



*for Blount's deformity
correction*

T E X A S
SCOTTISH RITE HOSPITAL
FOR CHILDREN

UT Southwestern
Medical Center

TH-2210-PL-E0 A 06/22

Two ways to work with Hexapod



Crazy way



Lazy way

Two ways to work with Hexapod

Lazy way

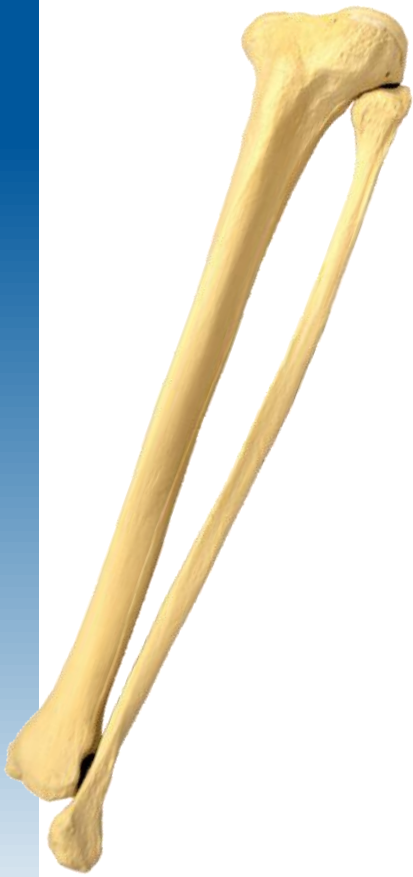


Preoperative planning & pre-building the frame

Multi-planar deformity correction



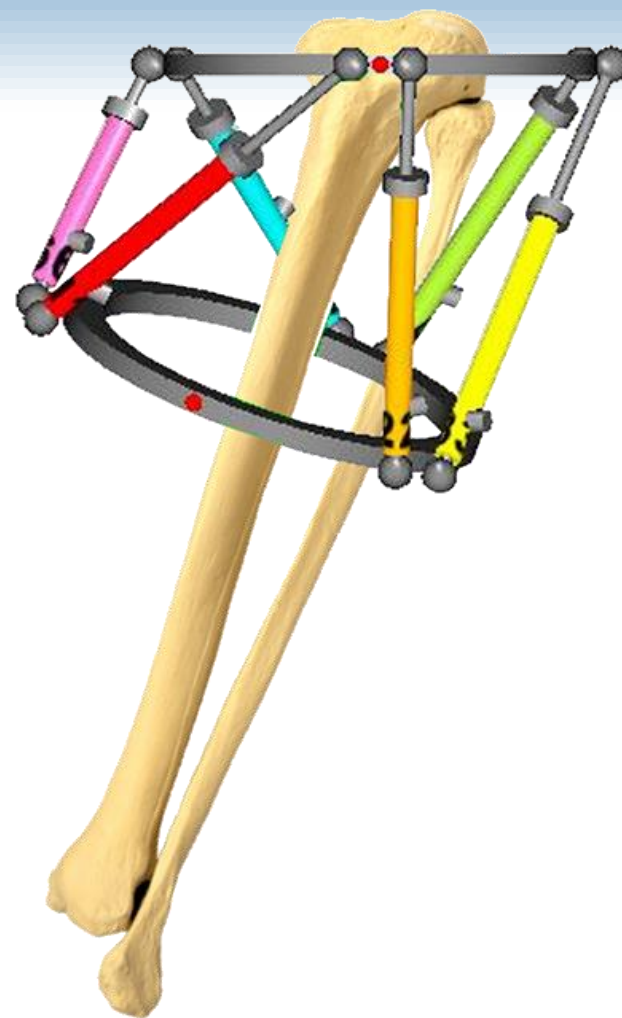
Multi-planar deformity correction



Bone model



Sawbone #1144-5



PREOPERATIVE PLANNING

www.tlhex.com



PRODUCT INFORMATION

TRAINING

FAQ

CONTACT US

The **future** of the hexapod system built on solid circular fixation **experience**

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MEMBERS AREA

LOGIN



www.tlhex.com



PRODUCT INFORMATION

TRAINING

CHOOSE YOUR COUNTRY

NORTH AMERICA

LATIN AMERICA

Canada
United States

Brazil
Chile
Colombia



Login



Username *

Password *

Sign in

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[Request Account](#)

Germany
Singapore
Greece
Ireland
Israel
Italy
Netherlands
South Africa
Slovenia
Spain
Sweden
Switzerland
United Arab Emirates
United Kingdom

List of Patients

Search ▶

Add New Patient ?



Patient ID* ?

Patient Blount

Patient Initials*

PB

Gender*

Male

Female



myHEXplan™ Eligible ?

Warning

You are not allowed to enter or provide any information that allows, directly or indirectly, the identification of your patient (e.g. name, birth date, address, email-address, phone number etc.). Please use only an internal confidential code to identify your patient record when using this Software.

?

Prescription Preferences ▶

Save Patient

Save & Create Case

Cancel



New case

Case Data Deformity Parameters Mounting Parameters Schedule Report

Case Type * ? **Deformity** Fracture Trial

Patient ID * Patient Blount

Frame ID * ? **A** B C D E F G H I

Case ID * Blount

Case Description Workshop

Planning Created * 27/03/2019

Side * Left Right

Bone Type * Long Bone Femur **Tibia** Ankle Forefoot Hindfoot

New Notes

Warning

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Notes History ▶

for you to find later...



New case


Case Data

Deformity Parameters

Mounting Parameters

Schedule

Report

Case Type * 


Deformity

Fracture

Trial

Patient ID *

Patient Blount

Frame ID * 

A

B

C

D

E

F

G

H

I

Case ID *

Blount

Case Description

Workshop

Planning Created *

27/03/2019



Side *



Left



Right

Bone Type *

Long Bone


Femur

Tibia

Ankle

Forefoot

Hindfoot

 Warning

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Notes History ▶

Case Data


← for the computer !




New Notes

New case

Case Data Deformity Parameters Mounting Parameters Schedule Report


Case Type *  Deformity Fracture Trial

Patient ID *

Frame ID *  A B C D E F G H I

Case ID *


Case Description

Planning Created * 

Side * Left Right


Bone Type * Long Bone Femur Tibia Ankle Forefoot Hindfoot

New Notes

 **Warning**

You are not allowed to enter or provide any information that allows, directly or indirectly, the identification of your patient (e.g. name, birth date, address, email-address, phone number etc.). Please use only an internal confidential code to identify your patient record when using this Software.


Notes History ▶




for the company...

New case

Case Data Deformity Parameters Mounting Parameters Schedule Report


Case Type *  → **Deformity** Fracture Trial

Patient ID * Patient Blount

Frame ID *  **A** B C D E F G H I

Case ID * Blount

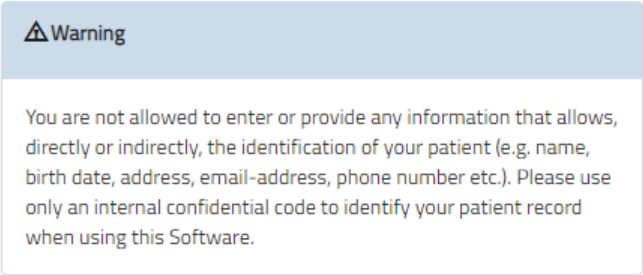
Case Description Workshop


Planning Created * 27/03/2019 

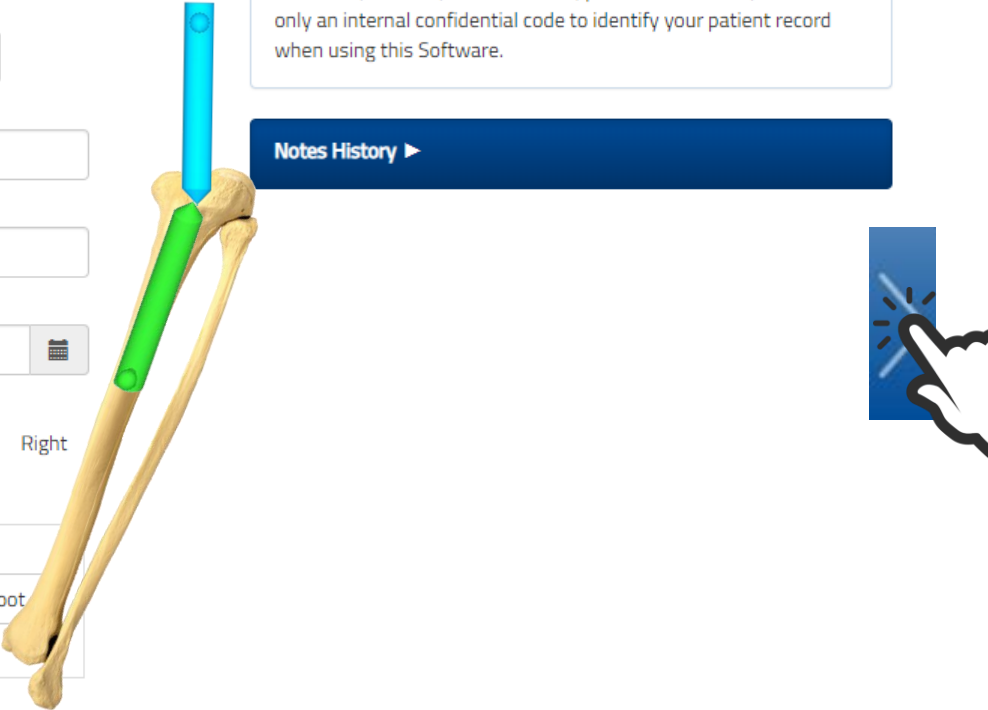
Side * Left Right

Bone Type * Long Bone Femur **Tibia** Ankle Forefoot Hindfoot

New Notes


Warning
You are not allowed to enter or provide any information that allows, directly or indirectly, the identification of your patient (e.g. name, birth date, address, email-address, phone number etc.). Please use only an internal confidential code to identify your patient record when using this Software.


Notes History ▶



Deformity description

Case Data

Deformity Parameters

Mounting Parameters

Schedule

Report

- How does your deformity look like
 - *what do you have*
- What do you want at the end of correction
 - *what do you want*



Reference segment...

Case Data

Deformity Parameters

Mounting Parameters

Schedule

Report

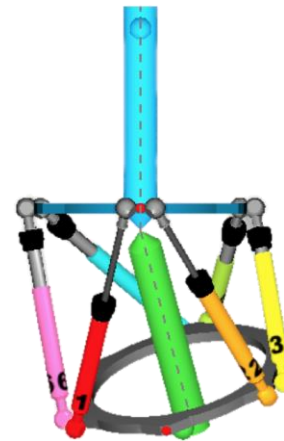
Reference Segment * ?



Distal



- ...Is used to describe deformity in reference to
- ...Is used to describe frame placement in reference to
- ...Should be perpendicular to the X-ray beam



HEX-ray Software

Case Data

Deformity Parameters

Mounting Parameters

Schedule

Report

Reference Segment * ?

Proximal

Distal



HEX-ray

AP View ?

Angular Deformity (deg)

0



Valgus Varus

Translation (mm)

0



Medial Lateral

Lateral View ?

Angular Deformity (deg)

0



Procurvatum Recurvatum

Translation (mm)

0



Anterior Posterior

Axial View ?

Rotation (deg)

0



External Internal

Translation (mm)

0



Short Long

Upload preoperative x-rays

AP Lateral Multiple

HEX-ray

DO NOT UPLOAD files that contain any information that allows, directly or indirectly, the identification of your patient (e.g. name, birth date, address, email-address, phone number etc.).

Please anonymize your x-ray image before uploading when using this Software.

Accept Decline

Copy and Paste Please upload AP Image. Drag and Drop

Before using HEX-ray, ensure that the Reference Segment is perpendicular to the x-ray view in both AP/Dorsal and Lateral plane

Before using HEX-ray, ensure that the AP/Dorsal and Lateral x-ray images were taken 90° to each other

Upload preoperative x-rays

AP Lateral Multiple

HEX-ray

Do you want to upload Preoperative or Postoperative x-ray images?

Preoperative Postoperative

Copy and Paste

Select from file

Load

Drag and Drop

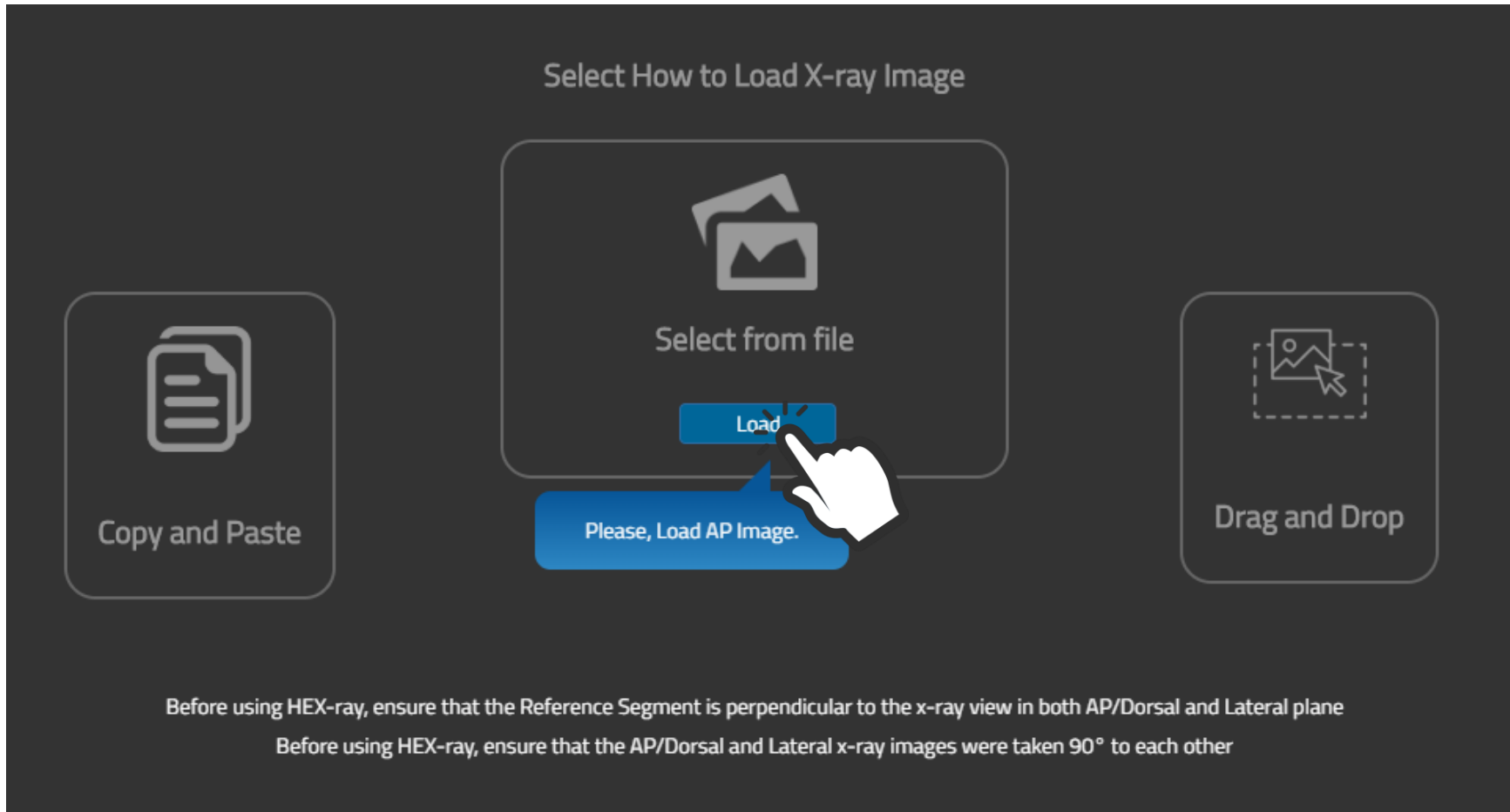
Please, Load AP Image.

Before using HEX-ray, ensure that the Reference Segment is perpendicular to the x-ray view in both AP/Dorsal and Lateral plane

Before using HEX-ray, ensure that the AP/Dorsal and Lateral x-ray images were taken 90° to each other

Upload AP x-ray image

Select How to Load X-ray Image



Copy and Paste

Select from file

Load

Drag and Drop

Please, Load AP Image.

Before using HEX-ray, ensure that the Reference Segment is perpendicular to the x-ray view in both AP/Dorsal and Lateral plane
Before using HEX-ray, ensure that the AP/Dorsal and Lateral x-ray images were taken 90° to each other

Confirm Image Orientation

The screenshot shows a software interface with a dark background. At the top, there is a navigation bar with four steps: 1. Image Tools (highlighted in blue), 2. Deformity Analysis, 3. Correction, and 4. Mounting. Below the navigation bar, there are three tabs: AP (selected), Lateral, and Medial. The main area is divided into two panels. The left panel contains a blue header 'Image Orientation' and the following text: 'Make sure the image has the following orientation: Proximal segment above, Distal segment below.' Below this is the question 'Is the image orientation correct?' and two buttons: 'Yes' (with a checkmark icon) and 'No'. A white hand cursor is pointing at the 'Yes' button. The right panel shows a 3D model of a long bone, oriented vertically. Above the bone is a progress indicator with five steps: 'AP Load&Orientation' (checked with a blue circle), 'AP Calibration:' (empty circle), 'LT Load&Orientation' (empty circle), 'LT Calibration:' (empty circle), and 'Ref Points Placing' (empty circle). The word 'MEDIAL' is written in orange on the left side of the bone, and 'LATERAL' is written in orange on the right side. In the bottom right corner of the right panel, there is a zoom control with a square icon, a plus sign, and a minus sign.

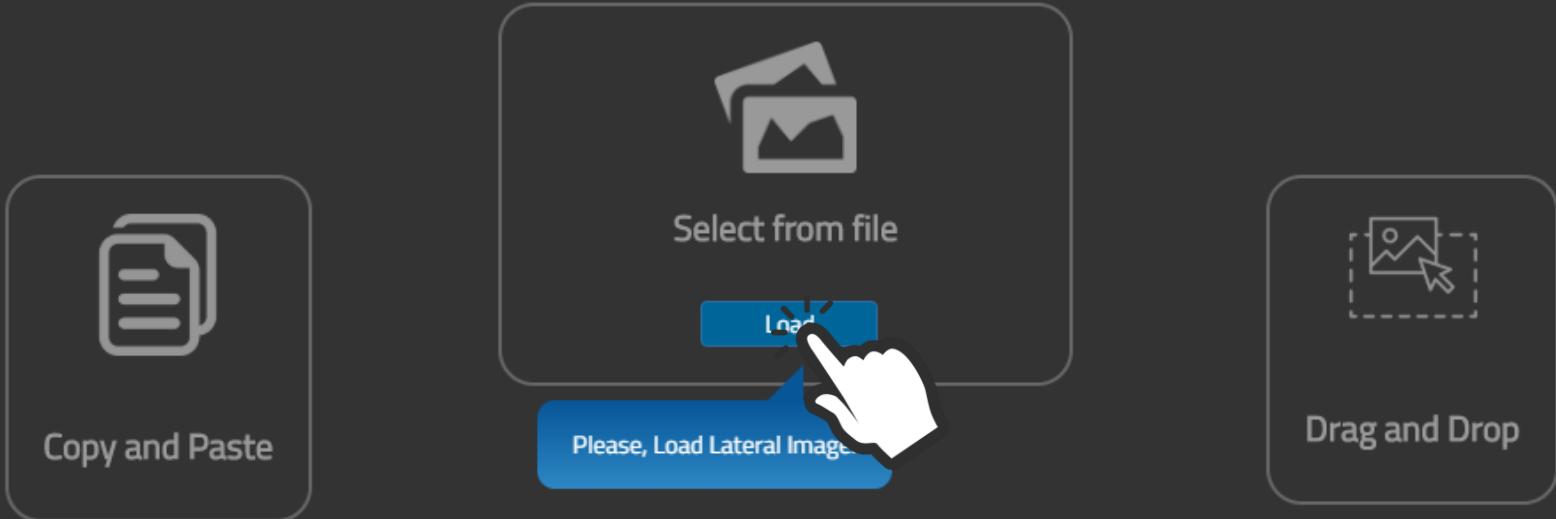
Calibrate images...

The image shows a software interface for image calibration. On the left is a control panel titled "Line calibration". It includes a "Select calibration tool:" section with "Line" and "Circle" buttons. Below that is an "Insert Marker Size" input field containing the value "27" and the unit "mm". A red dashed box highlights this input field. Below the input field is a text instruction: "Using the mouse drag the line/circle calibration tool to the marker on the image. Overlay the tool exactly on the marker. Then enter its actual size." This is followed by the question "Do you want to confirm?" and two buttons: "Yes" (with a hand cursor icon) and "No".

On the right is a 3D model of a bone, likely a humerus, in an Anteroposterior (AP) view. The word "MEDIAL" is written in orange text on the left side of the bone. A blue line calibration tool is overlaid on a marker on the bone. A hand cursor icon is pointing at the tool. Above the bone model is a progress bar with four steps: "AP Load&Orientation" (checked), "AP Calibration:" (unchecked), "LT Load&Orientation" (unchecked), and "LT Calibration:" (unchecked). The "AP" view is selected in the top navigation bar.

Repeat for Lateral X-ray image

Select How to Load X-ray Image



Copy and Paste

Select from file

Load

Please, Load Lateral Image

Drag and Drop

Before using HEX-ray, ensure that the Reference Segment is perpendicular to the x-ray view in both AP/Dorsal and Lateral plane

Before using HEX-ray, ensure that the AP/Dorsal and Lateral x-ray images were taken 90° to each other

Calibrate images...

The image displays a software interface for image calibration, split into two main sections.

Left Section: Calibration Dialog

- Title:** Line calibration
- Select calibration tool:** Line (selected), Circle
- Insert Marker Size:** 33 mm (highlighted with a red dashed box)
- Instructions:** Using the mouse drag the line/circle calibration tool to the marker on the image. Overlay the tool exactly on the marker. Then enter its actual size.
- Confirmation:** Do you want to confirm?
- Buttons:** Yes (highlighted with a hand cursor), No

Right Section: 3D Bone Model

- Orientation:** Lateral (selected), AP, Multiple
- Calibration Progress:** AP Load&Orientation (checked), AP Calibration: 0.97 (checked), LT Load&Orientation (checked), LT Calibration: (checked)
- Model:** A 3D rendering of a bone with a blue line calibration tool overlaid on a marker. A hand cursor is pointing at the marker.
- Label:** POSTERIOR

Reference Images

The screenshot displays a software interface for processing medical images. On the left, a sidebar contains the following sections:

- Lateral View**: Shows the loaded image as "Blounts-LAT .jpg".
- Image Editing Tools**: Includes icons for undo, redo, crop, and zoom, along with a "Brightness/Contrast" slider.
- Actions to NEXT steps**: A message states "Calibration tools unavailable on multiple view".
- Reference Points**: A button with a plus sign and a lock icon is highlighted by a hand cursor. A callout box says "Click to place your reference points." Below it, the text "Lock to go next." is visible.
- Help**: A section with the text "In order to proceed to Deformity Analysis both x-ray images should be uploaded and calibrated in each view."

