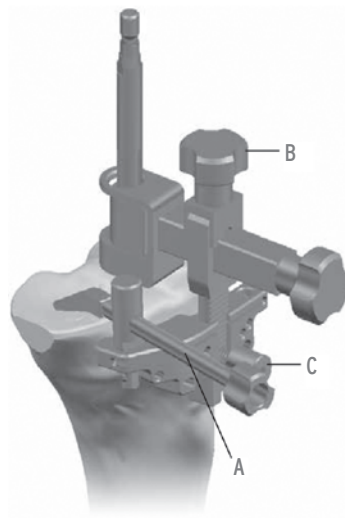


FIGURE 22

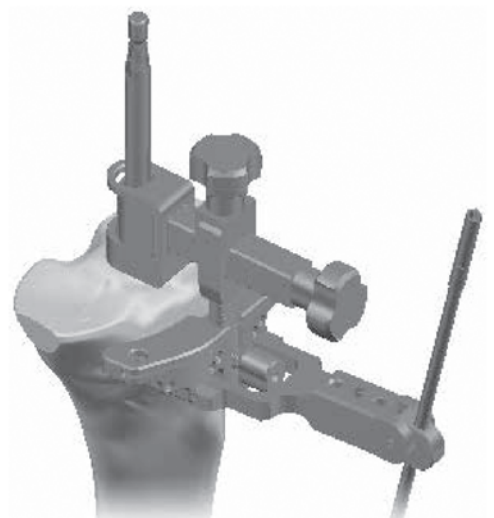


FIGURE 23

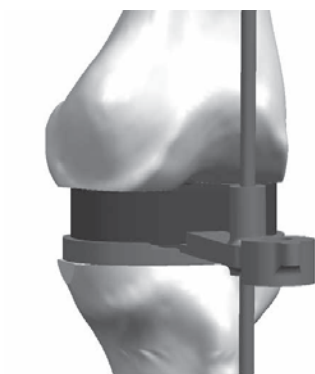


FIGURE 24

Extension Gap Measurement

The extension gaps are measured following the tibial and the distal femoral resections. Select the appropriate tibial base and mount it on the tibial base handle. With the knee fully extended, insert the 10mm spacer block into the space between the femur and tibia. If the spacer block does not fit in extension additional bone resection might be required. Use progressively thicker spacer blocks until the appropriate tension is obtained. Slide the external alignment rod through the hole to check alignment. FIGURE 24 If the 10mm spacer block does not fit, use the minus 2mm spacer block to determine the amount of additional bone resection required to achieve full extension.

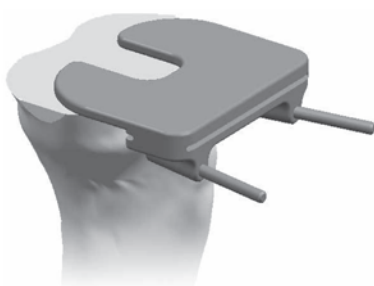


FIGURE 25

2mm Resection Guide

The 2mm resection guide is generally employed for use on the distal femoral and proximal tibial resections. To position the guide, place the anterior wings on the resected surface with the resection slot abutting the edge of the surface. | FIGURE 25 Two divergent pin holes are available for fixation.

Surgical Technique



FIGURE 26

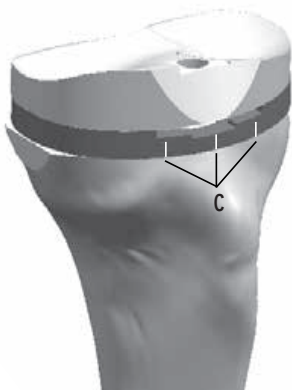


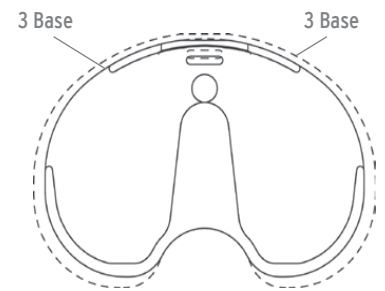
FIGURE 27

6. Tibial Sizing and Trial Reduction

Care should be taken to ensure the tibial plateau is completely flat after the resection is made. A tibial base trial can be used to check the flatness of the surface.

NOTE: In all SUPERICA Total Knee Inserts, the tibial insert size must match the femoral implant size. There are two tibial base sizes that can be used with any one size femoral component. For example a size 3 femoral implant can be used with either a size 3 or 3+ tibial base. |table 1

Femur	Insert	Tibia
1	1	1 or 1+
2	2	2 or 2+
3	3	3 or 3+
4	4	4 or 4+
5	5	5 or 5+



Assemble the appropriate trial tibial base to the trial base handle. The trial base is then placed onto the resected surface of the tibia and properly aligned (generally to the medial onethird of the tibial tubercle) to check overall coverage. If the tibial trial base size is too small, a "plus size" will provide additional tibial coverage. Place the appropriate size femoral trial on the distal femur using the femoral holder/driver. Insert the trial insert of appropriate size and thickness onto the trial base. If not done during the patella preparation, prepare the patellar peg holes, as described in the Patella Preparation chapter. Place the selected trial patella in place and complete the trial reduction. With the trial implants in place, perform an evaluation of the full range of motion to determine the final implant position. | FIGURE 26 If the final implant position is decided, the lines on the anterior portion of the tibial base can be used for marking the tibia to aid with alignment of the tibial base component during final implantation. | C in FIGURE 27

Reposition the tibial base trial and pin it to the tibia using short head anchoring pins through the anterolateral and posteromedial holes. | A in FIGURE 28 The alignment rod can be inserted through the handle to check alignment to the ankle. | B in FIGURE 28

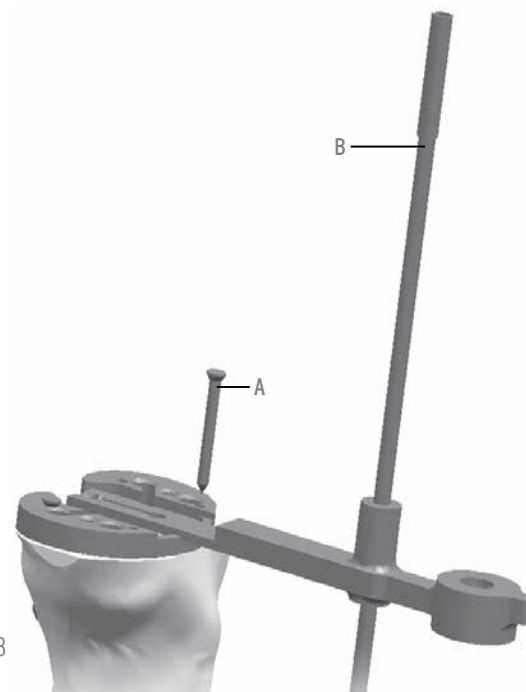


FIGURE 28

Surgical Technique

Table 2 | Instrument Sizing Matrix

Tibial Base Trial	Reamer	Keel Punches
Size 1	Line 1	Size 1/1+/2
Size 1+/2	Line 1	Size 1/1+/2
Size 2+/3	Line 2	Size 2+/3/3+/4
Size 3+/4	Line 2	Size 2+/3/3+/4
Size 4+/5	Line 3	Size 4+/5/5+
Size 5+	Line 3	Size 4+/5/5+

Table 2 should be used to determine the sizing compatibility of the instrumentation.

Attach the keel punch guide to the keel punch handle and secure it to the trial base by turning the knurled handle. | FIGURE 29 Using the threaded punch handle and appropriate press fit keel punch, plunge through the guide until the punch is fully seated and the punch collar is level with the edge of the guide. | A in FIGURE 30

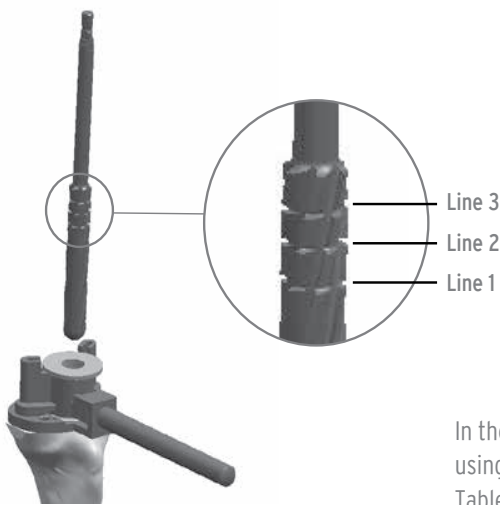


FIGURE 31

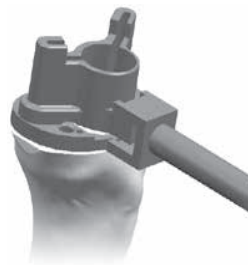


FIGURE 29

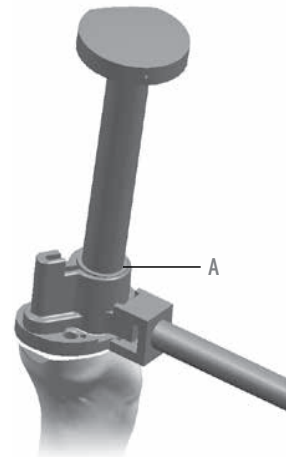
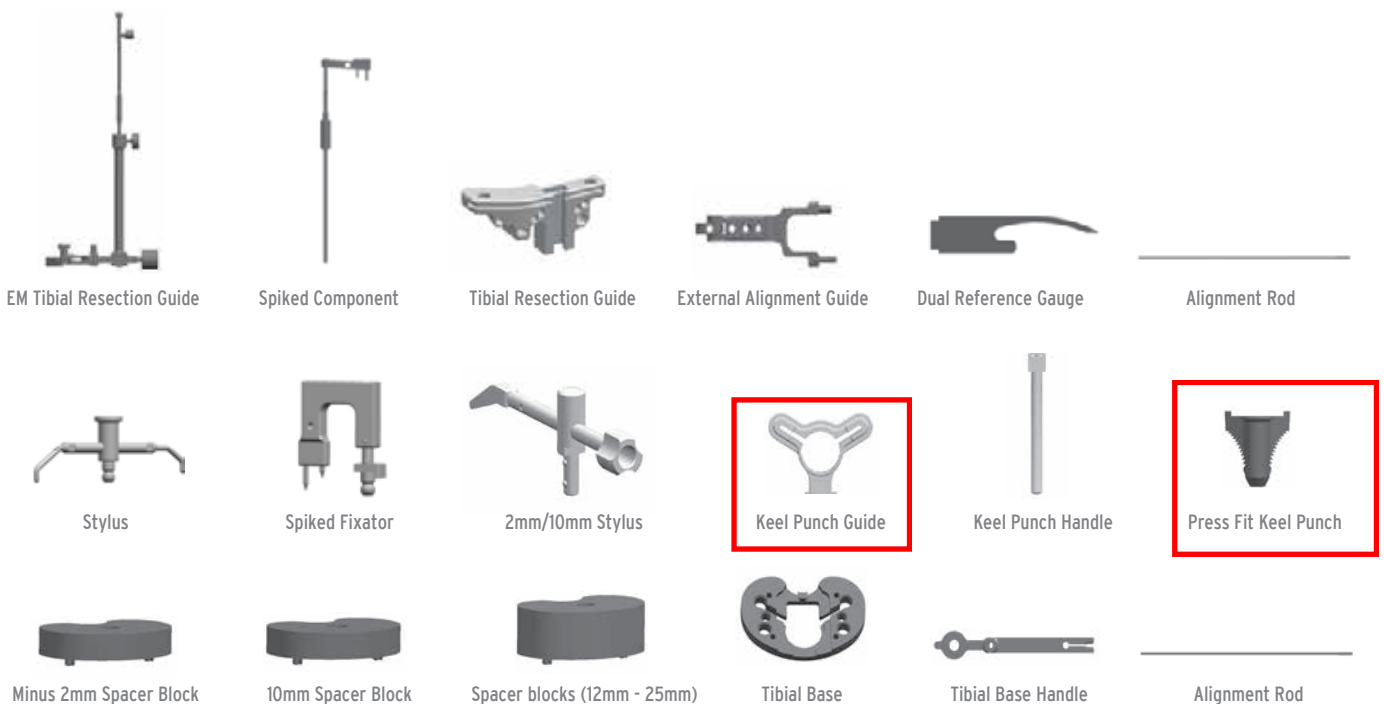


FIGURE 30

In the event of hard tibial bone, before punching, prepare the entry hole for the tibial stem using the 15 mm drill guide and the press fit reamer. | FIGURE 31 Referring to | FIGURE 31 and Table 2, ream through the drill guide to the appropriate line indicated on the reamer.

