TL-HEX™
TRUELOK HEXAPOD SYSTEM

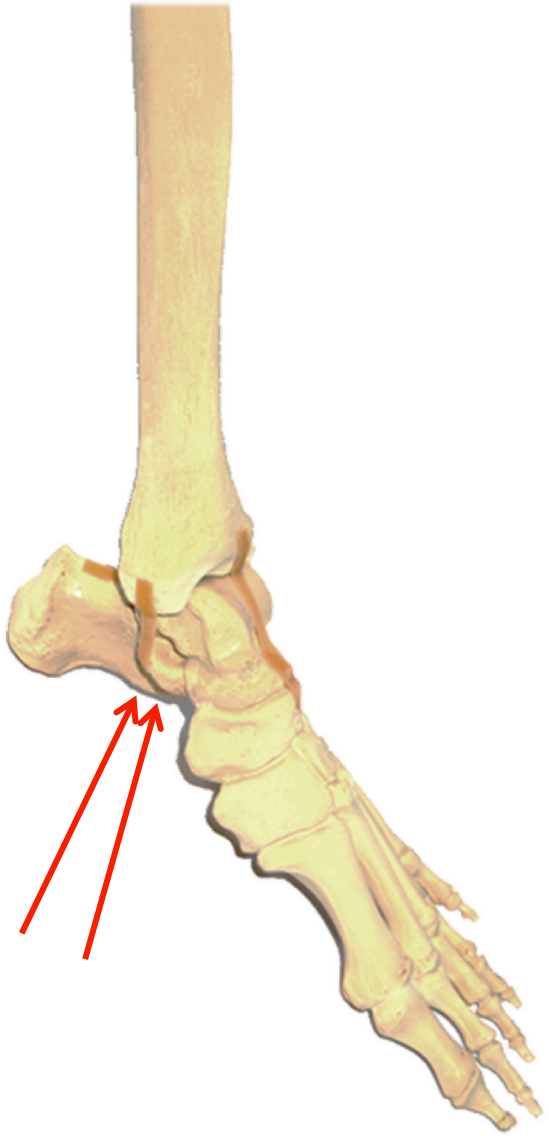
Equinus Deformity Correction

TEXAS SCOTTISH RITE HOSPITAL FOR CHILDREN

Bone Model

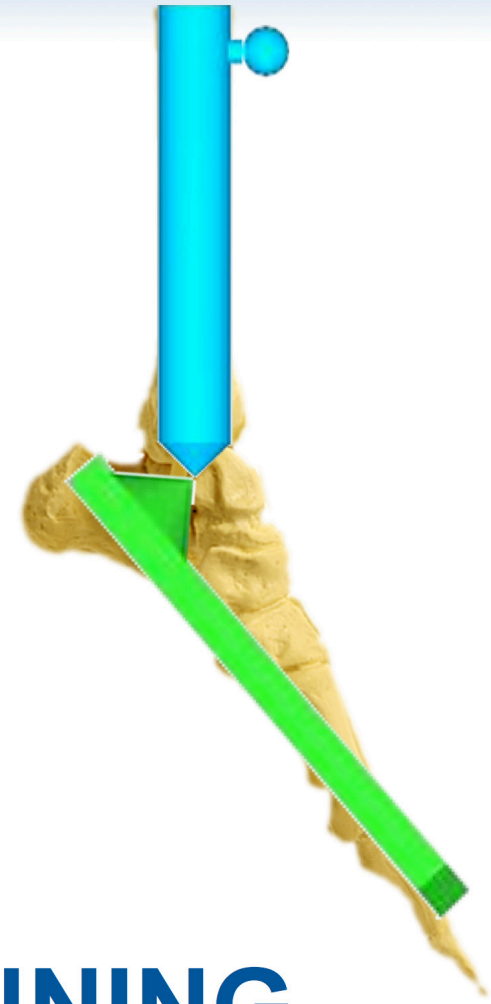
Sawbone #1132-10

Equinus Deformity



- Create equinus deformity of the foot at the ankle
- Insert 1-2 stabilization wires through the ankle to keep the foot in the equinus position

TL-HEX™
TRUELOK HEXAPOD SYSTEM



PREOPERATIVE PLANNING

Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:** _____

TL-HEX™ TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ○ Foot

Side: ○ Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ○ Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus [ ]

ML Plane Angular Deformity (deg): ○ Apex Anterior ○ Apex Posterior [ ]

Rotation (deg): ○ External ○ Internal [ ]

AP Plane Translation (mm): ○ Medial ○ Lateral [ ]

ML Plane Translation (mm): ○ Anterior ○ Posterior [ ]

Axial Translation (mm): [ ] ○ Short ○ Long

Bone Length (mm): [ ] ○ Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size [ ]

Distal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size [ ]

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral [ ]

Reference Ring ML Translation (mm): ○ Anterior ○ Posterior [ ]

Reference Ring Position (mm): ○ Proximal ○ Distal [ ]

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up [ ]

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up [ ]

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

Frame Rotation (deg): ○ External ○ Internal [ ]

