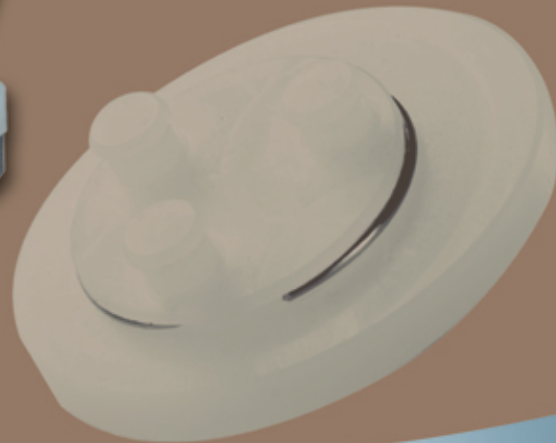


KNEE IMPLANTS & INSTRUMENTS

SECTION 03





SwingKnee® Cemented Knee System

Introduction



The posterior stabilization mechanism of the Cemented Knee System starts working at a 45° flexion, ensuring complete rollback just before the maximum muscular strain, reproducing an optimal posterior ligament function.

Since the insert's posterior slope allows straight resections, the surgical technique is easier and the forces are better distributed on the bone. The insert engages on the tibial component by a snap-on locking system. Insert's locking is improved by a safety screw. A flanged keel provides metaphyseal fixation and prevents anterior-posterior tilting movements and torsional forces. 4 holes are available for component fixation with screws by removing the protection plugs. Patella components are entirely of UHMWPE for cemented fixation.

The dome geometry of the bearing surface articulates with the femoral trochlea. In the first degrees of flexion media-lateral movements are permitted, whereas during further motion the medialized and congruent patellar profile allows the maximisation of the contact area, reducing the surface stresses and simultaneously centering the patella in the trochlea thus decreasing the shear stresses that could dislocate the prosthesis.

Posteriorly a relieved platform presents three undercut pegs, for a more secure cemented fixation. The two medial and the lateral peg are resistant to the shear stresses and forces transmitted by the patellar tendon. A metal ring allows for RX control of the component.





SwingKnee® Cemented Knee System

Introduction



PS



CR

FEMUR

Made of CoCrMo according to ASTM F75 / ISO 5832 – 4, femoral component is available in 5 sizes in both cruciate retaining (CR) and posterior stabilized (PS) versions, for the left and right side. Although the prosthesis is designed to be used as cemented, the increased porosity of the inner surface makes it also suitable for cementless pressfit implantations.

INSERT

Made of Ultra High Molecular Weight Polyethylene according to ASTM F / ISO 5834 – 2, without calcium stearate. The inserts for both CR and PS versions are available in 5 sizes, each one in 5 thicknesses.

TIBIA

The tibial component is made of CoCrMo according to ASTM F75 / ISO 5832 – 4 and fits both the left and right side and despite being designed primarily for cemented applications, cementless fixation is also possible with increased surface porosity. 5 sizes are available for optimal fitting to all anatomical conditions.

The bearing surface of both CR and PS femoral components is curved as in the physiological knee, with a continuous variable radius, decreasing posteriorly to allow both rotation and gliding on the tibial component.

The flared and angled shape of the trochlea and the increased height of the lateral condyle allow for proper patellar tracking and prevent dislocation and impingement.

The inner surfaces of femoral and tibial components are textured for acrylic-cemented fixation and pressfit biological fixation with porous coating.

The bone contact surface is shaped to allow minimal bone resections. Two conical pegs aid the component's fixation, preventing mobilization on the frontal plane and stress shielding.

The implantation of a posterior stabilized option does not require additional bone resections, thus allowing the surgeon to choose the appropriate implant, once the bone resections have been made.





