

ENVIRONMENTALLY RESPONSIBLE

GMK Efficiency single use instruments

- Have neutral environmental impact when compared to the average CO₂ equivalent annual emission of a hospital using conventional metal re-usable instrumentation [5]
- Completely eliminate need to wash and sterilize traditional metal instrument trays
- Save up to 435 liters of clean water for each TKR [6-8]



THE MODERN OFFER

The potential benefits of GMK Efficiency single use instruments are further enhanced when used in conjunction with:

- GMK Sphere medially stabilized knee system, which has demonstrated the potential to improve patient satisfaction [9-12]
- MyKnee patient matched instrument platform, which facilitates accurate implant positioning and potentially reduces blood loss and the time of hospitalization [13-17]

GMK Sphere, MyKnee and GMK Efficiency provide the ultimate solution for patient, hospital and surgeon satisfaction.

GMK® Efficiency

SINGLE USE INSTRUMENTS
IN KNEE REPLACEMENT



MyKnee®
PATIENT MATCHED TECHNOLOGY
IN KNEE REPLACEMENT

GMK® SPHERE
MEDIALLY STABILIZED KNEE

REFERENCES

[1] Siegel G. W., Patel N. N., Milshteyn M. A., Buzas D., Lombardo D. J., Morawa L. G., M.D., Cost Analysis and Surgical Site Infection Rates in Total Knee Arthroplasty Comparing Traditional vs Single-Use Instruments. *The Journal of Arthroplasty* 30; (2015): 2271-2274. [2] Stone et al, *American Journal of Infection Control*, 2005. [3] Dell'Osso G, Celli F, Bottai V, Bugelli G, Citarelli C, Agostini G, Guido G, Giannotti S Single-Use Instrumentation Technologies in Knee Arthroplasty: State of The Art, *Surg Technol Int.* 2016 Apr 27;XXVIII. pii: sti28/727. [4] Survey on European Hospitals and Clinics. Data on file Medacta. [5] Product Carbon Footprints: Comparative analysis metal vs. single use instrumentation, SwissClimate AG, 2014. [6] Getinge 46 Washer Disinfector - Service Instructions. [7] Recommendations for Cleaning, Decontamination and Sterilization of Medacta International Orthopedic Devices. [8] Prioclave North America Report, 2013. [9] Pritchett JW "Patients Prefer A Bicruciate-Retaining or the Medial Pivot Total Knee Prosthesis", *The Journal of Arthroplasty*, 2011. [10] Jansson V et al, "Kinematics and contact patterns before and after TKA: an in vitro comparison of GMK PS vs. GMK Sphere", Podium presentation at DKOU 2014, October 28-31 2014. [11] Banks S et al, "In Vivo Kinematics of a Medially Conforming & Rotationally Unconstrained TKA Design", Podium presentation at the 27th Annual Meeting of the International Society for Technology in Arthroplasty, Kyoto, Japan, September 25-27, 2014. [12] Field R, Scott G, Skinner J, Van Overschelde P, Early Results After GMK Sphere Medially Stabilized Knee Arthroplasties - 6 months and 1 year clinical outcome, Medacta White Paper. [13] Anderl W et al, CTbased patient-specific vs. conventional instrumentation: Early clinical outcome and radiological accuracy in primary TKA; *Knee Surg Sports Traumatol Arthrosc.* 2014. [14] Koch P, Müller D, Pisan M, Fucentese S, Radiographic accuracy in TKA with CTbased patient-specific cutting block technique, *Knee Surg Sports Traumatol Arthrosc.* 2013 Oct;21(10):2200-5. [15] Goldberg T et al, CTBased Patient-Specific Instrumentation Is Accurate for TKA: A Single-Surgeon Prospective Trial, *Bone Joint Journal vol. 95B no. SUPP 34 325*, 2013. [16] Goldberg T et al, CTBased Patient-Specific Instrumentation Is Effective in Patients With Pre-Existing Hardware about the Knee, *Bone Joint Journal vol. 95B no. SUPP 34 326*, 2013. [17] Nabavi et al, Assessment of the Accuracy of TKR's Performed Using Patient Matched Technology by Computed Tomography, Podium Presentation at the 27th ISTA congress Kyoto, Sept 24-27, 2014.

swiss
made



GMK® Efficiency

SINGLE USE INSTRUMENTS
IN KNEE REPLACEMENT

INNOVATION THAT DELIVERS



Brochure

Joint

Spine

Sports Med

RESPONSIBLE INNOVATION

Healthcare systems around the world are challenged by **increasing volumes** and **economic pressure**. Therefore, healthcare providers are looking for innovative ways to improve efficiency while reducing the cost of surgical procedures.

Medacta is committed to providing innovative orthopaedic solutions that improve patient well-being safely and effectively, and deliver sustainability and efficiency to the healthcare system.

EFFICIENCY IS THE KEYWORD

GMK Efficiency single use instruments have been conceived to **optimize instrument management**, providing significant benefits in the O.R. and throughout the hospital supply chain.

Consistent with Medacta's vision, GMK Efficiency delivers **innovation to every healthcare stakeholder**.

GMK EFFICIENCY IS THE CLEAR SOLUTION

COMPLETE SINGLE-USE INSTRUMENTATION

Only one small metal tray is needed.

LOWER INFECTION RISK

Potentially reduced risk of non-sterile instrument occurrences with terminally sterile instruments^[1]. The estimated cost for a single surgical site infection is on average \$25,500^[2].

EFFICIENT AND COST-EFFECTIVE

Time and cost related to washing, sterilizing and checking instruments are potentially eliminated^[3]. Potential reduction in turnover time and optimization of staff management can lead to **additional surgeries** during a surgical session.

ALWAYS READY, STERILE AND BRAND NEW, OPTIMIZING LOGISTICS

Surgery cancellation or delay caused by holes in blue wrapping, missing instruments, or wet indicators found in reusable trays can be prevented. GMK Efficiency is delivered terminally sterile, the perfect solution for Ambulatory Surgical Centers.

REPRODUCIBLE PROCEDURE

Ergonomic, staff-friendly instruments, brand new for each case.

The combination of **special medical grade composite technopolymers** and a precise manufacturing process provides high fatigue and abrasion resistance while granting design versatility.

GMK EFFICIENCY HAS THE POTENTIAL TO GENERATE SIGNIFICANT SAVINGS ON THE GLOBAL TKR PROCEDURE COST^[3-4].

GMK EFFICIENCY IS A COMPLETE SINGLE USE INSTRUMENT SET TO IMPLANT EITHER GMK SPHERE OR GMK PRIMARY TOTAL KNEE SYSTEMS



A CUSTOMIZED SOLUTION

Optimized size-specific layout of GMK Efficiency for an effective instrument management.

GMK Efficiency can be used in combination with MyKnee, patient-matched instrumentation, maximizing its benefits. As an alternative to MyKnee, the GMK Efficiency *Conventional* set can be used, which includes alignment jigs and sizers.

A GMK Efficiency *Patella* set is available as an option.