STRUTS	1	2	3	4	5	6
SIZE	U S M L	U S M L	U S M L	U S M L	U S M L	U S M L
ACUTE						
GRADUAL						

www.orthofix.com

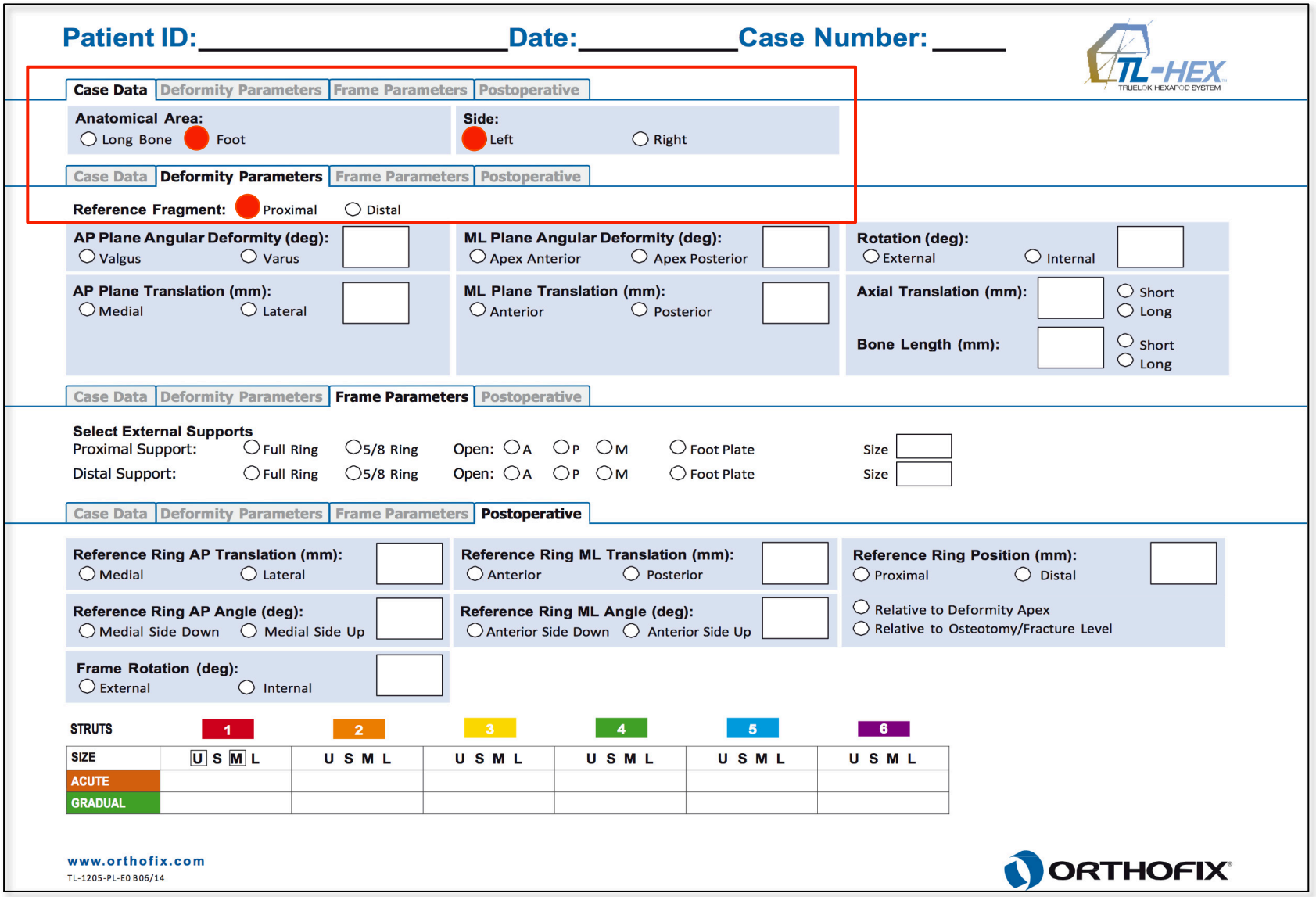
TL-1205-PL-E0 B06/14

ORTHOFIX

Case Data

- Anatomical area: ankle
- Side: left
- Bone Type: Foot
- Reference fragment: proximal
- Deformity parameters: relative to the deformity apex

Patient Data Acquisition Template



Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ○ Apex Anterior ○ Apex Posterior

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): ○ Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size