SwingKnee® Cemented Knee System

Identity

Size		3	5	7	9	11
CR Femoral Component	Reference					
	Right	FCK.RCR03.24	FCK.RCR05.24	FFCK.RCR07.24	FCK.RCR09.24	FCK.RCR11.24
	Left	FCK.LCR03.24	FCK.LCR05.24	FCK.LCR07.24	FCK.LCR09.24	FCK.LCR11.24
	Coupling					
Size		3	5	7	9	11
PS Femoral Component	Reference					
	Right	FCK.RPS03.24	FCK.RPS05.24	FFCK.RPS07.24	FCK.RPS09.24	FCK.RPS11.24
	Left	FCK.LPS03.24	FCK.LPS05.24	FCK.LPS07.24	FCK.LPS09.24	FCK.LPS11.24
	Coupling					
Size		3	5	7	9	11
Tibial Component	Reference					
		TCK.03.24	TCK.05.24	TCK.07.24	TCK.09.24	TCK.11.24



SwingKnee® Cemented Knee System

Identity

CR Insert	Size	3	5	7	9	11
	Thickness	Reference				
	10 mm	IK.CR0310.42	IK.CR0510.42	IK.CR0710.42	IK.CR0910.42	IK.CR1110.42
	12 mm	IK.CR0312.42	IK.CR0512.42	IK.CR0712.42	IK.CR0912.42	IK.CR1112.42
	15 mm	IK.CR0315.42	IK.CR0515.42	IK.CR0715.42	IK.CR0915.42	IK.CR1115.42
	18 mm	IK.CR0318.42	IK.CR0518.42	IK.CR0718.42	IK.CR0918.42	IK.CR1118.42
	20 mm	IK.CR0320.42	IK.CR0520.42	IK.CR0720.42	IK.CR0920.42	IK.CR1120.42
PS Insert	Size	3	5	7	9	11
	Thickness	Reference				
	10 mm	IK.PS0310.42	IK.PS0510.42	IK.PS0710.42	IK.PS0910.42	IK.PS1110.42
	12 mm	IK.PS0312.42	IK.PS0512.42	IK.PS0712.42	IK.PS0912.42	IK.PS1112.42
	15 mm	IK.PS0315.42	IK.PS0515.42	IK.PS0715.42	IK.PS0915.42	IK.PS1115.42
	18 mm	IK.PS0318.42	IK.PS0518.42	IK.PS0718.42	IK.PS0918.42	IK.PS1118.42
	20 mm	IK.PS0320.42	IK.PS0520.42	IK.PS0720.42	IK.PS0920.42	IK.PS1120.42
Patella	Size	Small	Medium	Large		
		Reference				
		PK.S.42	PK.M.42	PK.L.42		



