LEARNING FROM THE PAST

TO CREATE THE FUTURE

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.
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.

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

Small Changes Can Create a Big Impact

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

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 injury.

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.

Applies Constant and Consistent Energy

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

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 fracture

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

*Numbers based on surgeon feedback.
The KINCISE System Design Features

The KINCISE System is compatible with the DePuy Synthes implants and was designed to deliver both forward and reverse impaction forces, sensing the surgeon’s application of force either forward or backward. The KINCISE System is powered by lithium-ion battery, which eliminates the possibility of cord entanglement and the need for an exhaust system.

**Part No.** | **KINCISE™ Surgical Automated System**
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1000-00-101 | KINCISE™ Automated Surgical Impactor
1002-00-102 | KINCISE™ Battery Pack
1003-00-101 | KINCISE™ 4-Port Battery Charger

**Part No.** | **KINCISE™ Adapters**
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1010-01-101 | KINCISE™ Posterior Broach Adapter
1010-01-102 | KINCISE™ Anterior Broach Adapter
1011-01-101 | KINCISE™ PINNACLE® Shell/Liner Impactor
1012-01-101 | KINCISE™ Bullet Tip Stem Inserter
1013-00-101 | KINCISE™ Femoral Head Impactor

**Part No.** | **KINCISE™ Container/Tray/Disposables**
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JG598 | Aesculap® SteriTite® I-Drip Lubricator
ME03 | KINCISE™ Automated Surgical Impactor Container/Tray
ME04 | KINCISE™ Battery Container/Tray
ME05 | KINCISE™ Adapter Container/Tray
ME03 KIT | KINCISE™ Adapter Tray Disposable Kit
ME04 KIT | KINCISE™ Battery Tray Disposable Kit
ME05 KIT | KINCISE™ Surgical Impactor Tray Disposable Kit