Distal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ○ Posterior

Reference Ring Position (mm): ○ Proximal ○ Distal

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

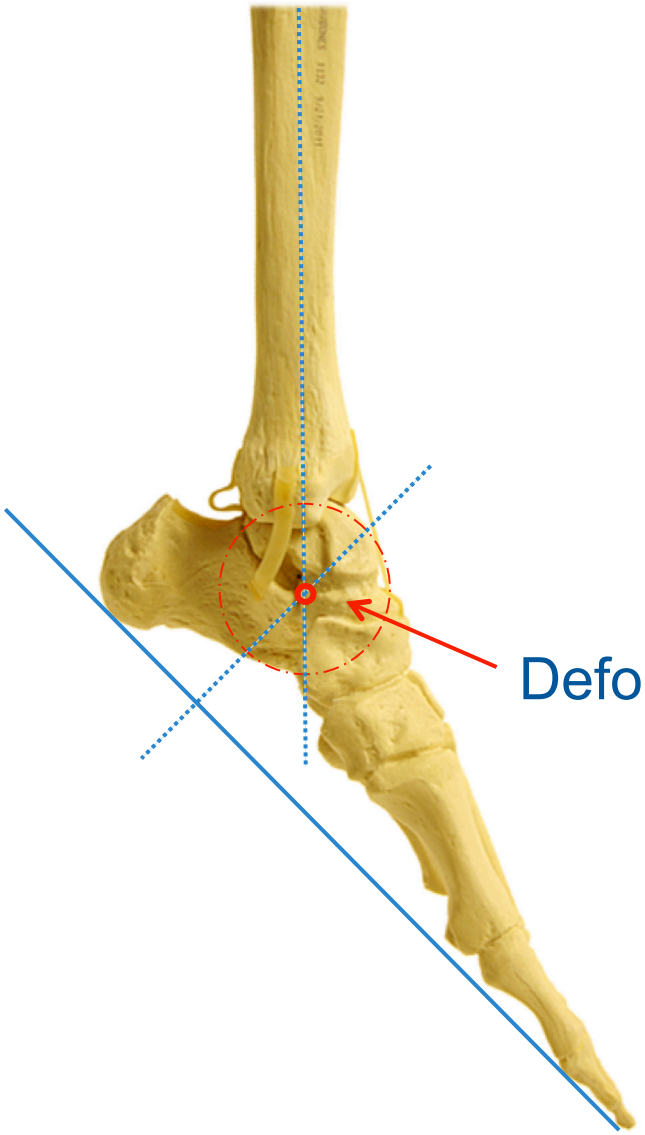
Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S M L	U S M L	U S M L	U S M L	U S M L	U S M L
ACUTE						
GRADUAL						

