Instructions for use

0036 ROB Pro Knee Holder System

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Introduction

One System for Partial and Total Knee Replacement applications and for robotic or navigated training procedures.

Intended use

- The **ROB Pro Knee Holder System** is designed for Partial and Total Knee Replacement applications and for robotic or navigated training procedures. The holder enables precise **ligament balancing** for realistic Knee Arthroplasty simulation. This system holds various **SYNBONE®** knee models with notches in a surgical position and can be used for surgical education. It is applicable for left sided partial knee models.
- The **ROB Pro Knee Holder System** is not intended for use in any operation room.
- SYNBONE® guarantees the best results with the **ROB Pro Knee Holder System** only if **SYNBONE® partial knee models with notches** are used. The notches and the notch holder prevent the bones from slipping or moving while surgeons practice various aspects of the total knee replacement.

Features & benefits

- For robotic or navigated training procedures
- For Partial and Total Knee Arthroplasty applications
- Ligament balancing
- Designed for left sided model
- No slipping or moving of the bones
- Firm hold during the exercise
- Tibial external alignment thanks to soft tissue foot
- Maintenance free / easy to clean

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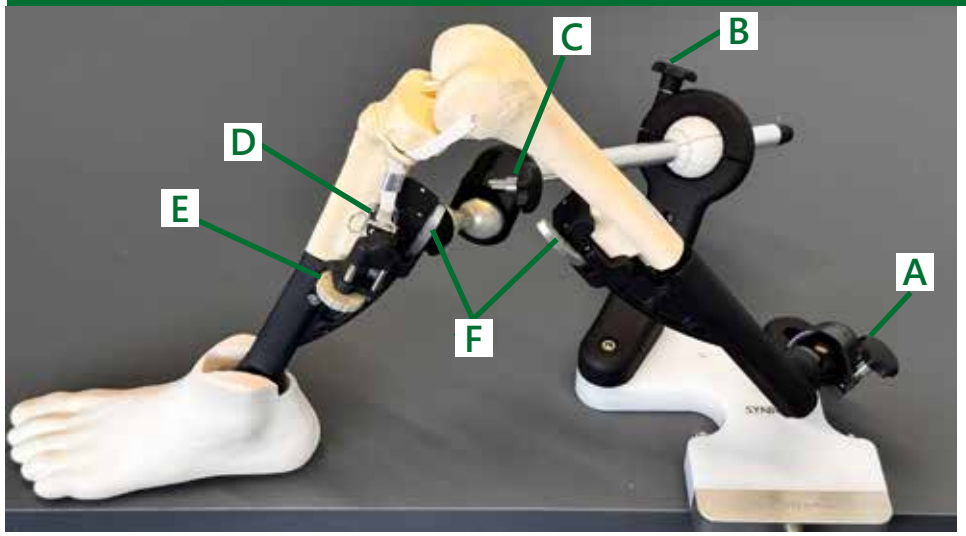
Overview main components

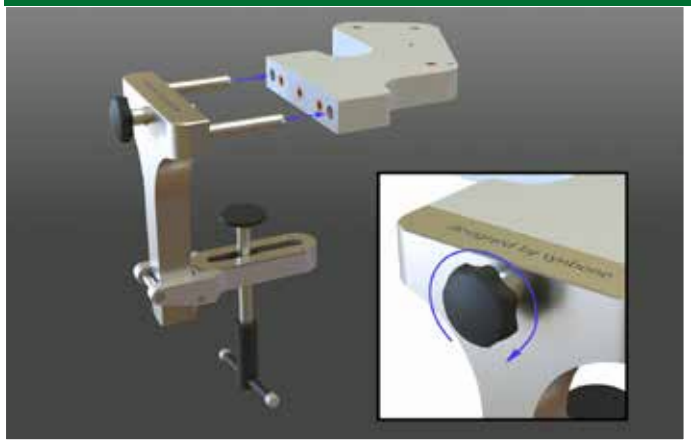
1. Base Plate
2. Universal Table Clamp
3. Upper Leg Component (Femoral Shaft Mount with Hip Joint Base)
4. Lower Leg Component (Tibial Shaft Mount including with Ligament Balancing Adapter and Foot)
5. Knee Support Base
6. Knee Support Pin and Coupling
7. Allen Key Size 6

Main Control Elements

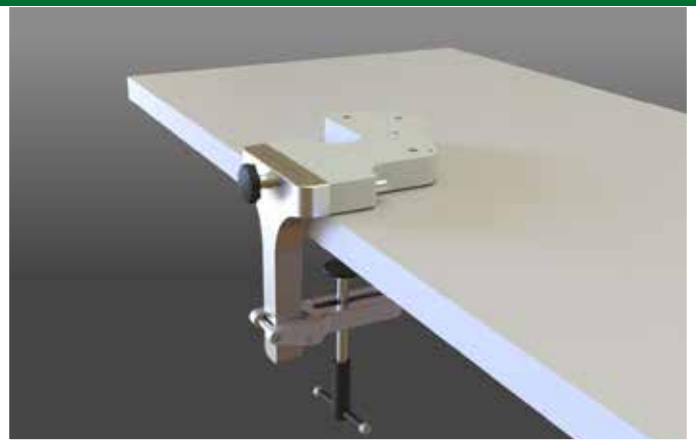


A. Star Knob / Hip Joint Fixation
B. Star Knob / Knee Support
C. Star Knob / Knee Support Pin
D. Ligament Fastening (Snap Shackle)
E. Ligament Tensioner Adjustment Wheel
F. Locking Lever / Bone Notch

