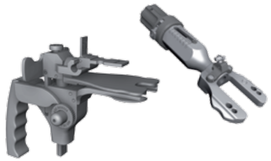
## GMK PRIMARY INSTRUMENTS

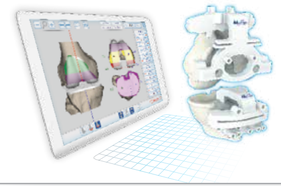
Femur First or Tibia First Procedures, Intramedullary or Extramedullary Instrumentation to suit your preferences.

Ergonomic and MIS-Friendly Cutting Blocks.

4in1 speed blocks providing fast and accurate femoral preparation.



Accurate soft tissue management due to innovative Ligament Balancing System and Ligament Tensor Device.



MyKnee cutting blocks are created to accurately match the surgeon's preoperative planning, **based on the individual patient's anatomy and his mechanical axis.**

Medacta International
GMK® PRIMARY

## EXPERIENCE THE SYNERGY BETWEEN THE GMK PRIMARY AND MYKNEE

The goals of modern knee arthroplasty are met with the anatomic and proven GMK Knee System.[2] These features are enhanced when combined with the clinically prominent and reproducible MyKnee Patient Matched Technology.[3-17]

MyKnee is a patient-specific cutting block that allows the surgeon to reproduce pre-operative 3D planning. This is done through state-of-the-art interactive software that interprets CT or MRI images of a patients knee.

**Designed for you by you!**

MyKnee® PATIENT MATCHED TECHNOLOGY IN KNEE REPLACEMENT

MyKnee technology provides a unique set of potential benefits:

- **THIS ONE WORKS!** Proven accuracy and effectiveness of MyKnee [3-17]
- Actual cutting blocks, not just pin positioners
- CT or MRI based
- **Significant time and cost savings** for hospitals, potentially allowing **additional procedures per surgical session** [10-12]
- Online interactive 3D planning
- Complete in-house technology ensuring the assistance of a personal MyKnee technician and **only 3 weeks lead time!**

## REFERENCES

*[1] Data on file: Medacta. [2] Anderl W, Canciani JP, Chalencon F, Du Plessis D, Lambert P, Leon V, Meriaux JL, Meystre JL, Mendelin R, Vié P, Wootton J. Global Medacta® Knee Prosthesis GMK® Primary - 1 year clinical outcomes. M.O.R.E. Journal, 2011, May; Vol. 1: 17-20. [3] Leon V, Patient matched technology vs conventional instrumentation and CAS, Poster at the 13th EFORT Congress, Berlin, May 23-25 2012. [4] Koch P, Müller D, Pisan M, Fucentese S, Radiographic accuracy in TKA with CTbased patientspecific cutting block technique, Knee Surg Sports Traumatol Arthrosc. 2013 Oct;21(10):2200-5. [5] Dussault M, Goldberg T, Greenhow R, Hampton D, Parry S, Slimack M - Preoperative planning accuracy of MyKnee system. M.O.R.E. Journal. 2012 May; 2:22-25. [6] Müller D et al, CT based patient specific cutting blocks for total knee arthroplasty: technique and preliminary radiological results. Podium Presentation at the 71st Annual Congress of the SSOT, Lausanne, Switzerland, June 22-24, 2011. [7] Goldberg T et al, CtBased Patient-Specific Instrumentation Is Accurate for TKA: A Single-Surgeon Prospective Trial, Bone Joint Journal vol. 95-B no. SUPP 34 325, 2013 [8] Goldberg T et al, CtBased Patient-Specific Instrumentation Is Effective in Patients With Pre-Existing Hardware about the Knee, Bone Joint Journal vol. 95-B no. SUPP 34 326, 2013 [9] Trong M, Helmy N et al, Improved positioning of the tibial component in unicompartmental knee arthroplasty with patient-specific cutting blocks, Knee Surg Sports Traumatol Arthrosc. 2014 Jan, Epub ahead of print. [10] Goldberg T - MyKnee economical and clinical results. Podium Presentation at the 6th M.O.R.E International symposium, Stresa, Italy, May 13-14, 2011. [11] Koch P - MyKnee System : A new vision in total knee replacement. Leading Opinions - Orthopädie & Rheumatologie 2, 2011; 32-35. [12] Gagna G - Aspects economiques de la technologie sur mesure MyKnee en chirurgie prothetique du genou, Podium Presentation at the SOFCOT Annual Meeting, Paris, November 11-14, 2012. [13] Boldo F, Bonifanti B – Patient-specific cutting blocks for total knee arthroplasty: preoperative planning reliability. J Orthopaed Traumatol 2011; 12 (Suppl 1): S23-S88 [14] Ritter MA. et al. Postoperative alignment of total knee replacement: its effect on survival. Clin Orthop. 1994; 299:153-156. [15] Kalairajah Y et al. Blood loss after total knee replacement: effects of computer-assisted surgery. JBJS Br. 2005 - Nov;87(11):1480-2. [16] Kalairajah Y. et al. Are systemic emboli reduced in computer-assisted knee surgery?: A prospective, randomised, clinical trial. JBJS Br. 2006 Feb;88(2):198-202. [17] Peersman G. et al. Prolonged Operative Time Correlates with Increased Infection Rate after Total Knee Arthroplasty. Hospital for Special Surgery Journal 2006 Feb;2(1):70-2.*

