

# NAVIO<sup>o</sup> Surgical System

## Powering the JOURNEY Partial Knee System

Available for unicondylar and patellofemoral joint replacement, the NAVIO system delivers the precision of robotics through handheld instrumentation. Intraoperative planning software uses soft-tissue kinematics and 3D surface capture to predict joint laxity, enable precise implant positioning, and customize a solution for each patient without requiring a preoperative CT scan.

## The NAVIO System Advantage

#### Handheld robotic assistance

 Precise execution of bone resection within the defined surgical plan.

### CT-free technology

 Direct anatomic mapping paired with kinematic registration recreates a virtual 3D representation of patient anatomy.

#### Customizable surgical planning

 Intraoperative, patient specific implant localization and soft-tissue balance.

## Surgeon controlled

No reliance on representative to drive case forward.
Surgeon remains in full control.

#### Portable

- Small and compact with a minimal OR footprint.
- Simple transportation between OR rooms and health care facilities

#### Open implant architecture

- Support for the Smith & Nephew JOURNEY<sup>®</sup> UNI and PFJ knee systems.
- Delivers the first OXINIUM Oxidized Zirconium option to robotics-assisted joint replacement.
- Enables the surgeon use their implant of choice.



# JOURNEY® Partial Knee System

The JOURNEY UNI and PFJ knee systems have been engineered to empower patients with a renewed right to an active lifestyle and seek to bridge the gap of improving patient satisfaction and implant longevity through function, motion, and durability. Paired with the NAVIO° Surgical System, JOURNEY Partial Knee procedures can utilize the benefits of intraoperative planning software and robotic assistance to enable precise implant placement and soft-tissue balance.

## The JOURNEY Partial Knee System Advantage

#### **Function**

- Femoral design exhibits a 10° anatomic bend to mimic natural femur anatomy and provide optimal bone coverage.
- Round on flat design allows all 7 femur sizes to match all 6 tibia sizes.
- Consistent JOURNEY UNI contact area for +/-12° of varus/valgus misalignment to help prevent edge loading.
- Anatomic shape of JOURNEY PFJ enables optimal bone coverage to help reduce stress shielding and bone resorption.

#### Motion

- Round on flat JOURNEY UNI design intended to allow patient's native ligaments to drive motion.
- Femoral component features a 15° anatomic bend to allow for more normal patella tracking and to avoid impingement.
- Engineered to allow up to 140° of flexion.
- Deepened and lateralized trochlear groove of the JOURNEY PFJ intended to drive optimal patella tracking.

### Durability

- <0.0035% nickel content.
- Components are made with OXINIUM° alloy, an advanced material shown to be 4,900 times more resistant to abrasion¹, more than twice as hard², and has a coefficient of friction that is up to half that of CoCr³.









JOURNEY UNI Knee Replacement supported with the NAVIO Surgical System