



LEARNING
FROM THE PAST



TO CREATE
THE FUTURE

PUT THE POWER OF
PRECISION IN YOUR HANDS

KINCISE™
SURGICAL AUTOMATED SYSTEM

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.

THIS IS THE PAST

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 injury¹

*Numbers based on surgeon feedback.

THE KINCISE™ SYSTEM IS THE FUTURE

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 fracture²

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

THE KINCISE™ SURGICAL AUTOMATED SYSTEM—TRANSFORMING TOTAL HIP ARTHROPLASTY

Constant and Consistent Application of Energy. Augments Surgical Skills. Aids in Reducing Surgeon Fatigue and Work-Related Injuries.

Part No. KINCISE™ Surgical Automated System

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

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

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

References: 1. Alqahtani SM, Alzahrani MM, Tanzer M. Adult reconstructive surgery: A high-risk profession for work-related injuries. *J Arthroplasty*. 2016;31(6):1194-1198. 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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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.



The KINCISE System Adapters



PINNACLE® Hip
Implant Shell/Liner
Impactor



Anterior Broach
Adapter



Posterior Broach
Adapter



Bullet Tip
Stem Inserter



Femoral
Head Impactor

Contact your DePuy Synthes representative or visit depuysynthes.com. Visit njninstitute.com for surgeon education opportunities. For more information visit KINCISEsystem.com.