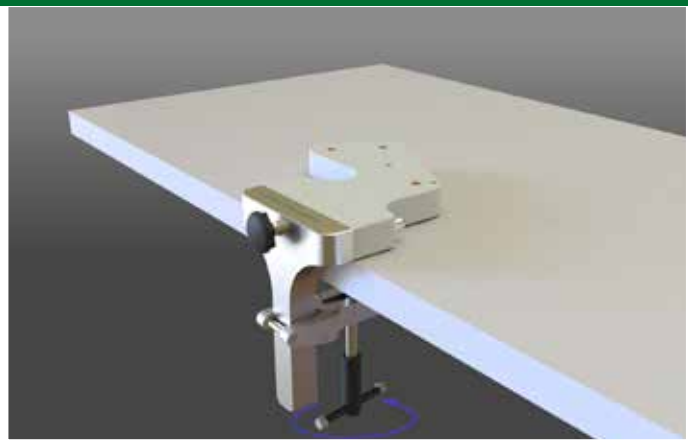
Assembling - Universal Table Clamp



Attach the Table Clamp to the Base Plate and tighten the star knob



Place the Base Plate on the table...



...and fix it to the table using the Table Clamp's spindle

Assembling - Hip Joint Base & Knee Support Base

Attach the Hip Joint Base to the Base Plate...

... and tighten the screw with the Allen Key

Attach the Knee Support Base to the Base Plate...

Assembling - Hip Joint Base & Knee Support Base

... and tighten the screw with the Allen Key

Insert the Knee Support's rod into the ball of the Knee Support Base...

...and tighten the star knob

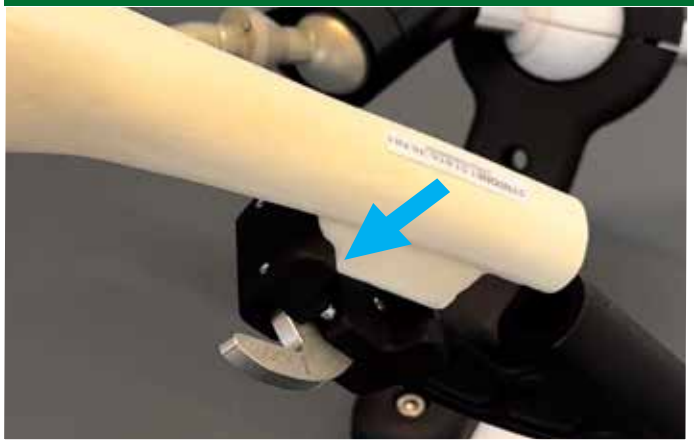
Attaching the Knee Model (tibia)

Begin by attaching the knee model's tibia to the Tibial Shaft Mount

Place the notch's proximal groove into the Notch Holder...

... then push the notch into the Notch Holder and engage the locking lever

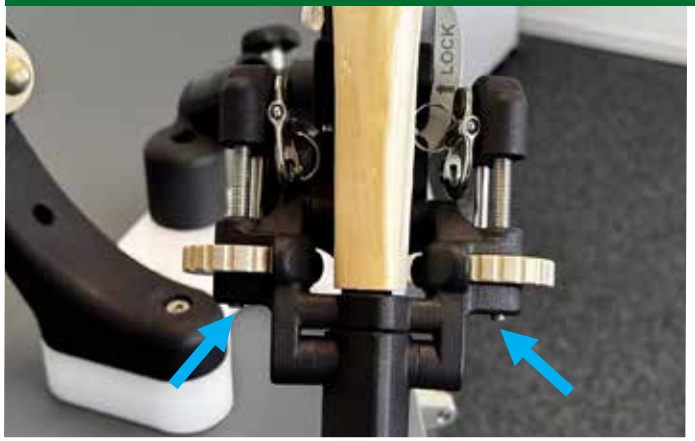
Attaching the Knee Model (femur)



Place the femur notch's distal groove into the Notch Holder...

... then push the notch into the Notch Holder and engage the locking lever

Securing the Knee Ligaments



Ensure that the end of the tensioner spindle is flush with the housing before securing the ligaments. If necessary, turn the wheels clockwise to achieve this.

Open the snap shackle by pulling the ring and pass the shackle arm through the ligament loop...

