


**MATHYS**   
European Orthopaedics

**20 YEARS  
CLINICAL  
EXPERIENCE**

balanSys BICONDYLAR  
It's a PLUS!

# balanSys BICONDYLAR – today even better!

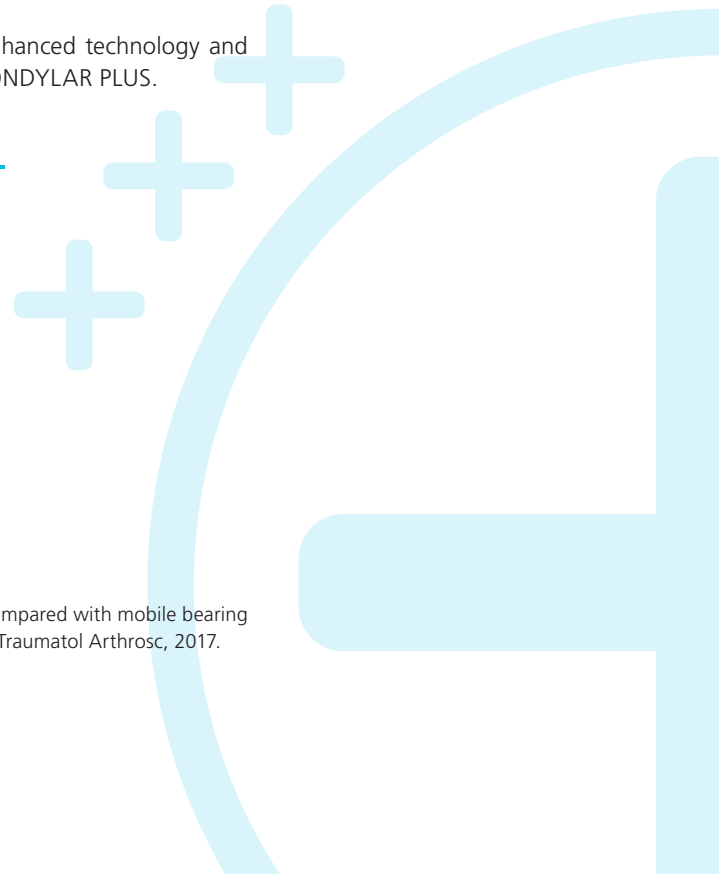
20 years of clinical experience and exceptionally low revision rates speak volumes for the balanSys BICONDYLAR.<sup>1</sup> Building on this tried-and-tested implant design, Mathys is continuously developing its balanSys BICONDYLAR and, in the process, continuously enhancing this knee system

A proven prosthesis with extra PLUS' – PLUS leggera instruments – PLUS vitamys inlays – PLUS refined inlay thickness increments, to guarantee surgeons real added value in the operating theatre.

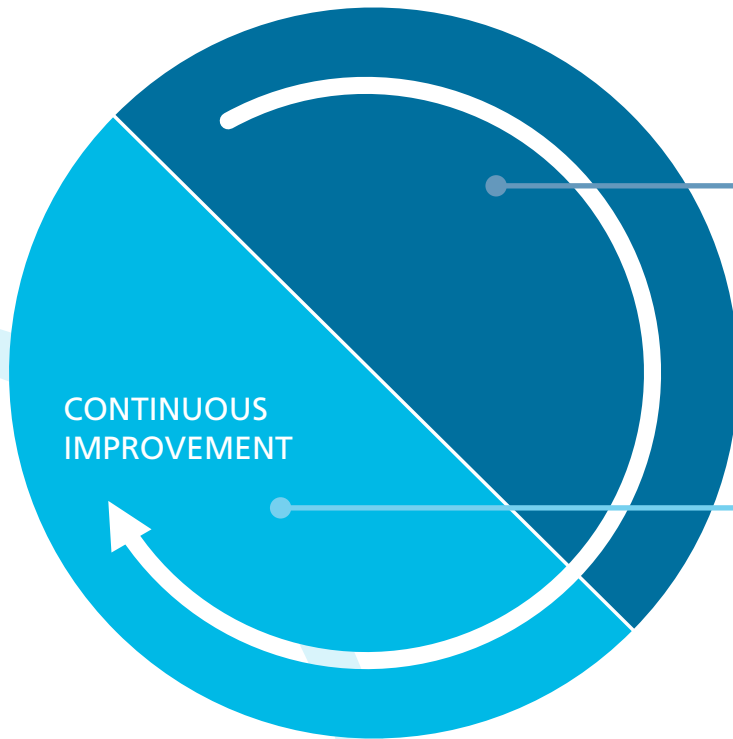
Expectations in terms of efficacy, stability, precision, enhanced technology and longevity are combined and continued in balanSys BICONDYLAR PLUS.

## balanSys BICONDYLAR – it's a PLUS.

<sup>1</sup> Heesterbeek, P.: Superior long-term survival for fixed bearing compared with mobile bearing in ligament-balanced total knee arthroplasty. Knee Surg Sports Traumatol Arthrosc, 2017.



# balanSys BICONDYLAR



## PROVEN

*A proven implant design with superior clinical results in joint replacement registries and medium and long-term studies.*

## ENHANCED

- + *leggera instruments*
- + *vitamys inlays*
- + *refined height increments*

# Proven prosthesis

20 years of clinical experience and exceptionally low revision rates speak volumes for the balanSys BICONDYLAR. This knee system demonstrates clinical reliability with a survival rate of 97.0 % after 12.4 years and scores highly in terms of patient satisfaction.<sup>1</sup>



<sup>1</sup> Heesterbeek, P.: Superior long-term survival for fixed bearing compared with mobile bearing in ligament-balanced total knee arthroplasty. Knee Surg Sports Traumatol Arthrosc, 2017.