The main workspace is divided into two panels:

- Left Panel (AP View)**: Shows an Anteroposterior (AP) view of a femur. A progress bar at the top indicates the following steps: "AP Load&Orientation" (checked), "AP Calibration: 0.97" (checked), "LT Load&Orientation" (checked), "LT Calibration: 0.93" (checked), and "Ref Points Placing" (active). A hand cursor is positioned over the "Ref Points Placing" step.
- Right Panel (Lateral View)**: Shows a lateral view of the same femur. The word "POSTERIOR" is on the left and "ANTERIOR" is on the right. A "Calibration Ratio: 0.93" indicator with a checkmark is at the bottom right.

At the bottom left, there is a "Help" button with an upward arrow icon.

Reference Images



Reference Images

Same level !

The screenshot displays a software interface for bone image analysis. The main window is divided into two panels: an AP (Anteroposterior) view on the left and a Lateral view on the right. Both views show a 3D reconstruction of a bone. A yellow box labeled "Ref. Point" is placed on the top surface of the bone in both views, with a red arrow pointing to it from the text "Same level!". The interface includes a top navigation bar with steps: 1 Image Tools, 2 Deformity Analysis, 3 Correction, and 4 Mounting. Below the navigation bar, there are tabs for "AP", "Lateral", and "Multiple". A progress bar shows the current step is "Ref Points Placing". On the left side, there is a "Lateral View" panel with "Image loaded: Blounts-LAT .jpg", "Image Editing Tools" (ON/OFF), and "Brightness/Contrast" controls. Below that, "Actions to NEXT steps" includes "Reference Points" (0) and a "Place" button. A "Lock to go next" button is also visible. At the bottom left, there is a "Help" section with the text: "Place Reference Points at the same level on both views to permit consistent coordination of osteotomy and rings. At the end Lock to go next." The bottom right corner shows a "Calibration Ratio: 0.93" with a checkmark icon.

Continue to Deformity Analysis

1 Image Tools **2 Deformity Analysis** 3 Correction 4 Mounting

AP Lateral Multiple

AP Load&Orientation ✓ AP Calibration: 0.97 ✓ LT Load&Orientation ✓ LT Calibration: 0.93 ✓ Ref Points Placing ✓

Lateral View
Image loaded: Blounts-LAT.jpg
Image tools are hidden until tab is locked.

Actions to NEXT steps
Calibration tools unavailable on multiple view

Reference Points ○ Place

Lock to go next Lock

Help
Place Reference Points at the same level on both views to permit consistent coordination of osteotomy and rings. At the end Lock to go next.

POSTERIOR ANTERIOR

Calibration Ratio: 0.93 ✓

Deformity Analysis

Bone Segment Axes

Dowels

Additional Measurements Tools

Brightness/Contrast

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	0 Recurvatum
Translation (mm)	0 Medial	0 Anterior

Axial View

Rotation (deg) External Internal

Translation (mm) Short Long

Suggested Bone Length (mm) Lengthening

Actions to NEXT steps

Deformity Analysis

Help

AP Lateral Multiple

MEDIAL LATERAL

Reference Apex Moving

Hold CTRL for synchronized movement of axes

Calibration Ratio: 0.97

Deformity Analysis

Bone Segment Axes ON

Dowels OFF

Additional Measurements Tools

Brightness/Contrast

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15	15
Varus		Procurvatum
Translation (mm)	0	0
	Medial	Anterior

Axial View

Rotation (deg) External Internal

Translation (mm) Short Long

Suggested Bone Length (mm) Lengthening

Actions to NEXT steps

Deformity Analysis

Help

AP Lateral Multiple

Reference

Apex

Moving

POSTERIOR

ANTERIOR

Reference

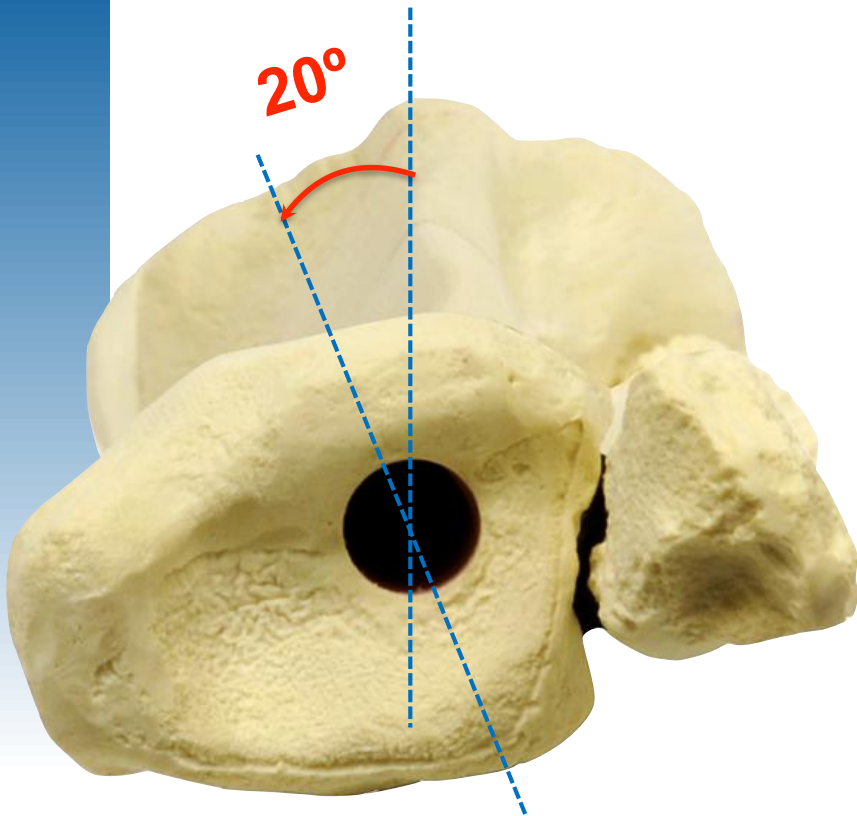
Apex

Moving

Hold CTRL for synchronized movement of axes

Calibration Ratio: 0.93

Deformity parameters



Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	9 Medial	9 Posterior

Axial View

Rotation (deg) External Internal

Translation (mm) Short Long

Deformity Parameters

The interface displays the following sections:

- Bone Segment Axes**: ON
- Dowels**: ON
- Additional Measurements Tools**: Includes icons for a ruler and a protractor.
- Brightness/Contrast**: A dropdown menu.
- Deformity Parameters**: A table with columns for AP and Lateral views.
- Axial View**: Includes rotation and translation settings.
- Suggested Bone Length (mm)**: 0 Lengthening
- Actions to NEXT steps**: Includes a button for **Deformity Analysis** and **Osteotomy**.

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	0 Medial	0 Anterior

Axial View

Rotation (deg): 0
 External
 Internal

Translation (mm): 0
 Short
 Long

Suggested Bone Length (mm): 0 Lengthening

Actions to NEXT steps

Deformity Analysis (highlighted with a hand icon)

Osteotomy

Osteotomy Placement

Bone Segment Axes ON OFF

Dowels ON OFF

Additional Measurements Tools

Brightness/Contrast

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	8 Medial	8 Posterior

Axial View

Rotation (deg) 20 External Internal

Translation (mm) 0 Short Long

Suggested Bone Length (mm) 3 Lengthening

Actions to NEXT steps

Deformity Analysis

Osteotomy

Help

AP Lateral Multiple

Osteotomy

Osteotomy

POSTERIOR

ANTERIOR

Calibration Ratio: 0.93

Osteotomy Placement

Bone Segment Axes ON OFF

Dowels ON OFF

Additional Measurements Tools

Brightness/Contrast

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15	15
Varus		Procurvatum
Translation (mm)	8	8
	Medial	Posterior

Axial View

Rotation (deg) 20 External Internal

Translation (mm) 0 Short Long

Suggested Bone Length (mm) 3 Lengthening

Actions to NEXT steps

Deformity Analysis

Help

AP Lateral Multiple

Osteotomy

POSTERIOR

ANTERIOR

Calibration Ratio: 0.93

Continue to Correction

Bone Segment Axes ON OFF
Dowels ON OFF

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	8 Medial	8 Posterior

Axial View

Rotation (deg) External Internal

Translation (mm) Short Long


Suggested Bone Length (mm) **3 Lengthening**

Actions to NEXT steps

- Deformity Analysis
- Osteotomy

Help

AP Lateral Multiple



POSTERIOR



ANTERIOR

Calibration Ratio: 0.93

Correction

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Dowels ON OFF
Osteotomy Line ON OFF
EOC Analysis ON OFF

Additional Measurements Tools

Brightness/Contrast

End of Correction Parameters

	AP	Lateral
Over Angulation (deg)	0	0
Varus		Recurvatum
Over Translation (mm)	0	0
	Medial	Anterior

Axial View

Rotation (deg) 0 External
Internal

Suggested Bone Length (mm) 3 Lengthening

Bone Length (mm)

0 Shortening
Lengthening

Help

POSTERIOR ANTERIOR

Calibration Ratio: 0.93

Correction – Bone Lengthening

End of Correction Parameters

	AP	Lateral
Over Angulation (deg)	0 Varus	0 Recurvatum
Over Translation (mm)	0 Medial	0 Anterior

Axial View

Rotation (deg) External Internal

Suggested Bone Length (mm) **3 Lengthening**

Bone Length (mm) Shortening Lengthening

Lock to go n

Deformity Parameters


Correction – Confirm

End of Correction Parameters



	AP	Lateral
Over Angulation (deg)	0 Varus	0 Recurvatum
Over Translation (mm)	0 Medial	0 Anterior


Axial View

Rotation (deg) External Internal

Suggested Bone Length (mm) **3 Lengthening** 

Bone Length (mm) Shortening Lengthening

Lock to go next  

Deformity Parameters 

Continue to Mounting

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Dowels OFF
Osteotomy Line ON
EOC Analysis ON

End of Correction Parameters

	AP	Lateral
Over Angulation (deg)	0 Varus	0 Recurvatum
Over Translation (mm)	0 Medial	0 Anterior

Axial View

Rotation (deg) 0 External Internal

Suggested Bone Length (mm) 3 Lengthening

Bone Length (mm) 20 Shortening Lengthening

Lock to go next

Deformity Parameters

Help

POSTERIOR

ANTERIOR

Calibration Ratio: 0.93

Frame design and mounting

Case Data

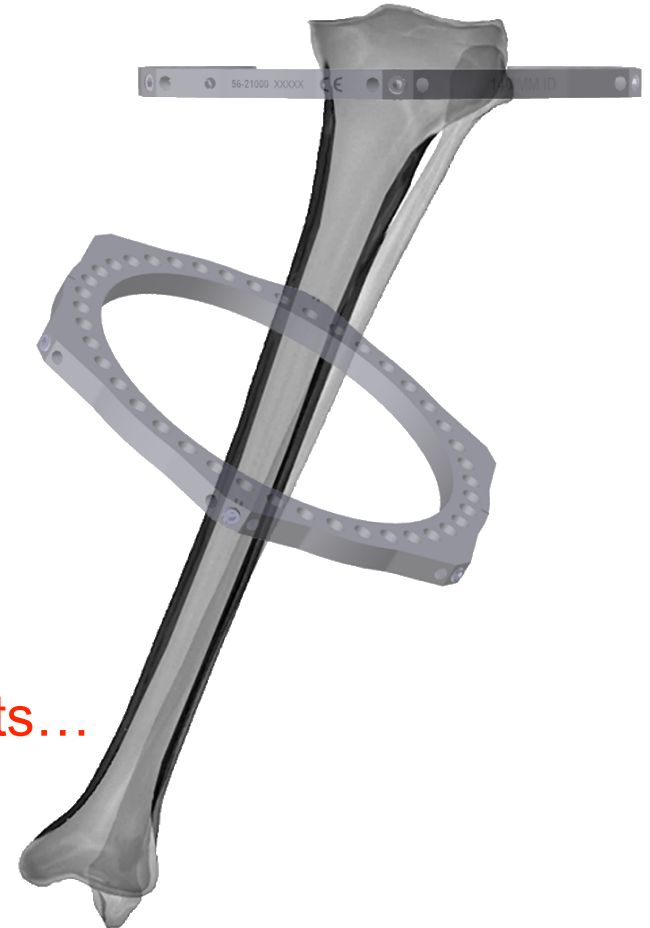
Deformity Parameters

Mounting Parameters

Schedule

Report

- Select your external supports shape & size
- Mount reference ring on a reference segment
- **Preoperative planning!**
 - software will suggest optimal struts...

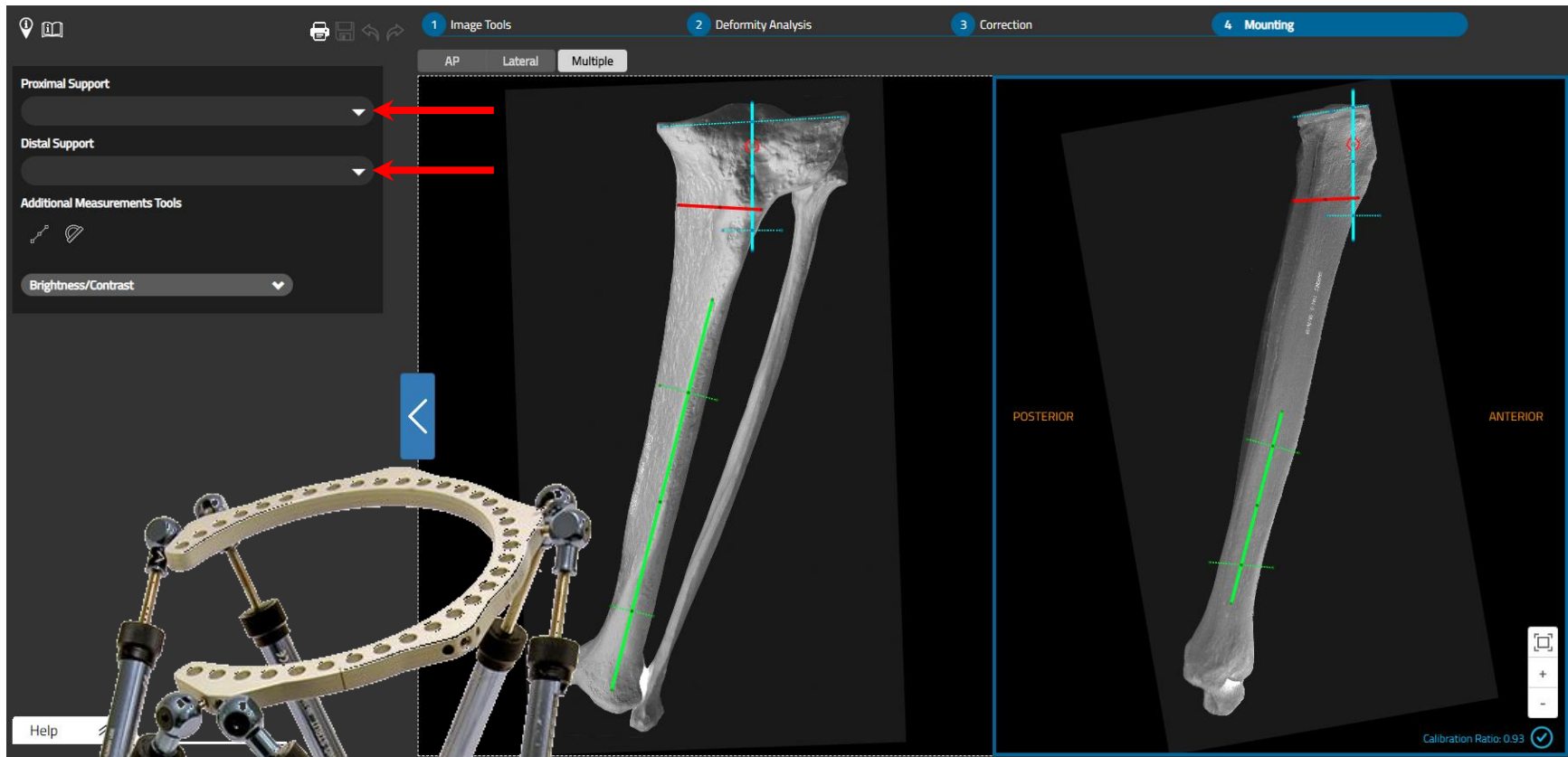


Frame design

- Proximal external support:
5/8 ring open posteriorly
- Distal external support:
double-ring block
(*TL-Hex ring + TL ring*)



Mounting parameters



Mounting parameters - Supports

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Proximal Support
5/8 Open Posteriorly Ring - 160mm

Distal Support
Full Ring - 160mm

Rings **ON** OFF

Additional Measurements Tools

Brightness/Contrast

Reference Ring Parameters

	AP	Lateral
Translation (mm)	0 Lateral	0 Anterior
Angle (deg)	0 Medial Side Down	0 Anterior Side Down

Axial View

Rotation (deg) 0 Internal

Rings Position Relative To Osteotomy / Fracture Level

Reference Ring Position (mm) 27 Proximal

Second Ring Position (mm) 86

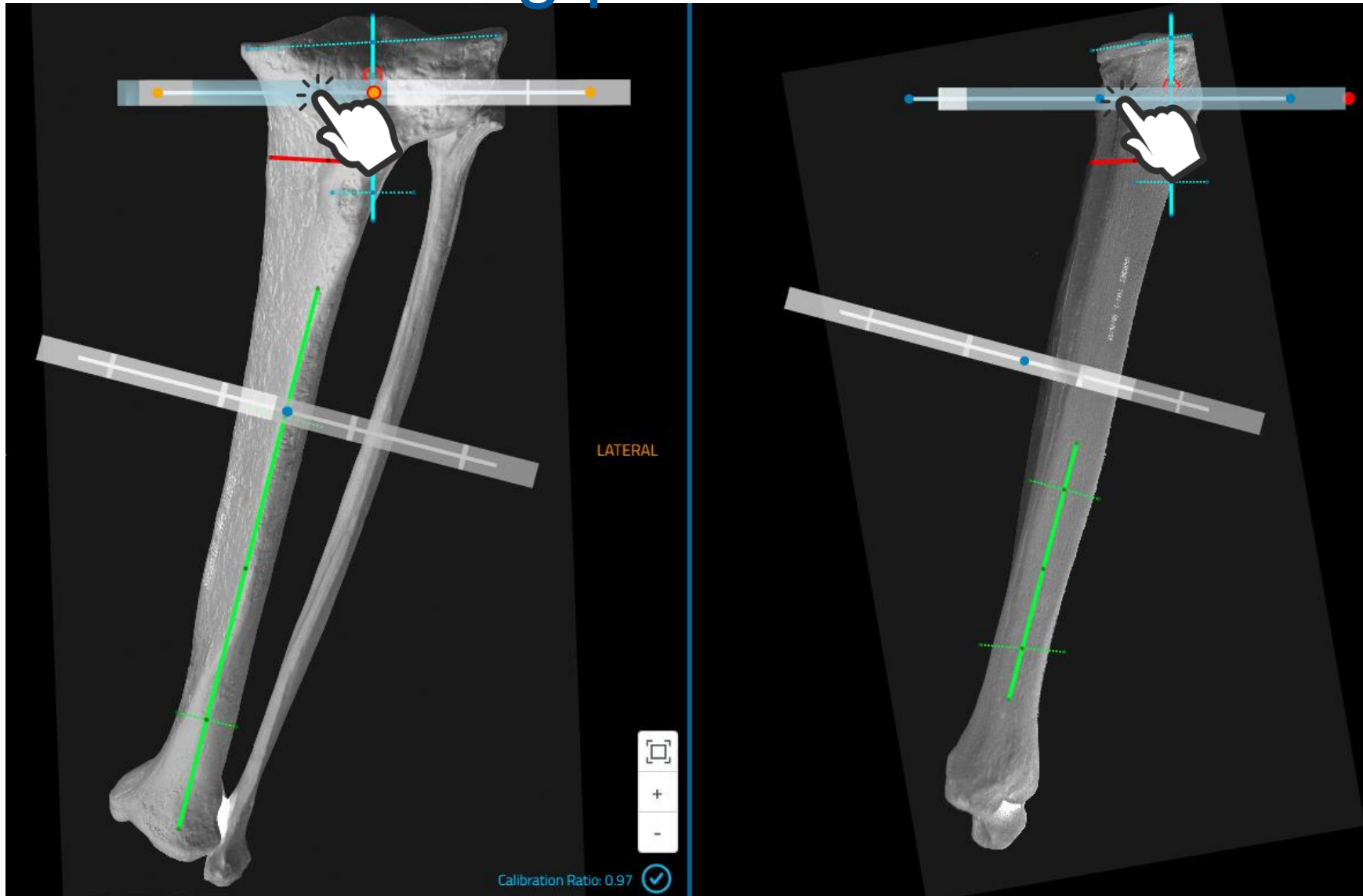
Actions to NEXT steps

Help back to

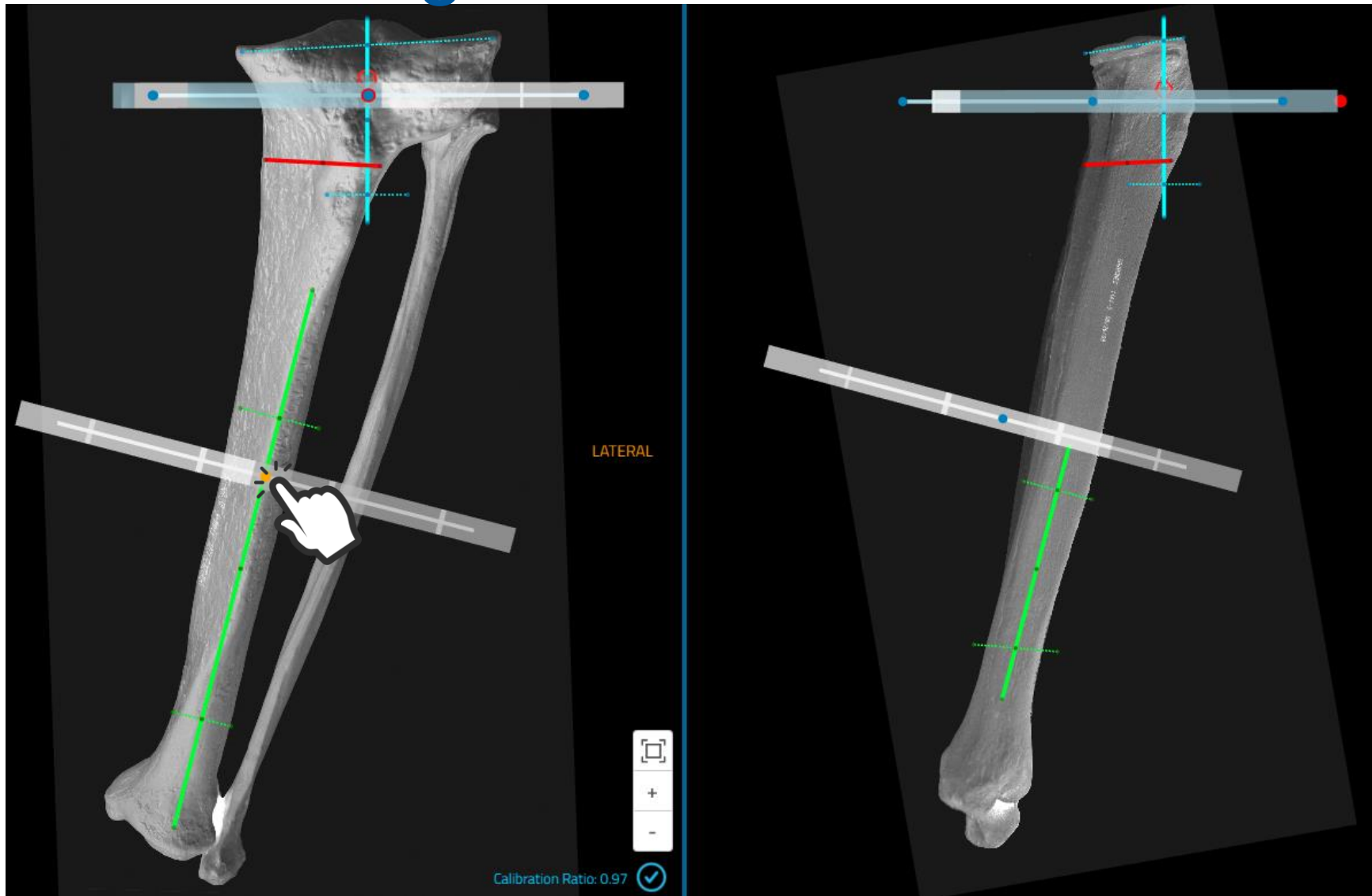
MEDIAL LATERAL

Calibration Ratio: 0.97

Reference ring position



Second ring level



Mounting complete

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Proximal Support
5/8 Open Posteriorly Ring - 160mm