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rev. 01
Last update: June 2014

swiss made

# GMK® PRIMARY

GLOBAL MEDACTA KNEE

DIFFERENT NEEDS... YOUR GLOBAL SOLUTION

Brochure

Hip | Knee | Spine | Navigation

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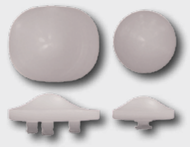
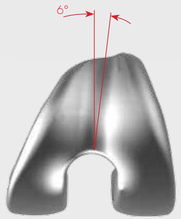
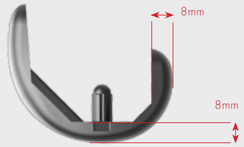
## GMK PRIMARY IMPLANT



In addition to the traditional Symmetric Inset Patella, **GMK also offers an Asymmetric Resurfacing Patella** increasing the patella-femur contact surface, reducing stress on polyethylene and improving stability.[1]




**Anatomic design of the trochlea** optimizes patella tracking, reducing stress on the patella tendon and lowering the risk of patella dislocation.[1]

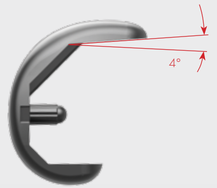


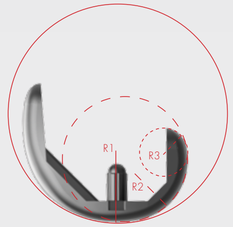

**Bone Preserving Femoral Component**: 8mm distal and posterior condyles.
**Same thickness of distal and posterior condyles** regardless of the size being implanted.

**Mirror Polished Surface of the Tibial Baseplate** minimizes backside wear.[1]

**Inlay Clipping Mechanism** assures effecient and safe implantation.[1]

**4° Anterior Cut** creates a "wedge" effect that improves primary stability and simplifies impaction.[1]




**J-Curved Sagittal Profile** allows more natural knee kinematics, improves knee flexion and promotes "rollback" of the femoral component.[1]

**Asymmetric Design of the Tibial baseplate** maximizes bone coverage, assures optimal load distribution and avoids the risk of overhang.[1]

## PRODUCT RANGE

...our comprehensive product range - your flexible solution!

**FEMORAL COMPONENT**
- 12 sizes STD / PS
- Anatomical: left and right
- Material: Cobalt-Chrome
- Cemented: 0.5 mm deep pockets

**INLAY**
- 6 sizes STD, UC and PS fixed
- Five levels of thickness (10, 12 ,14, 17, 20 mm)
- Material: UHMWPE

**TIBIAL COMPONENT**
- 6 sizes
- Anatomical: left and right
- Material: Cobalt-Chrome
- Cemented: 0.5 mm deep pockets

**PATELLA**
- 4 sizes inset and resurfacing
- Material: UHMWPE
- Cemented
- One fixation pegs / Three fixation pegs

**TIBIAL EXTENSION STEM**
- 2 sizes: D11 mm x L30 mm
  D11 mm x L65 mm
- Cemented

DISCOVER THE OTHER MEMBERS OF GMK FAMILY

GMK® GLOBAL MEDACTA KNEE SYSTEM