www.orthofix.com
TL-1205-PL-E0 B06/14

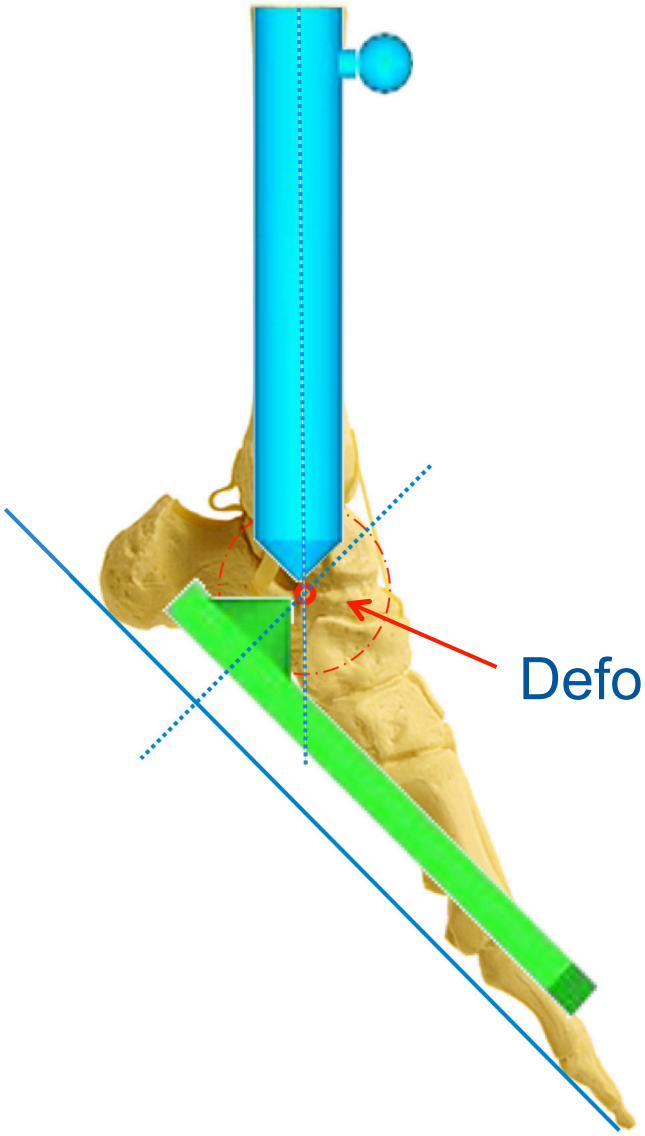
ORTHOFIX

Deformity Parameters



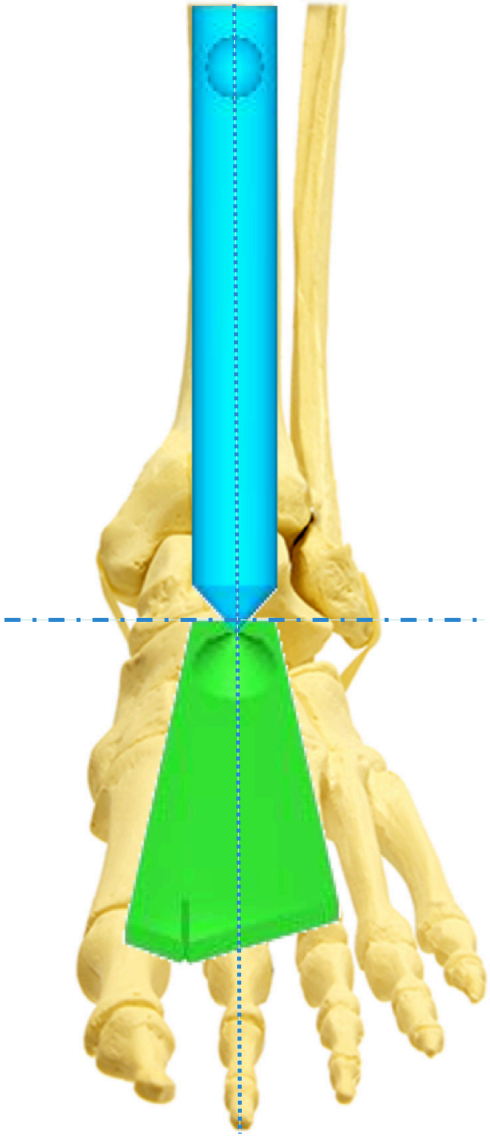
- Mark center of the talus
- Draw anatomical axis of the tibia in the ML plane
- Draw vertical axis of the talus in the ML plane

Deformity Parameters



- Reference fragment: proximal
- Deformity parameters: relative to the deformity apex
- ML plane angular deformity: apex anterior 40º
- Other deformities: none

Deformity Parameters



- Reference fragment: proximal
- Deformity parameters: relative to the deformity apex
- ML plane angular deformity: apex anterior 40º
- Other deformities: none

Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior **40**

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): ○ Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size

Distal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ○ Posterior

Reference Ring Position (mm): ○ Proximal ○ Distal

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

Frame Rotation (deg): ○ External ○ Internal

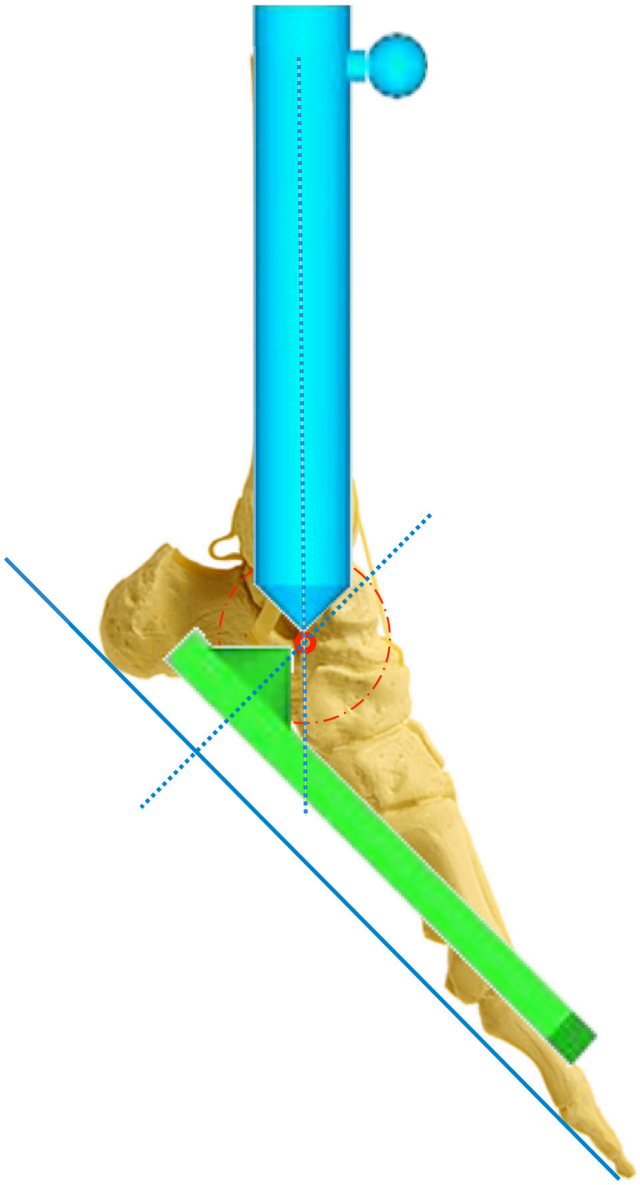
STRUTS	1	2	3	4	5	6
SIZE	U S M L	U S M L	U S M L	U S M L	U S M L	U S M L
ACUTE						
GRADUAL						