Distal Support
Full Ring - 160mm

Rings **ON** OFF

Additional Measurements Tools

Brightness/Contrast

Reference Ring Parameters

	AP	Lateral
Translation (mm)	0 Lateral	30 Posterior
Angle (deg)	0 Medial Side Down	0 Anterior Side Down

Axial View

Rotation (deg) 0 Internal

Rings Position Relative To Osteotomy / Fracture Level

Reference Ring Position (mm) 26 Proximal

Second Ring Position (mm) 120

Actions to NEXT steps
Help back to

MEDIAL LATERAL

Calibration Ratio: 0.97

Mounting parameters

Reference Ring Parameters

	AP	Lateral
Translation (mm)	0 Lateral	30 Posterior
Angle (deg)	0 Medial Side Down	0 Anterior Side Down

Axial View

Rotation (deg) 0 Internal

Rings Position Relative To Osteotomy / Fracture Level

Reference Ring Position (mm) 26 Proximal

Second Ring Position (mm) 120

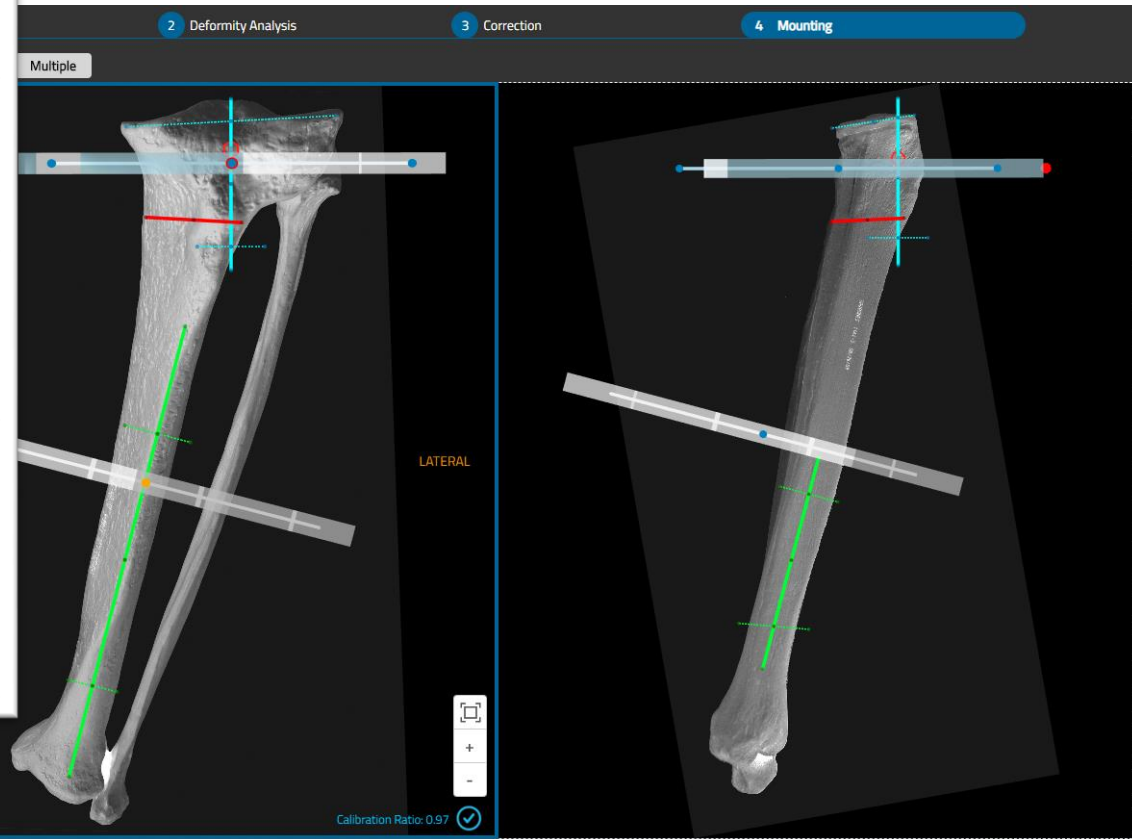
Actions to NEXT steps

Press X to save and go back to
TL-HEX struts calculation

Second Ring Position (mm) 120

Actions to NEXT steps

Help back to



Return to TL-HEX

ORTHOFIX *HEX-ray* Patient ID: Patient B... Case ID: Blount Case Type: Deformity Bone Type: Tibia Ref.Segment: Proximal Side: Left

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Distal Support
Full Ring - 160mm

Rings **ON** OFF

Additional Measurements Tools

Brightness/Contrast

	AP	Lateral
Translation (mm)	0 Lateral	30 Posterior
Angle (deg)	0 Medial Side Down	0 Anterior Side Down

Axial View
Rotation (deg) 0 Internal

Rings Position Relative To Osteotomy / Fracture Level
Reference Ring Position (mm) 26 Proximal
Second Ring Position (mm) 120

Actions to NEXT steps
Press X to save and go back to TL-HEX struts calculation

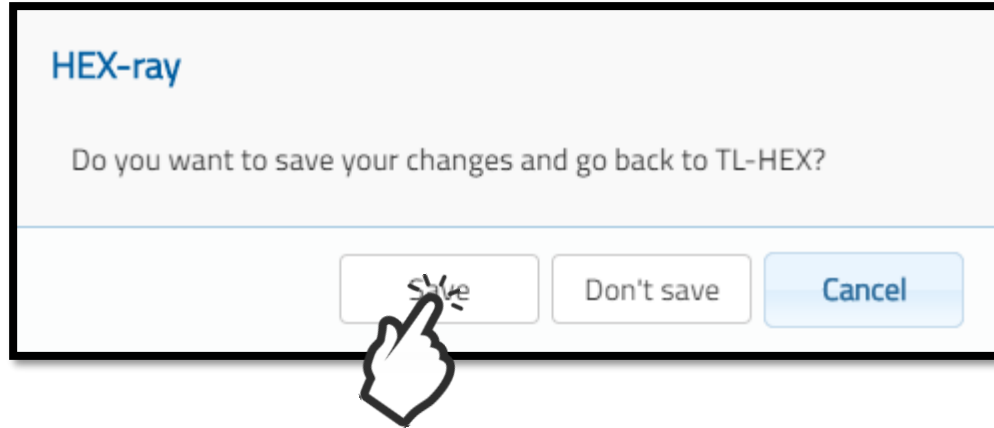
Help

MEDIAL LATERAL

Calibration Ratio: 0.97

PRE- POSTOPERATIVE GUIDE

Return to TL-HEX



Preoperative Mounting Parameters

Case Data Deformity Parameters **Mounting Parameters** Schedule Report

Scenario **PREOPERATIVE** **HEX-ray**

Proximal Support **5/8 Open Posteriorly Ring - 160mm -** Distal Support **Full Ring - 160mm -**

AP View

Reference Ring Translation (mm): 0 (Medial/Lateral)

Reference Ring Angle (deg): 0 (Medial Side Down/Medial Side Up)

Lateral View

Reference Ring Translation (mm): 30 (Anterior/Posterior)

Reference Ring Angle (deg): 0 (Anterior Side Down/Anterior Side Up)

Axial View

Reference Ring Rotation (deg): 0 (External/Internal)

Reference Ring Position (mm): 26 (Proximal/Distal)

Second Ring Position (mm): 120

Rings Position Relative To: Deformity Apex / Osteotomy/Fracture Level

Osteotomy Site Translation (mm): 8 (Medial/Lateral)

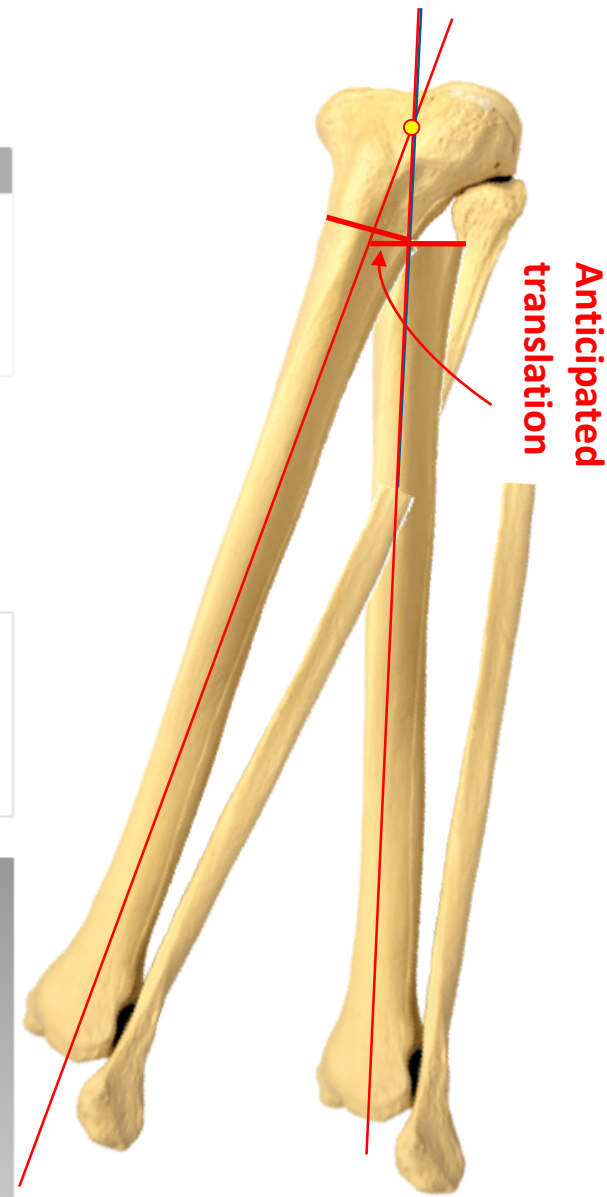
Osteotomy Site Translation (mm): 8 (Anterior/Posterior)

Insert Strut lengths						
Total (mm)	Strut 1: 210	Strut 2: 187	Strut 3: 204	Strut 4: 162	Strut 5: 161	Strut 6: 121
Size	Long	Long	Long	Long	Long	Medium
Acute	0	28	0	4	3	7
Gradual	29	80	35	80	80	35

AP view

Lateral View

Axial View



Preoperative Mounting Parameters

Case Data Deformity Parameters **Mounting Parameters** Schedule Report

Scenario * ? PREOPERATIVE POSTOPERATIVE → **HEX-ray**

Proximal Support * ? Distal Support * ?

5/8 Open Posteriorly Ring - 160mm - **Full Ring - 160mm -**

AP View ? **Lateral View ?** **Axial View ?**

Reference Ring Translation (mm)
0 Medial Lateral

Reference Ring Angle (deg)
0 Medial Side Down Medial Side Up

Reference Ring Translation (mm)
30 Anterior Posterior

Reference Ring Angle (deg)
0 Anterior Side Down Anterior Side Up

Reference Ring Translation (mm)
0 External Internal

Reference Ring Position (mm) ? Rings Position Relative To ? Osteotomy Site Translation (mm)

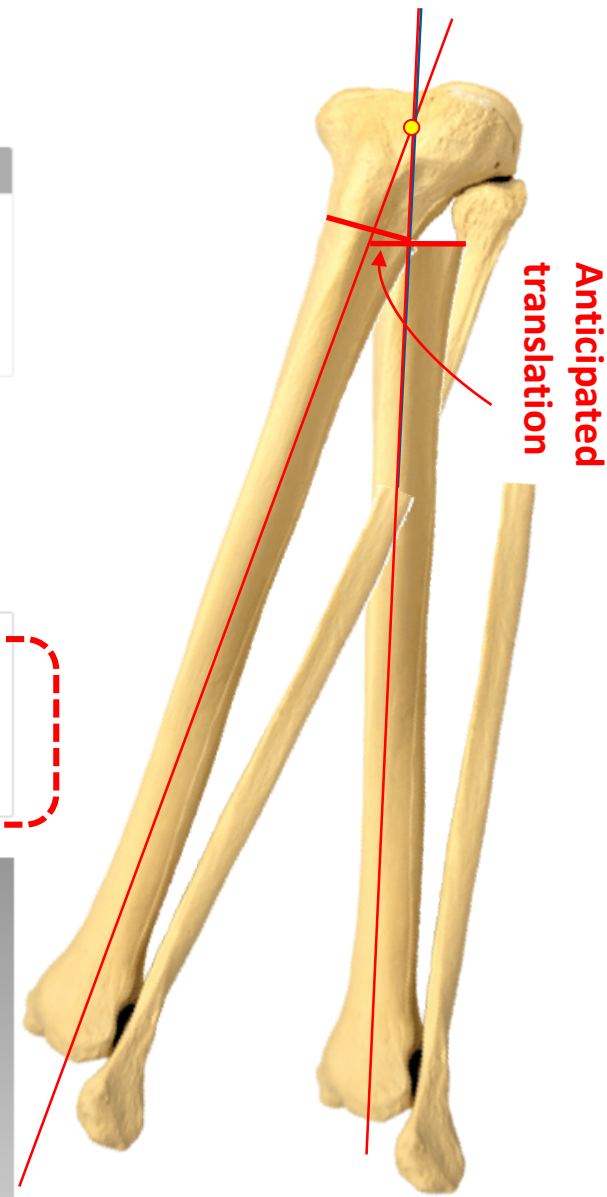
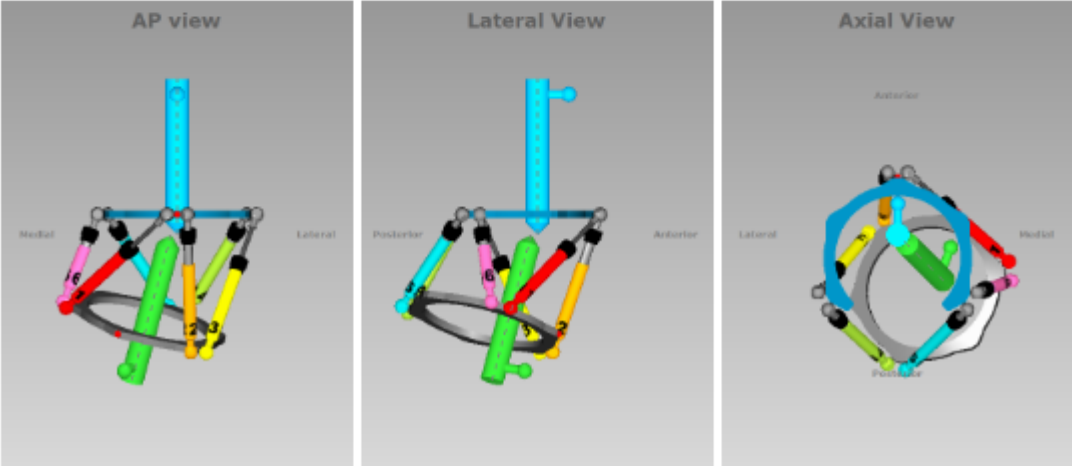
26 Proximal Distal Deformity Apex Osteotomy/Fracture Level 8 Medial Lateral

Second Ring Position (mm)
120 8 Anterior Posterior

Optimized strut sizes and lengths

Total (mm)	Strut 1: 210	Strut 2: 187	Strut 3: 204	Strut 4: 162	Strut 5: 161	Strut 6: 121
Size	Long	Long	Long	Long	Long	Medium
Acute	0	28	0	4	3	7
Gradual	29	80	35	80	80	35

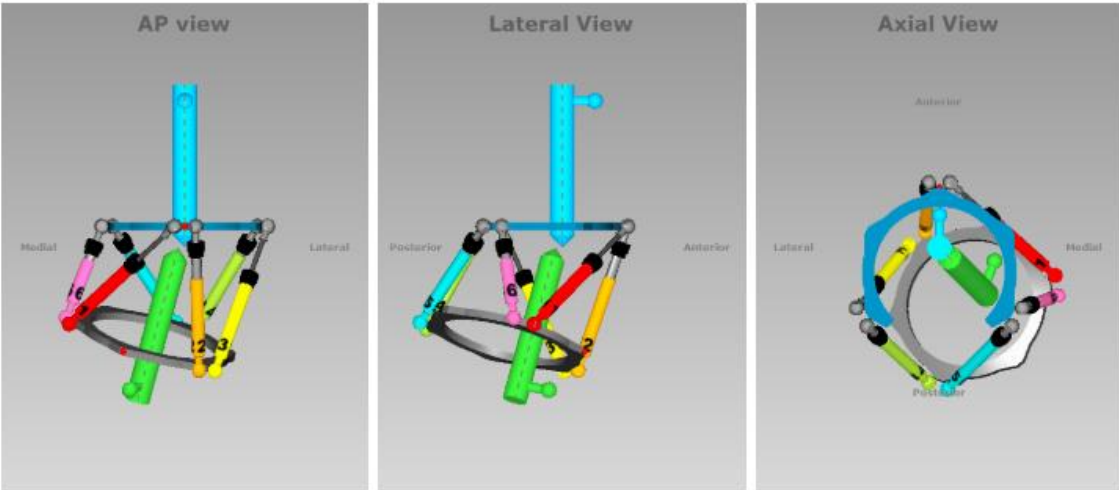
AP view **Lateral View** **Axial View**



Preoperative Mounting Parameters

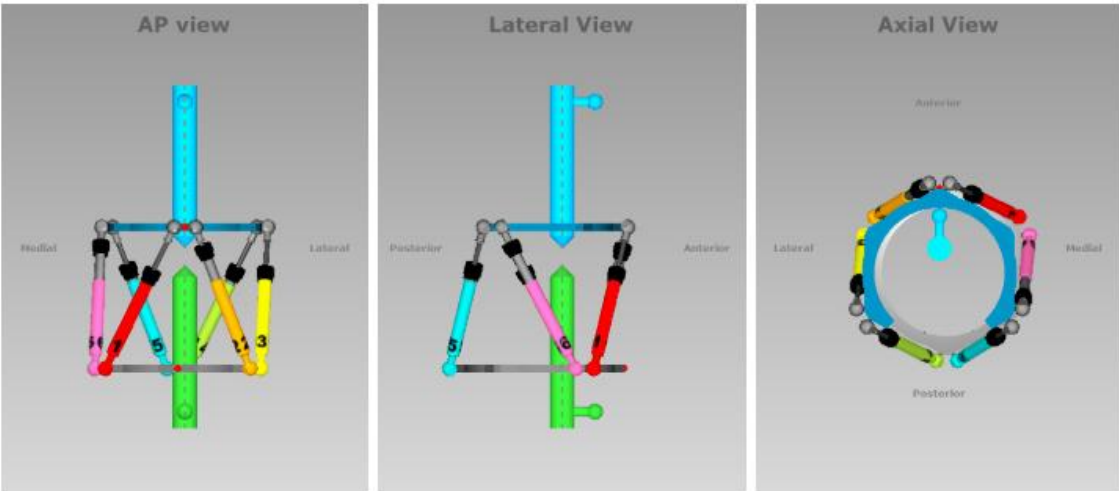
Insert Strut lengths

Total (mm)	Strut 1: 210	Strut 2: 187	Strut 3: 204	Strut 4: 162	Strut 5: 161	Strut 6: 121
Size	Long	Long	Long	Long	Long	Medium
Acute	0	28	0	4	3	7
Gradual	29	80	35	80	80	35



→ END OF CORRECTION Parameters ▼

Total (mm)	Strut 1: 197	Strut 2: 190	Strut 3: 195	Strut 4: 198	Strut 5: 191	Strut 6: 196
Size	Long	Long	Long	Long	Long	Long





FRAME ASSEMBLY

Pre-assembled frame...