Related Instruments:



Surgical Technique

7. Implants Insertion

Tibial Base Insertion

The tibial bone bed is cleaned and bone cement is prepared and introduced according to standard recommendations. The inserter/extractor is utilized to implant the base by engaging the insert locking dovetail and impacting with a mallet until fully seated on bone. The monolithic tibial impactor can also be used to seat the tibial base. FIGURE 32

Optional: After the base has been inserted, the appropriate trial tibial insert can be used to recheck ligament and soft tissue balancing. | FIGURE 33 An additional trial insert pin may be placed through the trial insert into tibial base implant to provide a more secure construct during final assessment of joint stability. | A in FIGURE 33

NOTE: The trial insert only engages the central locking detail and a gap will be Present along the anterior periphery of the insert. | B in FIGURE 33



FIGURE 32

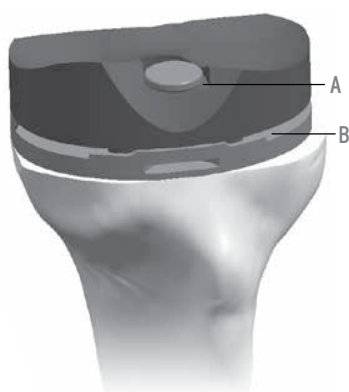


FIGURE 33



FIGURE 34



FIGURE 35



FIGURE 36

Femoral Component Insertion

The femoral bone bed is cleaned and bone cement is prepared and introduced according to standard recommendations. The femoral impactor is utilized for final seating of the femoral component. | FIGURE 37



FIGURE 37

Surgical Technique

Patella Option

NOTE: Instead of utilizing a clamp for patellar resection some surgeons prefer a non-instrumented technique.

With the leg extended, the patella is tilted to almost a 90° angle. The thickness of the patella is measured with the patella sizing caliper. The 8mm resection depth gauge is attached to the top of the resection guide with the lock screw. | A in FIGURE 38 Position the resection guide jaws parallel to the articular margin and securely clamp the guide to the bone; ensuring the gauge is contacting the apex of the articular surface. Remove the gauge and locking screw and make the patellar resection. The amount of bone to be resected is determined by trying to replicate with the patellar implant the thickness of the original patella and leaving at least 12mm of bone. | FIGURE 39

NOTE: The patellar peg holes may also be prepared after the tibial and femoral resections.

After having removed the resection guide, attach the appropriate drill guide to the patellar clamp. | A in FIGURE 40 The drill guides have grooves on their surfaces indicating the patellar diameter options. The appropriate tri-peg or central peg reamer is used to prepare the peg hole(s).

NOTE: The tri-peg spherical patellae have the same peg patterns between sizes and can be easily changed during trial reduction.

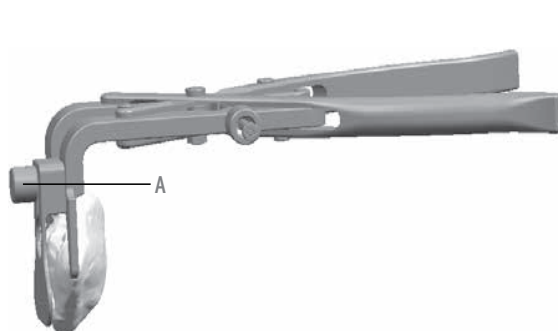


FIGURE 38



FIGURE 39

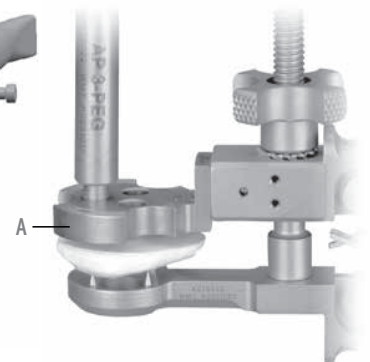


FIGURE 40

Related Instruments:



Postoperative Management

Postoperative care is the responsibility of the medical professional.



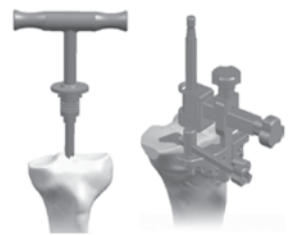
Technique Overview



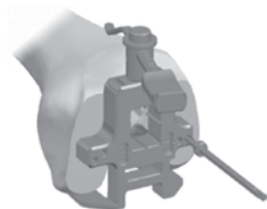
1. Distal Femur Preparation



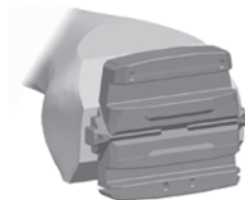
2a. Extramedullary
Tibial Preparation



2b. Intramedullary
Tibial Preparation



3. Femoral Sizing



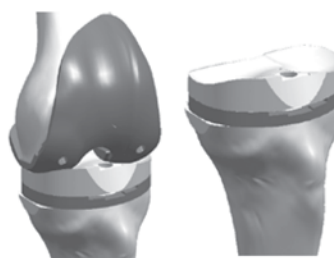
4. Femoral Resections



5. Flexion Gap
Measurement



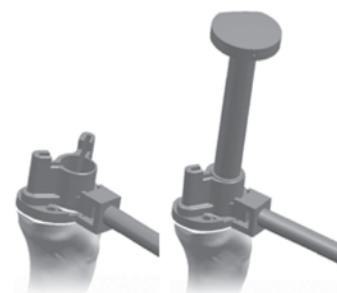
6. Trochlear Groove
Resection



7. Tibial Sizing and
Trial Reduction



8. Femoral Preparation



9. Keel Preparation



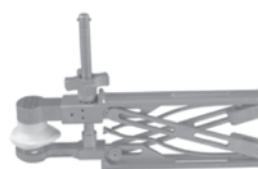
10. Tibial Base
Insertion



11. Tibial Insert
Insertion



12. Femoral Component
Insertion



13. Patella Component
Insertion

Ordering Information

Superica Cemented Femoral Components (CoCr)

Code	Size
65.5001	Left Size 1
65.5002	Left Size 2
65.5003	Left Size 3
65.5004	Left Size 4
65.5005	Left Size 5
65.5101	Right Size 1
65.5102	Right Size 2
65.5103	Right Size 3
65.5104	Right Size 4
65.5105	Right Size 5

Superica Tibial Components (CoCr)

Code	Size
65.5201	Size 1
65.5202	Size 2
65.5203	Size 3
65.5204	Size 4
65.5205	Size 5
65.5301	Size 1 Plus
65.5302	Size 2 Plus
65.5303	Size 3 Plus
65.5304	Size 4 Plus
65.5305	Size 5 Plus

Ordering Information

Superica Tibial Inserts

Code	Size
65.5010	Left 10mm Size1
65.5012	Left 12mm Size1
65.5014	Left 14mm Ölçü1
65.5017	Left 17mm Size1
65.5020	Left 20mm Size1
65.5025	Left 25mm Size1
65.5210	Left 10mm Size2
65.5212	Left 12mm Size2
65.5214	Left 14mm Size2
65.5217	Left 17mm Size2
65.5220	Left 20mm Size2
65.5225	Left 25mm Size2
65.5410	Left 10mm Size3
65.5412	Left 12mm Size3
65.5414	Left 14mm Size3
65.5417	Left 17mm Size3
65.5420	Left 20mm Size3
65.5425	Left 25mm Size3
65.5610	Left 10mm Size4
65.5612	Left 12mm Size4
65.5614	Left 14mm Size4
65.5617	Left 17mm Size4
65.5620	Left 20mm Size4
65.5625	Left 25mm Size4
65.5810	Left 10mm Size5
65.5812	Left 12mm Size5
65.5814	Left 14mm Size5
65.5817	Left 17mm Size5
65.5820	Left 20mm Size5
65.5825	Left 25mm Size5
65.5110	Right 10mm Size1
65.5112	Right 12mm Size1
65.5114	Right 14mm Size1
65.5117	Right 17mm Size1
65.5120	Right 20mm Size1
65.5125	Right 25mm Size1
65.5310	Right 10mm Size2
65.5312	Right 12mm Size2
65.5314	Right 14mm Size2
65.5317	Right 17mm Size2
65.5320	Right 20mm Size2
65.5325	Right 25mm Size2
65.5510	Right 10mm Size3
65.5512	Right 12mm Size3
65.5514	Right 14mm Size3
65.5517	Right 17mm Size3
65.5520	Right 20mm Size3
65.5525	Right 25mm Size3
65.5710	Right 10mm Size4
65.5712	Right 12mm Size4
65.5714	Right 14mm Size4
65.5717	Right 17mm Size4
65.5720	Right 20mm Size4
65.5725	Right 25mm Size4
65.5910	Right 10mm Size5
65.5912	Right 12mm Size5
65.5914	Right 14mm Size5
65.5917	Right 17mm Size5
65.5920	Right 20mm Size5
65.5925	Right 25mm Size5

Ordering Information

Superica Xlulmwpe Inserts

Code	Size
65.7010	Left 10mm Size1
65.7012	Left 12mm Size1
65.7014	Left 14mm Size1
65.7017	Left 17mm Size1
65.7020	Left 20mm Size1
65.7025	Left 25mm Size1
65.7210	Left 10mm Size2
65.7212	Left 12mm Size2
65.7214	Left 14mm Size2
65.7217	Left 17mm Size2
65.7220	Left 20mm Size2
65.7225	Left 25mm Size2
65.7410	Left 10mm Size3
65.7412	Left 12mm Size3
65.7414	Left 14mm Size3
65.7417	Left 17mm Size3
65.7420	Left 20mm Size3
65.7425	Left 25mm Size3
65.7610	Left 10mm Size4
65.7612	Left 12mm Size4
65.7614	Left 14mm Size4
65.7617	Left 17mm Size4
65.7620	Left 20mm Size4
65.7625	Left 25mm Size4
65.7810	Left 10mm Size5
65.7812	Left 12mm Size5
65.7814	Left 14mm Size5
65.7817	Left 17mm Size5
65.7820	Left 20mm Size5
65.7825	Left 25mm Size5
65.7110	Right 10mm Size1
65.7112	Right 12mm Size1
65.7114	Right 14mm Size1
65.7117	Right 17mm Size1
65.7120	Right 20mm Size1
65.7125	Right 25mm Size1
65.7310	Right 10mm Size2
65.7312	Right 12mm Size2
65.7314	Right 14mm Size2
65.7317	Right 17mm Size2
65.7320	Right 20mm Size2
65.7325	Right 25mm Size2
65.7510	Right 10mm Size3
65.7512	Right 12mm Size3
65.7514	Right 14mm Size3
65.7517	Right 17mm Size3
65.7520	Right 20mm Size3
65.7525	Right 25mm Size3
65.7710	Right 10mm Size4
65.7712	Right 12mm Size4
65.7714	Right 14mm Size4
65.7717	Right 17mm Size4
65.7720	Right 20mm Size4
65.7725	Right 25mm Size4
65.7910	Right 10mm Size5
65.7912	Right 12mm Size5
65.7914	Right 14mm Size5
65.7917	Right 17mm Size5
65.7920	Right 20mm Size5
65.7925	Right 25mm Size5

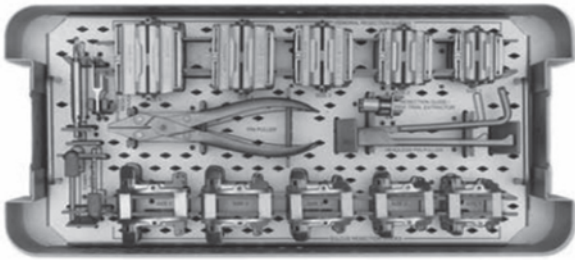


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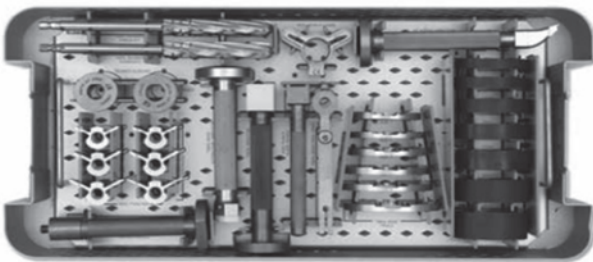
Superica Patellar Component

Code	Size
65.5426	26mm
65.5429	29mm
65.5432	32mm
65.5435	35mm

Ordering Information

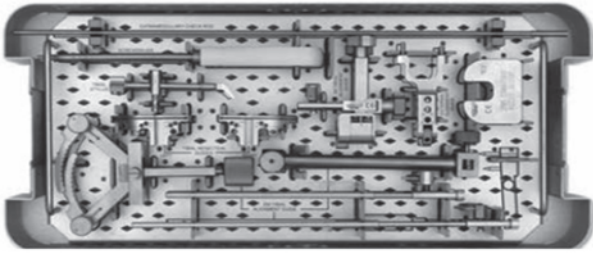


Code	Size
99.3148	Superica Femoral Cutter Guide Tray
99.3000	Superica Femoral Cutter Guide Size-1
99.3001	Superica Femoral Cutter Guide Size-2
99.3002	Superica Femoral Cutter Guide Size-3
99.3003	Superica Femoral Cutter Guide Size-4
99.3004	Superica Femoral Cutter Guide Size-5
99.3005	Trial Femur Extractor
99.3006	Headless Pin Puller
99.3007	8 mm Gauge For 4 in 1 Resection Guide
99.3008	Ø4.8 mm Femoral Peg Drill
99.3009	Superica Notch Block Size-1
99.3010	Superica Notch Block Size-2
99.3011	Superica Notch Block Size-3
99.3012	Superica Notch Block Size-4
99.3013	Superica Notch Block Size-5
99.3014	Knee Impactor/extractor