www.orthofix.com

TL-1205-PL-E0 B06/14

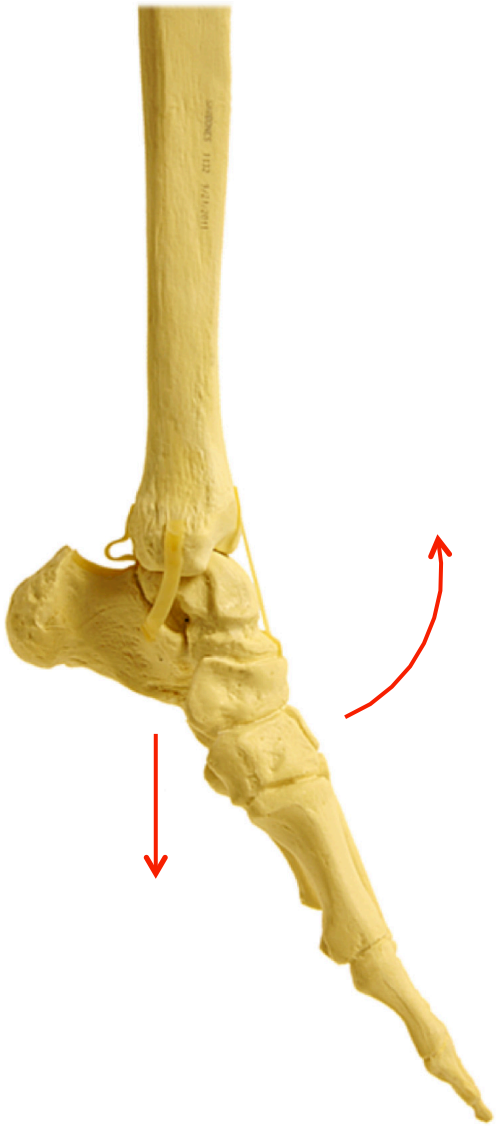
ORTHOFIX

Axial Translation



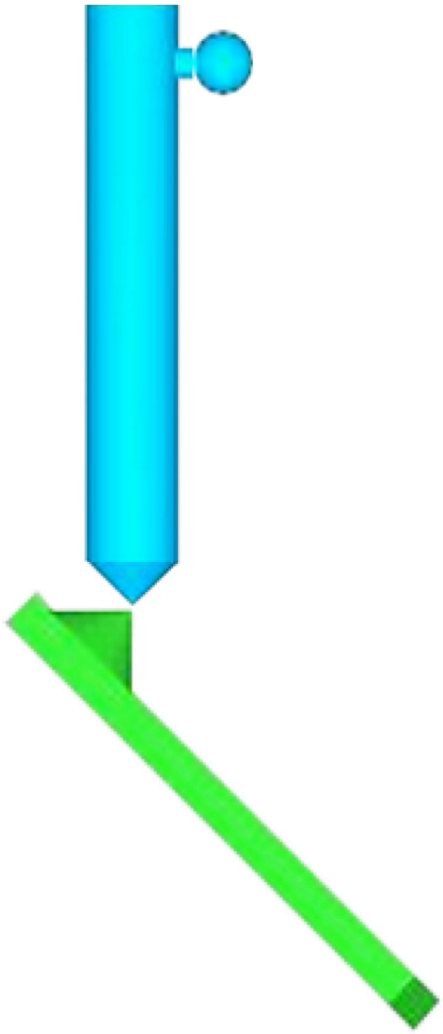
- Reference fragment: proximal
- Deformity parameters: relative to the deformity apex
- ML plane angular deformity: apex anterior 40º
- Axial translation: 0 mm
- Bone length: 0 mm

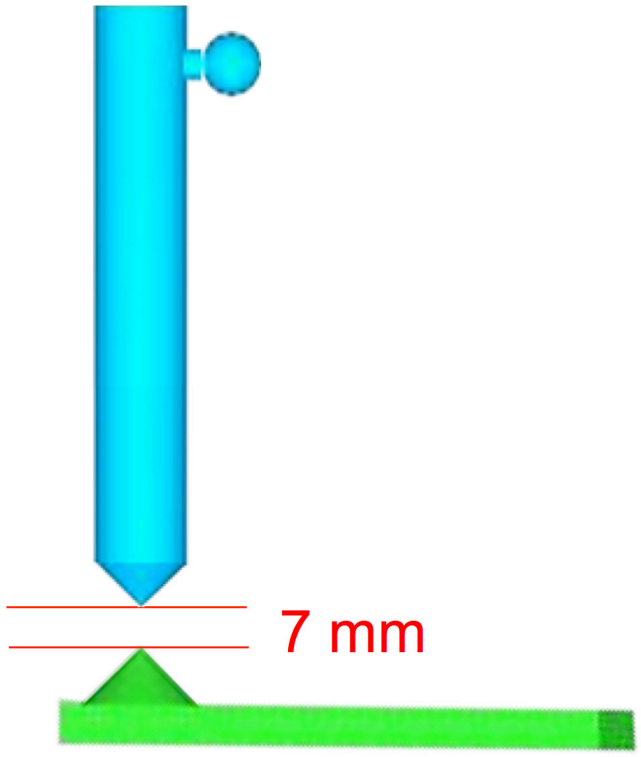
Bone Length



It is suggested to enter “Bone Length: 7 mm short” to allow for a gap between the tibia and talus and easier clearance during equinus deformity correction

Bone Length





Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior **40**

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): **7** ● Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size

