

# Instructions for Use

## 0031.BK Series Hip Holder System

**SYNBONE®**  
better education outcome



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## 0031.BK Series Hip Holder System

### Product Overview



Hip Holder System components



Hip Holder System Case



Case inlay

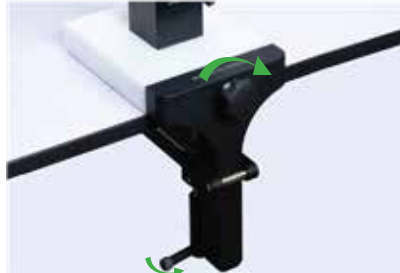
### Hip Holder System components:

1. 0033.BK Universal Table Clamp. Black anodised.
2. 0031.05.BK Hip Holder Base Plate with Base Coupling. Black anodised.
3. 0031.06.BK Hip Holder Column. Black anodised.
4. 0031.10.BK Hemi-Pelvis Clamp Left. Black anodised.
5. 0031.20.BK Femur Sleeve Clamp. Black anodised.
6. 0031.40/41 Femur Sleeve A large and B medium
7. 0030.90 Hip Holder System Case
8. 0031.20.50 Sleeve Clamp Angular Locking Insert

### Basic Setup



Attach the Universal Table Clamp (1) to the Base Plate (2).



Tighten the star knob, place the assembly on the table and secure it by tightening the tummy-nut spindle.



Attach the Base Adapter (3) to the Base Plate (2)...



...and secure it by tightening the star knob.



The Base Adapter's circular hole arrangement allows mounting positions in 30° steps. Page 3 for more details.

### Setup for THA Procedure on Acetabulum



Insert the Hemi-Pelvis Clamp (4) into Base Adapter (3)...



...and secure it by tightening the star knob.



Open the Hemi-Pelvis Clamp by loosening the star knob, insert the model...

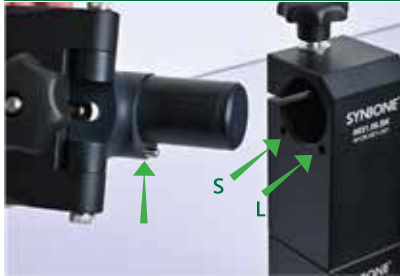


...close the Hemi-Pelvis Clamp, and secure it by tightening the star knob.

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### Positioning of the Hemi-Pelvis Model



While inserting the Hemi-Pelvis Clamp into the Base Adapter choose model position: **S** = Supine or **L** = Lateral



Lateral position



Supine position

### Setup for THA Procedure on Proximal Femur



Insert Femur Sleeve Clamp (5) into the Base Adapter (3)...



... and tighten the star knob



Insert the notch of the femur model into the bottom half of the matching Femur Sleeve (6) ..



... and add the sleeve's upper half.



Place the Femur Sleeve (6) into the Femur Sleeve Clamp (5) and tighten the star knob.

### Setup for THA Procedure on Proximal Femur (Optional Feature - Angular Locking Insert)



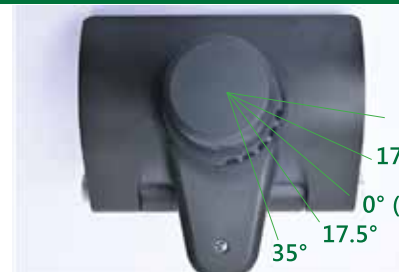
0031.20.50 Angular Locking Insert (8) into the Base Adapter (3)...



Insert Femur Sleeve Clamp (5) into the Base Adapter (3)...



...set the desired angle and tighten the star knob.



The grooves on the clamp, in combination with the angular locking insert, allow fixed mounting at an angle, as shown.

35°  
17.5°  
0° (horizontal)  
17.5°  
35°

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### Example for Use



Acetabular reaming in lateral position



Acetabular reaming in supine position

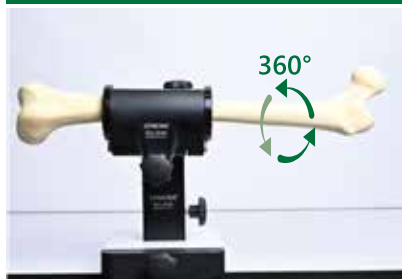


Femoral broaching



Stem Insertion

### Mounting Options



The Femur Sleeve Clamp in combination with Femur Sleeves allows a stepless rotation of 360° along the femur axis.



Flexible angulation of the femur.



The circular hole arrangement on the Base Adapter allows a rotation in 30° steps.

### Included Femur Sleeves



0031.40 Femur Sleeve A for large SYNBONE® Femur and large Knee models \*



0031.41 Femur Sleeve B for medium SYNBONE® Femur and medium Knee models \*\*

**\* 0031.40 Femur Sleeve A fits:**  
LS/LSH2335.NH Femur large left series  
LS/LSH1800.NH to LS/LSH1849.NH  
Knee left series

**\*\* 0031.41 Femur Sleeve B fits:**  
LS/LSH2345.NH Femur left medium series  
LS/LSH2000.NH to LS/LSH 2049.NH  
Knee left series

0031.42 Femur Sleeve C  
0031.43 Femur Sleeve D  
0031.44 Femur Sleeve E  
0031.45 Femur Sleeve F

(see product pages for compatibility)

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## 0031.BK Series Hip Holder System



### Intended Use

The **Hip Holder System** is specially designed for Total Hip Arthroplasty (THA) workshops and trainings. This system holds various **SYNBONE®** hemi-pelvis and single Femur bone models with notches in a surgically accurate position and can be used for surgical education.

The **Hip Holder System** must be securely attached to the table. If this is not possible, a table where this is possible must be used.

The **Hip Holder System** is not intended to be used in the operation room.

**SYNBONE®** guarantees best results with the **Hip Holder System** only by using **SYNBONE® hemi-pelvis Models** and **SYNBONE® single bone femur models with notch**.

The sleeves prevent the bones from slipping or moving while surgeons practice various hip replacement procedures.

Find out more about **SYNBONE®** 's complete product portfolio for THA trainings on [www.synbone.com](http://www.synbone.com).

### Cleaning and Storage

Clean the **Hip Holder System** with a damp cloth after each use. No lubrication is necessary.

To guarantee a long life of the **Hip Holder System** we recommend storing all components in the **Hip Holder Case** and store it in a **lying position**.

### Optional Accessories

0031.42 Femur Sleeve C

0031.43 Femur Sleeve D

0031.44 Femur Sleeve E

0031.45 Femur Sleeve F

(see product pages for compatibility)

### Available Set Configurations

0031.BK Hip Holder System incl. transportation case. Black anodised.

0031.02.BK Hip Holder System for Skills Lab w/o 0033.BK Universal table clamp and w/o transportation case

0031.03.BK Hip Holder System Femur Impact w/o pelvis clamp. Incl transportation case. Black anodised.

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