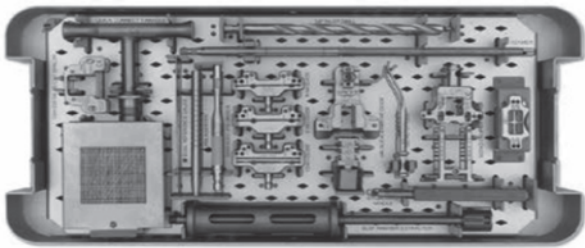


Code	Size
99.3149	Superica Tibial Guide Tray-1
99.3015	Flexion Extension Gaps -2 mm
99.3016	Flexion Extension Gaps 10 mm
99.3017	Flexion Extension Gaps 12 mm
99.3018	Flexion Extension Gaps 14 mm
99.3019	Flexion Extension Gaps 17 mm
99.3020	Flexion Extension Gaps 20 mm
99.3021	Flexion Extension Gaps 25 mm
99.3022	Tibial Base Plate Size 1
99.3023	Tibial Base Plate Size 2/1+
99.3024	Tibial Base Plate Size 3/2+
99.3025	Tibial Base Plate Size 4/3+
99.3026	Tibial Base Plate Size 5/4+
99.3027	Tibial Base Plate Size 6/5+
99.3028	Tibial Base Plate Handle
99.3029	Keel Punch Guide Handle
99.3030	Tibial Impactor
99.3031	Tibia Base Extractor/impactor
99.3032	Keel Punch Handle
99.3033	Pressfit Keel Punch Size 1, 1+, 2
99.3034	Pressfit Keel Punch Size 2+, 3, 3+, 4
99.3035	Pressfit Keel Punch Size 4+, 5, 5+, 6
99.3036	Oversize Keel Punch Size 1, 1+, 2
99.3037	Oversize Keel Punch Size 2+, 3, 3+, 4
99.3038	Oversize Keel Punch Size 4+, 5, 5+, 6
99.3039	Oversize Tibial Drill Sleeve
99.3040	Pressfit Tibial Drill Sleeve
99.3041	Pressfit Tibial Drill
99.3042	Oversize Tibial Drill
99.3043	Keel Punch Guide
99.3044	Insert Impactor

Ordering Information



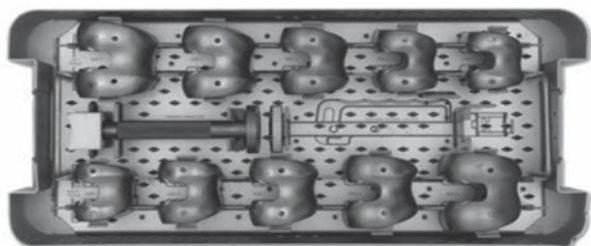
Code	Size
99.3150	Superica Tibial Guide Tray-2
99.3045	External Aligment Guide Body
99.3046	External Aligment Guide Extractor
99.3047	Tibial Resection Guide Ankle Clamp
99.3048	Tibial Resection Guide Long Shaft
99.3049	Tibial Resection Guide Body
99.3050	Tibial Resection Guide Short Shaft
99.3051	Tibial Guide Left
99.3052	Tibial Guide Right
99.3053	Im Tibial Aligment Guide Modified
99.3054	External Aligment Guide
99.3055	2 mm Recut Guide
99.3056	Tibial Stylus
99.3057	External Check Rod
99.3058	Screwdriver



Code	Size
99.3151	Superica General Tray
99.3059	3/8" Drill
99.3060	11" Reamer Rod
99.3061	Quick Connect T-handle
99.3062	Valgus Aligment Guide Spacer 7 mm
99.3063	Re-drill Guide
99.3064	Femoral Sizing Caliper / Pin Hole - Handle
99.3065	Femoral Sizing
99.3066	Femoral Stylus
99.3067	Valgus Aligment Guide
99.3068	Valgus Aligment
99.3069	Distal Resection Guide 9 mm
99.3070	Distal Resection Guide 11 mm
99.3071	Distal Resection Guide 9 mm - 13 mm
99.3072	Thereaded Pin Driver
99.3073	Pin Inserter
99.3074	Dual Reference Gauge
99.3075	Thereaded Stabilizing
99.3076	Slap Hammer
99.3077	Pin Caddy
99.3078	Tibial Base Fixation Pin With Tapered Head
99.3079	Flat Head Fixation Pin 45mm
99.3080	80 mm Headless Fixation Pin Without Groove
99.3081	125 Quick Disconnect Drill Bit
99.3082	Drill Bits Only
99.3083	Drill Bit 1/8" W/quick Disconnect 100mm
99.3084	1/8" Drill Bit W/ Stop
99.3085	Trial Tibial Insert Pin



Ordering Information



Code	Size
99.3152	Superica Femoral Trial Tray
99.3086	Trial Femur Left Size 1
99.3087	Trial Femur Left Size 2
99.3088	Trial Femur Left Size 3
99.3089	Trial Femur Left Size 4
99.3090	Trial Femur Left Size 5
99.3091	Trial Femur Right Size 1
99.3092	Trial Femur Right Size 2
99.3093	Trial Femur Right Size 3
99.3094	Trial Femur Right Size 4
99.3095	Trial Femur Right Size 5
99.3096	Femoral Impactor
99.3148	Femoral Holder Driver

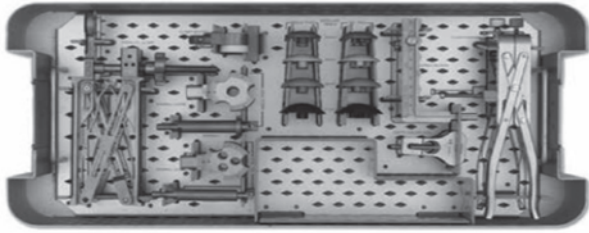
Ordering Information

Code	Size
99.3153	Superica Left Insert Trials Tray
99.3097	Trial Insert Left Size 1 10 mm
99.3098	Trial Insert Left Size 1 12 mm
99.3099	Trial Insert Left Size 1 14 mm
99.3100	Trial Insert Left Size 1 17 mm
99.3101	Trial Insert Left Size 2 10 mm
99.3102	Trial Insert Left Size 2 12 mm
99.3103	Trial Insert Left Size 2 14 mm
99.3104	Trial Insert Left Size 2 17 mm
99.3105	Trial Insert Left Size 3 10 mm
99.3106	Trial Insert Left Size 3 12 mm
99.3107	Trial Insert Left Size 3 14 mm
99.3108	Trial Insert Left Size 3 17 mm
99.3109	Trial Insert Left Size 4 10 mm
99.3110	Trial Insert Left Size 4 12 mm
99.3111	Trial Insert Left Size 4 14 mm
99.3112	Trial Insert Left Size 4 17 mm
99.3113	Trial Insert Left Size 5 10 mm
99.3114	Trial Insert Left Size 5 12 mm
99.3115	Trial Insert Left Size 5 14 mm
99.3116	Trial Insert Left Size 5 17 mm

Code	Size
99.3154	Superica Right Insert Trials Tray
99.3117	Trial Insert Right Size 1 10 mm
99.3118	Trial Insert Right Size 1 12 mm
99.3119	Trial Insert Right Size 1 14 mm
99.3120	Trial Insert Right Size 1 17 mm
99.3121	Trial Insert Right Size 2 10 mm
99.3122	Trial Insert Right Size 2 12 mm
99.3123	Trial Insert Right Size 2 14 mm
99.3124	Trial Insert Right Size 2 17 mm
99.3125	Trial Insert Right Size 3 10 mm
99.3126	Trial Insert Right Size 3 12 mm
99.3127	Trial Insert Right Size 3 14 mm
99.3128	Trial Insert Right Size 3 17 mm
99.3129	Trial Insert Right Size 4 10 mm
99.3130	Trial Insert Right Size 4 12 mm
99.3131	Trial Insert Right Size 4 14 mm
99.3132	Trial Insert Right Size 4 17 mm
99.3133	Trial Insert Right Size 5 10 mm
99.3134	Trial Insert Right Size 5 12 mm
99.3135	Trial Insert Right Size 5 14 mm
99.3136	Trial Insert Right Size 5 17 mm



Ordering Information



Code	Size
99.3155	Superica Patella Tray
99.3137	End Mill Guides Single Post
99.3138	Parallel Clamp
99.3139	Clamp Seater
99.3140	Patella Trial Size 26
99.3141	Patella Trial Size 29
99.3142	Patella Trial Size 32
99.3143	Patella Trial Size 35
99.3144	Depth Gauges
99.3145	Clamp Assembly
99.3146	End Mills - Tri Post
99.3147	Patella Sizing Caliper

Lawn Road, Carlton-in-Lindrick, Worksop
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COVISION
O R T H O P A E D I C S

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Product Sheet
Stemsys®
Fiche Produit



REVISION Distal locking / Verrouillage distal
Lengths / Longueurs 210 to/a 240, 260(L) & let 320mm(XL)
Collared / Avec collerette

REVISION Slotted / Fendue
Lengths / Longueurs 200 to/a 240mm
Collared and collarless / Avec ou sans collerette

**Primary Standard
1ere intention standard**
Collared or collarless / Avec ou sans collerette
HAP : Lengths / Longueurs 110 to/a 190mm
Porous Ti + HAP : Lengths / Longueurs 110 to/a 170mm

**Primary Lateralized
1ere intention Latéralisée**
Collared or collarless / Avec ou sans collerette
HAP : Lengths / Longueurs 130 to/a 190mm
Porous Ti + HAP : Lengths / Longueurs 120 to/a 170mm

**Primary cemented
1ere intention à ciment**
Lengths / Longueurs 120 to/a 160mm (155mm lat.)
Collarless / Sans collerette

**Neck fracture gritblasted
Fracture du col corindonnée**
Lengths / Longueurs 115 to/a 190mm
Collared / Avec collerette

Femoral implants for THA and THR indications

Implants fémoraux
pour indications de PTH et PTHR

REFERENCES

Dec 2017 / Réf. : BI_STEMSYS FP H46 (H46-432)

STEMSYS Cementless Sans ciment							
Cementless dual coating Porous Ti + HA revêtement Ti + HA				Cementless HA coating Hydroxyapatite			
Standard	Std Collared Std à Coll.	Lateralized Latéralisé	Lat Collared Lat à coll.	Standard	Std Collared Std à Coll.	Lateralized Latéralisé	Lat Collared Lat à coll.
size / taille 7	* H45 007			H73 007			
size / taille 8	* H45 008	H45 C008		H73 008	H73 C008		
size / taille 9	H45 009	H45 C009	H45 L009	H73 009	H73 C009	H73 L009	H73 LC009
size / taille 10	H45 010	H45 C010	H45 L010	H73 010	H73 C010	H73 L010	H73 LC010
size / taille 11	H45 011	H45 C011	H45 L011	H73 011	H73 C011	H73 L011	H73 LC011
size / taille 12	H45 012	H45 C012	H45 L012	H73 012	H73 C012	H73 L012	H73 LC012
size / taille 13	H45 013	H45 C013	H45 L013	H73 013	H73 C013	H73 L013	H73 LC013
size / taille 14	H45 014	H45 C014	H45 L014	H73 014	H73 C014	H73 L014	H73 LC014
size / taille 15	H45 015	H45 C015	H45 L015	H73 015	H73 C015	H73 L015	H73 LC015
size / taille 16	H45 016	H45 C016	H45 L016	H73 016	H73 C016	H73 L016	H73 LC016
size / taille 18	H45 018	H45 C018	H45 L018	H73 018	H73 C018	H73 L018	H73 LC018
size / taille 20	H45 020		H45 L020	H73 020	H73 C020	H73 L020	H73 LC020

Fracture	
Gritblasted Corindonné	
Std Collared	Std à Coll.
size/taille 8	****H73 TC008
size/taille 9	****H73 TC009
size/taille 10	****H73 TC010
size/taille 11	****H73 TC011
size/taille 12	****H73 TC012
size/taille 13	****H73 TC013
size/taille 14	****H73 TC014
size/taille 15	****H73 TC015
size/taille 16	****H73 TC016
size/taille 18	****H73 TC018
size/taille 20	****H73 TC020

