



permedica
ORTHOPAEDICS



BUTTERFLY

Rotating Hinged
Knee

**PRODUCT
INFORMATION**



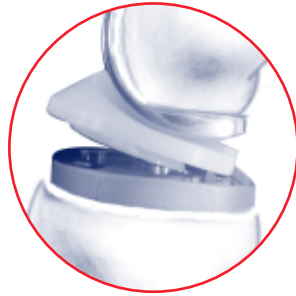
Semi-constrained Rotating Hinge Prosthesis



Femur+Tibia

Anatomic Femoro-Tibial component in CrCo alloy, also with **BIOLOY®** ultrahard antiallergic coating.

The rotating hinge constrains the stability on all planes allowing flexion-extension movement. The degree of rotation improves as the degree of flexion increases; rotation is not allowed with the leg fully extended.



In the ANTI-LUXATION model the Femoral bush is locked onto the Tibia by the Tibial Insert, thus avoiding the components luxation after reduction of the joint.

Modular stems

Modular intramedullary stems for cemented or cementless anchoring, available in different lengths and diameters, with double locking system (screw and conical connection).

Distal centralizers

UHMWPE distal centralizers for perfect centering of the stem into the diaphysis thus ensuring even distribution of the acrylic cement around the stem.

Tibial augments

Total and partial augments, in different thicknesses, to be screwed to the inferior face of the tibial component.



Replaceable Polyethylene components can be easily exchanged in case of revision.

Information

INTENDED PURPOSE:

GKS BUTTERFLY is a tri-compartmental gliding knee prosthesis stabilized on all planes to be used in Total Knee Replacement surgeries. Use of the device is indicated in cases of revision due to failure of previous arthroplasties, correction of severe axial deviation in varus/valgus and/or severe joint instability. Fixation of the device onto the bone is achieved by means of bone cement; this can be total (using cemented intramedullary stems) as well as partial (using press-fit stems) whenever intramedullary cement filling is not desired.

MATERIALS:

FEMUR/TIBIA components: Cobalt Chromium alloy- ISO5832/4;

CEMENTED STEMS: Cobalt Chromium forged alloy- ISO5832/12;

TIBIAL AUGMENTS: PM734 highly Nitrogenized Stainless Steel forged alloy - ISO5832/9

PRESS-FIT/NICKEL FREE STEMS - NICKEL FREE TIBIAL AUGMENTS: Titanium Aluminium Vanadium alloy - ISO5832/3;

INSERTS/PATELLA: UHMWPE without calcium stearate - ISO5834/1/2;

SURFACE FINISHING:

Articular surfaces: achieved through the **MICROLOY®** technological process; roughness in compliance with ISO 7207-2.

Bone/Prosthesis contact surface: pelleted with glass beads, with depressions for even acrylic bone cement spreading.

STERILIZATION:

Method: Ethylene Oxyde (EtO) or irradiation (Beta/Gamma rays - minimum dose 25 kGy) or Vaporized Hydrogen Peroxide (VH2O2).

Validity: 5 years (Beta sterilized products)- 10 years (EtO/Gamma/VH2O2 sterilized products).

CLASSIFICATION:

Class III or **Class IIb** as reported in Directive 2005/50/CE (and related D.lgs 26 april 2007 n.65) concerning re-classification of Hip, Knee and Shoulder joint prostheses which modifies classification criteria of Annex IX of Directive 93/42/CEE and next integrations and amendments.

GKS BUTTERFLY - Femoro-Tibial components

Class III



Revision Standard



Revision BIOLOY®

		Standard	BIOLOY®	MICROLOY® ANTILUXATION
Size	Side	reference	reference	reference
	RIGHT	40101	40201	40401
Small	LEFT	40102	40202	40402
	RIGHT	40103	40203	40403
Medium	LEFT	40104	40204	40404

GKS BUTTERFLY - Cemented Stems

GKS BUTTERFLY - Press-fit Stems Class III



Length	CrCo	Titanium Nickel Free	Centralizers	
	reference	reference	∅	reference
40 mm	41004	41520	12mm	42012
90 mm	41509	41521	15mm	42015
105 mm	41530	41524		
160 mm	41536	41525		

Length	∅ 14mm	∅ 15mm	∅ 16mm	∅ 17mm	∅ 18mm
	reference	reference	reference	reference	reference
45 mm	42401	42501	42601	42701	42801
100 mm	42402	42502	42602	42702	42802
125 mm	42403	42503	42603	42703	42803
175 mm	42404	42504	42604	42704	42804

GKS BUTTERFLY - Total Tibial Augments

Class IIb



Thickness	PM734		Titanium Nickel Free		SCREWS for AUGMENTS	
	SMALL	MEDIUM	SMALL	MEDIUM	Length	reference
5mm	43301	43302	43601	43602	8mm	45008
10mm	43401	43402	43701	43702	23mm	45023
15mm	43501	43502	43801	43802		

GKS BUTTERFLY - Half Tibial Augments

Class IIb



Thickness	PM734				Titanium Nickel Free			
	MEDIAL RIGHT LATERAL LEFT		LATERAL RIGH MEDIAL LEFT		MEDIAL RIGHT LATERAL LEFT		LATERAL RIGH MEDIAL LEFT	
	SMALL	MEDIUM	SMALL	MEDIUM	SMALL	MEDIUM	SMALL	MEDIUM
10mm	44201	44203	44202	44204	44311	44313	44312	44314
15mm	44301	44303	44302	44304	44321	44323	44322	44324

SPARE PARTS

Class III

FEMORAL BUSH SLEEVES



UHMWPE

SIZE	reference
SMALL	46908
MEDIUM	46909



MICROLOY®

Unique size	reference
Standard	46910
Antiluxation	46923

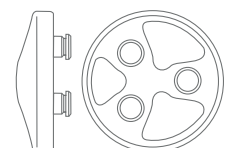
UHMWPE TIBIAL INSERT + Screw



Side	STANDARD	SMALL	MEDIUM
	reference	reference	reference
RIGHT	46901	46903	
LEFT	46902	46904	
Side	ANTILUXATION	SMALL	MEDIUM
	reference	reference	reference
RIGHT	46917	46919	
LEFT	46918	46920	

GKS PRIME FLEX

Patella Class III



Size ∅	reference
28mm	53028
30mm	53030
32mm	53032
34mm	53034
36mm	53036
38mm	53038



permedica
ORTHOPAEDICS

*CHALLENGING EXCELLENCE
IN TECHNOLOGY*

www.permedica.it