Distal Support: ○ Full Ring ○ 5/8 Ring Open: ○ A ○ P ○ M ○ Foot Plate Size

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ○ Posterior

Reference Ring Position (mm): ○ Proximal ○ Distal

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S M L	U S M L	U S M L	U S M L	U S M L	U S M L
ACUTE						
GRADUAL						

www.orthofix.com
TL-1205-PL-E0 B06/14

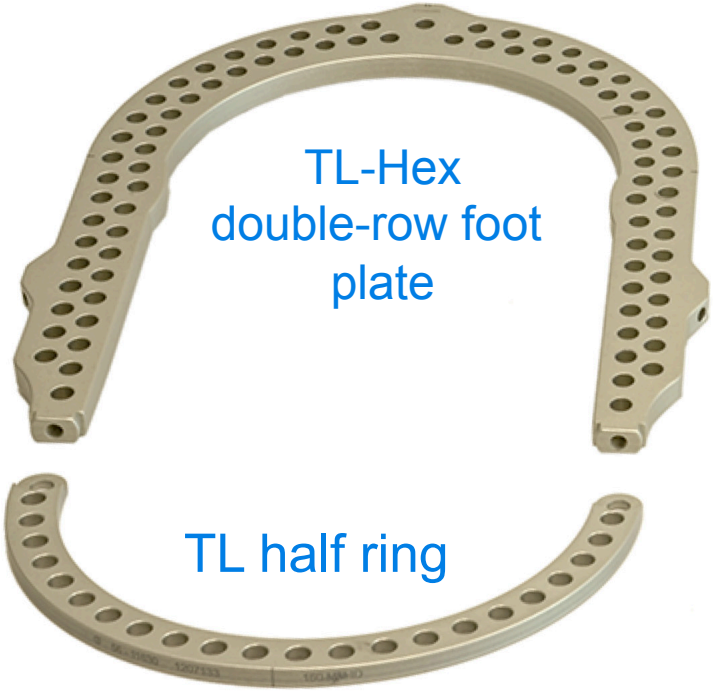
ORTHOFIX

TL-HEX™
TRUELOK HEXAPOD SYSTEM

FRAME ASSEMBLY

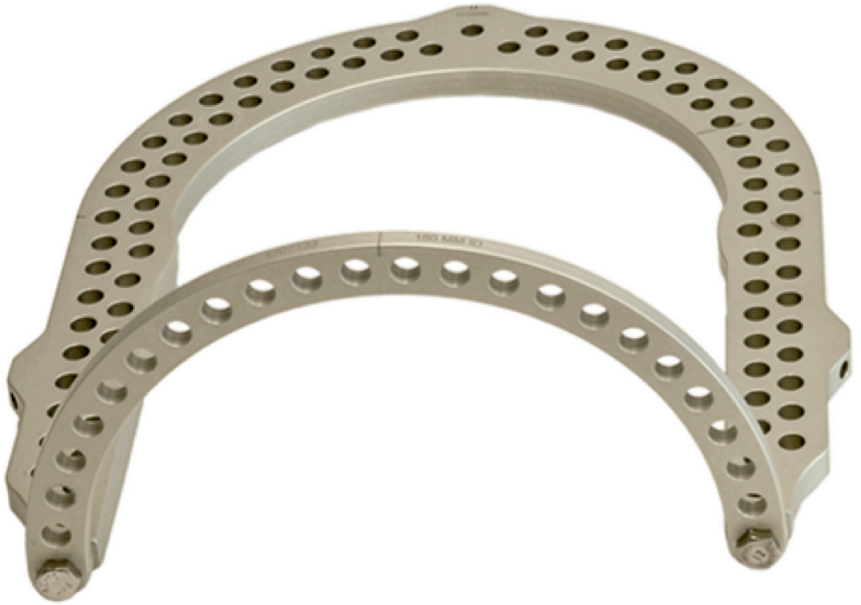
Appropriate Ring Size

Frame Components



Foot Support Assembly

- Attach TL-Hex double-row foot plate to TL half ring using 2 bolts
- Securely tighten both bolts



Tibial Block Assembly

- Attach TL-Hex 5/8 ring to TL ring using three 165-mm threaded rods and 12 nuts
- Securely tighten all nuts to create a tibial block

Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior 40

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): 7 ● Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support:	○ Full Ring	● 5/8 Ring	Open: ○ A ● P ○ M	○ Foot Plate	Size 160
Distal Support:	○ Full Ring	○ 5/8 Ring	Open: ● A ○ P ○ M	● Foot Plate	Size 160

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ○ Posterior

Reference Ring Position (mm): ○ Proximal ○ Distal

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S M L	U S M L	U S M L	U S M L	U S M L	U S M L
ACUTE						
GRADUAL						