External supports



TL-Hex 5/8 ring



TL-Hex full ring



TL full ring

Distal double-ring block



- TL-Hex 160-mm ring
- TL 160-mm ring
- Anterior & posterior telescopic (threaded) rods

Use telescopic connection rods for better stability

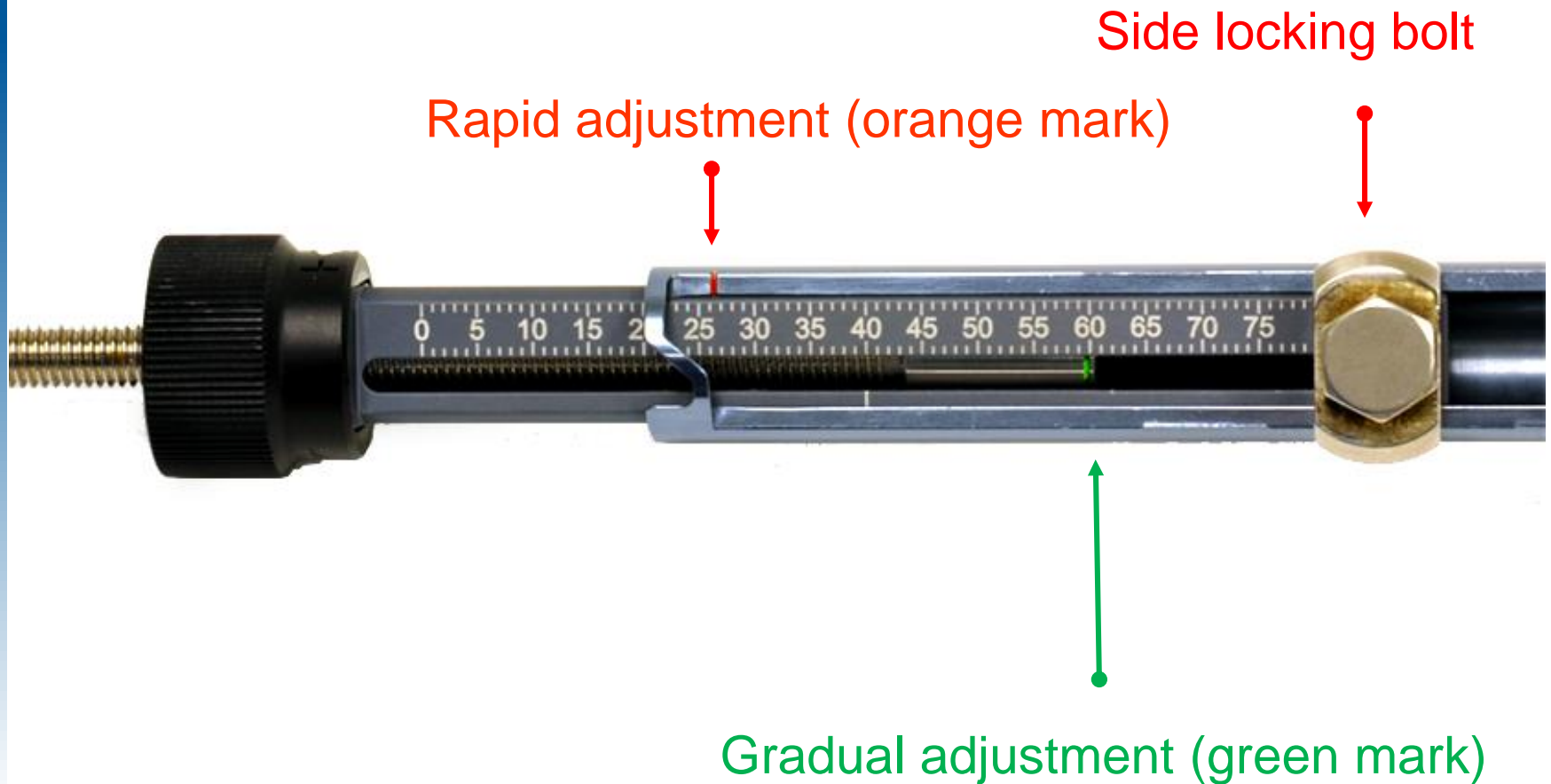
Strut length setting



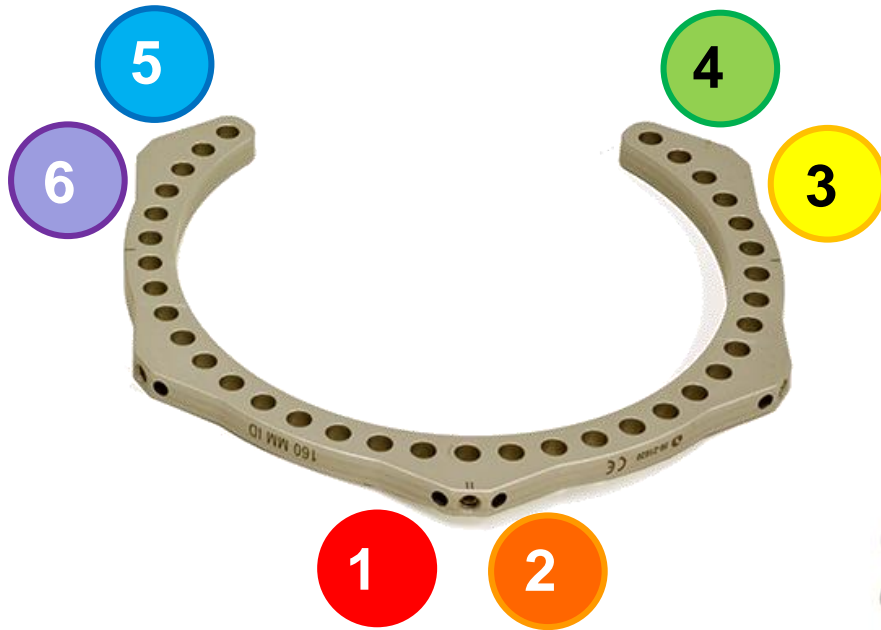
Total (mm)

	Strut 1: 210	Strut 2: 187	Strut 3: 204	Strut 4: 162	Strut 5: 161	Strut 6: 121
Size	Long ▼	Long ▼	Long ▼	Long ▼	Long ▼	Medium ▼
Acute	0 ▲▼	28 ▲▼	0 ▲▼	4 ▲▼	3 ▲▼	7 ▲▼
Gradual	29 ▲▼	80 ▲▼	35 ▲▼	80 ▲▼	80 ▲▼	35 ▲▼

Strut length adjustment

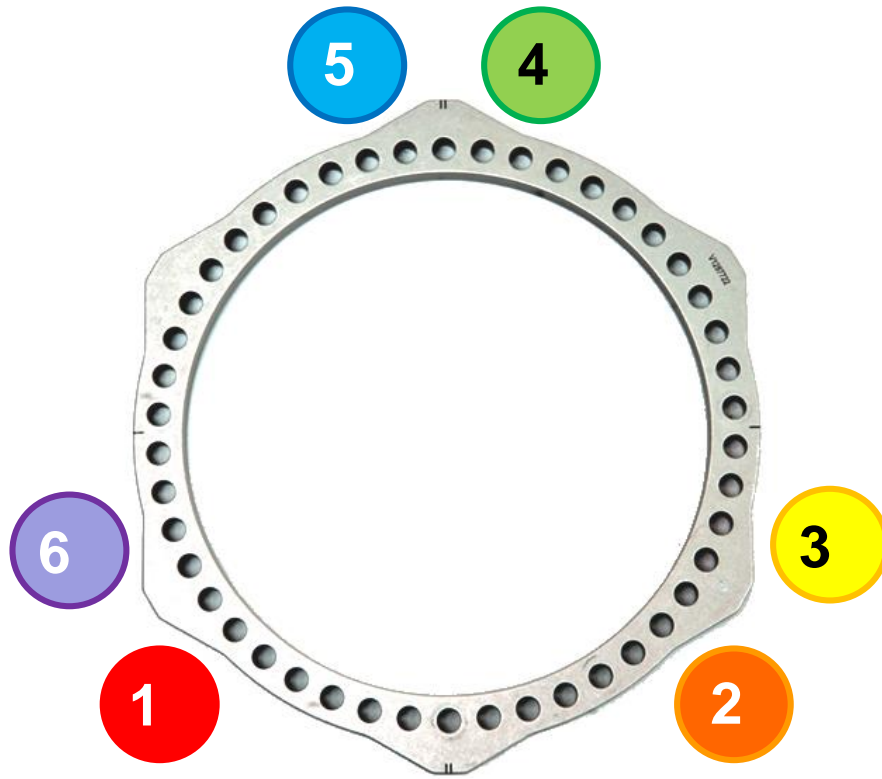


Proximal ring connections

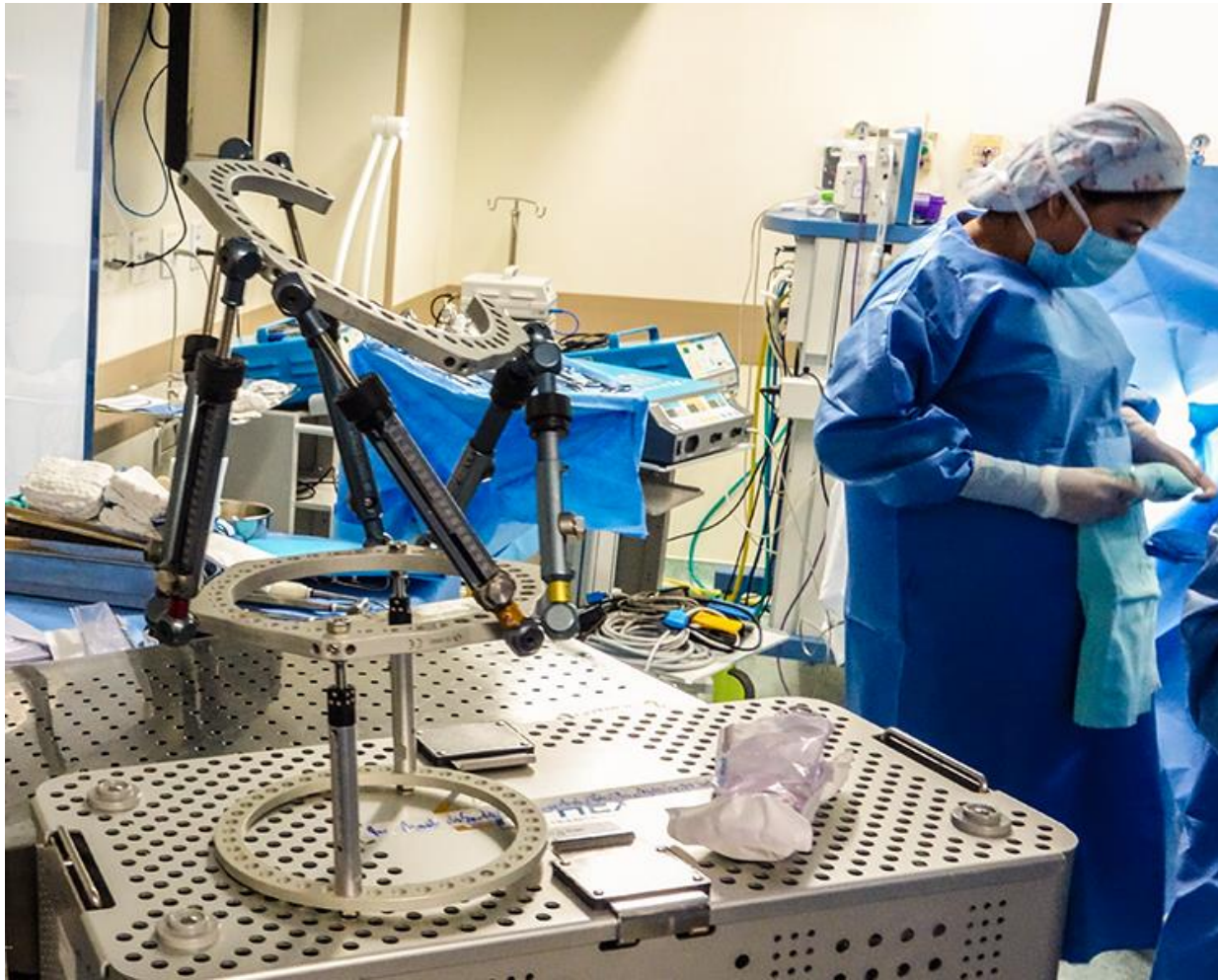


The strut order is always the same for either the left or right side

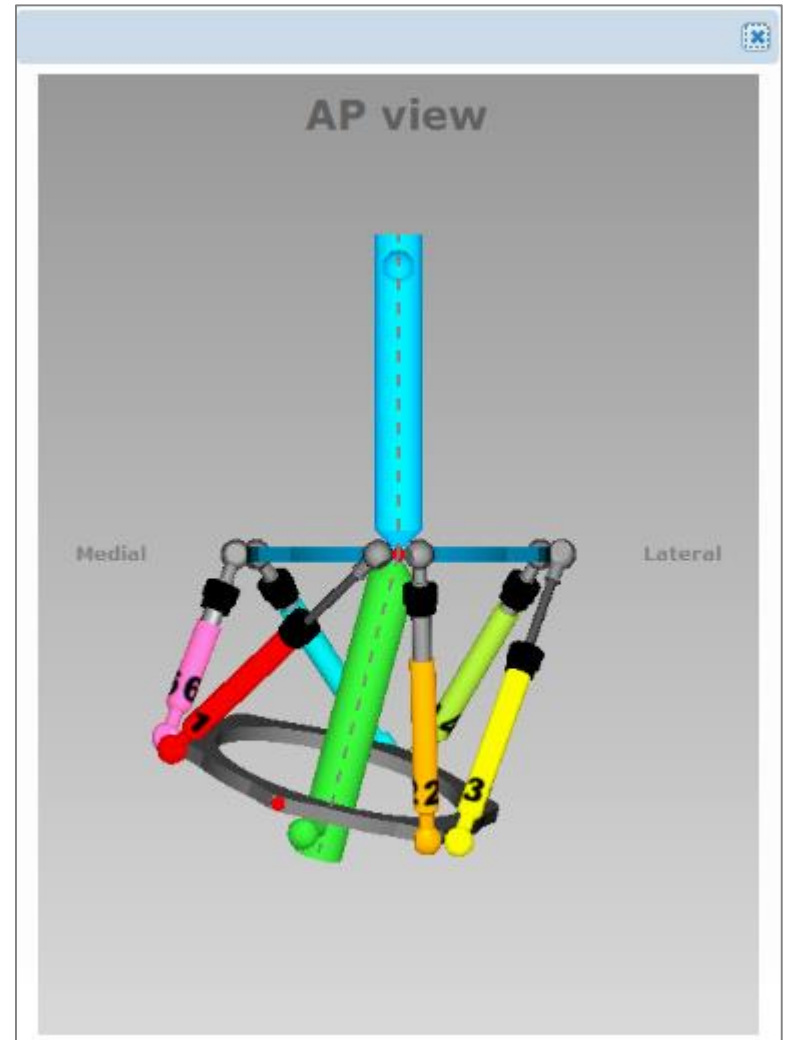
Distal ring connections



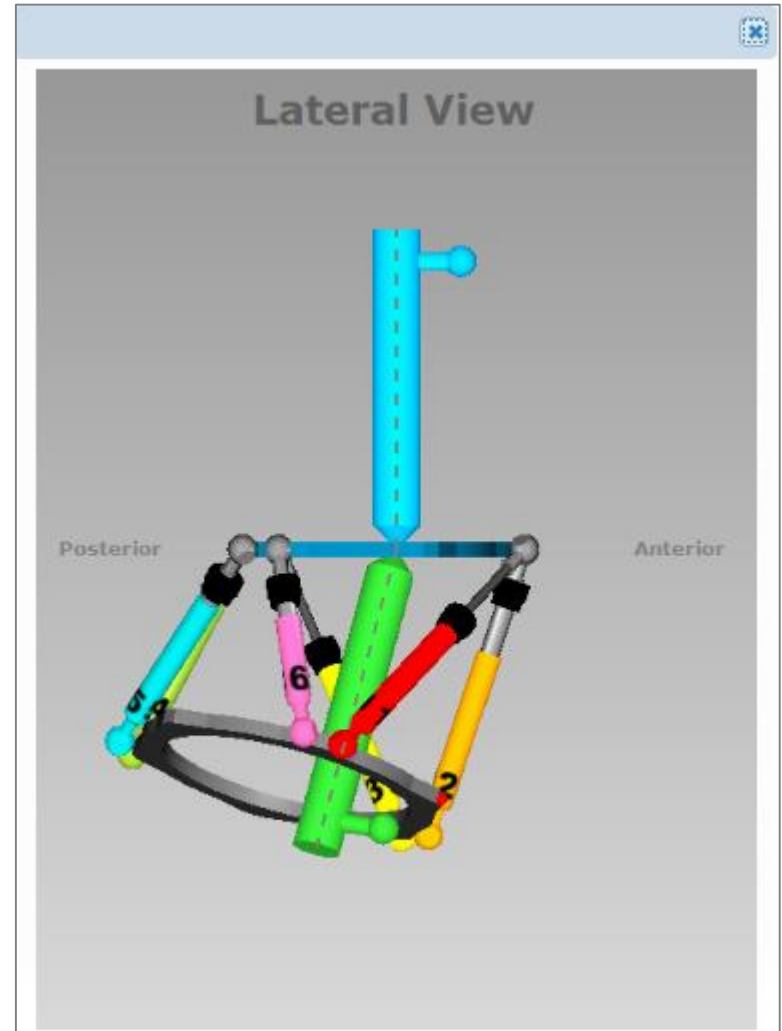
Pre-built frame...



Confirm frame configuration



Confirm frame configuration





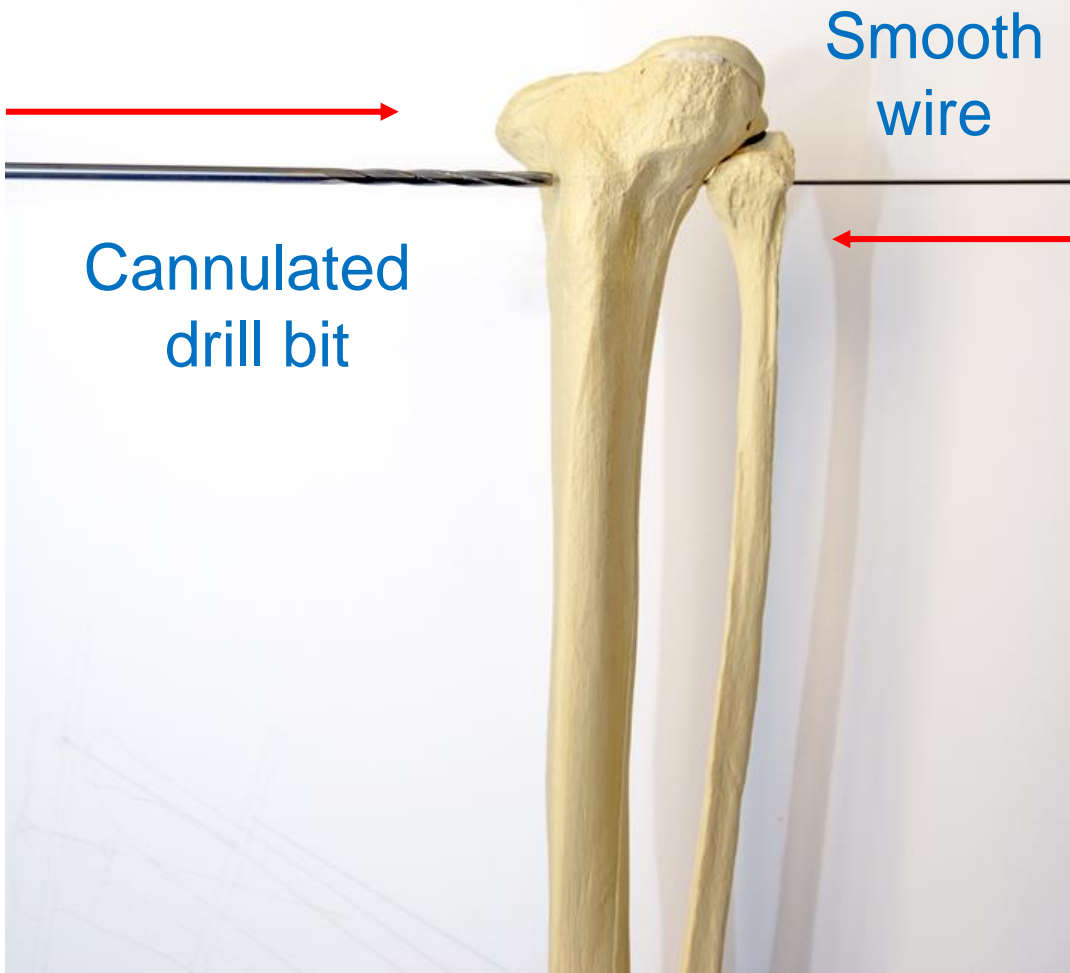
FRAME APPLICATION

Frame alignment & orientation



- Center the preassembled frame on the tibia
- Align the proximal 5/8 ring
- Adjust the distal ring level

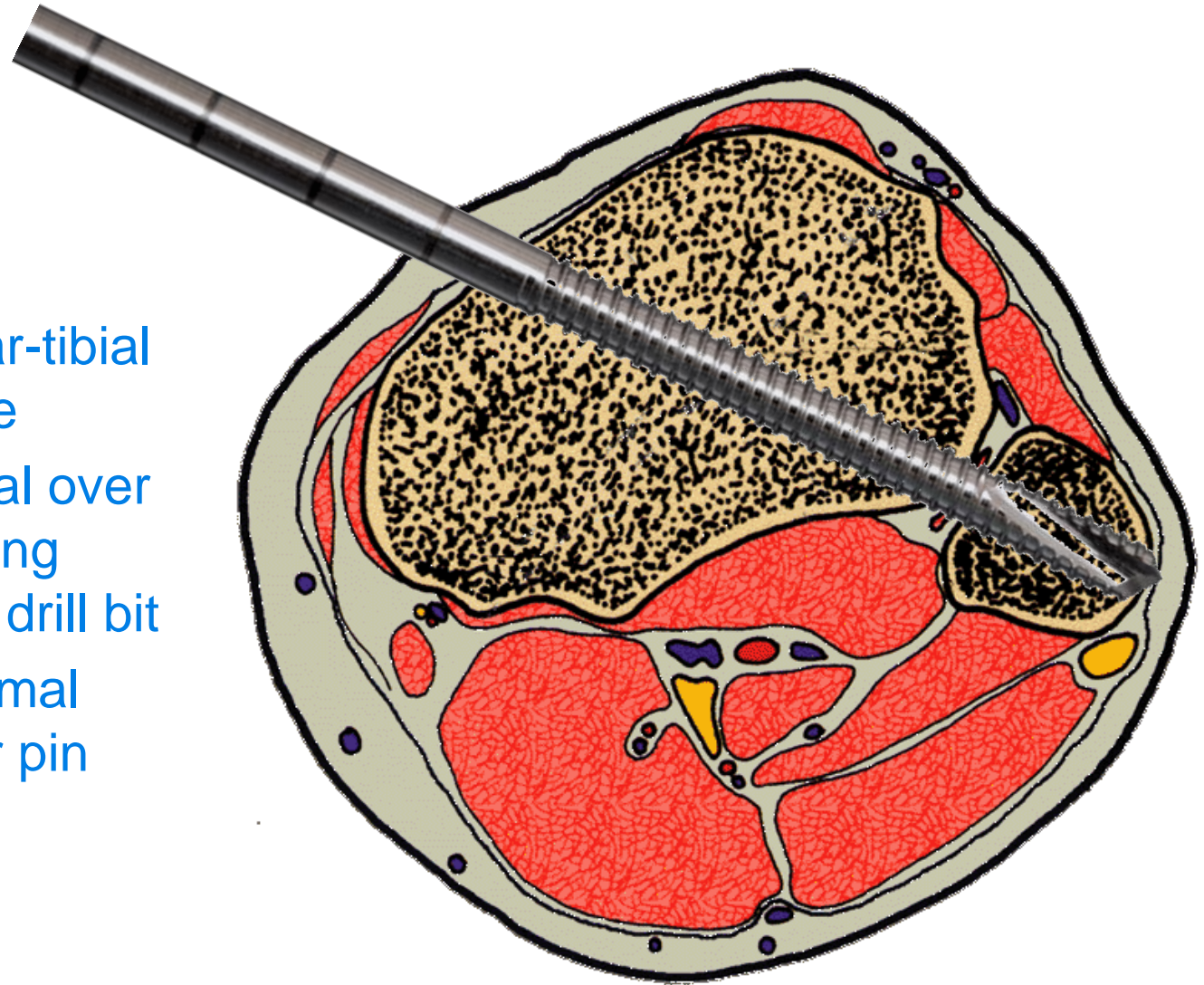
Proximal reference pin



- Insert fibular-tibial smooth wire
- Create canal over the wire using cannulated drill bit