Cemented A cimenter		
Shiny-Polished Poli-Brillant		
Std.	Lat.	
size/taille 9	H45 S009	H45 SL009
size/taille 10	H45 S010	H45 SL010
size/taille 11	H45 S011	H45 SL011
size/taille 12	H45 S012	H45 SL012
size/taille 13	H45 S013	H45 SL013
size/taille 14	H45 S014	H45 SL014
size/taille 15	H45 S015	H45 SL015
size/taille 16	H45 S016	H45 SL016
size/taille 18	H45 S018	

STEMSYS Revision						
	Split Collarless Fendue sans Collerette	Split Collared Fendue à Collerette	Distal Lock. A verrouill. distal	L Distal Lock. A verrouill.	XL Distal Lock. A verrouill.	Locking screw Vis de verrouillage
size/taille 10	H45 R010	H45 RC010				ø6/4.5 lg.20 H15 SC6020
size/taille 12	H45 R012	H45 RC012	H45 R112	H45 R112L	H45 R112XL	ø6/4.5 lg.25 H15 SC6025
size/taille 14	H45 R014	H45 RC014	H45 R114			ø6/4.5 lg.30 H15 SC6030
size/taille 16	H45 R016	H45 RC016	H45 R116			ø6/4.5 lg.35 H15 SC6035
size/taille 18	H45 R018	H45 RC018	H45 R118			ø6/4.5 lg.40 H15 SC6040
size/taille 20	H45 R020	H45 RC020	H45 R120			Lot 3, Lot 12

Femoral Heads Têtes Fémorales					
Description	Size Taille	Cat. N°	Description	Size Taille	Cat. N°
Co-Cr / Chrome-Cobalt	Ø28 -7mm	H10 1279	Composite Ceramic Composite	Ø28 -3.5mm	H14 C1280
Co-Cr / Chrome-Cobalt	Ø28 -3.5mm	H10 1280	Composite Ceramic Composite	Ø28 +0mm	H14 C1281
Co-Cr / Chrome-Cobalt	Ø28 +0mm	H10 1281	Composite Ceramic Composite	Ø28 +3.5mm	H14 C1282
Co-Cr / Chrome-Cobalt	Ø28 +3.5mm	H10 1282	Composite Ceramic Composite	Ø32 -4mm	H14 C1320
Co-Cr / Chrome-Cobalt	Ø28 +7mm	H10 1283	Composite Ceramic Composite	Ø32 +0mm	H14 C1321
Co-Cr / Chrome-Cobalt	Ø28 +10.5mm	H10 1284	Composite Ceramic Composite	Ø32 +4mm	H14 C1322
Co-Cr / Chrome-Cobalt	Ø32 -4mm	H10 1320	Composite Ceramic Composite	Ø36 -4mm	H14 C1360
Co-Cr / Chrome-Cobalt	Ø32 +0mm	H10 1321	Composite Ceramic Composite	Ø36 +0mm	H14 C1361
Co-Cr / Chrome-Cobalt	Ø32 +4mm	H10 1322	Composite Ceramic Composite	Ø36 +4mm	H14 C1362
Co-Cr / Chrome-Cobalt	Ø32 +8mm	H10 1323	Composite Ceramic Composite	Ø40 -4mm	H14 C1400
Co-Cr / Chrome-Cobalt	Ø36 -4mm	H10 1360	Composite Ceramic Composite	Ø40 +0mm	H14 C1401
Co-Cr / Chrome-Cobalt	Ø36 +0mm	H10 1361	Composite Ceramic Composite	Ø40 +4mm	H14 C1402
Co-Cr / Chrome-Cobalt	Ø36 +4mm	H10 1362			
Co-Cr / Chrome-Cobalt	Ø36 +8mm	H10 1363			

not validated for patients exceeding 75kgs (165lbs) /
not validated for patients exceeding 80kgs (176lbs) /
not validated for use with 128° NSA femoral stem /
indicated only for the femoral neck fracture at
the elderly /

STEMSYS instrumentation sets:
primary set, slotted revision set, and
distal locking jig set.

Instrumentations STEMSYS



Mentions légales : V8 à 8 de PY di d 8e9 or 8 or 88r 11eov: 8 8: 7x8 l 7u7e 89r 8 87a l 7r 8 9x 8 aeS. è:
@ 7x8 8 aeS. è: 8: 7x8 7 8e8 ol 7u7e 89r 8 aeSc. or x ul enur 8x8e x r 78e63
Vr 8 à 8 de PY di d 8e9 or 8 ré nul 7r @ 7x 88: 7 enr à l x or 8e: 8 nr 78 ver 8 nee 8e83e8a l 9e8 8: 7x 88 www.ameli.fr2
Tmkpr: omv n89m x n88Au nv9v r9A trmi 9nv9 nu nv9tn8 iv89: k9wv8 u nv9wvAn8 8: ti v99kml): 9tr8i 9w ivkt: 8ml i v8 tm
kw l r9wvnu nv9l : NV 8i iv8ry: ml i v8 tm u i v: nt l m9rkpvry: mwxA i 9wml Atr A ti u 8mmv xti kml : x w l : 9w. l r8xwvj tmmv
9AtAkp i omv nv98: tm89m 2n vt: 98r7i vkn8w 2

Materials / Matéria

Cementless stems: Titanium alloy TA6V according ISO5832-3 + gritblasted or Calcium Hydroxyapatite or T40 titanium + Calcium Hydroxyapatite

Cemented stems: High nitrogen content stainless steel according ISO5832-9

Femoral heads: Co-Cr according ISO5832-12 or Pure alumina according ISO6474-1 or Composite Ceramic according ISO6474-2

Vacuum packaging. Gamma ray sterilised /
e9n8 kru nv9n8 G lkmf ivw pi : 9m9vm mv i w9m8ntw 8a 9C761F
e9n8 nAu w i tn8 G L w 8ntw 8a 9C76156 w. Ht u rvmx: m8ntw 8a : 8A815 w. LA i u ry: mkw xv89n8ntw 8a : 8A816
L w l r9wvnu nv98w: 8 il n2d 9A tr8i 9w oi u i 2



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Freelineer®

Acetabular cup for Ceramic or Highly-Crosslinked PEXEL® -E Polyethylene liner

*Cupule acétabulaire à insert Céramique
ou Polyéthylène Hautement Réticulé
PEXEL® -E*

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MOTION INSIDE

The **FREELINER**® acetabular cup for Total Hip Arthroplasty is designed for cementless fixation to the bone, and enable 3 choices of friction bearing:

- moderately crosslinked PEXEL® polyethylene against a metal or a ceramic head,
- highly-crosslinked polyethylene with vitamin-E (PEXEL®-E) against a metal or a ceramic head,
- ceramic composite against a ceramic composite head.

The **FREELINER**® cup has been designed to ensure maximum safety during implantation and security for the patient when used with either polyethylene or ceramic liners. The cup is uncompromisingly adapted to the different characteristics of these 2 bearings:

- the inner surface of the taper is smooth and free of asperities to facilitate and secure the insertion of the ceramic insert,
- the stability of the polyethylene insert is secured by 10 anti-rotational spurs and a locking ring situated on the equator.

*La cupule acétabulaire **FREELINER**® est un composant de prothèse totale de hanche destiné à une fixation osseuse sans ciment, et compatible au choix avec 3 couples de frottement :*

- polyéthylène PEXEL® modérément réticulé avec métal ou céramique,
- polyéthylène vitaminé-E hautement réticulé (Pexel®-E) avec métal ou céramique,
- céramique composite avec céramique composite.

***FREELINER**® a été conçue pour assurer le maximum de sécurité de mise en place et d'usage qu'elle soit associée avec un insert polyéthylène ou un insert céramique. La cupule a été adaptée aux caractéristiques propres à chacun des couples de frottement :*

- L'intégrité de la portée conique a été préservée pour sécuriser la mise en place et la fixation de l'insert céramique.
- La stabilité des inserts en polyéthylène est sécurisée par 10 ergots anti-rotation et un bourrelet de clippage situé en avant de la portée conique.

DELTA®
Ceramic (composite of
Alumina and Zirconia)

PEXEL®-E
highly-crosslinked
polyethylene
with vitamin-E

PEXEL®
moderately
crosslinked
polyethylene

Freeliner®

- Choice of 3 friction bearings
- Primary stability enhanced by the high roughness of the coating
- Osseointegration on highly porous substrate (40 to 70%)
- Safety and reproducibility of the surgical technique

- *Choix parmi 3 couples de frottement*
- *Stabilité primaire induite par la rugosité de surface du revêtement*
- *Ostéointégration secondaire sur substrat hautement poreux (40 à 70%)*
- *Sécurité et reproductibilité de la technique d'implantation*

Moderately crosslinked PEXEL® polyethylene

- Moderately crosslinked at 40kGy max.
- VacUpac vacuum packaging
- Anti-dislocation 6mm Posterior wall
- Anterior chamfer of 32°
- Inner Ø28mm

Polyéthylène modérément réticulé PEXEL®

- Réticulation modérée à 40kGy max.
- Conditionnement sous vide VacUpac
- Mur postérieur anti-luxation de 6mm
- Chanfrein antérieur de 32°
- Ø interne 28mm



Ceramic (Composite of Alumina and Zirconia)

- Composite of alumina and zirconia ceramic
- New SLWZero design with constant radius
- Center of rotation aligned with the equator of the liner
- Liner protected from "chipping" by the peripheral border on the cup
- Inner Ø32, 36, and 40mm

Céramique (composite d'alumine et zirconie)

- Composite d'alumine et de zirconie
- Nouveau profil SLWZero à rayon constant
- Centre de rotation positionné sur l'équateur
- insert protégé de l'écaillage ("chipping") par le rebord périphérique de la cupule
- Ø interne 32, 36, et 40mm



Highly-crosslinked PEXEL®-E polyethylene with vitamin-E

- Sequentially crosslinked UHMWPE at 100kGy max.
- VacUpac vacuum packaging
- Oxidation inhibited by content of 0.1%wt of α-tocopherol (vitamin-E) blended in the material before compression molding
- with circumferential chamfer of 20°
- Inner Ø32 and 36mm

Polyéthylène PEXEL®-E hautement réticulé à la vitamine-E

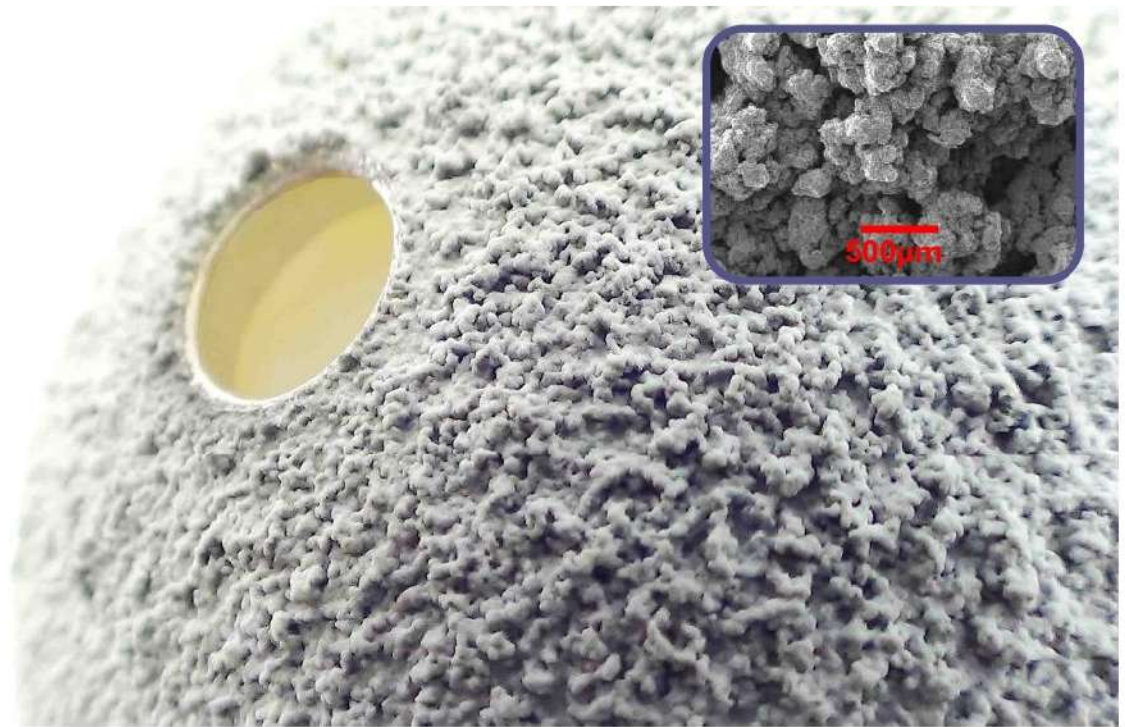
- UHMWPE réticulé séquentiellement à 100kGy max.
- Conditionnement sous vide VacUpac
- Inhibition de l'oxydation par adjonction de 0,1%wt de α-tocophérol (vitamine-E) dans la poudre avant consolidation par pressage à chaud (compression molding)
- Inserts sans débord avec chanfrein circonférentiel de 20°
- Ø interne 32 et 36mm



