

# The Rest Is In Your Hands.

**Exactech GPS**  
Guided Personalized Surgery



**Knee Applications**



Surgeon focused. Patient driven.™ **Exactech**



# ExactechGPS®

ExactechGPS® is a compact, surgeon-controlled computer-assisted surgical technology that delivers reproducibility in total joint arthroplasty. Merging powerful software and innovative instrumentation, ExactechGPS offers a real-time, patient-specific solution that is designed to improve patients' quality of life.

From primary to revision, the ExactechGPS® Knee Applications provide the versatility to meet your needs for each procedure, seamlessly aligning with your surgical preferences.

## Key Benefits

### Personalized

- Customized workflows based on surgeon preference with real-time data to plan, guide and verify
- Imageless technology allows for acquisition of optimal anatomical landmarks during the surgery
- Streamlined instrumentation options: Real-Time Guide, Ligament Balancing System (LBSIII), Adjustable Cutting Block

### Efficient

- Large touch screen tablet and proprietary camera located within the sterile field for easy access and improved line of sight
- Active tracker technology and instrumentation designed to avoid disruption, downtime or loss of real time information
- ExactechGPS was shown to be time neutral when compared to conventional instrumentation<sup>1</sup>

### Reproducible

- High level of accuracy and precision within 1mm or 1 degree<sup>2</sup>
- Supports precise component sizing and positioning, including rotation
- Real-time feedback of anatomic and mechanical alignment and resection validation

### Benefits of Computer-Assisted Surgery for TKA Procedures:

- CAS has been shown to:
  - Improve short-term outcomes<sup>3</sup>
  - Reduce revisions<sup>4</sup>
  - Reduce blood loss<sup>5</sup>
  - Lower DVT<sup>6</sup>
  - Limit pain post-operatively<sup>7</sup>
  - Shorten length of stay<sup>8</sup>



### References:

1. **Pasquale P.** (2014) Navigated Total Knee Arthroplasty Is No Slower than Conventional Instrumented TKA. Presented at the 2014 ICJR Transatlantic Orthopaedic Congress.
2. **Data on file at Exactech.**
3. **Rebal et al.** Imageless Computer Navigation in Total Knee Arthroplasty Provides Superior Short-Term Functional Outcomes: A Meta-Analysis. *J. Arthroplasty*. 2013 Oct 17.
4. Australian Orthopaedic Association National Joint Replacement Registry. Annual Report 2014.
5. **Conteduca et al.** Blood Loss in Computer-Assisted Mobile Bearing Total Knee Arthroplasty. A Comparison of Computer-Assisted Surgery with a Conventional Technique. *Int Orthop*. 2009 Dec 3.
6. **Siu et al.** Lower Post-operative D-Dimer Level in Navigation-assisted TKA than in Conventional TKA: A Prospective Randomised Control Study. *J Bone Joint Surg*, 2015.
7. **Gohesen et al.** Functional Outcome and Alignment in Computer-Assisted and Conventionally Operated Total Knee Replacement: A Multicentre Parallel-Group Randomised Controlled Trial. *Bone Joint J*. 2014 May 9.
8. **Dutton et al.** Computer-Assisted Minimally Invasive Total Knee Arthroplasty Compared with Standard Total Knee Arthroplasty. A Prospective Randomized Study. *J Bone Joint Surg*, 2008.