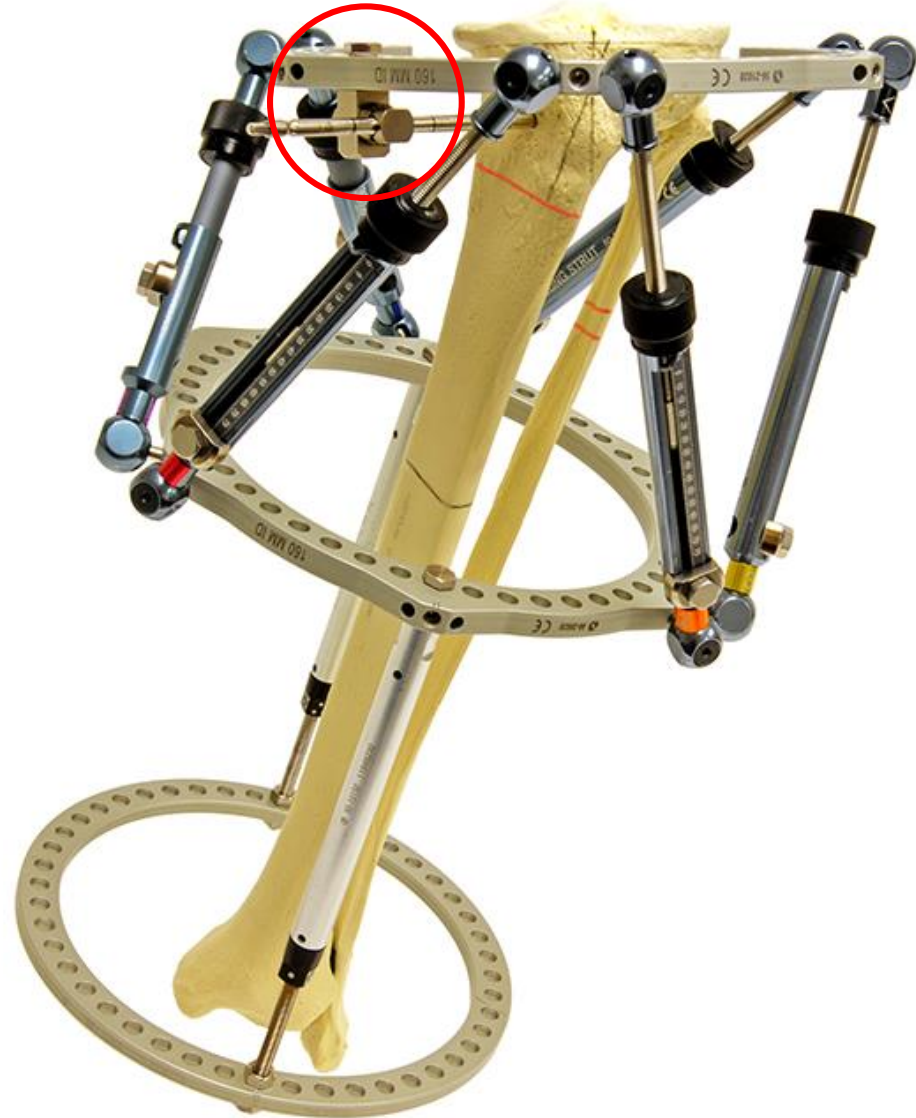
Proximal reference pin

- Insert fibular-tibial smooth wire
- Create canal over the wire using cannulated drill bit
- Insert proximal tibial-fibular pin

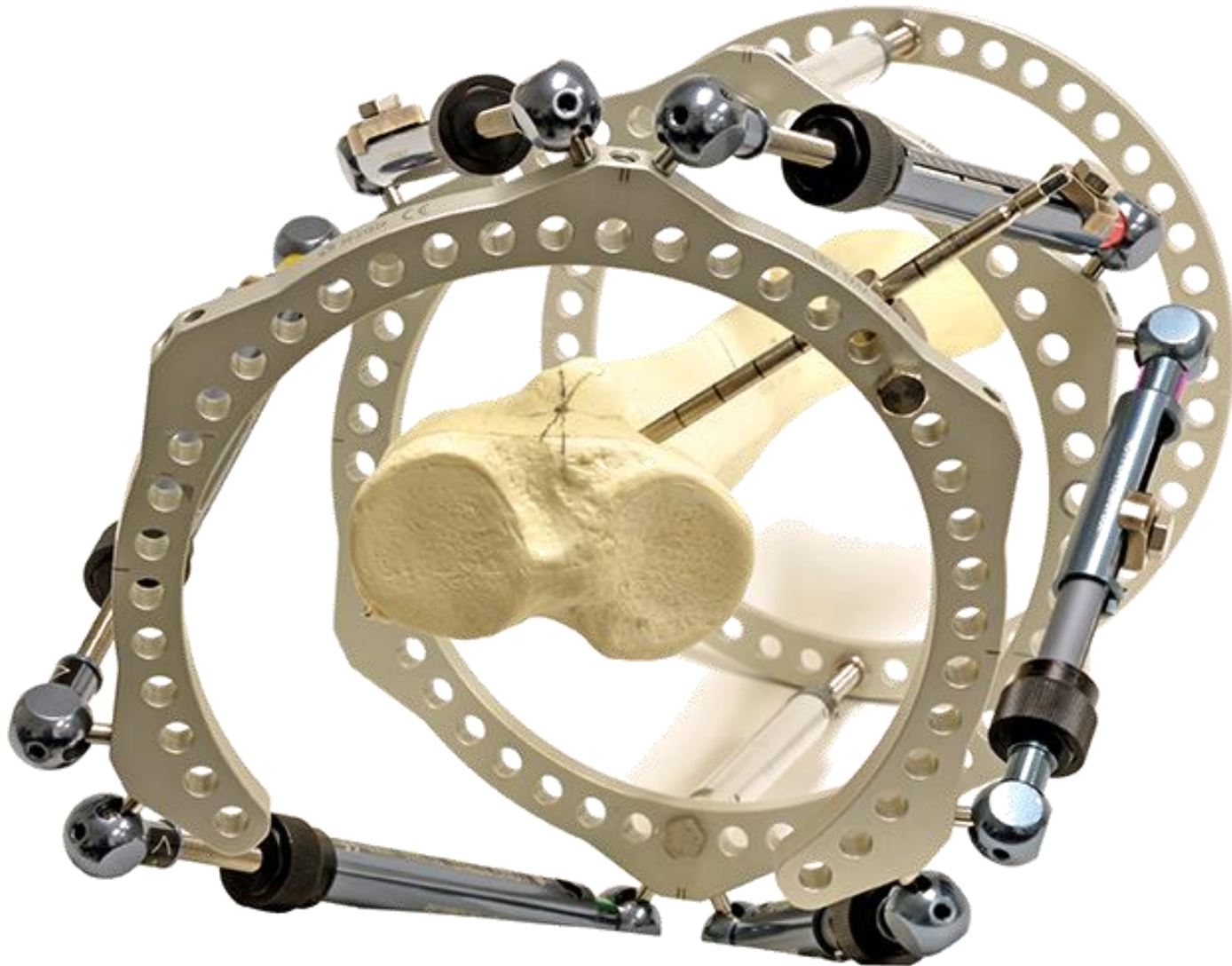


Proximal reference pin

- Attach half pin to the ring using post and half pin fixation bolt



Check frame alignment

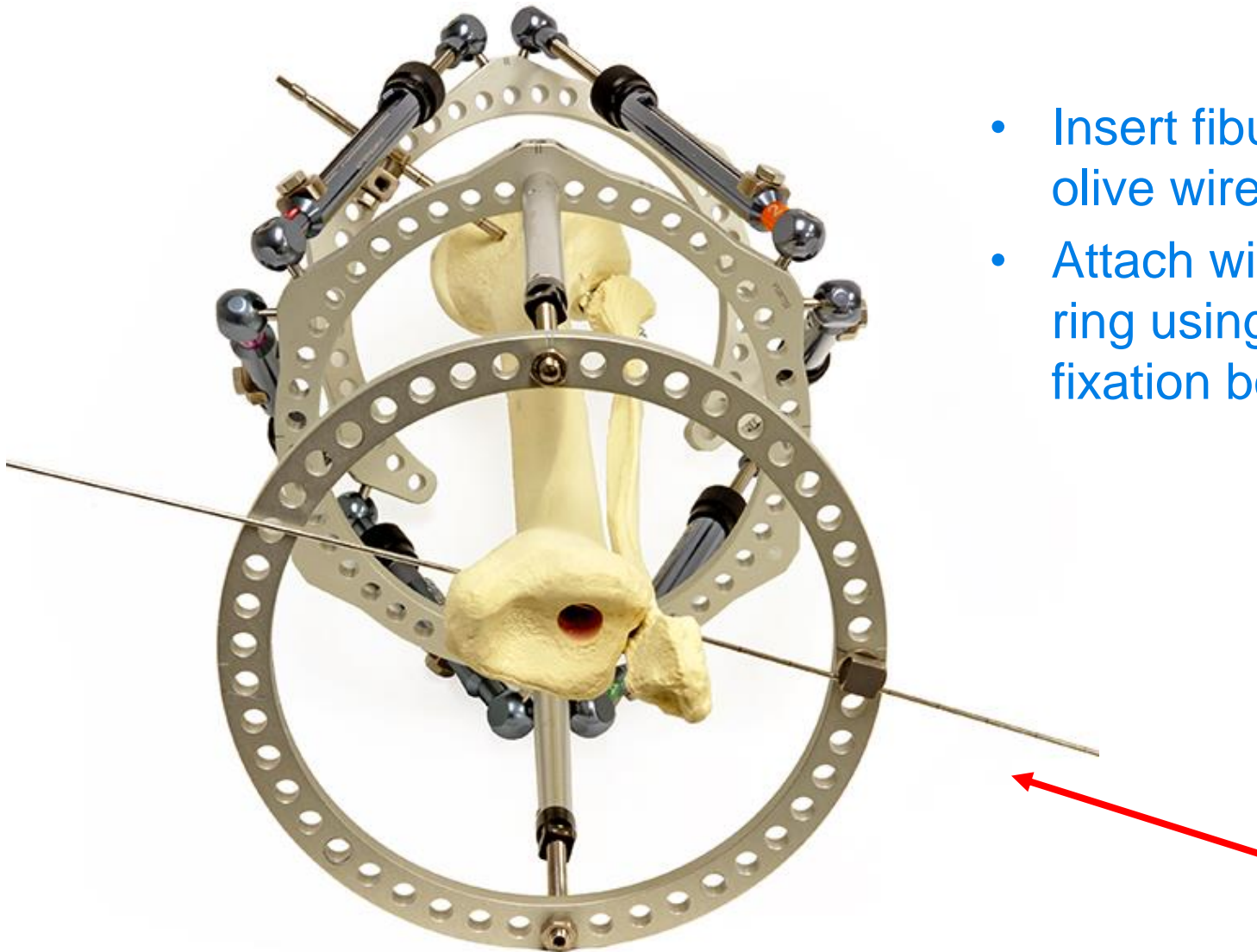


Frame orientation

Frame Application

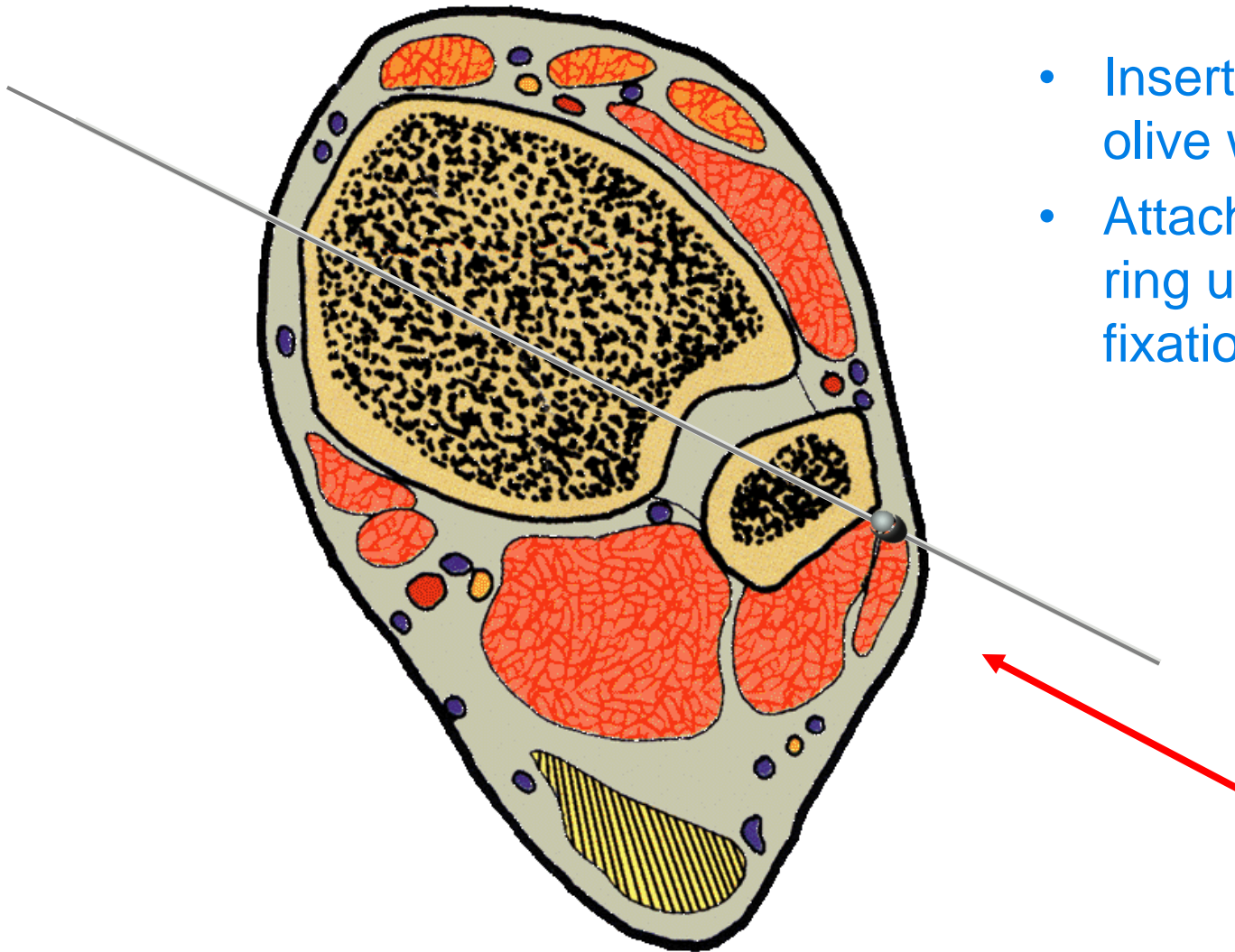


Distal reference wire



- Insert fibular-tibial olive wire
- Attach wire to the ring using two wire fixation bolts

Distal reference wire



- Insert fibular-tibial olive wire
- Attach wire to the ring using two wire fixation bolts

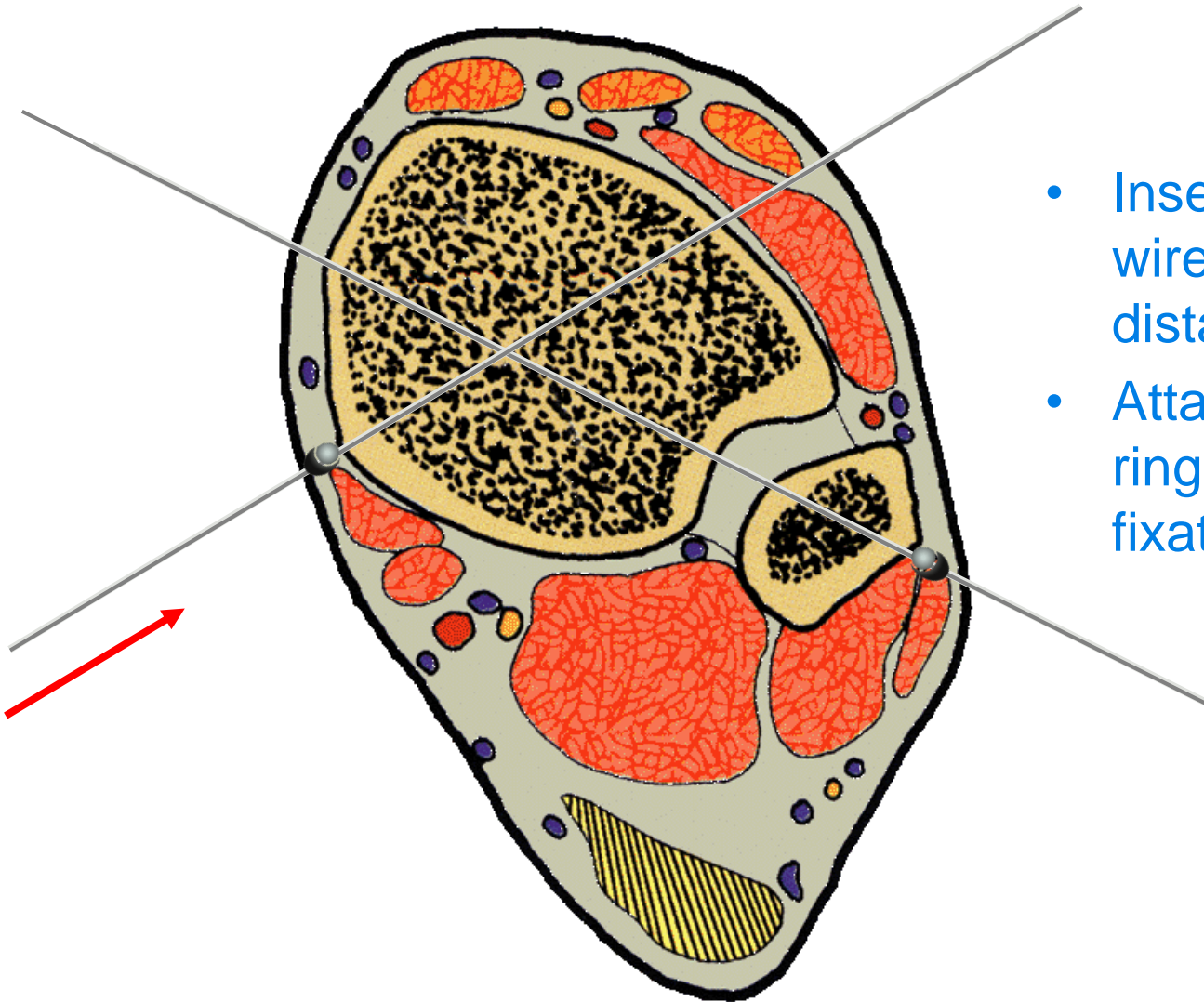
Distal reference wire



- Pre-tension the wire to 130 kg
- Confirm frame alignment

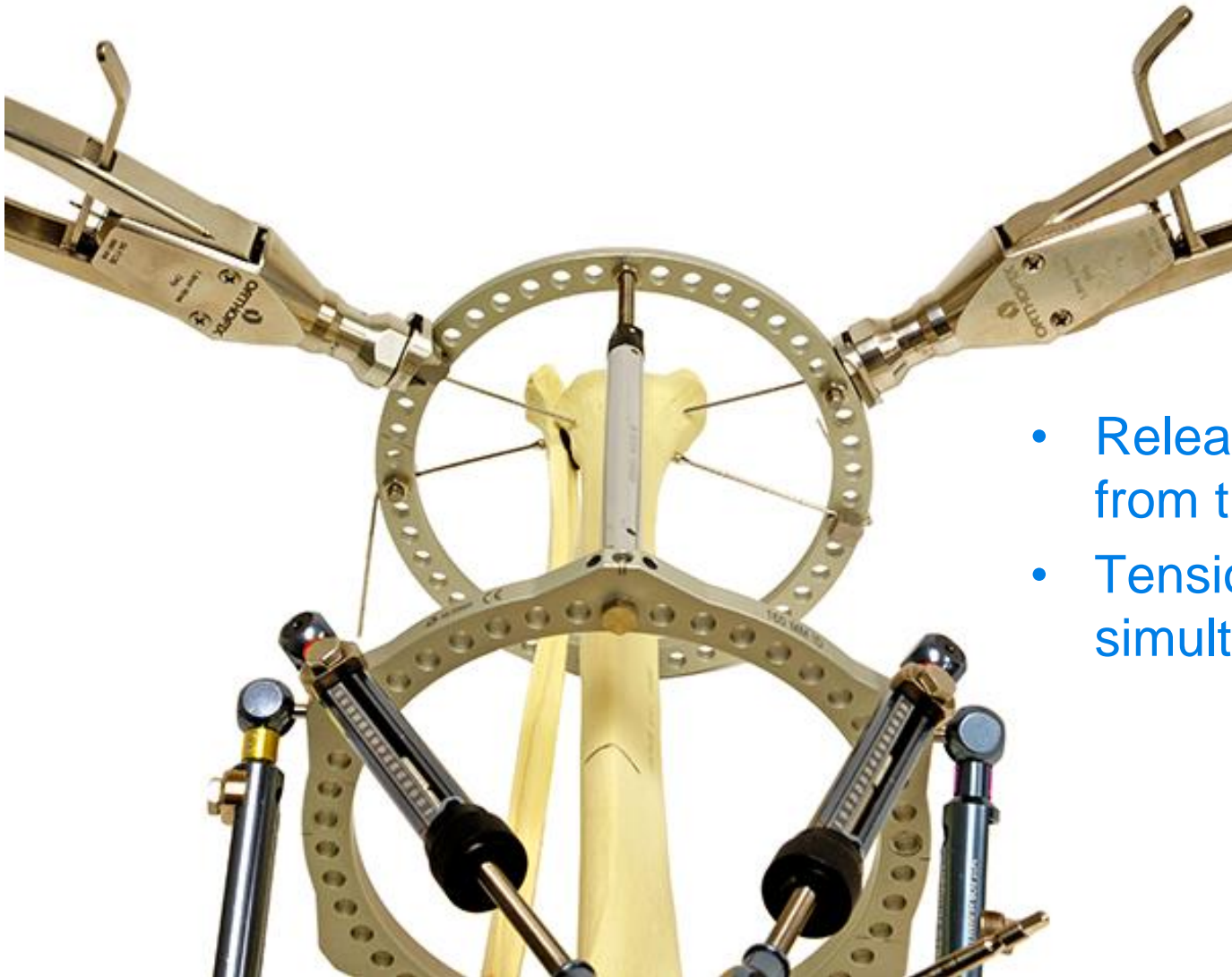
Second distal tibial wire

Frame Application



- Insert second olive wire through the distal tibia
- Attach wire to the ring using two wire fixation bolts