www.orthofix.com
TL-1205-PL-E0 B06/14

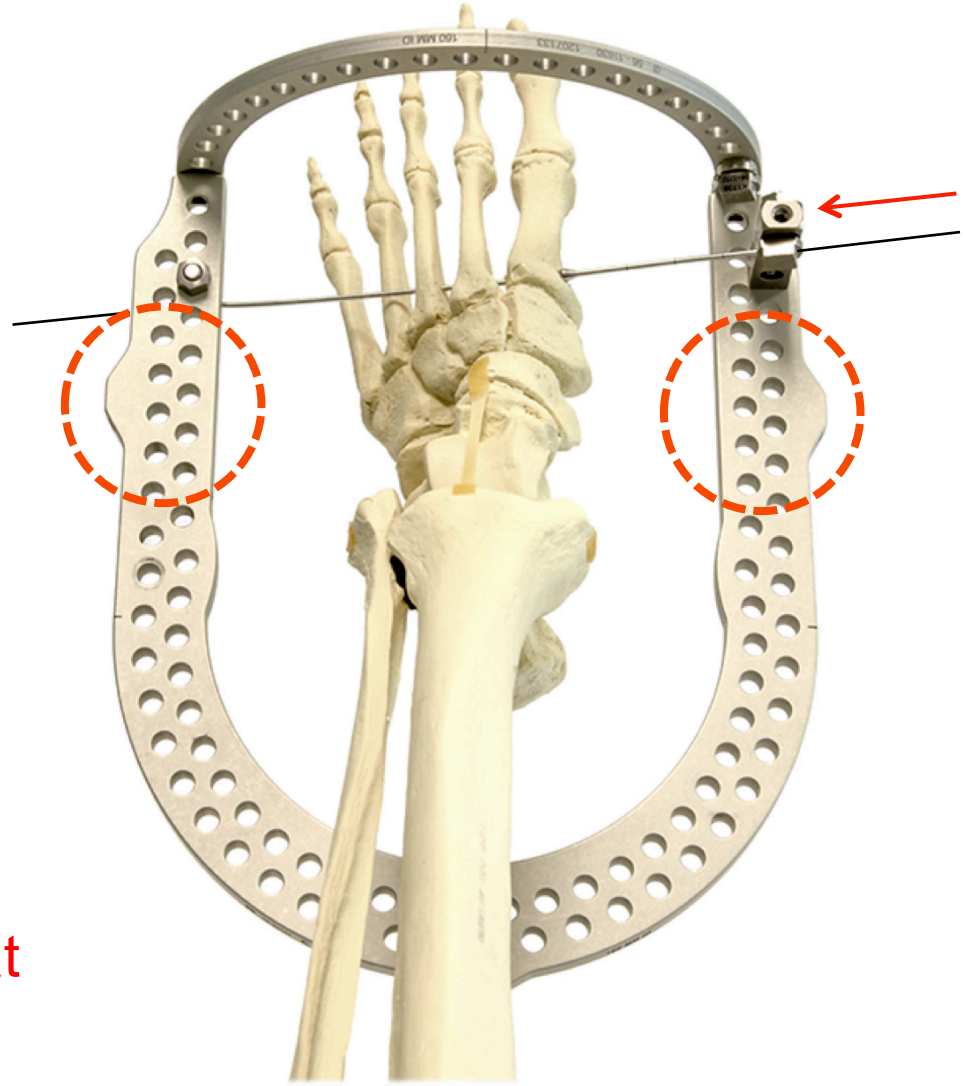
ORTHOFIX

TL-HEX™
TRUELOK HEXAPOD SYSTEM

FRAME APPLICATION

Metatarsal Reference Wire

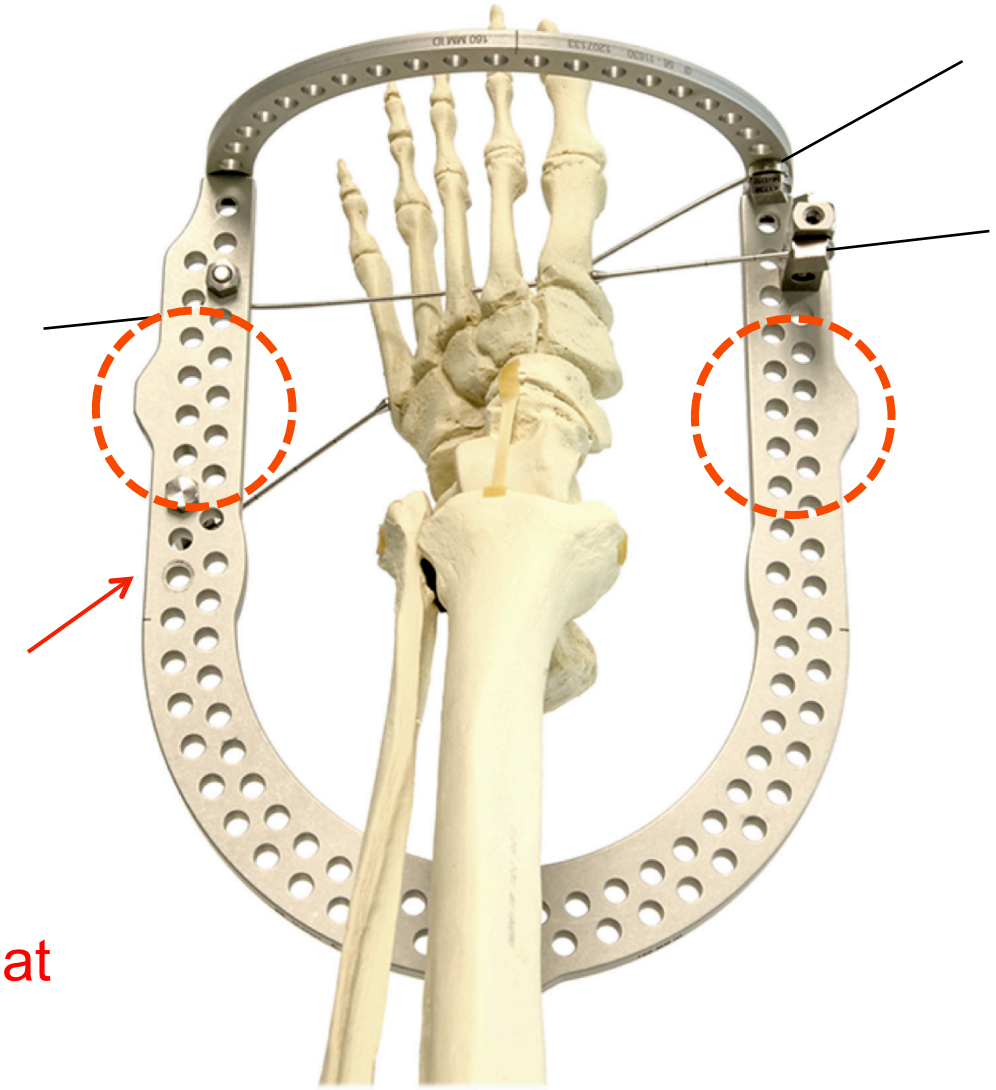
- Align the foot within the TL-Hex foot support
- Insert olive-stopper wire through the first-to-third metatarsals
- Attach the wire to the ring using two wire fixation bolts (and posts)