# PROVEN

*Safety combined with functionality: Clinical studies demonstrate excellent long-term results and highlight the benefits to patients.*

# leggera instruments

The name «leggera» is derived from the Italian word meaning «light». leggera instruments simplify the procedures involved in implanting the balanSys BICON-DYLAR prostheses and are based on three principles.

## 1. INTUITIVE

*The design of the instruments impresses thanks to their intuitive handling. The settings chosen can be reviewed by sight and precisely adjusted by touch thanks to their characteristic click sound.*

## 2. EFFICIENT

*The adjustable components are colour-coded. This allows the practical use of the ergonomic set of instruments with logical steps for the efficient implantation of the prosthesis.*

## 3. LESS COMPLEX

*The leggera instrument set comprises just four trays providing a complete implantation solution through intelligent design. This ensures that the entire set of instruments can be easily managed at all times.*







# vitamys inlays

vitamys is a vitamin E-enhanced, highly cross-linked polyethylene that belongs to the class of VEPEs (vitamin-enhanced, highly cross-linked polyethylenes). It is made from GUR 1020-E, a polyethylene with 0.1% alpha-tocopherol (vitamin E).

vitamys is designed to deliver superlative resilience and a long service life. This tried-and-tested material boasts the following characteristics:

- Excellent mechanical properties
- High wear resistance
- High oxidation resistance
- High ageing resistance

Unlike other highly cross-linked materials, a tension-reducing heat treatment well below its melting point is used during the production of vitamys in order to safeguard the material's dimensional stability. This produces good mechanical properties.

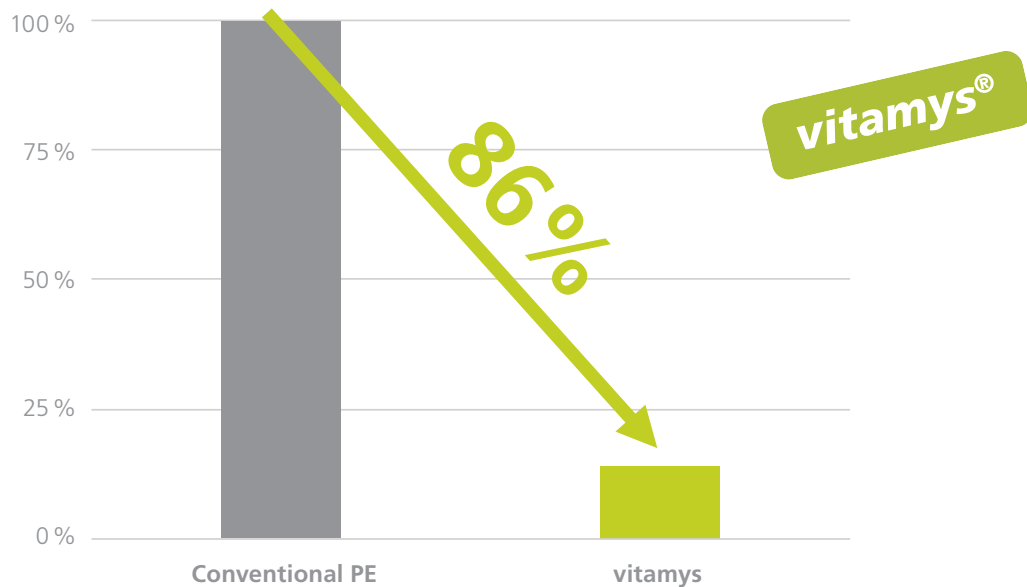
The addition of the natural antioxidant vitamin E means that vitamys is highly resistant to oxidation. This preserves its excellent mechanical and tribological properties even after long periods of use.<sup>2</sup>

<sup>2</sup> Data on file at Mathys Ltd Bettlach



# 86% REDUCTION IN WEAR<sup>3</sup>

% wear reduction vitamys vs. conventional PE balanSys BICONDYLAR



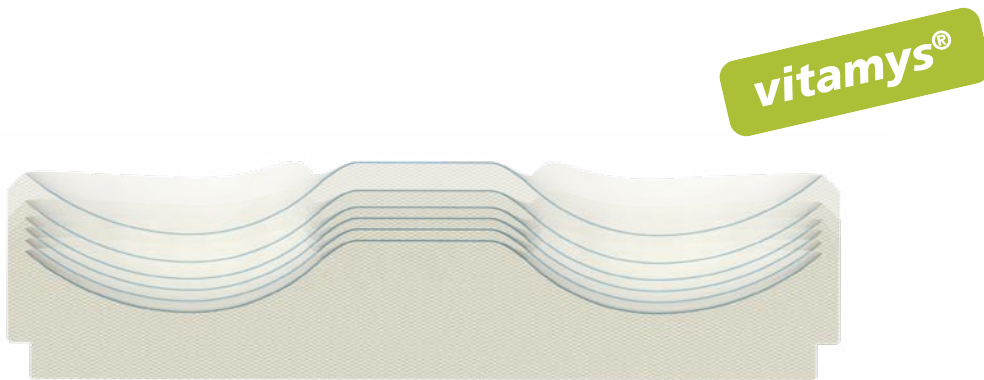
<sup>3</sup> Data on file at Mathys Ltd Bettlach

# Refined height increments

The balanSys BICONDYLAR knee system offers vitamys inlays with refined height increments:

These refined increments allow precise balancing of the flexion and extension gaps in order to re-establish natural ligament tension. The result? Superb stability throughout the entire range of motion.

With refined height increments, the surgeon gains intra-operative flexibility and can fine-tune the stability with just a few actions before the operation is over.



The **proven,**  
**stable & enhanced**  
knee system

**balanSys** BICONDYLAR



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