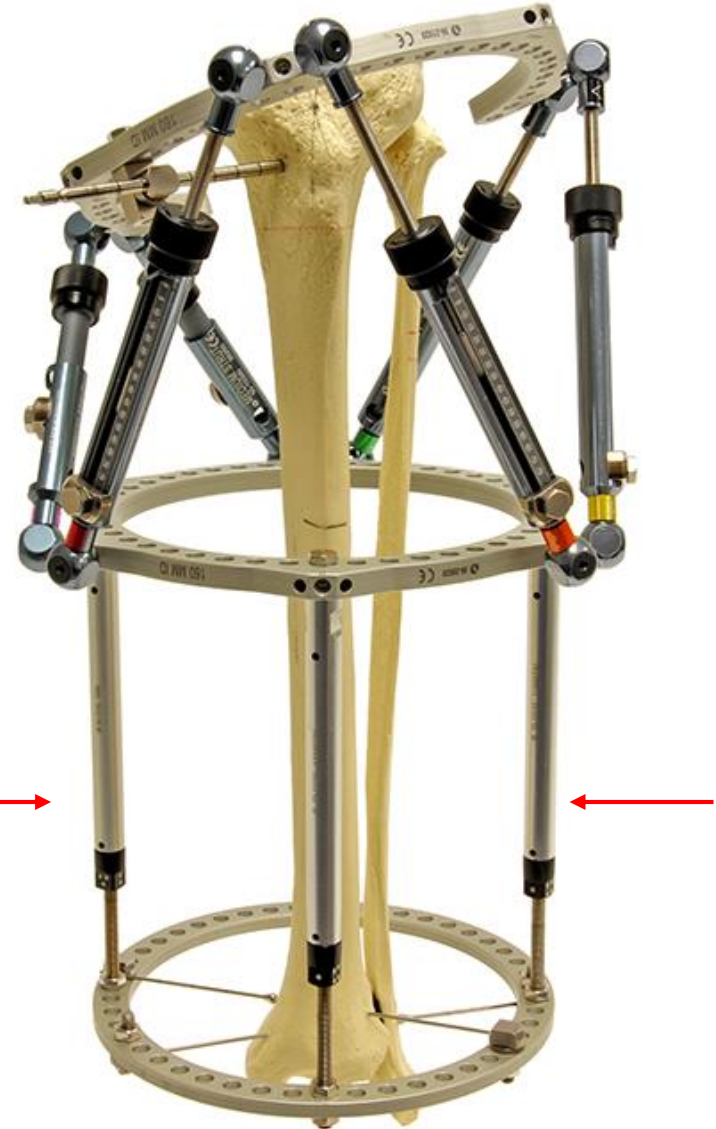
Second distal tibial wire



- Release tension from the first wire
- Tension both wires simultaneously

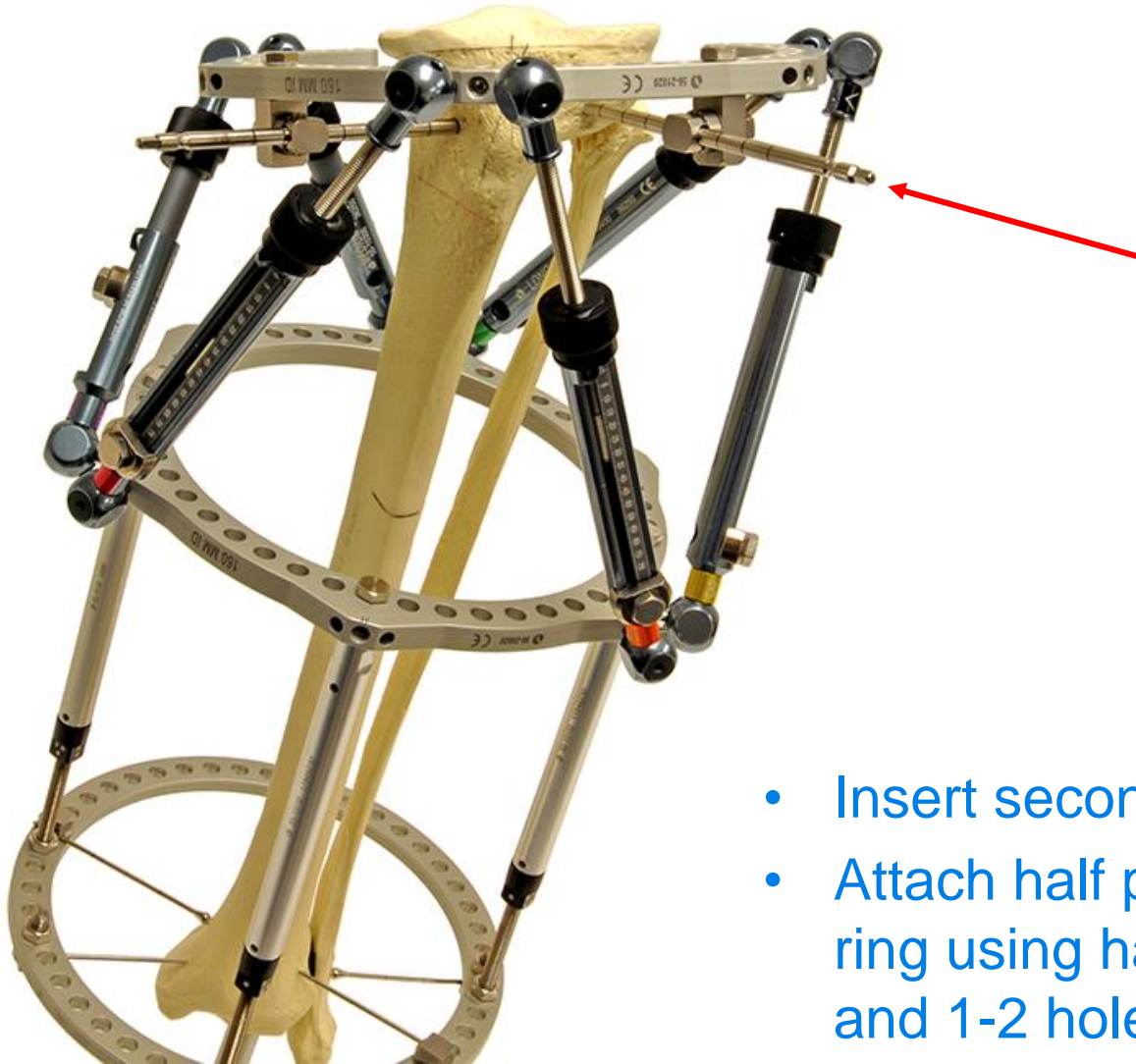
Frame alignment

- Check frame alignment in the coronal, sagittal and horizontal planes
- Cut the ends of both wires
- Add medial and lateral telescopic rods to stabilize distal double-ring block



Proximal segment stabilization

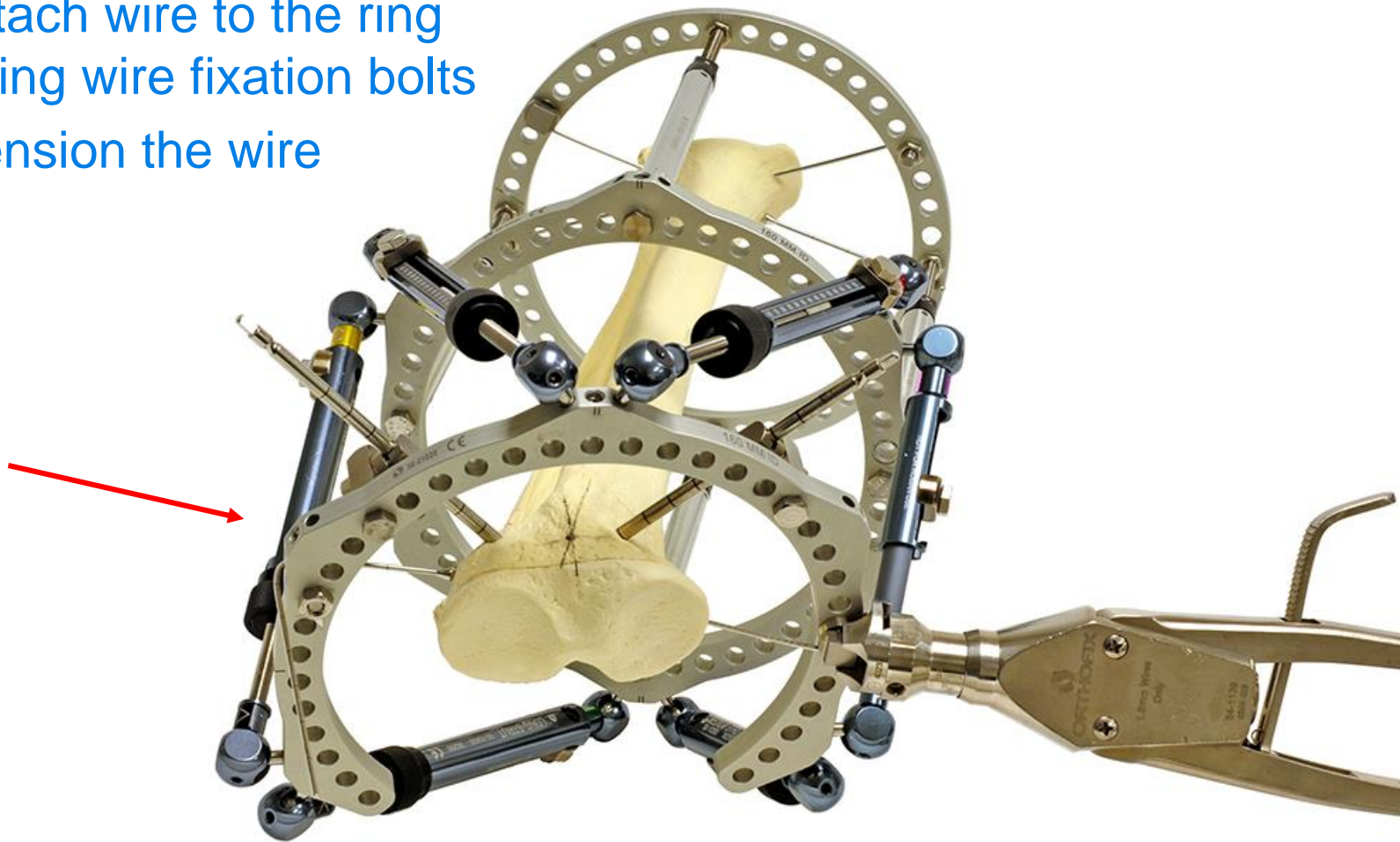
Frame Application



- Insert second proximal half pin
- Attach half pin to the proximal ring using half pin fixation bolt and 1-2 hole cube

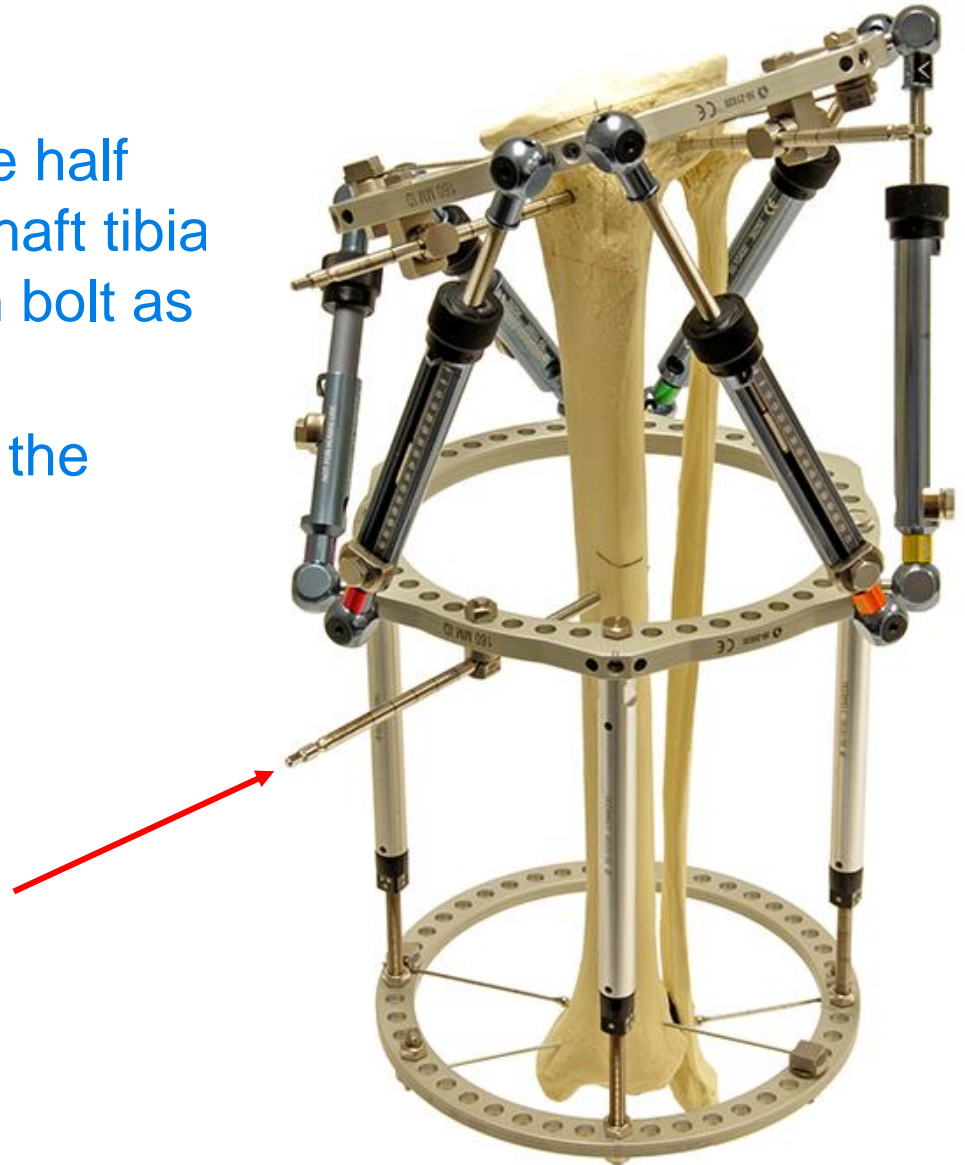
Proximal segment stabilization

- Insert horizontal proximal tibial olive wire
- Attach wire to the ring using wire fixation bolts
- Tension the wire



Distal segment stabilization

- Insert the medial face half pin through the midshaft tibia using half pin fixation bolt as a guide
- Attach the half pin to the distal TL-Hex ring



Distal segment stabilization

- Insert *optional* midshaft horizontal tibial wire
- Attached wire to the distal TL-Hex ring using two wire fixation bolts
- Tension the wire



Confirm frame alignment





OSTEOTOMY

Tibial osteotomy/fibular resection



- Temporary remove struts 1 and 2 to gain access to the osteotomy site
- Confirm the level of tibial osteotomy and fibular resection

Tibial osteotomy/fibular resection

Do not back
out the set
screw too
much



Tibial osteotomy/fibular resection



- Resect 10 mm of the fibula at the midshaft
- Perform transverse cut of the proximal tibia at the desired level
- Reconnect struts 1 and 2 to the proximal ring

Alternatively: fibula may be fixed only distally and not osteotomized

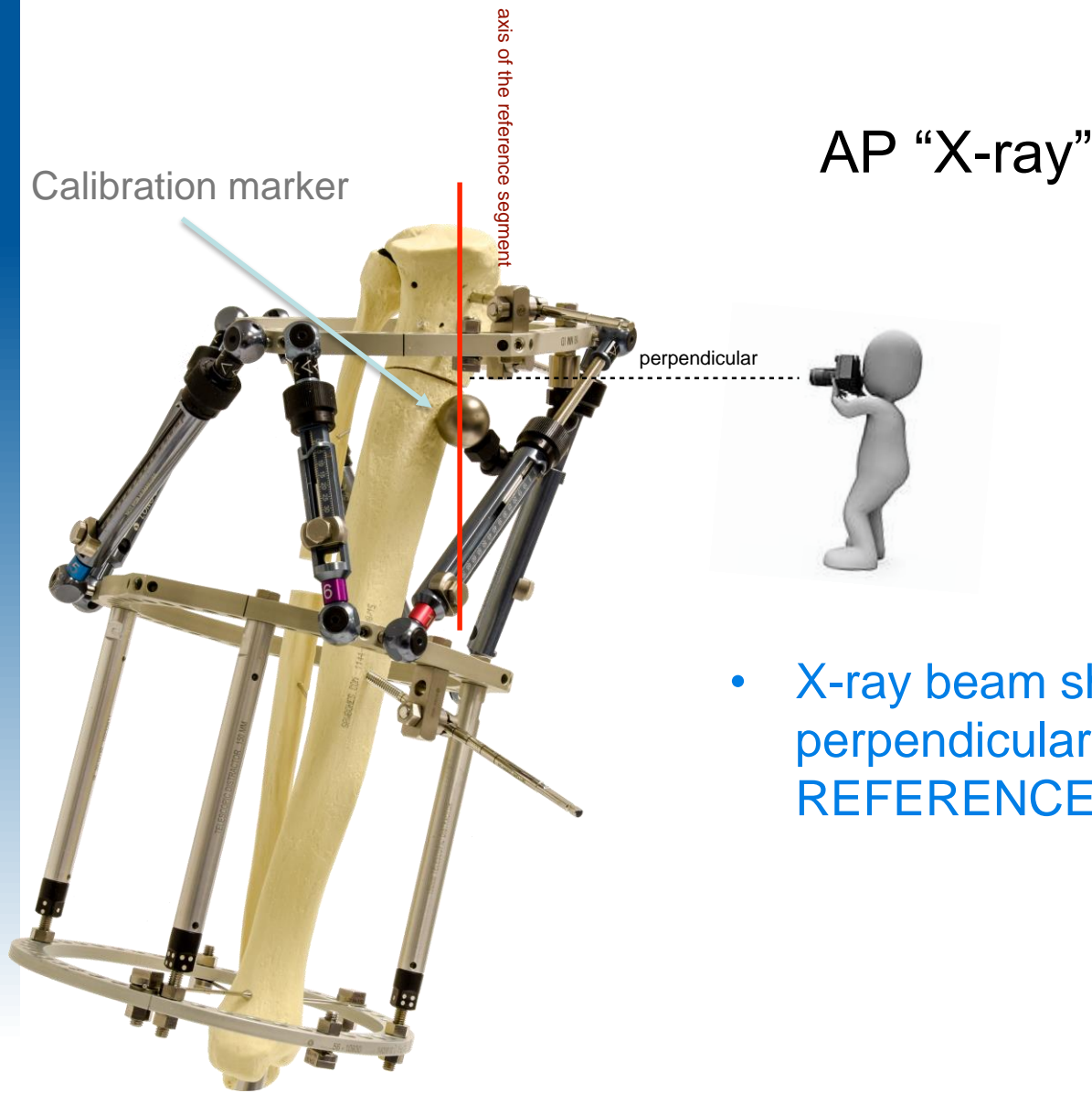
Tibial osteotomy/fibular resection



End of surgery



Take postoperative “x-rays”



AP “X-ray”

- X-ray beam should be perpendicular to the **AXIS** of the **REFERENCE SEGMENT**

Take postoperative “x-rays”

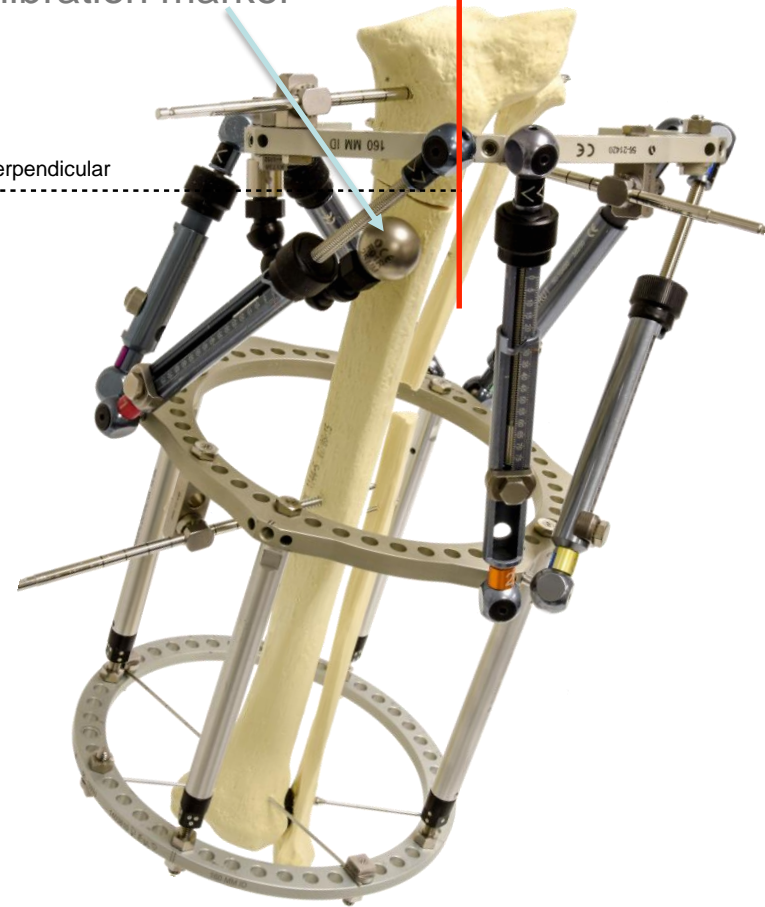
LAT “X-ray”



Calibration marker

perpendicular

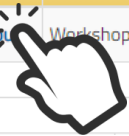
axis of the reference segment



- X-ray beam should be perpendicular to the **AXIS** of the **REFERENCE SEGMENT**

Open your case...

Patient Blount	PB	Male	27/03/2019	1				
Frame ID								
A								
Case ID	Case Description	Status	Case Type	Bone Type	Side	Planning Created ↓	Days Left	Actions
Blou	Workshop	Active	Deformity	Tibia	Left	27/03/2019	0	



Case Data Deformity Parameters **Mounting Parameters** Schedule Report

Case Type * Deformity Fracture Trial

Patient ID *

Frame ID * A B C D E F G H I

Case ID *

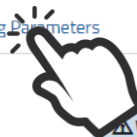
Case Description

Planning Created *

Warning

You are not allowed to enter or provide any information that allows, directly or indirectly, the identification of your patient (e.g. name, birth date, address, email-address, phone number etc.). Please use only an internal confidential code to identify your patient record when using this Software.

