

HIGH-FIDELITY KNEE PHANTOM



Product Guidelines

- Designed for high-fidelity orthopedic training, this realistic knee phantom combines accurate bone anatomy with flexible ligaments and a realistic soft-tissue envelope.

DESCRIPTION

The model features a hybrid construction: a rigid 3D-printed skeletal structure integrated with biologically accurate menisci and silicone soft tissues. It is specifically engineered for training in arthroscopic procedures, intra-articular injections, and orthopedic manipulation.



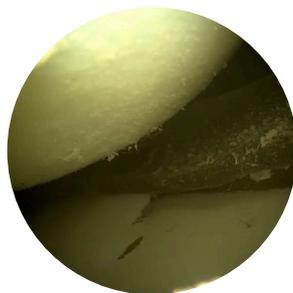
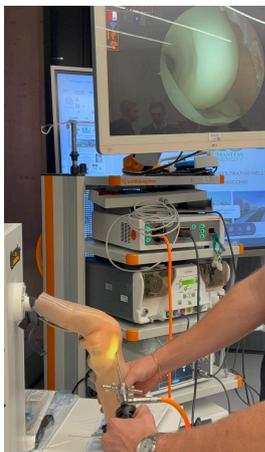
KEY FEATURES & PATHOLOGIES

- **Meniscal Fidelity:** The meniscus component mimics the mechanical properties of biological cartilage, supporting realistic cutting and suturing maneuvers.
- **Accessible Soft Tissue:** Features a removable soft tissue cover equipped with a zipper closure, allowing for easy internal access and visualization of the articular structures without damaging the envelope.
- **Stable Mounting:** The unit is securely attached to a dedicated stand, ensuring steady demonstration and realistic limb stability during instrument handling.
- **Hybrid Anatomy:** Combines rigid 3D-printed bones with flexible silicone ligaments to simulate authentic joint mechanics and obstruction.

ANATOMICAL COMPOSITION



- Removable Silicone Skin with Zipper
- Muscular Tissue Envelope
- Rigid 3D-Printed Femur & Tibia
- Meniscus & Flexible Ligaments



WARNINGS AND SAFETY

Intended Use: This product is intended exclusively for educational and medical simulation purposes