

# Personalized Solutions

Portfolio Brochure



ZIMMER BIOMET  
Your progress. Our promise.™



# PERSONALIZING

## THE FUTURE OF ORTHOPEDICS.

Zimmer Biomet's Personalized Solutions Team is focused on creating a comprehensive, technology-based portfolio aimed at providing better patient outcomes without sacrificing customer economics.

Within our current range of products and services, we offer:

- Patient Specific Guides (PSI\*, ZPSI (internal), and Signature™\* Personalized Guides)
- iASSIST® Knee System
- Optical Navigation System
- eLIBRA® Dynamic Balancing System
- VERASENSE™ Sensor-Assisted TKA

\* A collaborative partnership with Materialise, N.V.

# PATIENT SPECIFIC GUIDES

## VIRTUAL PLANNING MEETS CLINICAL RESULTS

Zimmer Biomet's Personalized Guide Systems provide interactive, 3D preoperative planning software and intraoperative guides that assist surgeons in the precise positioning of knee implants.

- Patient imaging is used to generate a 3D virtual model for an unobstructed view of critical anatomic landmarks.
- Interactive, 3D virtual surgeon planning enhances visualization of patient anatomy and implant position.
- Virtual planning attributes are embodied in patient specific, 3D printed guides.
- The use of interactive planning and patient specific guides streamline the surgical workflow.
- Technology is a significant driver for patients to undergo total joint replacement surgery.<sup>1</sup>
- Studies have demonstrated better accuracy and clinical outcomes through the use of Patient Specific Guides.<sup>2-6</sup>



