KNEE3
BALANCE IN MOTION
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KNEE

SOFTWARE-GUIDED KNEE SURGERY

➔ Proven clinical benefit
➔ Smart imageless navigation software
➔ Visualizes final outcome prior to bone resections
➔ Automatically follows surgical steps without touching the monitor during surgery
Streamlined and fast registration
Automatic workflow adaptation
Minimal system interaction
KNEE3 MOTION

BALANCE IN MOTION

JOINT STABILITY GRAPH*

→ **Displays** resulting joint gaps through full range of motion based on maximum joint mobility, cutting block position and 3D implant geometries

→ **Visualizes** stability situation prior to bone resections being continuously updated after surgical interactions

→ **Characterizes** the knee disease state and facilitates appropriate decisions for the right treatment

*Patented technology
Joint Stability Graph builds up gradually during surgery reflecting final joint stability.

Calculation based on maximum joint mobility, real-time cutting block position and 3D geometry of selected implants.
5.5° post

0.5° var

3.0 mm

8.5 mm

11.5 mm

12.5 mm

5.5 mm

11.5 mm

FIXED-FLEXION CONTRACTURE

Helps to identify malalignment, instabilities, contractures, and compartment tightness at one glance
MID-FLEXION INSTABILITY

- KNEE3 reveals crucial and previously undetected information about joint stability
- Detects even mid-flexion instabilities and facilitates appropriate decisions for the right treatment
KNEE3 Universal provides implant-independent navigation supporting any surgical philosophy

- Precise cut orientation and control of long leg alignment

- Femoral rotation references support flexion gap balancing using conventional instrumentation
KNEE³ EXPRESS
PINLESS ALIGNMENT VERIFICATION

- Pinless verification of cutting block position and resection outcome
- Pinless live navigation of femur with Adjustable Cutting Block
- Compatible with existing conventional instrumentation
- Minimal impact on surgical procedure and time
- Allows for software guidance during revision surgeries
KNEE3 PARTIAL
UNICOMPARTMENTAL KNEE REPLACEMENT

- KNEE3 partial provides all critical information to support unicompartmental knee surgery
- Streamlined registration adopted to incision size and clinical workflows of partial knee replacement procedures
- Focused on tibia cut and long leg alignment
- Optional navigation of distal femur cut
- Provides basic stability assessment
CLEARLENS INSTRUMENTS

STREAMLINED TRACKING

- Continuous marker visibility, faster setup, and simplified tray management
- Disposable tracking arrays with preinstalled markers are ready-to-use without screwing on single marker spheres
- Delivered as complete sterile packaged set for one knee replacement procedure
- Simply disposed off after one-time usage
SIMPLY VISIBLE.

- Continuous marker visibility ensures an undisturbed tracking performance – no more time loss due to visibility disruptions
- Highly soil-resistant, occlusion-tolerant and wipeable
VISIBLY SIMPLE.

- Quick and easy assembling of components
- Saves up to 63% of preparation time in the O.R. compared to conventional tracking devices with screw-on marker spheres*
- Simply dispose of tracking arrays after use

*Time for assembly and dismantling of instruments is based on hand movements.
PLANNING AND DOCUMENTATION
DIGITAL TOOLS FOR MULTIPLE INDICATIONS

TRAUMACAD

➤ TraumaCad provides pre-operative planning and allows simulating options prior to surgery

➤ Digital planning makes accurate preparation of the surgery fast and easy

➤ TraumaCad supports and optimizes logistics planning

PATIENT REPORTS

➤ Patient friendly case reports help educate and engage patients about their software-guided surgery

➤ KNEE3 automatically generates screenshots and case data that can be easily imported into presentations and spreadsheets

➤ Synchronize to Quentry for cloud access to all screenshots and metadata from navigated cases
FROM PLANNING TO NAVIGATION

COMPLETE ORTHOPEDIC PORTFOLIO

- Pre-operative planning with TraumaCad, upload to Quentry
- Secure access for implant partners to templating data and surgery schedule
- Image review and planning on Kick navigation system in the O.R.
- Knee replacement surgery with KNEE3
- Storage of patient report and case data to PACS or Quentry
- Assessment of results with TraumaCad on post-operative X-Rays
KICK NAVIGATION PLATFORM
STREAMLINED TRACKING

- Sleek design
- High performance
- Intuitive, patient-centric Brainlab control concept
- Compatible with all current Brainlab navigation applications
- Full HD touch display (drapeable)
- Optical tracking with laser guidance
- Light-weight, compact and portable
- Expandable with Brainlab Buzz™