... and close the snap shackle

Securing the Knee Ligaments

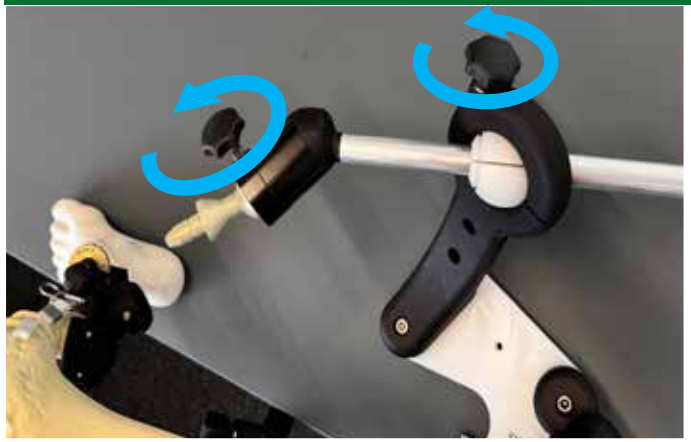
Repeat the steps for the other side

Adjusting Ligament Tension

Ensure the snap shackle is properly closed...

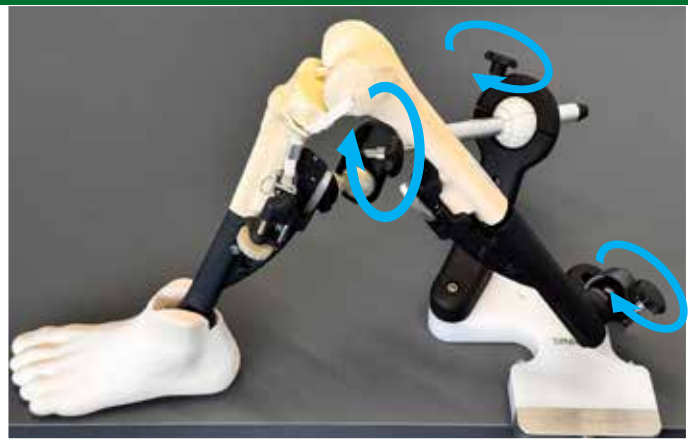
...then apply the desired tension by turning the wheels counterc-lockwise. (+) to tighten, (–) to loosen

Using Knee Support Pin to stabilise the leg



Move the knee into the desired position, ensure that both star knobs are loosened...

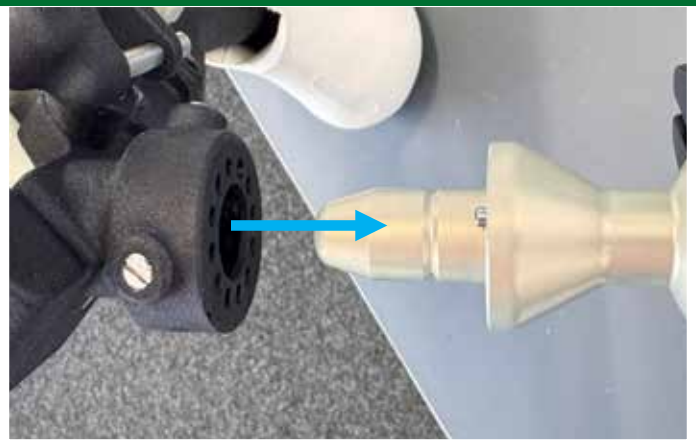
and insert the Support Pin into the designated opening on the tibial shaft mount until a slight click is felt.



Finally, secure all star knobs by tightening them.

Checking range of motion (ROM) & navigation markers registration

Loosen both star knobs



Detach the Support Pin

Loosen the hip joint's star knob, then perform leg movements to confirm the range of motion

Cleaning and Storage

Clean the ROB Pro Knee Holder System with a damp cloth after each use. No lubrication is necessary.
To guarantee a long life of the ROB Pro Knee Holder System we recommend storing all components in the ROB Pro Knee Holder Case when not in use.

Optional Accessories

0036.50 Leg Cover Set (hard plastic)

0037.10 Rail Adapter (enables mounting on an OR Table)

ROB Pro Knee Holder System Case

Available Set Configurations

0036	ROB Pro Knee Holder System with Table Clamp, ligament balancing and transportation case
0036.01	ROB Pro Knee Holder System with Table Clamp, ligament balancing without transportation case
0036.05	ROB Pro Knee Holder System with Rail Clamp, ligament balancing without transportation case
0036.06	ROB Pro Knee Holder System with Rail Clamp, ligament balancing and transportation case
0036.08	UPGRADE from 0037 ROB Knee Holder System to ROB Pro Knee Holder System with Ligament Balancing

Contact Us

SYNBONE AG
Tardisstrasse 199
7205 Zizers
Switzerland
Phone +41 81 300 02 80

SYNBONE SDN BHD
No. 40 - 41, Jalan i-Park 1/3
81000 Bandar Indahpura Kulai, Johor
Malaysia
Phone +607 660 8220

sales@synbone.com · www.synbone.com