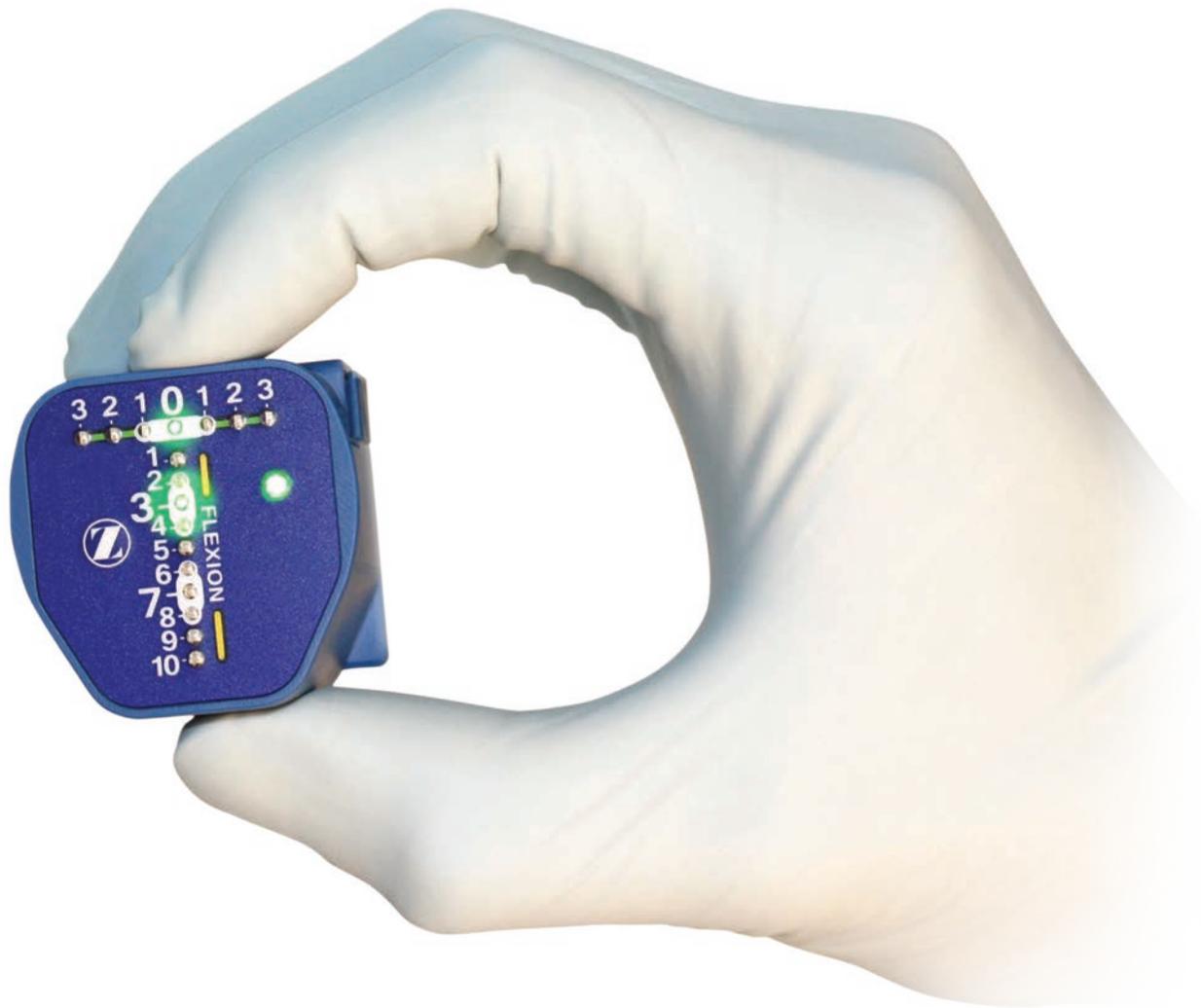
# iASSIST<sup>®</sup>

## SYSTEM

### BETTER PATIENT OUTCOMES IN THE PALM OF YOUR HAND

The iASSIST System provides a compact, electronic guidance system designed to help surgeons align and validate bony resections in real-time within the surgical field.

- Works with traditional instruments for minimal workflow disruption.
- Intraoperative validation of resections in the surgical field without the use of additional imaging equipment.
- Guidance technologies have shown a 25% lower revision rate due to loosening or lysis at 8 years.<sup>7</sup>
- Radiological outcomes have shown that the iASSIST System's validation feature increases precision and accuracy compared to conventional instruments.<sup>8</sup>
- iASSIST provides 88% good or excellent patient satisfaction.<sup>9</sup>



# OPTICAL GUIDANCE

## VISIBLY ACCURATE

The Optical Guidance System provides enhanced tracking visibility for intraoperative positioning and validation of resections and assessment of limb alignment.

- Due to the placement of reflective discs in an angular arrangement on the NavitrackER<sup>®</sup> Reference Marker Device, the range of visibility compared to spheres increases from 127 degrees to 135 degrees.
- Reflective discs offer better visibility compared to spheres that adapt to various intraoperative constraints (size, patient draping, anesthesia equipment, etc.).
- Robust functionality offering can accurately accommodate everything from straightforward to complex cases.
- Full set of customizable functionalities to create an expedited, surgeon-specific workflow.
- Guidance technologies have shown a 25% lower revision rate due to loosening or lysis at 8 years.<sup>7</sup>



ORTHOSOFT

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# eLIBRA

## DYNAMIC KNEE BALANCING SYSTEM<sup>®</sup> (DKBS)

### OBJECTIVELY BALANCED

eLIBRA Dynamic Knee Balancing System electronically measures soft tissue force and provides objective, real-time feedback for personalized femoral component rotation.

- Quantifiable evaluation of flexion gap balance with the patella reduced prior to committing to femoral component rotation.<sup>10</sup>
- Dynamic instruments with objective feedback eliminate the subjectivity of gap balancing with traditional instruments.



# VERASENSE™

## SENSOR-ASSISTED TKA

### SIMPLIFYING SOFT TISSUE BALANCE

VERASENSE™ Sensor-Assisted TKA is a disposable sensor that wirelessly transmits quantitative data from a patient's knee to an intraoperative monitor, enabling a surgeon to customize implant positioning and achieve proper soft tissue balance in real-time.

- A single use disposable sensor replacement of standard TKA poly trial
- Helps establish proper TKA: Soft tissue balance and implant position
- Intelligent instrument: Embedded with proprietary micro-processor
- Sensors and wireless communication technology
- Supports evidence-based outcomes, joint registry objectives and physician quality reporting system (PQRS) initiatives







## References

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