CMKI.00.00

SwingKnee® Cemented Knee Instrument Set





CMKI.00.00

SwingKnee[®] Cemented Knee Instrument Set

Description	Size	Number of Piece(s)	Reference
Trial Patella	Small	1	CMKI.TP.S
Trial Patella	Medium	1	CMKI.TP.M
Trial Patella	Large	1	CMKI.TP.L
Trial Patella	X Large	1	CMKI.TP.XL
C / R Trial Insert Size 5	10 mm	1	CMKI.CRTI.0510
C / R Trial Insert Size 5	12 mm	1	CMKI.CRTI.0512
C / R Trial Insert Size 5	15 mm	1	CMKI.CRTI.0515
C / R Trial Insert Size 5	18 mm	1	CMKI.CRTI.0518
C / R Trial Insert Size 7	10 mm	1	CMKI.CRTI.0710
C / R Trial Insert Size 7	12 mm	1	CMKI.CRTI.0712
C / R Trial Insert Size 7	15 mm	1	CMKI.CRTI.0715
C / R Trial Insert Size 7	18 mm	1	CMKI.CRTI.0718
C / R Trial Insert Size 9	10 mm	1	CMKI.CRTI.0910
C / R Trial Insert Size 9	12 mm	1	CMKI.CRTI.0912
C / R Trial Insert Size 9	15 mm	1	CMKI.CRTI.0915
C / R Trial Insert Size 9	18 mm	1	CMKI.CRTI.0918
C / R Trial Insert Size 11	10 mm	1	CMKI.CRTI.1110
C / R Trial Insert Size 11	12 mm	1	CMKI.CRTI.1112
C / R Trial Insert Size 11	15 mm	1	CMKI.CRTI.1115
C / R Trial Insert Size 11	18 mm	1	CMKI.CRTI.1118
P / S Trial Insert Size 5	10 mm	1	CMKI.PSTI.0510
P / S Trial Insert Size 5	12 mm	1	CMKI.PSTI.0512
P / S Trial Insert Size 5	15 mm	1	CMKI.PSTI.0515
P / S Trial Insert Size 5	18 mm	1	CMKI.PSTI.0518
P / S Trial Insert Size 7	10 mm	1	CMKI.PSTI.0710
P / S Trial Insert Size 7	12 mm	1	CMKI.PSTI.0712
P / S Trial Insert Size 7	15 mm	1	CMKI.PSTI.0715
P / S Trial Insert Size 7	18 mm	1	CMKI.PSTI.0718
P / S Trial Insert Size 9	10 mm	1	CMKI.PSTI.0910
P / S Trial Insert Size 9	12 mm	1	CMKI.PSTI.0912
P / S Trial Insert Size 9	15 mm	1	CMKI.PSTI.0915
P / S Trial Insert Size 9	18 mm	1	CMKI.PSTI.0918
P / S Trial Insert Size 11	10 mm	1	CMKI.PSTI.1110
P / S Trial Insert Size 11	12 mm	1	CMKI.PSTI.1112
P / S Trial Insert Size 11	15 mm	1	CMKI.PSTI.1115
P / S Trial Insert Size 11	18 mm	1	CMKI.PSTI.1118



CMKI.00.00

SwingKnee[®] Cemented Knee Instrument Set

Description	Size	Number of Piece(s)	Reference
EM Tibial Ankle Clamp - A		1	CMKI.TAC.A
EM Tibial Ankle Clamp - B		1	CMKI.TAC.B
Spiked Proximal Rod		1	CMKI.SPR.00
Extension	10 mm	1	CMKI.EX.10
Extension	12 mm	1	CMKI.EX.12
Extension	15 mm	1	CMKI.EX.15
Extension	18 mm	1	CMKI.EX.18
Tibial Stylus		1	CMKI.TS.00
Tibial Resection Guide - Right	0°	1	CMKI.TRG.R0
Tibial Resection Guide - Right	5°	1	CMKI.TRG.R5
Tibial Resection Guide - Left	0°	1	CMKI.TRG.L0
Tibial Resection Guide - Left	5°	1	CMKI.TRG.L5
Trial Femoral Stem - Right	Size 5	1	CMKI.TFS.R05
Trial Femoral Stem - Right	Size 7	1	CMKI.TFS.R07
Trial Femoral Stem - Right	Size 9	1	CMKI.TFS.R09
Trial Femoral Stem - Right	Size 11	1	CMKI.TFS.R11
Trial Femoral Stem - Left	Size 5	1	CMKI.TFS.L05
Trial Femoral Stem - Left	Size 7	1	CMKI.TFS.L07
Trial Femoral Stem - Left	Size 9	1	CMKI.TFS.L09
Trial Femoral Stem - Left	Size 11	1	CMKI.TFS.L11
Insert Pusher / Impactor		1	CMKI.IP.00
Tibial Component Impacting End		1	CMKI.TCI.00
Screwdriver For Insert Fixation Screw		1	CMKI.SIS.00
Tibial Alignment Guide & Trial Tibial Component Introducer		1	CMKI.TAG.00
Posterior Stabilizer	Size 3 - 5 - 7	1	CMKI.PS.357
Posterior Stabilizer	Size 9 - 11	1	CMKI.PS.911
Trial Tibial Plateau	Size 5	1	CMKI.TTP.05
Trial Tibial Plateau	Size 7	1	CMKI.TTP.07
Trial Tibial Plateau	Size 9	1	CMKI.TTP.09
Trial Tibial Plateau	Size 11	1	CMKI.TTP.11
Tibial Reamer	Size 5	1	CMKI.TR.05
Tibial Reamer	Size 7	1	CMKI.TR.07
Tibial Reamer	Size 9	1	CMKI.TR.09
Tibial Reamer	Size 11	1	CMKI.TR.11
Universal Handle		2	CMKI.UH.00