Cup Ø Ø Cup.	PEXEL PEXEL	PEXEL-E PEXEL-E	Ceramic Céramique
44 (*)	28 (*)		
46	28	32	32
48	28	32	32
50	28	32 36	36
52	28	32 36	36
54	28	32 (*) 36	36 40
56	28	32 (*) 36	36 40
58	28	32 (*) 36	36 40
60	28	32 (*) 36	36 40
62	28	32 (*) 36	36 40
64 (*)	28 (*)	32 (*) 36 (*)	36 (*) 40 (*)
66 (*)	28 (*)	32 (*) 36 (*)	36 (*) 40 (*)

Table: diameters and materials of available friction couples according to the diameter of the shell.
 Tableau : diamètres et matériaux des couples de frottement disponibles en fonction du diamètre de la cupule.
 (*): References available only on special request
 Références disponibles sur demande spéciale





Hemispheric cup

Primary stability through a plasma spray high rough grade porous coating
Dimensional press-fit from 1.26 to 1.66mm according to the diameter of the cup
Optional complementary fixation with screws (Ø6.0 cancellous self-tapping):

- 4 holes in the superior part of the cup on a constant bow of 120°
- angular clearance of 20° for the screws

Cementless osseo-integration coating:
- 80µm of calcium hydroxyapatite
- 400 to 600µm of porous titanium

Cupule hémisphérique

Accroche primaire par revêtement poreux à haute rugosité

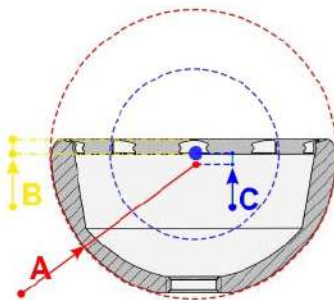
Press-fit dimensionnel de 1,26 à 1,66mm selon le diamètre de la cupule

Complément de fixation par vissage Ø6mm à profil spongieux autotaraudant :

- 4 trous de vis orientés dans le toit du cotyle sur un arc constant de 120°
- amplitude de débattement angulaire des vis de 20°.

Revêtement pour fixation secondaire sans ciment :

- 80µm d'hydroxyapatite de calcium
- 400 à 600µm de titane poreux



Reference diameter <i>Diamètre de référence</i>	True diameter <i>Diamètre réel</i>	Total Press-Fit total	Equatorial lip <i>Bord équatorial</i>	Offset	Revêtement T40 Coating	Revêtement HAP Coating
	A		B	C		
Ø44	45,26	1,26	2,6	1	400µm	80µm
Ø46	47,46	1,46	2,6	1	500µm	80µm
Ø48	49,66	1,66	2,6	0	600µm	80µm
Ø50	51,66	1,66	2,6	1	600µm	80µm
Ø52	53,66	1,66	2,6	0	600µm	80µm
Ø54	55,66	1,66	2,6	1	600µm	80µm
Ø56	57,66	1,66	2,6	0	600µm	80µm
Ø58	59,66	1,66	2,6	0	600µm	80µm
Ø60	61,66	1,66	2,6	0	600µm	80µm
Ø62	63,66	1,66	2,6	0	600µm	80µm
Ø64	65,66	1,66	2,6	0	600µm	80µm
Ø66	67,66	1,66	2,6	0	600µm	80µm

Table: reference and true dimensions, press-fit value, offset of rotation center, and coating thicknesses for each size of Freelineer cup.

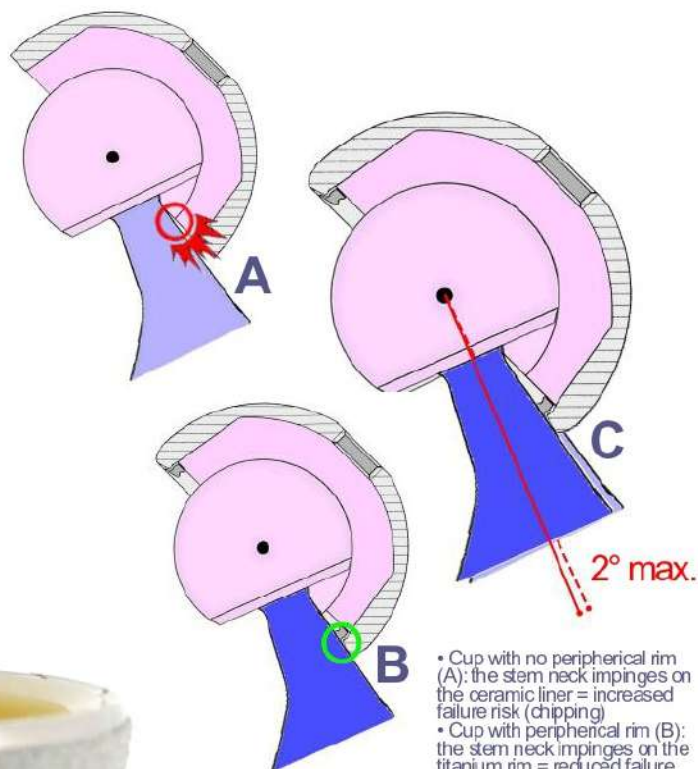
Tableau : dimensions de référence et réelles, valeur du press-fit, offset du centre de rotation, et épaisseurs de revêtement pour chaque diamètre de cupule Freelineer.

The FREELINER® cup includes a 2.6mm peripheral rim meant for:

- preventing the stem neck from impinging on the inner edge of the ceramic liner;
- securing the fixation of the PEXEL® and PEXEL®-E liners while preserving the integrity of the conical seating.

La cupule FREELINER® intègre un rebord équatorial de 2,6mm dont la fonction est double :

- empêcher le contact entre le col de la tige et le bord de l'insert céramique,
- maintenir et orienter les inserts PEXEL® et PEXEL®-E tout en évitant d'altérer la portée conique dans la cupule.



- Cup with no peripheral rim (A): the stem neck impinges on the ceramic liner = increased failure risk (chipping)
- Cup with peripheral rim (B): the stem neck impinges on the titanium rim = reduced failure risk
- Comparison (C): less than 2° of ROM reduction

- Cupule sans rebord équatorial (A) : contact col de tige sur céramique = risque accru de faillite sur "écaillage" (chipping)
- Cupule avec rebord équatorial (B) : contact col de tige sur cupule = risque d'écaillage réduit
- Comparaison (C) : réduction du débattement inférieure à 2°

Safety & Reproducibility*

*Sécurité et Reproductibilité de la technique d'implantation

The instrumentation of the FREELINER® cup allows the operator to pre-impact the liner on the table BEFORE introducing it into the patient's acetabulum. This possibility helps to control the axis of introduction of the liner into the cup, to make sure the fixation taper is clean and dry, and to easily calibrate the impaction force.

This surgical protocol which is specific to the FREELINER® cup has been developed in accordance with the Safety Reminder of the ceramic material manufacturer [1] which recommends to:

- make sure that the acetabular cup and the ceramic insert are clean dry and not damaged,
- carefully assemble the components,
- confirm proper assembly and then impact,

L'instrumentation de la cupule FREELINER® permet de pré-impacter l'insert céramique dans la cupule AVANT sa mise en place dans le cotyle du patient. Ceci garantit une surface de fixation propre et sèche à l'interface des 2 pièces, et facilite la mise en place de l'insert dans l'axe de la cupule et le dosage de son impaction. Ce protocole opératoire spécifique à la cupule FREELINER® est conforme aux recommandations (Safety Reminder [1]) éditées par le fabricant du matériau céramique qui conseillent :

- de s'assurer que la cupule et l'insert céramique sont propres, secs et non abîmés,
- d'assembler les composants avec attention et de vérifier au doigt leur alignement,
- de confirmer le bon positionnement, puis d'impacter dans l'axe de la cupule.



Freeliner®

Ref. Cup.		Ref. Liner					
		Ø28	Ø32	Ø36	Ø32	Ø36	Ø40
		UHMWPE "PEXEL"	XLPE "PEXEL-E"		CERAMIC		
H75 4438(*)	FREELINER cup/cupule Ø44	H75 P4028					
H75 4640	FREELINER cup/cupule Ø46	H75 P4028	H75 XE4032		H75 C4032		
H75 4840	FREELINER cup/cupule Ø48						
H75 5044	FREELINER cup/cupule Ø50	H75 P4428	H75 XE4432	H75 XE4436		H75 C4436	
H75 5244	FREELINER cup/cupule Ø52						
H75 5448	FREELINER cup/cupule Ø54	H75 P4828	H75 XE4832(*)	H75 XE4836		H75 C4836	H75 C4840
H75 5648	FREELINER cup/cupule Ø56						
H75 5850	FREELINER cup/cupule Ø58	H75 P5028	H75 XE5032(*)	H75 XE5036		H75 C5036	H75 C5040
H75 6050	FREELINER cup/cupule Ø60						
H75 6254	FREELINER cup/cupule Ø62						
H75 6454(*)	FREELINER cup/cupule Ø64	H75 P5428	H75 XE5432(*)	H75 XE5436		H75 C5436	H75 C5440
H75 6654(*)	FREELINER cup/cupule Ø66						





A colour code (red, yellow, blue, orange, green, pink) facilitates the cup and liner size match. Example for a 58mm cup, the colour code is "green": once the material and the inner diameter are selected, choose the corresponding liner along the green line.

Un code couleur (rouge, jaune, bleu, orange, vert, rose) facilite la correspondance entre la cupule et l'insert. Exemple pour une cupule de diamètre 58, il faudra sélectionner l'insert identifié par une couleur "verte" dans le frottement et le diamètre de couple souhaité.

Acetabular screw / vis à cotyle

	Length Longueur	Ref.
Ø6.0 Screw/Vis	20 mm	H15 SB6020
Ø6.0 Screw/Vis	25 mm	H15 SB6025
Ø6.0 Screw/Vis	30 mm	H15 SB6030
Ø6.0 Screw/Vis	35 mm	H15 SB6035
Ø6.0 Screw/Vis	40 mm	H15 SB6040
Ø6.0 Screw/Vis	45 mm	H15 SB6045
Ø6.0 Screw/Vis	50 mm	H15 SB6050

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MOTION INSIDE

Material / Matériau

Cup: Ti6V titanium alloy according ISO 5832-3. Porous titanium and Calcium hydroxyapatite coating

Screw: Ti6V titanium alloy according ISO 5832-3

Liner: UHMWPE according ISO 5834-1 and 2, or Composite Ceramic according ISO 6474-2

Packaging: vacuum packed and gamma ray sterilized

Cupule: alliage de titane Ti6V selon ISO 5832-3. Revêtement bicouche Titane poreux et HAC

Vis: alliage de titane Ti6V selon ISO 5832-3

Insert: UHMWPE selon ISO 5834-1 et 2 ou Céramique composite selon ISO 6474-2

Conditionnement: emballage sous vide. Stérilisation rayons gamma.

Mentions légales

Les implants FREELINER sont des dispositifs médicaux implantables de classe III indiqués pour les arthroplasties primaires totales (PTH) de la hanche.

Les implants FREELINER sont pris en charge par l'assurance maladie sous certaines conditions. Pour plus de précision, merci de vous rendre sur le site www.ameli.fr.

Le chirurgien est expressément invité à lire les instructions mentionnées sur la notice d'utilisation incluse dans le conditionnement du DM, ainsi que le manuel d' technique opératoire délivré à la mise en place du produit ou disponible en téléchargement sur le site www.evolutisfrance.com.