Notes History ▶



Open your case...

Case Data Deformity Parameters **Mounting Parameters** Schedule Report

Scenario: PREOPERATIVE POSTOPERATIVE **HEXAPOD**

Proximal Support: **S/B Open Posteriorly Ring - 160mm** Distal Support: **Full Ring - 160mm**

AP View

Reference Ring Translation (mm): 0 (Medial/Lateral)

Reference Ring Angle (deg): 0 (Medial Side Down/Medial Side Up)

Lateral View

Reference Ring Translation (mm): 30 (Anterior/Posterior)

Reference Ring Angle (deg): 0 (Anterior Side Down/Anterior Side Up)

Axial View

Reference Ring Rotation (deg): 0 (External/Internal)

Reference Ring Position (mm): 26 (Proximal/Distal)

Rings Position Relative To: Deformity Apex Osteotomy/Fracture Level

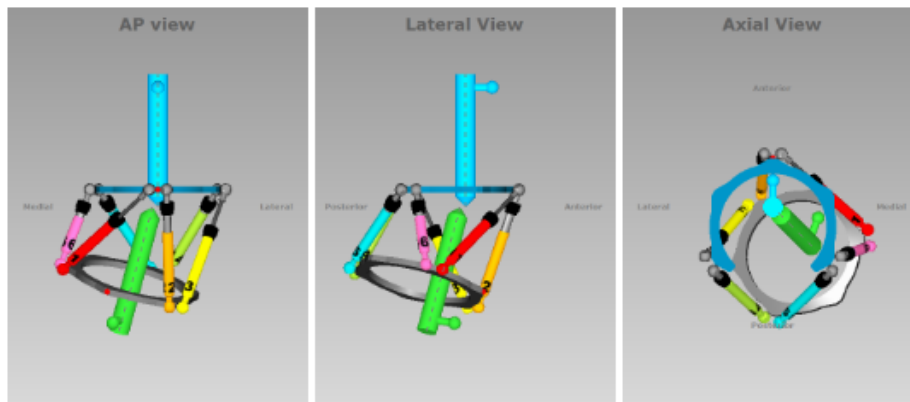
Osteotomy Site Translation (mm): 0 (Medial/Lateral)

Second Ring Position (mm): 120

Anterior/Posterior

Insert Strut lengths

Total (mm)	Strut 1: 210	Strut 2: 187	Strut 3: 204	Strut 4: 162	Strut 5: 161	Strut 6: 121
Size	Long	Long	Long	Long	Long	Medium
Acute	0	28	0	4	3	7
Gradual	29	80	35	80	80	35



Switch to Postoperative

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Proximal Support
5/8 Open Posteriorly Ring - 160mm

Distal Support
Full Ring - 160mm

Rings **ON** OFF

Additional Measurements Tools

Brightness/Contrast

Reference Ring Parameters

	AP	Lateral
Translation (mm)	0 Lateral	30 Posterior
Angle (deg)	0 Medial Side Down	0 Anterior Side Down

Axial View

Rotation (deg) 0 Internal

Rings Position Relative To Osteotomy / Fracture Level

Reference Ring Position (mm) 26 Proximal

Second Ring Position (mm) 120

Actions to NEXT steps

Help back to

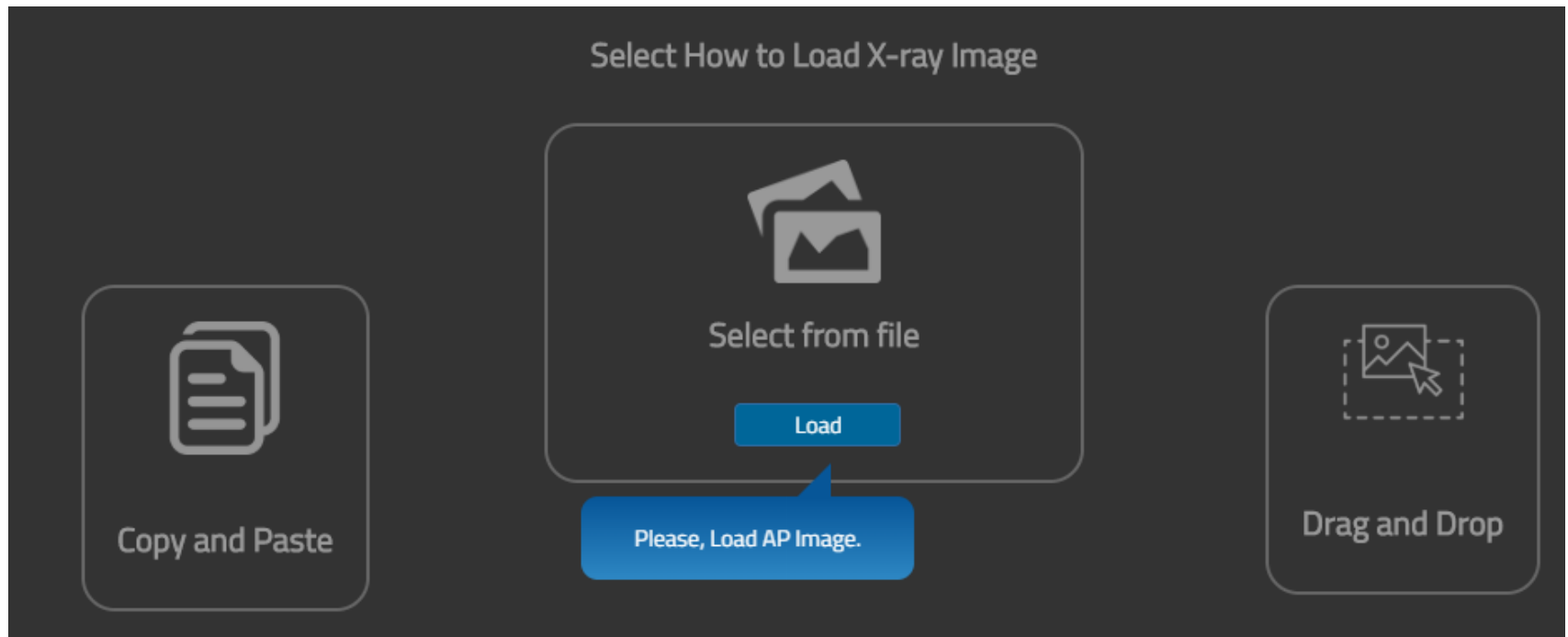
MEDIAL LATERAL

PREOPERATIVE POST-OPERATIVE

GUIDE

Calibration Ratio: 0.97

Load postoperative AP image

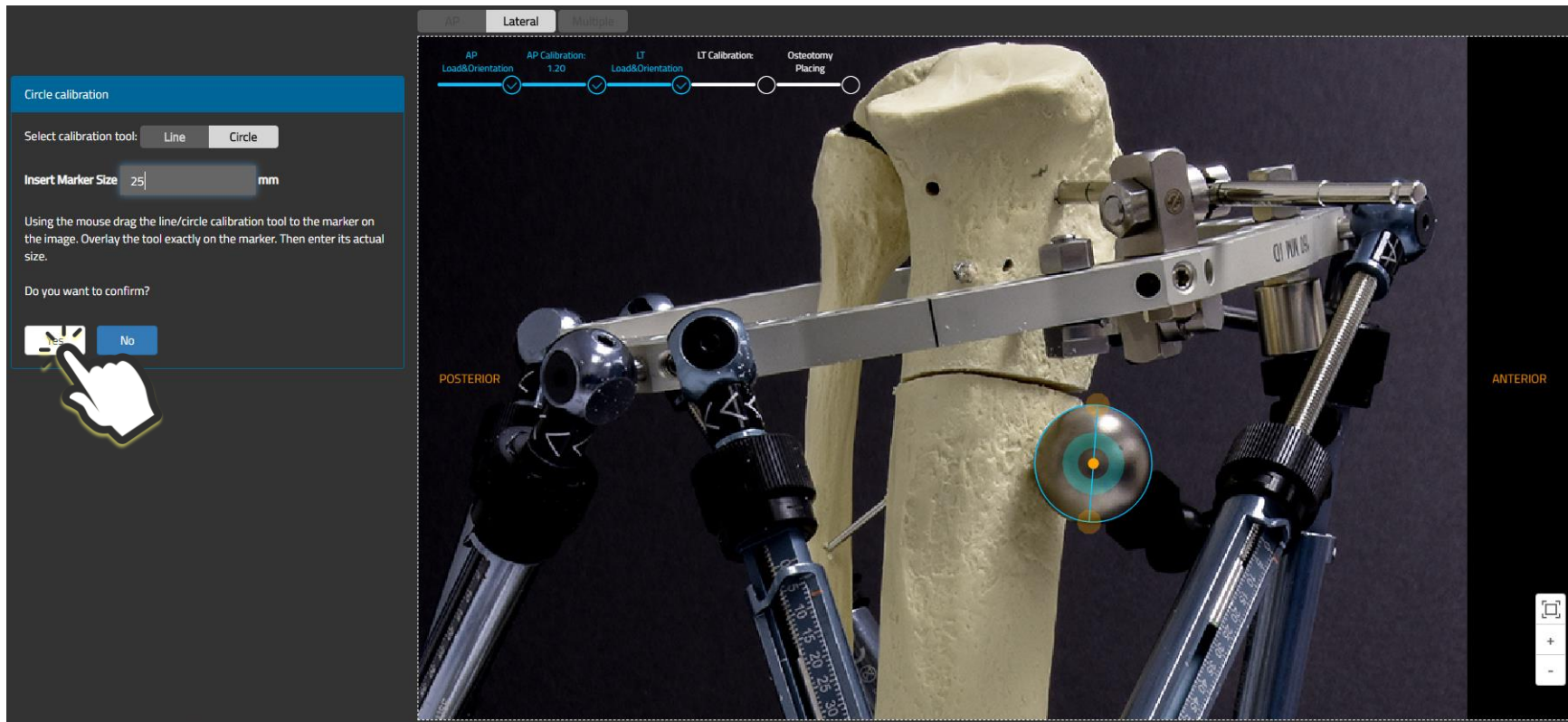


Calibrate postoperative x-rays



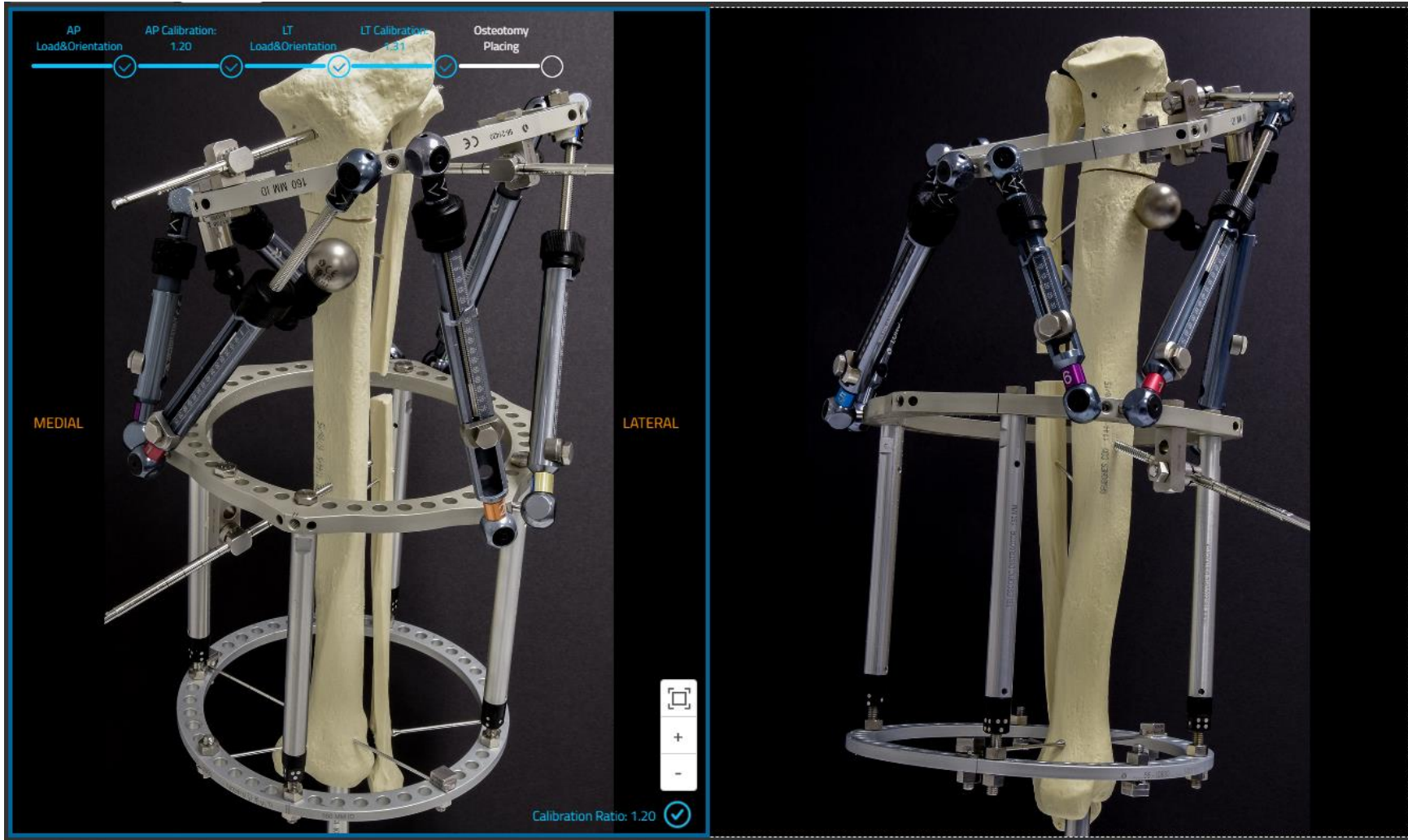
AP image

Calibrate postoperative x-rays



Lateral image

Calibration Complete



Osteotomy

AP View
Image loaded: Blounts-AP-postop .jpg

Image Editing Tools
Brightness/Contrast

Actions to NEXT steps
Calibration tools unavailable on multiple view

Osteotomy	
Lock to go next	

Help
In order to proceed to Deformity Analysis both x-ray images should be uploaded and calibrated in each view.

AP Lateral Multiple

AP Load&Orientation ✓ AP Calibration: 1.20 ✓ LT Load&Orientation ✓ LT Calibration: 1.21 ✓ Osteotomy Placing ○

MEDIAL LATERAL

Calibration Ratio: 1.20 ✓

Osteotomy

Lateral View

Image loaded: **Biounts-LAT-postop.jpg**

Image Editing Tools ON OFF

Brightness/Contrast ▼

Actions to NEXT steps

Calibration tools unavailable on multiple view

Osteotomy	Place
Lock to go next	🔒

Help

Place Osteotomy on both views in order to overlap the real one on the images to permit consistent coordination. At the end Lock to go next.

Help ⌵

AP Lateral Multiple

AP Load&Orientation ✓ AP Calibration: 1.20 ✓ LT Load&Orientation ✓ LT Calibration: 1.31 ✓ Osteotomy Placing ✓

POSTERIOR ANTERIOR

Calibration Ratio: 1.31 ✓

Confirm Osteotomy

Lateral View

Image loaded: `Blounts-LAT-postop.jpg`

Image Editing Tools ON OFF

Brightness/Contrast

Actions to NEXT steps

Calibration tools unavailable on multiple view

Osteotomy	<input type="button" value="Place"/>
Lock to go next	<input type="button" value="Lock"/>

Help

Place Osteotomy on both views in order to overlap the real one on the images to permit consistent coordination. At the end Lock to go next.

AP Lateral Multiple

AP Load&Orientation ✓ AP Calibration: 1.20 ✓ LT Load&Orientation ✓ LT Calibration: 1.31 ✓ Osteotomy Placing ✓

Osteotomy

POSTERIOR ANTERIOR

Calibration Ratio: 1.31 ✓

Continue to Deformity Analysis

Lateral View

Image loaded: Blounts-LAT-postop.jpg

Image tools are hidden until tab is locked.

Actions to NEXT steps

Calibration tools unavailable on multiple view

Osteotomy

Lock to go next

Help

Place Osteotomy on both views in order to overlap the real one on the images to permit consistent coordination. At the end Lock to go next.

AP Lateral Multiple

AP Load&Orientation ✓ AP Calibration: 1.20 ✓ LT Load&Orientation ✓ LT Calibration: 1.31 ✓ Osteotomy Placing ✓

POSTERIOR ANTERIOR

Calibration Ratio: 1.31 ✓

Deformity Parameters

Bone Segment Axes ON OFF

Dowels ON OFF

Additional Measurements Tools

Brightness/Contrast ▼

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	20 Medial	17 Posterior

Axial View

Rotation (deg) 20 ● External
● Internal

Translation (mm) 0 ● Short
● Long

Suggested Bone Length (mm) **10 Lengthening**

Actions to NEXT steps

Deformity Analysis 🔒

Help ⌵

AP Lateral Multiple

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	20 Medial	17 Posterior

Axial View

Rotation (deg) 20 ● External
● Internal

Translation (mm) 0 ● Short
● Long

Suggested Bone Length (mm) **10 Lengthening**

Confirm Deformity Analysis

Bone Segment Axes ON OFF

Dowels ON OFF

Additional Measurements Tools

Brightness/Contrast

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	20 Medial	17 Posterior

Axial View

Rotation (deg) 20 External Internal

Translation (mm) 0 Short Long

Suggested Bone Length (mm) 10 Lengthening

Actions to NEXT steps

Deformity Analysis

Help

AP Lateral Multiple

AP view labels: Apex, Reference, Moving

Lateral view labels: Apex, Reference, Moving

POSTERIOR ANTERIOR

Hold CTRL for synchronized movement of axes

Calibration Ratio: 1.31

Continue to Correction

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Bone Segment Axes ON
Dowels OFF

Deformity Parameters

	AP	Lateral
Angular Deformity (deg)	15 Varus	15 Procurvatum
Translation (mm)	20 Medial	17 Posterior

Axial View

Rotation (deg) 20 External Internal

Translation (mm) 0 Short Long

Suggested Bone Length (mm) 10 Lengthening

Actions to NEXT steps

Deformity Analysis

Help

POSTERIOR ANTERIOR

Calibration Ratio: 1.31

Correction

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Dowels ON OFF
Osteotomy Line ON OFF
EOC Analysis ON OFF

Additional Measurements Tools

Brightness/Contrast

End of Correction Parameters

	AP	Lateral
Over Angulation (deg)	0 Valgus	0 Procurvatum
Over Translation (mm)	0 Medial	0 Anterior

Axial View

Rotation (deg) 0 External Internal

Suggested Bone Length (mm) 10 Lengthening

Bone Length (mm) 0 Shortening Lengthening

Help

POSTERIOR ANTERIOR

Callout Ratio: 1.31

Correction – Bone Lengthening

EOC Analysis **ON** OFF ↻

Additional Measurements Tools

Brightness/Contrast ▾

End of Correction Parameters

	AP	Lateral
Over Angulation (deg)	0 Valgus	0 Procurvatum
Over Translation (mm)	0 Medial	0 Anterior

Axial View

Rotation (deg) 0 External Internal

Suggested Bone Length (mm) 10 Lengthening

Bone Length (mm) 20 Shortening Lengthening

Lock to go next

Deformity Parameters ▾

Help

AP Lateral Multiple

POSTERIOR ANTERIOR

Ratio: 1.31

Confirm Correction

EOC Analysis **ON** OFF ↻

Additional Measurements Tools

Brightness/Contrast ▾

End of Correction Parameters

	AP	Lateral
Over Angulation (deg)	0 Valgus	0 Procurvatum
Over Translation (mm)	0 Medial	0 Anterior

Axial View

Rotation (deg) 0 External Internal

Suggested Bone Length (mm) 10 Lengthening

Bone Length (mm) 20 Shortening Lengthening

Lock to go next

Deformity Parameters ▾

Help

AP Lateral Multiple

POSTERIOR ANTERIOR

Ratio: 1.31

Continue to Mounting

AP Lateral Multiple

Dowels ON
Osteotomy Line ON
EOC Analysis ON

End of Correction Parameters

	AP	Lateral
Over Angulation (deg)	0	0
Valgus		Procurvatum
Over Translation (mm)	0	0
	Medial	Anterior

Axial View

Rotation (deg) External Internal

Suggested Bone Length (mm) **10 Lengthening**

Bone Length (mm) Shortening Lengthening

Lock to go next

Deformity Parameters

Help

POSTERIOR

POSTERIOR

Ratio: 1.31

Mounting

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Proximal Support
5/8 Open Posteriorly Ring - 160mm

Distal Support
Full Ring - 160mm

Rings ON OFF

Sync Rings ON OFF

Additional Measurements Tools

Brightness/Contrast

Reference Ring Parameters

	AP	Lateral
Translation (mm)	0 Medial	0 Posterior
Angle (deg)	0 Medial Side Down	0 Anterior Side Down