CMKI.00.00

SwingKnee[®] Cemented Knee Instrument Set

Description	Size	Number of Piece(s)	Reference
I / M Alignment Rod Long	6 mm	1	CMKI.AR.L6
I / M Alignment Rod Long	8 mm	1	CMKI.AR.L8
Extra Medullary Rod		1	CMKI.EMR.00
Alignment Rod		1	CMKI.AR.00
Initial Drill Long	8 mm	1	CMKI.IDR.L8
Bone File		1	CMKI.BF.00
Angle		1	CMKI.A.00
I / M Alignment Guider Rod Handle		1	CMKI.AR.H.00
Impactor		1	CMKI.I.00
P / R Distal Femoral Alignment Guide		1	CMKI.FAG.00
P / R Distal Femoral Resection Guide	8 mm	1	CMKI.FRG.08
P / R Distal Femoral Resection Guide	10 mm	1	CMKI.FRG.10
P / R Distal Femoral Alignment Guide Handle		1	CMKI.FAG.H.00
Femoral Guide		1	CMKI.FG.00
I / M Alignment Rod Handle		1	CMKI.AR.H.00
Pin Extraction Pliers		1	CMKI.PEP.00
Headless Pin		1	CMKI.HSP.00
Head Pin	Short	1	CMKI.HP.S
Head Pin	Long	1	CMKI.HP.L
Headless Pin Extractor		1	CMKI.HSPE.00
Femoral Sizing Guide	Size 5	1	CMKI.FSG.05
Femoral Sizing Guide	Size 7	1	CMKI.FSG.07
Femoral Sizing Guide	Size 9	1	CMKI.FSG.09
Femoral Sizing Guide	Size 11	1	CMKI.FSG.11
Fixation Clamp		1	CMKI.FC.00
Femoral Cutting Guide	Size 5	1	CMKI.FCG.05
Femoral Cutting Guide	Size 7	1	CMKI.FCG.07
Femoral Cutting Guide	Size 9	1	CMKI.FCG.09
Femoral Cutting Guide	Size 11	1	CMKI.FCG.11
Hammer		1	CMKI.HA.00
Femoral Impactor & Trial Femoral Extractor		1	CMKI.FIE.00
Femoral Component Impacting End		1	CMKI.FCIE.00
Femoral Sizing Stylus		1	CMKI.FSS.00
Femoral Impactor Locking Wrench		1	CMKI.FILW.00
Head Pin & Spiked Rod Extractor		1	CMKI.HPE.00



CMKI.00.00

SwingKnee® Cemented Knee Instrument Set

Description	Size	Number of Piece(s)	Reference
Leaf Osteotome Introducer		1	CMKI.LOI.00
Osteotome Blade	10 mm	1	CMKI.OB.10
Osteotome Blade	15 mm	1	CMKI.OB.15
Osteotome Blade	20 mm	1	CMKI.OB.20
Femoral Notch Punch		1	CMKI.FNP.00
Drill For Femoral Pegs		1	CMKI.DRFP.00
MIS Anterior Femoral Retractor		1	CMKI.AFR.00
MIS Tibial Retractor		2	CMKI.TR.00
Femoral - Tibial Spreader		1	CMKI.FTS.00
Posterior Offset Osteotome		1	CMKI.POO.00
Patellar Stylus & Resection Guide		1	CMKI.PSRG.00
Patellar Calipper		1	CMKI.PCA.00
Patellar Clamp		1	CMKI.PC.00
Patellar Drill Guide		1	CMKI.PDRG.00
Patellar Drill		1	CMKI.PDR.00
Patellar Reamer		1	CMKI.PR.00