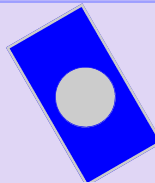


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Designed and
Manufactured in
France

www.evolutisfrance.com

12/14**FEMORAL****HEADS***Stainless Steel, Cobalt-Chrome, Ceramic***Stainless steel ISO5832-9 standard**

H11 1220	Stainless steel Ø 22.2 mm short -2
H11 1221	Stainless steel Ø 22.2 mm medium 0
H11 1222	Stainless steel Ø 22.2 mm long +2
H11 1279	Stainless steel Ø 28 mm extra short -7*
H11 1280	Stainless steel Ø 28 mm short -3.5
H11 1281	Stainless steel Ø 28 mm medium 0
H11 1282	Stainless steel Ø 28 mm long +3.5
H11 1283	Stainless steel Ø 28 mm extra long +7
H11 1320	Stainless steel Ø 32 mm short -4
H11 1321	Stainless steel Ø 32 mm medium 0
H11 1322	Stainless steel Ø 32 mm long +4
H11 1323	Stainless steel Ø 32 mm extra long +8

Composite Alumina ISO 6474 **biolox**

H14 C1280	Alumina Composite Ø 28 mm short -3.5
H14 C1281	Alumina Composite Ø 28 mm med 0
H14 C1282	Alumina Composite Ø 28 mm long +3.5
H14 C1283	Alumina Composite Ø 28 mm long +7
H14 C1320	Alumina Composite Ø 32 mm short -3.5
H14 C1321	Alumina Composite Ø 32 mm medium 0
H14 C1322	Alumina Composite Ø 32 mm long +3.5
H14 C1323	Alumina Composite Ø 32 mm long +8**
H14 C1360	Alumina Composite Ø 36 mm short -4
H14 C1361	Alumina Composite Ø 36 mm med 0
H14 C1362	Alumina Composite Ø 36 mm long +4
H14 C1363	Alumina Composite Ø 36 mm extra long +8**
H14 C1400	Alumina Composite Ø 40 mm short -4
H14 C1401	Alumina Composite Ø 40 mm med 0
H14 C1402	Alumina Composite Ø 40 mm long +4
H14 C1403	Alumina Composite Ø 40 mm long +8**

Cobalt-Chrome ISO5832-12 standard

H10 1220	Cobalt Chrome Ø 22.2 mm short -2
H10 1221	Cobalt Chrome Ø 22.2 mm medium 0
H10 1222	Cobalt Chrome Ø 22.2 mm long +2
H10 1223	Cobalt Chrome Ø 22.2 mm long +4
H10 1280	Cobalt Chrome Ø 28 mm short -3.5
H10 1281	Cobalt Chrome Ø 28 mm medium 0
H10 1282	Cobalt Chrome Ø 28 mm long +3.5
H10 1283	Cobalt Chrome Ø 28 mm extra long +7
H10 1320	Cobalt Chrome Ø 32 mm short -4
H10 1321	Cobalt Chrome Ø 32 mm medium 0
H10 1322	Cobalt Chrome Ø 32 mm long +4
H10 1323	Cobalt Chrome Ø 32 mm extra long +8
H10 1360	Cobalt Chrome Ø 36 mm short -4
H10 1361	Cobalt Chrome Ø 36 mm medium 0
H10 1362	Cobalt Chrome Ø 36 mm long +4
H10 1363	Cobalt Chrome Ø 36 mm extra long +8

Alumina ISO 6474 standard

H14 1270	Alumina Ceramic Ø 28 mm short -3.5
H14 1271	Alumina Ceramic Ø 28 mm medium 0
H14 1272	Alumina Ceramic Ø 28 mm long +3.5
H14 1310	Alumina Ceramic Ø 32 mm short -4
H14 1311	Alumina Ceramic Ø 32 mm medium 0
H14 1312	Alumina Ceramic Ø 32 mm long +4
H14 1350	Alumina Ceramic Ø 36 mm short -4
H14 1351	Alumina Ceramic Ø 36 mm medium 0
H14 1352	Alumina Ceramic Ø 36 mm long +4

additional sizes on request

References

CAPITOLE dual mobility acetabular cup Cupule acétabulaire à double mobilité CAPITOLE

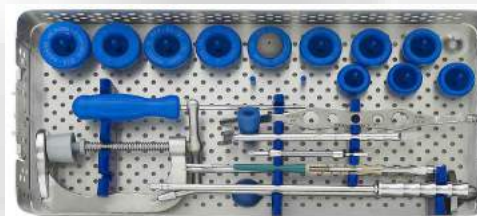
Shell ø Cupule	Press-fit I	2 pegs T 2 plots T	Cemented C Cimenté C	Revision R	Revision RA
ø45	H51 I245	H51 T245	H51 C045	-	-
ø47	H51 I247	H51 T247	H51 C047	H51 R247	H51 RA247
ø49	H51 I249	H51 T249	H51 C049	H51 R249	H51 RA249
ø51	H51 I251	H51 T251	H51 C051	H51 R251	H51 RA251
ø53	H51 I253	H51 T253	H51 C053	H51 R253	H51 RA253
ø55	H51 I255	H51 T255	H51 C055	H51 R255	H51 RA255
ø57	H51 I257	H51 T257	H51 C057	H51 R257	H51 RA257
ø59	H51 I259	H51 T259	H51 C059	H51 R259	H51 RA259
ø61	H51 I261	H51 T261	H51 C061	H51 R261	H51 RA261
ø63	H51 I263	H51 T263		H51 R263	H51 RA263
ø65	-	-		H51 R265	-

CAPITOLE dual mobility liner Insert à double mobilité CAPITOLE

Liner ø Insert	Inner ø Interne 22.2 PE	Inner ø Interne 28 PE	Inner ø Interne 28 Ceramic
ø45	H51 M2245	-	-
ø47	H51 M2247	H51 M2847	-
ø49	H51 M2249	H51 M2849	-
ø51	H51 M2251	H51 M2851	H61 MA2850
ø53	H51 M2253	H51 M2853	H61 MA2852
ø55	H51 M2255	H51 M2855	H61 MA2854
ø57	H51 M2257	H51 M2857	H61 MA2856
ø59	H51 M2259	H51 M2859	H61 MA2858
ø61	H51 M2261	H51 M2861	H61 MA2860
ø63	H51 M2263	H51 M2863	-
ø65	H51 M2265	H51 M2865	-

Screws and Pegs Vis et plots

Description	ø (mm)	L. (mm)	Cat N°
Cortical screw / Vis corticale	5	35	H16 S5035
Cortical screw / Vis corticale	5	40	H16 S5040
Cortical screw / Vis corticale	5	45	H16 S5045
Cortical screw / Vis corticale	5	50	H16 S5050
Cortical screw / Vis corticale	5	55	H16 S5055
Cortical screw / Vis corticale	5	60	H16 S5060
Tripode pegs (set of 2) Plots Tripode (par 2)	7	15	H51 P2715



Instrumentation
CAPITOLE
H52 9100



Capitole I



Capitole T



Capitole R



Capitole RA

Mentions légales :
Les implants CAPITOLE sont des dispositifs médicaux implantables de classe III indiqués pour les arthroplasties primaires totales (PTH) ou en révision (PTHR) de la hanche selon la version.
Les implants CAPITOLE sont pris en charge par l'assurance maladie. Informations sur www.ameli.fr.
Le chirurgien est expressément invité à lire attentivement les instructions mentionnées sur la notice d'utilisation incluse dans le conditionnement du DMI, ainsi que le manuel de technique opératoire délivré à la mise en place du produit ou disponible en téléchargement sur le site www.evolutisfrance.com.

Materials / Matériaux :
Cups: High Nitrogen Content Stainless steel according ISO 5832-9 coated with porous T40 and Calcium Hydroxyapatite
Liners: UHMWPE according ISO 5834-1 & 2
Screws: Stainless steel according ISO 5832-1
Pegs: titanium alloy (TA6V) according ISO 5832-3
Packaging: Sterilized under Gamma irradiation, VacUpac packaging
Cupules : Acier inoxydable à Haute Teneur en Azote selon ISO 5832-9 revêtu T40 poreux et Hydroxyapatite
Inserts : UHMWPE selon ISO 5834-1 et 2
Vis : Acier inoxydable selon ISO 5832-1
Plots : alliage de titane (TA6V) selon ISO 5832-3
Conditionnement : Stérilisé sous rayonnement Gamma, conditionnement VacUpac



Designed and
Manufactured in
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Evolutis

CREATEUR FABRICANT



Minimally Invasive
Hip Surgery

Dedicated Instruments

*Chirurgie Mini-Invasive
de Hanche*

Instruments dédiés

Evolutis
MOTION INSIDE

Rasp Handles *Manches Porte-Râpe*

Double-Offset Antero-
Lateral Handle

*Manche Antéro-Externe
Double Offset*

H01 067 & H01 068

40° Anterior Handle
Manche Antérieure à 40°

H01 065

Curved Posterior Handle

Manche Postérieur Courbe

H01 066



H01 067 & H01 068

Cup Impaction Handles *Manches pour Cupule*

Curved Handle for Standard Cup

*Manche Courbe pour Cupule
Standard*

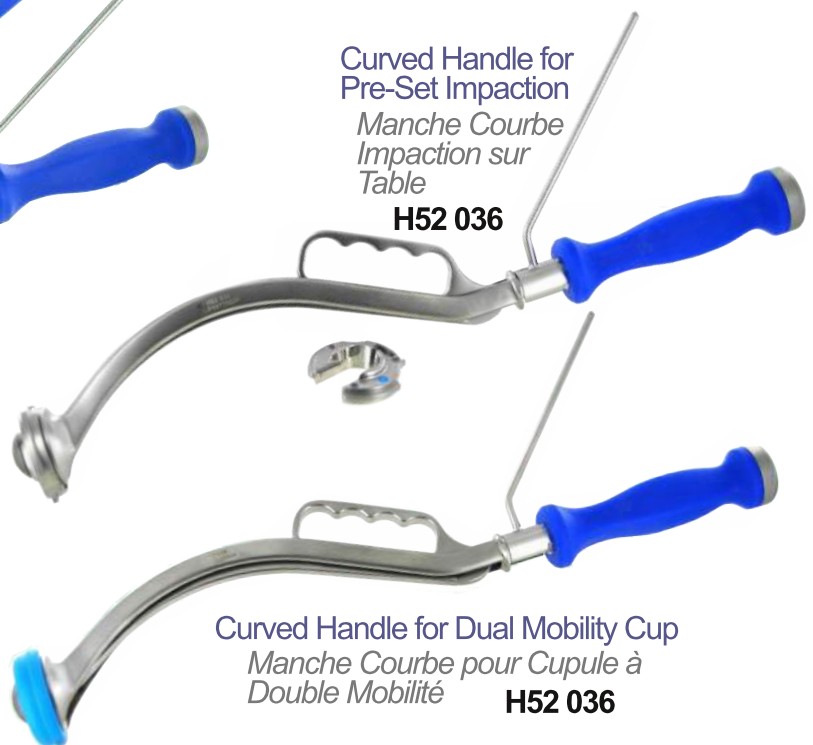
H76 001



Curved Handle for
Pre-Set Impaction

*Manche Courbe
Impaction sur
Table*

H52 036



Freeliner Pre-Set
Impaction Plate

*Platine d'Impaction sur
Table (Freeliner)*

H76 012 to/à H76 017



Dual Mobility Impaction Plate

*Platine d'Impaction pour
Double Mobilité*

H52 P45 to/à H52 P65

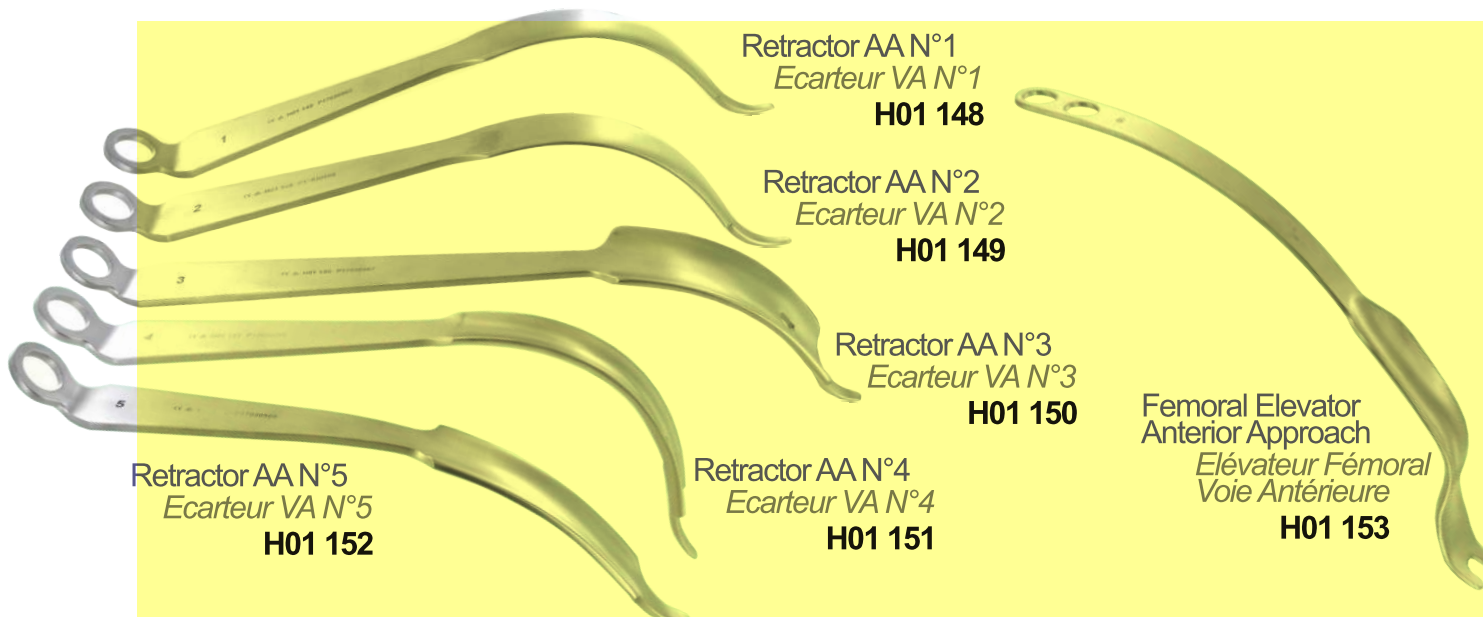


Curved Handle for Dual Mobility Cup

*Manche Courbe pour Cupule à
Double Mobilité*

H52 036

Retractors for Anterior Approach *Ecarteurs pour Voie Antérieure*



Retractor AA N°1
Ecarteur VA N°1
H01 148

Retractor AA N°2
Ecarteur VA N°2
H01 149

Retractor AA N°3
Ecarteur VA N°3
H01 150

Retractor AA N°4
Ecarteur VA N°4
H01 151

Retractor AA N°5
Ecarteur VA N°5
H01 152

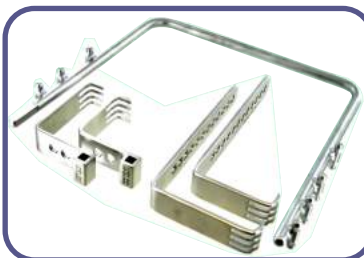
Femoral Elevator
Anterior Approach
*Élévateur Fémoral
Voie Antérieure*
H01 153

