

Collaborative Engineering

Functionality – TKP System

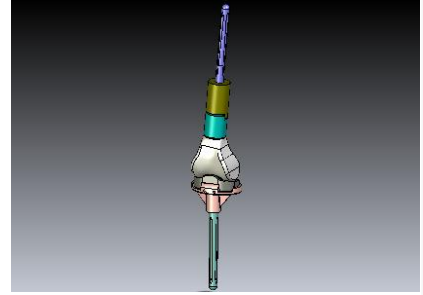


- Visualization
- Motion Animation
- Cross Section
- Transparency
- Collision Detection

OrthoCAD Lab, I.I.T. Bombay

Functionality Study – Visualization

- Visualization



Functionality Study – Flexion

- Visualization
- Flexion



Functionality Study – Rotation

- Visualization
- Flexion
- Rotation



Functionality Study – Motion Limits

- Visualization
- Flexion
- Rotation
- Limits – Flexion



0 - 120°

Functionality Study – Motion Limits

- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation



0 ± 5°

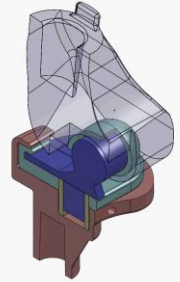
Functionality Study – Transparency

- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation
- Transparency



Functionality Study – Cross Section

- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation
- Transparency
- Cross – Section



Functionality Study – Combined

- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation
- Transparency
- Cross – Section



Functionality Study – Exploded Views

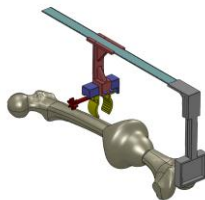
- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation
- Transparency
- Cross – Section
- Assembly



Functionality Study – Process

- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation
- Transparency
- Cross – Section
- Assembly
- Instrumentation

Femoral Jig



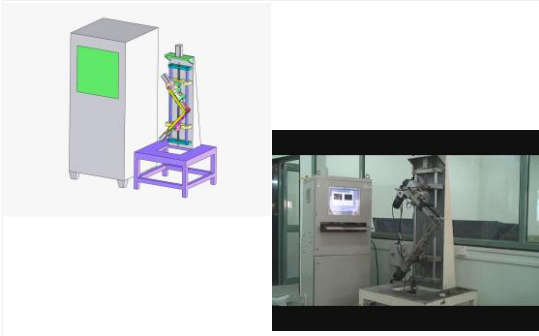
Functionality Study – Process

- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation
- Transparency
- Cross – Section
- Assembly
- Instrumentation

Tibial Jig



Functionality Study – Machine Simulation



Functionality Study – Rapid Prototypes

- Visualization
- Flexion
- Rotation
- Limits – Flexion
- Limits – Rotation
- Transparency
- Cross – Section
- Assembly
- Instrumentation
- Machine Simulation
- Prototyping – Form & Function