Axial View

Rotation (deg) External Internal

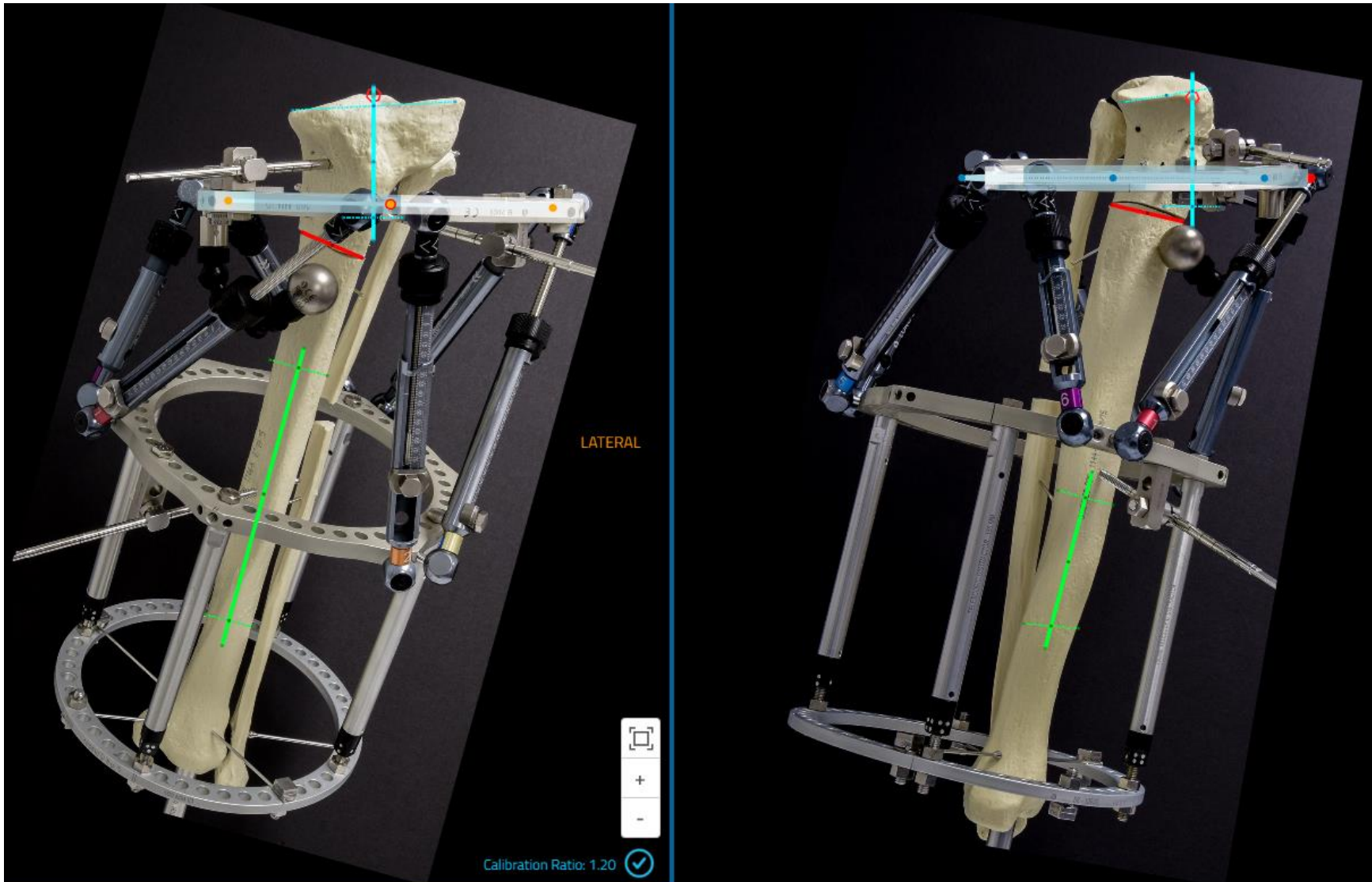
Rings Position Relative To Osteotomy / Fracture Level
Reference Ring Position (mm) **50 Proximal**

Help

POSTERIOR

Calibration Ratio: 1.31

Align ring templates with the x-ray images



Align the Ring Orientation Tab with the x-ray images

Proximal Support
5/8 Open Posteriorly Ring - 160mm

Distal Support
Full Ring - 160mm

Rings ON OFF

Sync Rings ON OFF

Additional Measurements Tools

Brightness/Contrast

Reference Ring Parameters

	AP	Lateral
Translation (mm)	8 Lateral	42 Posterior
Angle (deg)	1 Medial Side Up	0 Anterior Side Down

Axial View

Rotation (deg) 2 External Internal

Rings Position Relative To Osteotomy / Fracture Level
Reference Ring Position (mm) 20 Proximal

Help

AP Lateral Multiple

MEDIAL LATERAL

Calibration Ratio: 1.20

Mounting

Proximal Support
5/8 Open Posteriorly Ring - 160mm

Distal Support
Full Ring - 160mm

Rings ON OFF

Sync Rings ON OFF

Additional Measurements Tools

Brightness/Contrast

Reference Ring Parameters

	AP	Lateral
Translation (mm)	8 Lateral	42 Posterior
Angle (deg)	1 Medial Side Up	0 Anterior Side Down

Axial View

Rotation (deg) 2 External Internal

Rings Position Relative To Osteotomy / Fracture Level
Reference Ring Position (mm) 20 Proximal

Help

MEDIAL LATERAL

Calibration Ratio: 1.20

Software will provide you with the mounting parameters

Back to TL-Hex Software

ORTHOFIX *HEX-ray* Patient ID: Patient B... Case ID: Blount Case Type: Deformity Bone Type: Tibia Ref Segment: Proximal Side: Left

1 Image Tools 2 Deformity Analysis 3 Correction 4 Mounting

AP Lateral Multiple

Proximal Support
5/8 Open Posteriorly Ring - 160mm

Distal Support
Full Ring - 160mm

Rings ON OFF

Sync Rings ON OFF

Additional Measurements Tools

Brightness/Contrast

Reference Ring Parameters

	AP	Lateral
Translation (mm)	8 Lateral	42 Posterior
Angle (deg)	1 Medial Side Up	0 Anterior Side Down

Axial View

Rotation (deg) 2 External Internal

Rings Position Relative To Osteotomy / Fracture Level
Reference Ring Position (mm) 20 Proximal

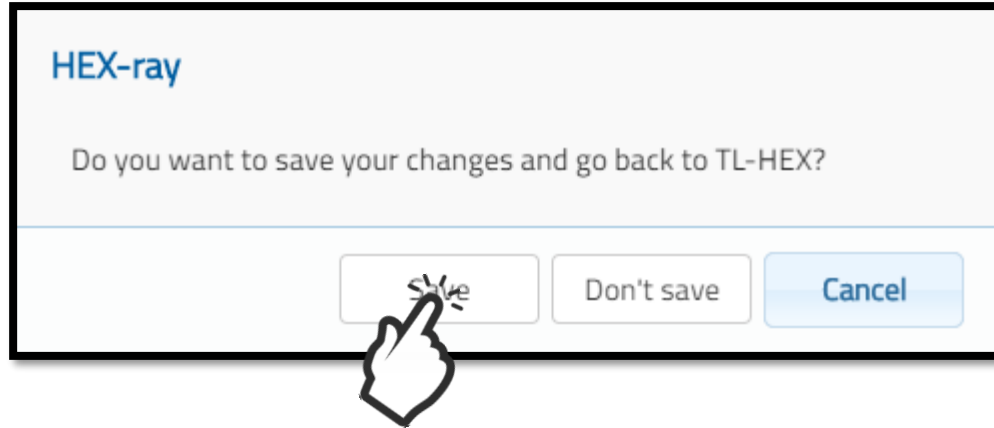
Help

MEDIAL LATERAL

Calibration Ratio: 1.20

POSTOPERATIVE GUIDE

Back to TL-Hex Software



Postoperative mounting parameters

Case Data Deformity Parameters **Mounting Parameters** Schedule Report

Scenario * ? PREOPERATIVE POSTOPERATIVE

Proximal Support * ? Distal Support * ?

5/8 Open Posteriorly Ring - 160mm **Full Ring - 160mm**

AP View ?

Reference Ring Translation (mm)
8 Medial Lateral

Reference Ring Angle (deg)
1 Medial Side Down Medial Side Up

Lateral View ?

Reference Ring Translation (mm)
42 Anterior Posterior

Reference Ring Angle (deg)
0 Anterior Side Down Anterior Side Up

Axial View ?

Reference Ring Rotation (deg)
2 External Internal

Software keeps strut sizes from your preoperative planning

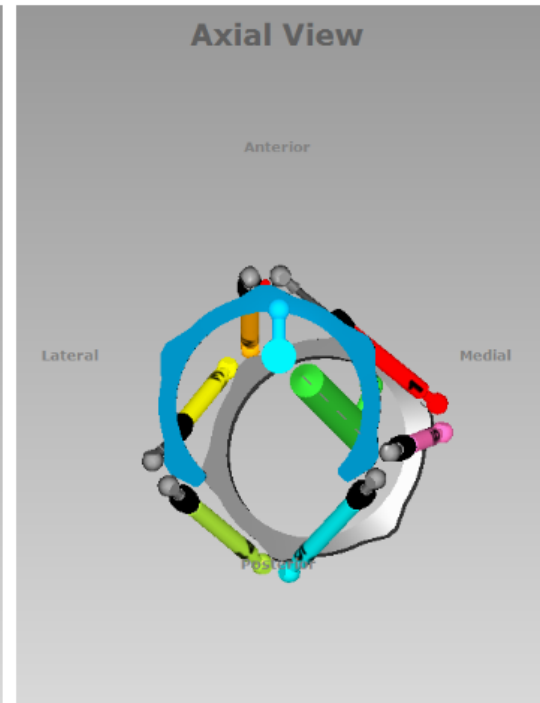
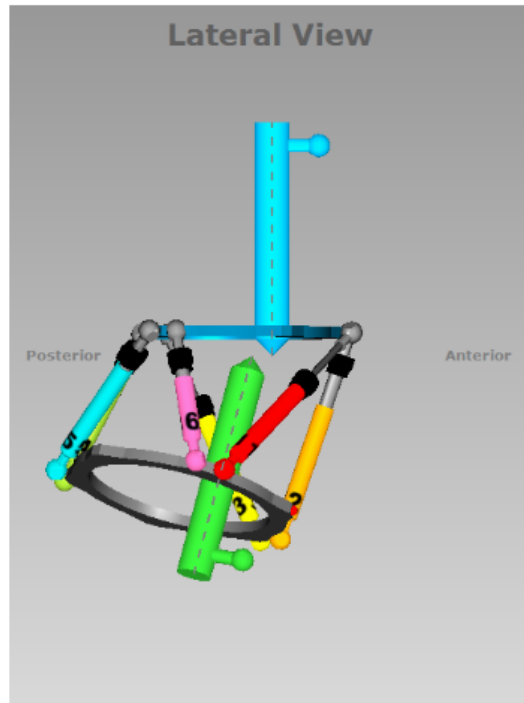
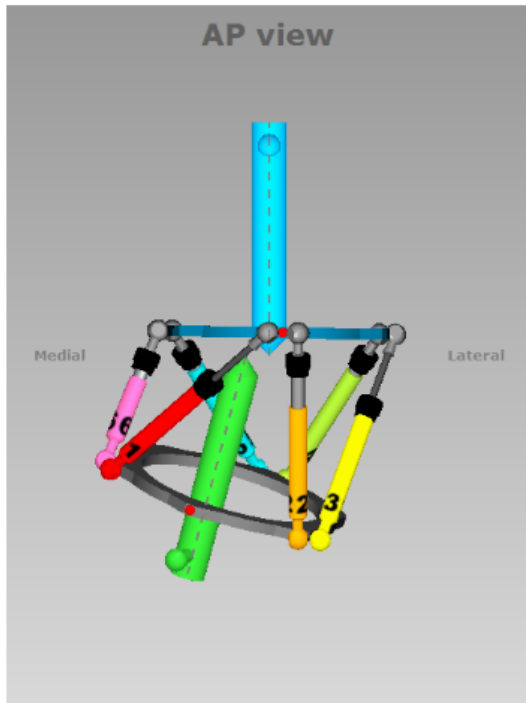
Insert Strut lengths

	Strut 1: 209	Strut 2: 186	Strut 3: 203	Strut 4: 162	Strut 5: 161	Strut 6: 121
Total (mm)						
Size	Long	Long	Long	Long	Long	Medium
Acute	0	28	0	4	3	7
Gradual	29	80	35	80	80	35

Postoperative mounting parameters

Insert Strut lengths

Total (mm)	Strut 1: 209	Strut 2: 186	Strut 3: 203	Strut 4: 162	Strut 5: 161	Strut 6: 121
Size	Long	Long	Long	Long	Long	Medium
Acute	0	28	0	4	3	7
Gradual	29	80	35	80	80	35





Case Data

Deformity Parameters

Mounting Parameters

Schedule

Report



DEFORMITY CORRECTION

Schedule

Surgery Date *

28/03/2019



Latency Period (days) * ?

5

Treatment Start Date: * 2 aprile 2019

Correction Time(s): *

00:00	01:00	02:00	03:00
04:00	05:00	06:00	07:00
08:00	09:00	10:00	11:00
12:00	13:00	14:00	15:00
16:00	17:00	18:00	19:00
20:00	21:00	22:00	23:00

Prescription Notes

0/250

Apply Lengthening/Shortening First ?

Calculate By *

Daily Correction Rate (mm/day) ▾

1

Calculate



Calculation Results

Daily Correction Rate (mm/day)	0,0
Angular Max Speed (deg/day)	0,0
Rotate Max Speed (deg/day)	0,0
Days Of Correction	0

Schedule

Surgery Date *

28/03/2019



Latency Period (days) * ?

5

Treatment Start Date: * 2 aprile 2019

Correction Time(s): *

00:00	01:00	02:00	03:00
04:00	05:00	06:00	07:00
08:00	09:00	10:00	11:00
12:00	13:00	14:00	15:00
16:00	17:00	18:00	19:00
20:00	21:00	22:00	23:00

Prescription Notes

Apply Lengthening/Shortening First ?

Calculate By *

Daily Correction Rate (mm/day)

1

Calculate

Calculation Results

Daily Correction Rate (mm/day)	1,0
Angular Max Speed (deg/day)	0,6
Rotate Max Speed (deg/day)	0,6
Days Of Correction	34



Report

Case Data

Deformity Parameters

Mounting Parameters

Schedule

Report

Please review all information before completing and printing the prescription to ensure that it is accurate.

Select Print Option:

Report

Print ?

Prescription for Patient ?

Strut Length A-Acute / G-Gradual

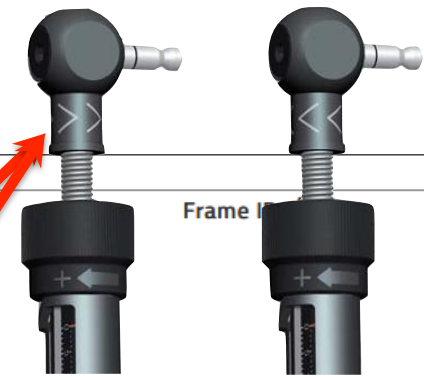
No	Day	Date-Time	Strut 1 : Red			Strut 2 : Orange			Strut 3 : Yellow			Strut 4 : Blue			Strut 5 : Blue			Strut 6 : Purple			Actions	
			Size	A	G	Size	A	G	Size	A	G	Size	A	G	Size	A	G	Size	A	G		
0	mar	POSTOPERATIVE	Long	0	29	Long	28	80	Long	0	35	Long	4	80	Long	3	80	Medium	7	35		
1	mar	02/04/2019 08:00	Long	0	30	Long	28	80	Long	0	35	Long	4	80	Long	3	80	Medium	7	35		
2	mar	02/04/2019 14:00	Long	0	30	Long	28	80	Long	0	36	Long	4	80	Long	3	80	Medium	7	36		
3	mer	03/04/2019 08:00	Long	0	30	Long	0	53	Long	0	36	Long	4	80	Long	3	80	Medium	7	33		
4	mer	03/04/2019 14:00	Long	0	31	Long	0	53	Long	0	36	Long	4	79	Long	3	79	Medium	7	32		
5	gio	04/04/2019 08:00	Long	0	31	Long	0	53	Long	0	36	Long	4	79	Long	3	79	Medium	7	31		
6	gio	04/04/2019 14:00	Long	0	32	Long	0	53	Long	0	37	Long	4	79	Long	3	79	Medium	7	30		
7	ven	05/04/2019 08:00	Long	0	32	Long	0	53	Long	0	37	Long	4	79	Long	3	78	Medium	7	29		
8	ven	05/04/2019 14:00	Long	0	33	Long	0	53	Long	0	37	Long	4	78	Long	3	78	Medium	7	28		
9	sab	06/04/2019 08:00	Long	0	33	Long	0	53	Long	0	37	Long	4	78	Long	3	78	Medium	7	27		
10	sab	06/04/2019 14:00	Long	0	33	Long	0	53	Long	0	38	Long	4	78	Long	3	78	Medium	7	26		
11	dom	07/04/2019 08:00	Long	0	34	Long	0	53	Long	0	38	Long	4	77	Long	3	77	Medium	7	25		
12	dom	07/04/2019 14:00	Long	0	34	Long	0	53	Long	0	38	Long	4	77	Long	3	77	Medium	7	25		
13	lun	08/04/2019 08:00	Long	0	35	Long	0	54	Long	0	38	Long	4	77	Long	3	76	Medium	7	23		
14	lun	08/04/2019 14:00	Long	0	35	Long	0	54	Long	0	38	Long	4	77	Long	3	76	Medium	7	22		
15	mar	09/04/2019 08:00	Long	0	36	Long	0	54	Long	0	39	Long	4	76	Long	3	76	Medium	7	21		
16	mar	09/04/2019 14:00	Long	0	36	Long	0	54	Long	0	39	Long	4	76	Long	3	76	Medium	7	20		
17	mer	10/04/2019 08:00	Long	0	37	Long	0	54	Long	0	39	Long	4	76	Long	3	75	Medium	7	19		
18	mer	10/04/2019 14:00	Long	0	37	Long	0	54	Long	0	39	Long	4	75	Long	3	75	Medium	7	18		
19	gio	11/04/2019 08:00	Long	0	37	Long	0	54	Long	0	40	Long	4	75	Long	3	74	Medium	7	17		
20	gio	11/04/2019 14:00	Long	0	38	Long	0	54	Long	0	40	Long	4	75	Long	3	74	Medium	7	16		
21	ven	12/04/2019 08:00	Long	0	38	Long	0	54	Long	0	40	Long	4	74	Long	3	74	Medium	7	15		

Strut Adjustment

Prescription

Dr. Nicola Gaburro
 Orthofix
 Via delle Nazioni, 9
 Bussolengo, Verona, Italy, 37012
 +390456719000,

Print date: 28/03/2019, 11:52:39
 Case ID: Blount
 Case Description: Workshop
 Patient ID: Patient Blount
 Side: Left
 Bone Type: Tibia



No	Day	Date-Time	Strut Adjustment in 'CLICKS' (a)						Strut Reference Length (b)						
			RED	ORANGE	YELLOW	GREEN	BLUE	PURPLE	RED	ORANGE	YELLOW	GREEN	BLUE	PURPLE	
			1	2	3	4	5	6	1	2	3	4	5	6	
0	mar	POSTOPERATIVE	0	0	0	0	0	0	☐	29	80	35	80	80	35
1	mar	02/04/2019 08:00	-1	0	0	0	0	1	☐	30	80	35	80	80	35
2	mar	02/04/2019 14:00	0	0	-1	1	1	1	☐	30	80	36	80	80	34
3	mer	03/04/2019 08:00	-1	0	0	0	0	3	☐	30	53	36	80	80	33
4	mer	03/04/2019 14:00	-1	0	-1	1	1	1	☐	31	53	36	79	79	32
5	gio	04/04/2019 08:00	-1	0	0	0	1	3	☐	31	53	36	79	79	31
6	gio	04/04/2019 14:00	-1	0	-1	1	0	1	☐	32	53	37	79	79	30
7	ven	05/04/2019 08:00	-1	-1	0	0	1	3	☐	32	53	37	79	78	29
8	ven	05/04/2019 14:00	-1	0	-1	1	0	1	☐	33	53	37	78	78	28
9	sab	06/04/2019 08:00	-1	0	0	0	1	3	☐	33	53	37	78	78	27
10	sab	06/04/2019 14:00	0	0	-1	1	0	1	☐	33	53	38	78	78	26
11	dom	07/04/2019 08:00	-2	0	0	1	1	2	☐	34	53	38	77	77	25
12	dom	07/04/2019 14:00	0	0	-1	0	1	1	☐	34	53	38	77	77	25
13	lun	08/04/2019 08:00	-1	-1	0	1	1	4	☐	35	54	38	77	76	23
14	lun	08/04/2019 14:00	-1	0	0	0	0	1	☐	35	54	38	77	76	22
15	mar	09/04/2019 08:00	-1	0	-1	1	1	3	☐	36	54	39	76	76	21

Deformity correction



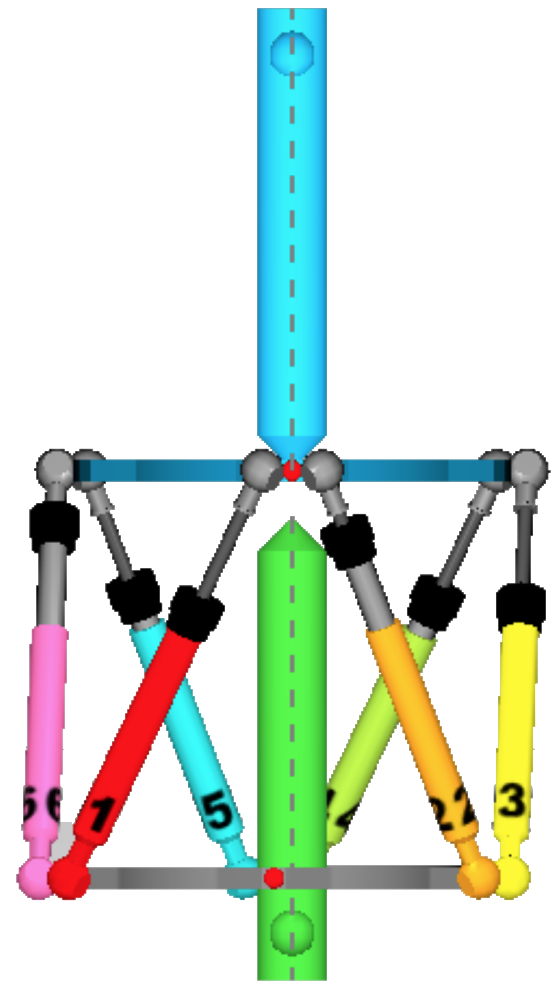
Deformity correction



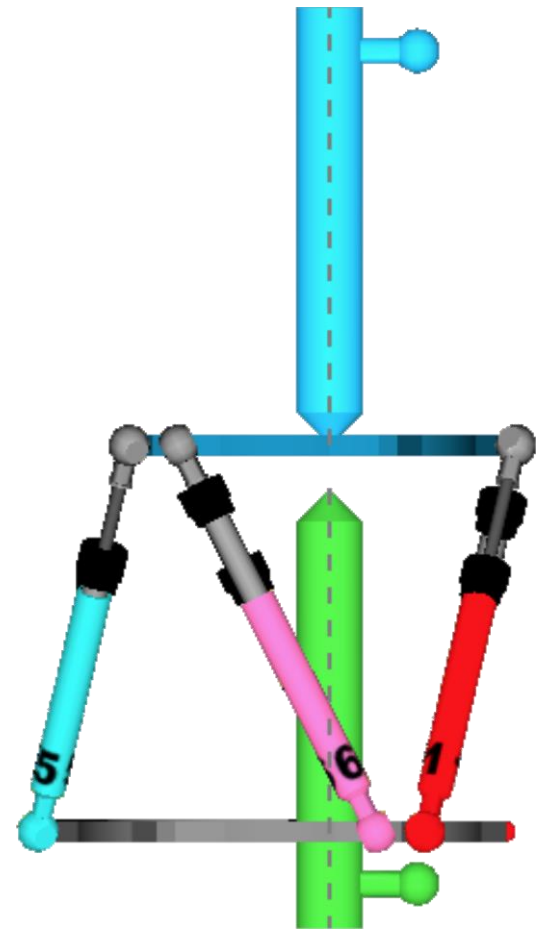
Deformity correction



Deformity correction



Deformity correction



T E X A S
SCOTTISH RITE HOSPITAL
FOR CHILDREN