Charnley Frame *Cadre de Charnley*



NARROW (25mm) Bent Hohmann Retractor
(2 lengths: 96 & 130mm)
Ecarteur Hohmann à Palette FINE (25mm)
(2 longueurs : 96 & 130mm)
H01 046 - H01 146

LARGE (40mm) Bent Hohmann Retractor
(2 lengths: 96 & 130mm)
Ecarteur Hohmann à Palette LARGE (40mm)
(2 longueurs : 96 & 130mm)
H01 045 - H01 145



Charnley Frame only
Cadre seul **H01 041**

Short Blade (Fixed) 2 lengths: 62 & 82mm
Crochet Court (Fixe) 2 longueurs : 62 et 82mm
H01 043 - H01 050

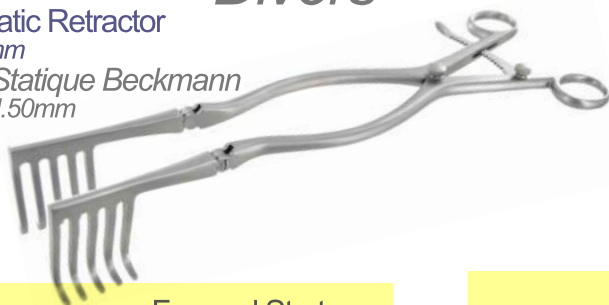
Long Blade (Adjustable) 2 lengths: 72 & 92mm
Crochet Long (Réglable) 2 longueurs : 72 & 92mm
H01 042 - H01 044

Miscellaneous *Divers*

Beckmann Static Retractor
L.300mm H.50mm

Ecarteur Statique Beckmann
L.300mm H.50mm

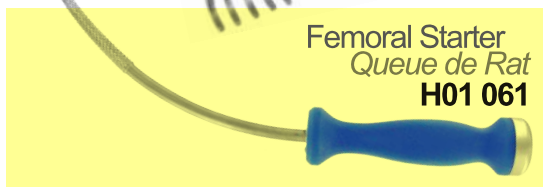
B80 566



Femoral Elevator
Posterior Approach
*Élévateur Fémoral
Voie Postérieure*
H01 047



Femoral Starter
Queue de Rat
H01 061



Offset Acetabular
Reamer Handle
*Manche de Fraise
à Cotyle Décalé*



REFERENCES

<i>Manche de Râpe Courbe voie Post.</i> Curved Rasp Handle Post. approach	H01 066
<i>Manche de Râpe 40° voie Ant.</i> 40° Rasp Handle Ant. Approach	H01 065
<i>Manche de Râpe Double-Offset voie Ant.-Externe</i> Double-Offset Rasp Handle Ant.-Lateral approach	H01 067 & H01 068



<i>Ecarteur statique type "Charnley"</i> Charnley type frame	H01 041
<i>Palette réglable pour écarteur statique (l. 72 ou 92mm)</i> Long static retractor blade for Charnley frame (l. 72 or 92mm)	H01 042 & H01 044
<i>Palette fixe pour écarteur statique (l. 62 ou 82mm)</i> Short static retractor blade for Charnley frame (l. 62 or 82mm)	H01 043 & H01 050
<i>Ecarteur Hohmann à palette FINE 25mm (l. 96 ou 130mm)</i> NARROW 25mm Bent Hohmann retractor (l. 96 or 130mm)	H01 045 & H01 145
<i>Ecarteur Hohmann à palette LARGE 40mm (l. 96 ou 130mm)</i> LARGE 40mm Bent Hohmann retractor (l. 96 or 130mm)	H01 046 & H01 146



<i>Impacteur Cupule Courbe à Gâchette</i> Curved Cup Impactor with Trigger	H52 036
<i>Platines pour Impaction DM</i> Impaction plates for DM cup	H52 P45 à/to H52 P65
<i>Platines pour Impaction Sur Table Freelineer</i> Impaction Plates for Pre-set Freelineer	H76 012 à/to H76 017



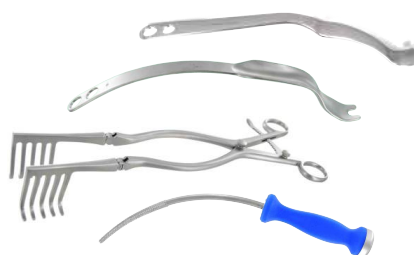
<i>Impacteur Cupule Courbe à Vis</i> Curved Cup Impactor with Screw	H76 001
<i>Tournevis pour Manche Cupule Courbe</i> Screwdriver for Curved Cup Handle	H76 003
<i>Vis pour Manche Cupule Courbe</i> Screw for Curved Cup Handle	H76 002
<i>Tige de version à 45°</i> 45° version alignment rod	H76 019



<i>Ecarteur Voie Antérieure #1</i> #1 Anterior Approach retractor	H01 148
<i>Ecarteur Voie Antérieure #2</i> #2 Anterior Approach retractor	H01 149
<i>Ecarteur Voie Antérieure #3</i> #3 Anterior Approach retractor	H01 150
<i>Ecarteur Voie Antérieure #4</i> #4 Anterior Approach retractor	H01 151
<i>Ecarteur Voie Antérieure #5</i> #5 Anterior Approach retractor	H01 152



<i>Élévateur Fémur voie POST.</i> Femoral Elevator POST. Approach	H01 047
<i>Élévateur Fémur voie ANT.</i> Femoral Elevator ANT. Approach	H01 153
<i>Ecarteur Statique Beckmann 300mm</i> Beckmann Static retractor 300mm	B80566
<i>Queue de Rat</i> Femoral Starter	H01 061



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MOTION INSIDE



Evolutis

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E v o l u t i s
C R E A T E U R F A B R I C A N T



*Dual
Mobility
Experience*



Captiv® DM



*Dual Mobility
Acetabular Cup*

*Cupule à Double
Mobilité*

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MOTION INSIDE

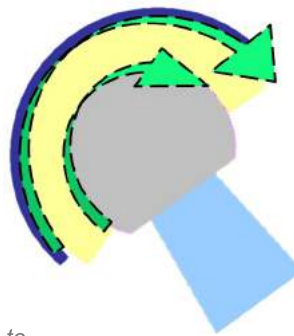


Created in St Etienne (France) in the mid 70's, the dual mobility concept has progressively evolved to provide a comprehensive answer to both patients and surgeons expectations in terms of security of use and longevity. Due to a very high intrinsic joint stability ⁽¹⁾ and a resistance to wear at least equivalent to conventional fixed bearings PE friction devices ⁽²⁾, the dual mobility cups account for more than 25% of the acetabular cups implanted in France.



Imaginée à St Etienne au milieu des années 70, la double mobilité a su évoluer pour apporter une réponse cohérente aux attentes des patients et de leur chirurgien pour plus de sécurité et de longévité.

En raison d'une stabilité intra-articulaire très importante ⁽¹⁾ et d'une résistance à l'usure au moins équivalente aux couples PE classiques ⁽²⁾, les cupules à double mobilité représentent aujourd'hui plus de 25% des implants acétabulaires utilisés en France.



1st Mobility: head/liner from 0 to 60° (28mm head with Ø10mm neck)

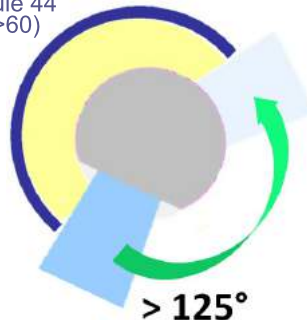
2nd Mobility: liner/cup from 60 to > 125°

Mobilité 1 : tête/insert de 0 à 60° (tête 28mm sur col de Ø10mm)

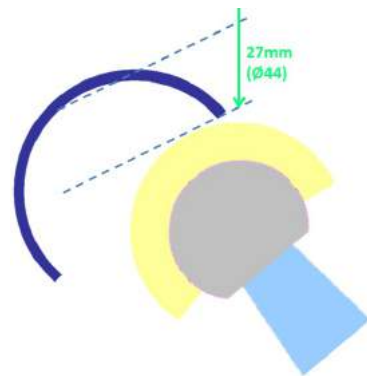
Mobilité 2 : insert/cupule de 60 à >125°

ROM > 125° for cup 44 (up to 140° for larger cups)

Mobilité >125° pour cupule 44 (jusqu'à 140° pour cup. >60)



> 125°



Stability: large jump gap > 27mm starting cup 44

Stabilité : Jump gap important > 27mm dès la taille 44

Main indications:

- primary arthritis for patients over 70
- fractured femoral necks in active patients
- primary arthritis for non compliant patients (dementia, alcohol...)
- primary arthritis for joint laxity (neuromuscular disorders, cerebral palsy, rheumatoid arthritis...)
- hip prosthesis revisions

Indications principales :

- arthroses primaires chez le patient de plus de 70 ans
- fractures de col fémoral chez le patient actif
- arthropathies sévères associées à une laxité intra-articulaire (déficients neuromusculaires...)
- arthropathies sévères chez les patients à comportement irrationnel (pathologies nerveuses, comportements addictifs...)
- révisions de prothèses de hanche

(1) Survival of the cementless Bousquet dual mobility cup: Minimum 15 year follow up of 437 total hip arthroplasties. C. Lautridou, B. Lebel, G. Burdin, C. Vielpeau. University Hospital of Caen, France. Publication RCO, 2008, 94, 731 – 739

(2) Dual articulation retentive acetabular liners and wear: surface analysis of 40 retrieved polyethylene implants. P. Adam, F. Farizon, M-H Fessy. University Hospital St Etienne, France. Publication : RCO, 2005, 91, 627-636

Cup size from
Ø44 to 62
Gamme de cupule de
Ø44 à 62



With or without spikes
Versions avec et sans
picots

Dual coating of Porous
titanium and
Hydroxyapatite
Revetement bi-couche
T40 poreux et
Hydroxyapatite



CAPTIV DM incorporates the knowledge acquired from almost 40 years of clinical use in hundreds of thousands of DM cups implanted worldwide:

- M30NW Iso 5832-9 forged stainless steel (improved friction characteristics)
- Dual coating of Porous titanium and Hydroxyapatite
- Equatorial press-fit completed with 3 rows of anchoring teeth
- Protrusion of the PE liner through reduction of cup thickness at the pole
- Moderately crosslinked PEXEL® polyethylene
- Liner including "positive excentration" design
- VacUpac conservation technology

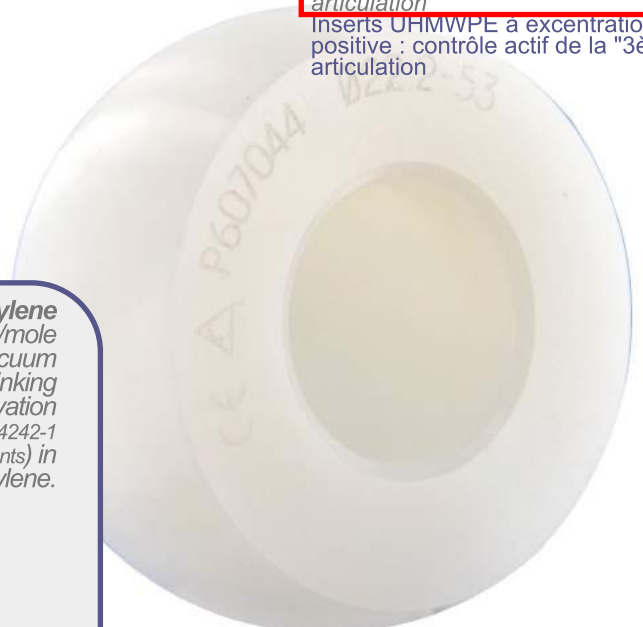
CAPTIV DM intègre les acquis d'une expérience de presque 40 ans sur plusieurs centaines de milliers d'implants dans le monde :

- matériau M30NW Iso 5832-9 forgé (amélioration des caractéristiques de frottement)
- double revêtement titane poreux et hydroxyapatite
- macrostructure à 3 rangées de dentures associée à un sur-dimensionnement équatorial
- protrusion du centre de l'insert par réduction de la toile au niveau polaire
- insert polyéthylène PEXEL® moyennement réticulé
- insert à conception "positive excentration"
- technologie de conservation VacUpac



UHMWPE with positive excentration:
dynamic control of the "third"
articulation

Inserts UHMWPE a excentration
positive : contrôle actif de la "3ème"
articulation



PEXEL® polyethylene

- initial molecularweight exceeding 7 millions of g/mole
- 40 kGy minimum gamma irradiation under vacuum creating crosslinking
- VacUpac vacuum conservation
- 50% Wear reduction (CERAH test according ISO 14242-1 and 14242-2, 5 millions cycles on shelf aged implants) in comparison to a conventional polyethylene.

