

PUT THE POWER OF PRECISION IN YOUR HANDS

The KINCISE™ Surgical Automated System is designed to improve precision and make total hip replacement surgery easier by eliminating the need for manual impactions with traditional mallets.



Positioning



Bone Preparation



Implant Assembly

THIS IS THE PAST

THE KINCISE™ SYSTEM IS THE FUTURE

Today, a surgical mallet is commonly used in total hip arthroplasty (THA) surgery. Because the process is manual, there is variation in force and impactions compared to the control and consistency that are possible with automation.

The KINCISE™ Surgical Automated System is a revolutionary battery-powered device that provides a consistent application of energy and automates the process for implant positioning, bone preparation, and implant assembly, replacing the handheld mallet in THA.

Variation in Energy

- Manual impaction is sensitive to small changes in swing, distance, and speed
- Static friction with mallet use requires breakaway force for impaction

Applies Constant and Consistent Energy

- Consistent application of energy
- Lower peak energy
- Controlled advanced movements with co-linear direction and dynamic friction

Small Changes Can Create a Big Impact

- Variability during manual impaction may result in off-axis strikes

Augments Surgical Skills

- Precise bone preparation
- Predictable implant assembly and alignment
- Impacts with lower average forces
- Lower impaction may reduce the likelihood of intraoperative calcar fracture²

Work-Related Injuries and Surgeon Fatigue

- The average surgeon swings a 3 to 5 lb mallet about 300* swings in a single day, which may lead to surgeon work-related injuries and fatigue. Studies indicate that 66.1% of arthroplasty surgeons have experienced a work-related injury at some point in their career, and 31% of these surgeons required surgery themselves to treat the injury¹

Aids in Reducing Surgeon Fatigue and Work-Related Injuries

- Eliminates mallet use
- Reduces physical strain of manual impacts
- Automates manual impaction, implant placement, and bone preparation

References: 1. Algahtani SM, Alzahrani MM, Tanzer M. Adult reconstructive surgery: A high-risk profession for work-related injuries. *J Arthroplasty*. 2016;31(6):1194-1199. 2. University of Denver study. ADAPTIV number 103551610.

Please refer to the IFU (Instructions for Use) for a complete list of indications, contraindications, precautions and warnings. For further information on DePuy Synthes products, please contact your local DePuy Synthes representative.

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*Numbers based on surgeon feedback.

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KINCISE™
SURGICAL AUTOMATED SYSTEM

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