Polyéthylène PEXEL®

- poids moléculaire initial supérieur à 7 millions de g/mole
- réticulation gamma à 40 kGy minimum
- conservation sous-vide VacUpac
- 50% de réduction d'usure (Test CERAH selon ISO 14242-1 et 14242-2, à 5 millions de cycles sur implants vieilliss sur étagère) par rapport à un polyéthylène conventionnel.

PEXEL® polyethylene liners Ø22 or 28 in
UHMWPE
Inserts polyéthylène PEXEL® en Ø22. ou
28 en UHMWPE

Cupules CAPTIV® Acetabular cups

Description	Ø	Réf. Cat N°	Description	Ø	Réf. Cat N°
HA ss ciment Press-Fit / C. less HA Press-Fit	44	H29 DM044	HA ss. ciment av. picots / C. less HA with spikes	44	H29 DM144
HA ss ciment Press-Fit / C. less HA Press-Fit	46	H29 DM046	HA ss. ciment av. picots / C. less HA with spikes	46	H29 DM146
HA ss ciment Press-Fit / C. less HA Press-Fit	48	H29 DM048	HA ss. ciment av. picots / C. less HA with spikes	48	H29 DM148
HA ss ciment Press-Fit / C. less HA Press-Fit	50	H29 DM050	HA ss. ciment av. picots / C. less HA with spikes	50	H29 DM150
HA ss ciment Press-Fit / C. less HA Press-Fit	52	H29 DM052	HA ss. ciment av. picots / C. less HA with spikes	52	H29 DM152
HA ss ciment Press-Fit / C. less HA Press-Fit	54	H29 DM054	HA ss. ciment av. picots / C. less HA with spikes	54	H29 DM154
HA ss ciment Press-Fit / C. less HA Press-Fit	56	H29 DM056	HA ss. ciment av. picots / C. less HA with spikes	56	H29 DM156
HA ss ciment Press-Fit / C. less HA Press-Fit	58	H29 DM058	HA ss. ciment av. picots / C. less HA with spikes	58	H29 DM158
HA ss ciment Press-Fit / C. less HA Press-Fit	60	H29 DM060	HA ss. ciment av. picots / C. less HA with spikes	60	H29 DM160
HA ss ciment Press-Fit / C. less HA Press-Fit	62	H29 DM062	HA ss. ciment av. picots / C. less HA with spikes	62	H29 DM162

Inserts DM CAPTIV® DM Liners

Ø de cupule Ø of cup	Description	Tête / Head 22.2	Ø Tête / Head Ø 28
44	Insert UHMWPE PEXEL UHMWPE liner	H51 M2245	
46	Insert UHMWPE PEXEL UHMWPE liner	H51 M2247	H51 M2847
48	Insert UHMWPE PEXEL UHMWPE liner	H51 M2249	H51 M2849
50	Insert UHMWPE PEXEL UHMWPE liner	H51 M2251	H51 M2851
52	Insert UHMWPE PEXEL UHMWPE liner	H51 M2253	H51 M2853
54	Insert UHMWPE PEXEL UHMWPE liner	H51 M2255	H51 M2855
56	Insert UHMWPE PEXEL UHMWPE liner	H51 M2257	H51 M2857
58	Insert UHMWPE PEXEL UHMWPE liner	H51 M2259	H51 M2859
60	Insert UHMWPE PEXEL UHMWPE liner	H51 M2261	H51 M2861
62	Insert UHMWPE PEXEL UHMWPE liner	H51 M2263	H51 M2863



Instrumentation CAPTIV® Instrument Set

Description	H30 9102 Droit/Straight	H30 9104 Courbe/Curved	Description	H30 9102 Droit/Straight	H30 9104 Courbe/Curved
Plateau avec couvercle / Tray with Lid	H30 9002	H30 9004	Préhenseur de cotyle Ø46-47 cup impaction tip	H52 2247	H52 P47
Corps d'impacteur / Cup impactor (body)	H52 007	-	Préhenseur de cotyle Ø48-49 cup impaction tip	H52 2249	H52 P49
Vis d'impacteur / Cup impactor (Screw)	H52 008	-	Préhenseur de cotyle Ø50-51 cup impaction tip	H52 2251	H52 P51
Manche impacteur courbe / Curved impaction	-	H52 036	Préhenseur de cotyle Ø52-53 cup impaction tip	H52 2253	H52 P53
Tige d'orientation Ø18 Orientation axis	H03 013	H76 019	Préhenseur de cotyle Ø54-55 cup impaction tip	H52 2255	H53 P55
Presse à insert / Liner press	H52 033		Préhenseur de cotyle Ø55-56 cup impaction tip	H52 2257	H52 P57
Vis de presse à insert / Liner press screw	H52 030		Préhenseur de cotyle Ø57-58 cup impaction tip	H52 2259	H52 P59
Centreur de tête / Femoral head centralizer	H52 031		Préhenseur de cotyle Ø59-60 cup impaction tip	H52 2261	H52 P61
Embout poussoir d'insert / Liner pusher tip	H52 035		Préhenseur de cotyle Ø62-63 cup impaction tip	H52 2263	H52 P63
Réducteur d'essai Ø22.2 trial insert adaptor	H52 2228		Cotyle d'essai Ø44 trial cup	H03 0244	
Manche impacteur M10 Impaction shaft	H03 036		Cotyle d'essai Ø46 trial cup	H03 0246	
Embout poussoir de cupule / Cup impaction tip	H03 037		Cotyle d'essai Ø48 trial cup	H03 0248	
Sphère d'impaction / Impaction spherical tip	H62 005		Cotyle d'essai Ø50 trial cup	H03 0250	
Insert d'essai Ø 22/44-45 trial liner	H52 M2245		Cotyle d'essai Ø52 trial cup	H03 0252	
Insert d'essai Ø 28/46-47 trial liner	H52 M2847		Cotyle d'essai Ø54 trial cup	H03 0254	
Insert d'essai Ø 28/48-49 trial liner	H52 M2849		Cotyle d'essai Ø56 trial cup	H03 0256	
Insert d'essai Ø 28/50-51 trial liner	H52 M2851		Cotyle d'essai Ø58 trial cup	H03 0258	
Insert d'essai Ø 28/52-53 trial liner	H52 M2853		Cotyle d'essai Ø60 trial cup	H03 0260	
Insert d'essai Ø 28/54-55 trial liner	H52 M2855		Cotyle d'essai Ø62 trial cup	H03 0262	
Insert d'essai Ø 28/56-57 trial liner	H52 M2857				
Insert d'essai Ø 28/58-59 trial liner	H52 M2859				
Insert d'essai Ø 28/60-61 trial liner	H52 M2861				
Insert d'essai Ø 28/62-63 trial liner	H52 M2863				
Préhenseur de cotyle Ø44-45 cup impaction tip	H52 2245	H52 P45			

Options	Réf. Cat N°
Tige d'orientation Ø12 Orientation axis (Tommy bar)	H03 007
Instrum. fraises à cotyle / Grater Reamer set	H03 9100



Mentions légales :

Les implants CAPTIV DM sont des dispositifs médicaux implantables de classe III indiqués pour les arthroplasties primaires totales (PTH) de la hanche. Les implants CAPTIV DM sont pris en charge par l'assurance maladie. Le chirurgien est expressément invité à lire attentivement les instructions mentionnées sur la notice d'utilisation incluse dans le conditionnement du DMI, ainsi que le manuel de technique opératoire délivré à la mise en place du produit ou disponible en téléchargement sur le site www.evolutisfrance.com.

Materials / Matériaux :

Cups: High Nitrogen content Stainless Steel according ISO 5832-9 with T40 and calcium hydroxyapatite coatings
Polyethylene liners: UHMWPE according ISO 5834-1 & 2 moderately crosslinked
Packaging: Sterilized under Gamma irradiation, VacUpac packaging
Cupules : Acier Inoxydable à haute teneur en azote selon ISO 5832-9 revêtu T40 et Hydroxyapatite de Calcium
Inserts polyéthylène : UHMWPE selon ISO 5834-1 et 2 modérément réticulé
Conditionnement : Stérilisé sous rayonnement Gamma, conditionnement VacUpac



Evolutis

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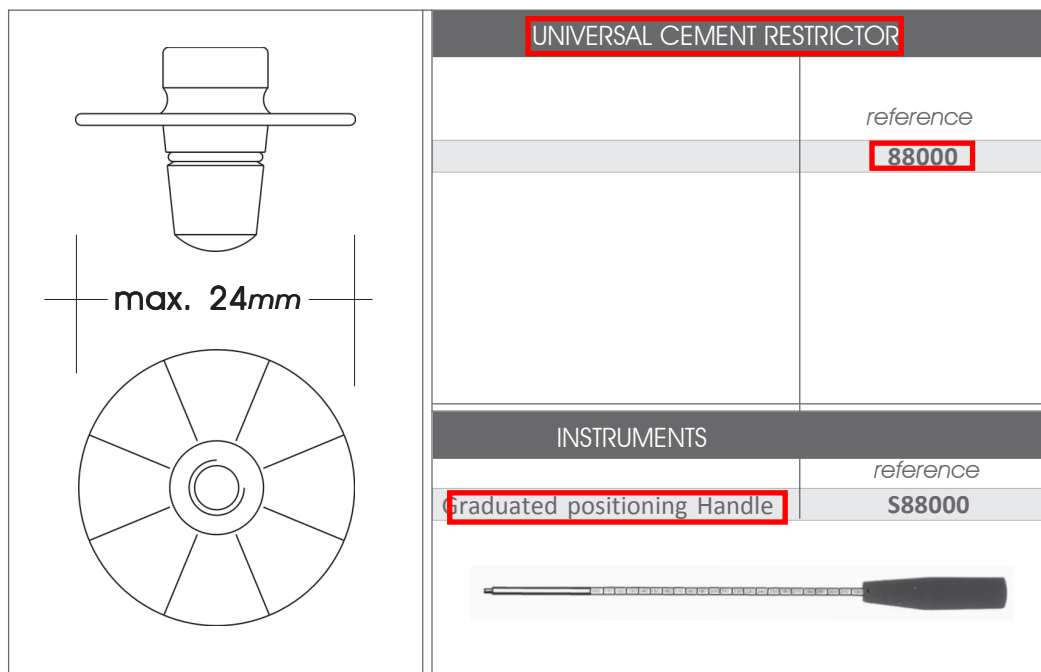


Designed and
Manufactured in
France

www.evolutisfrance.com

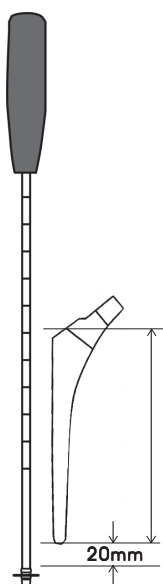
PRODUCT TECHNICAL INFORMATION SHEET

AVAILABLE SIZES

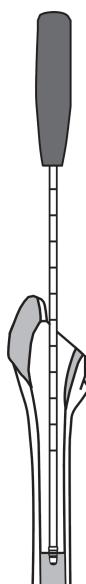


IMPLANTATION PROCEDURE

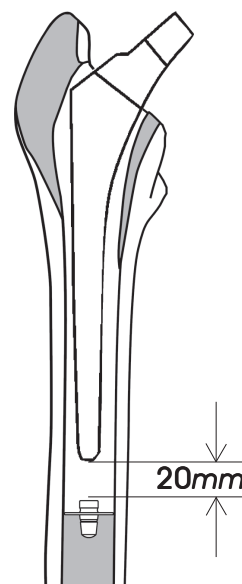
For device positioning into the medullary canal, screw the Cement Restrictor onto the Graduated Positioning Handle.



Determine the depth for device insertion referring to the length of the prosthesis, leaving max. 20mm. between the the distal tip of the stem.



Insert the Restrictor to the desired depth and remove the Positioning Handle by unscrewing.



Fill the medullary canal with bone cement and insert the prosthesis.