Consider strut attachment at the tabs and orientation

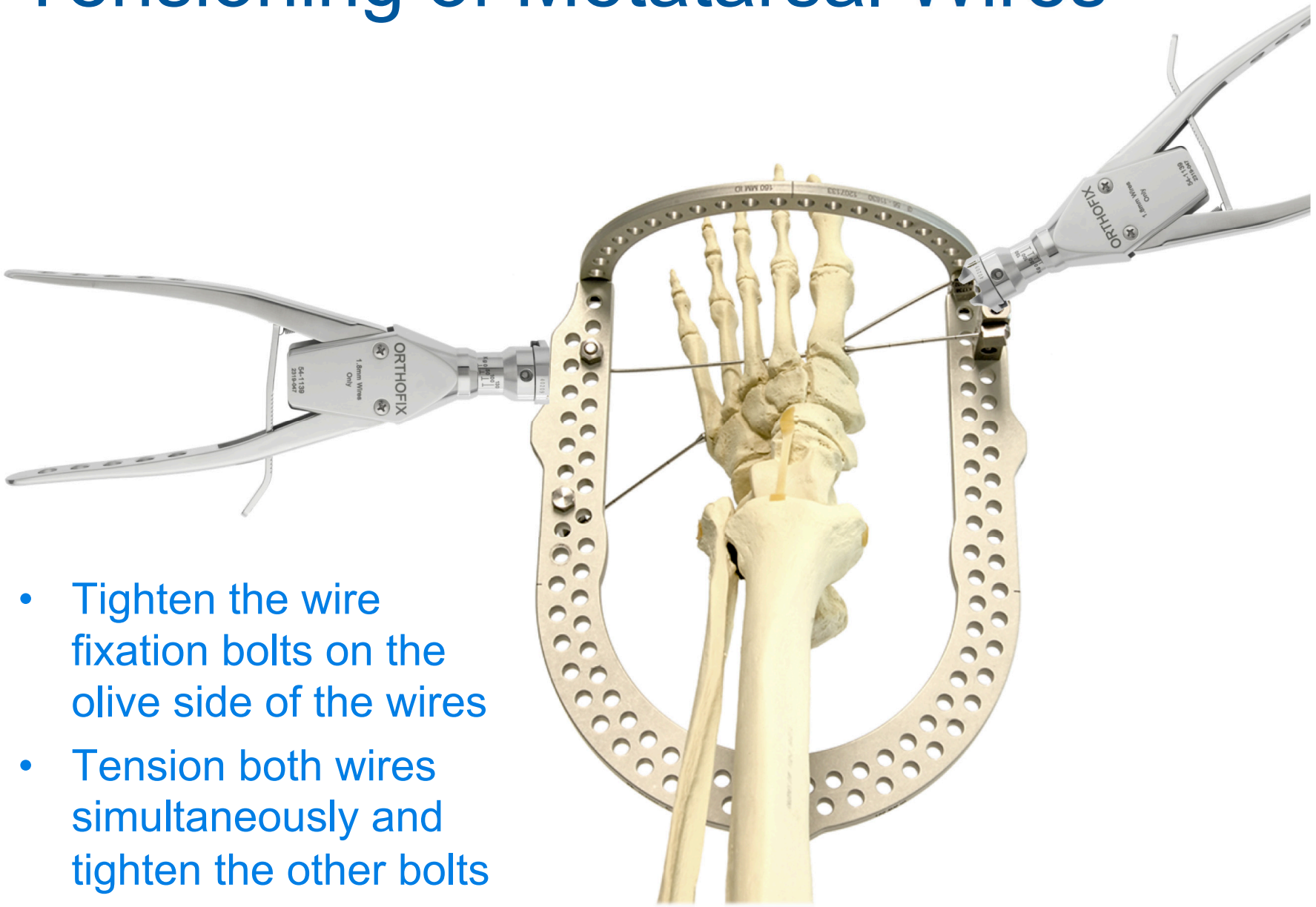
Stabilization Metatarsal Wire

- Insert second olive wire through the fifth-to-third metatarsals
- Attach the wire to the ring using two wire fixation bolts (and posts)



Consider strut attachment at the tabs and orientation

Tensioning of Metatarsal Wires



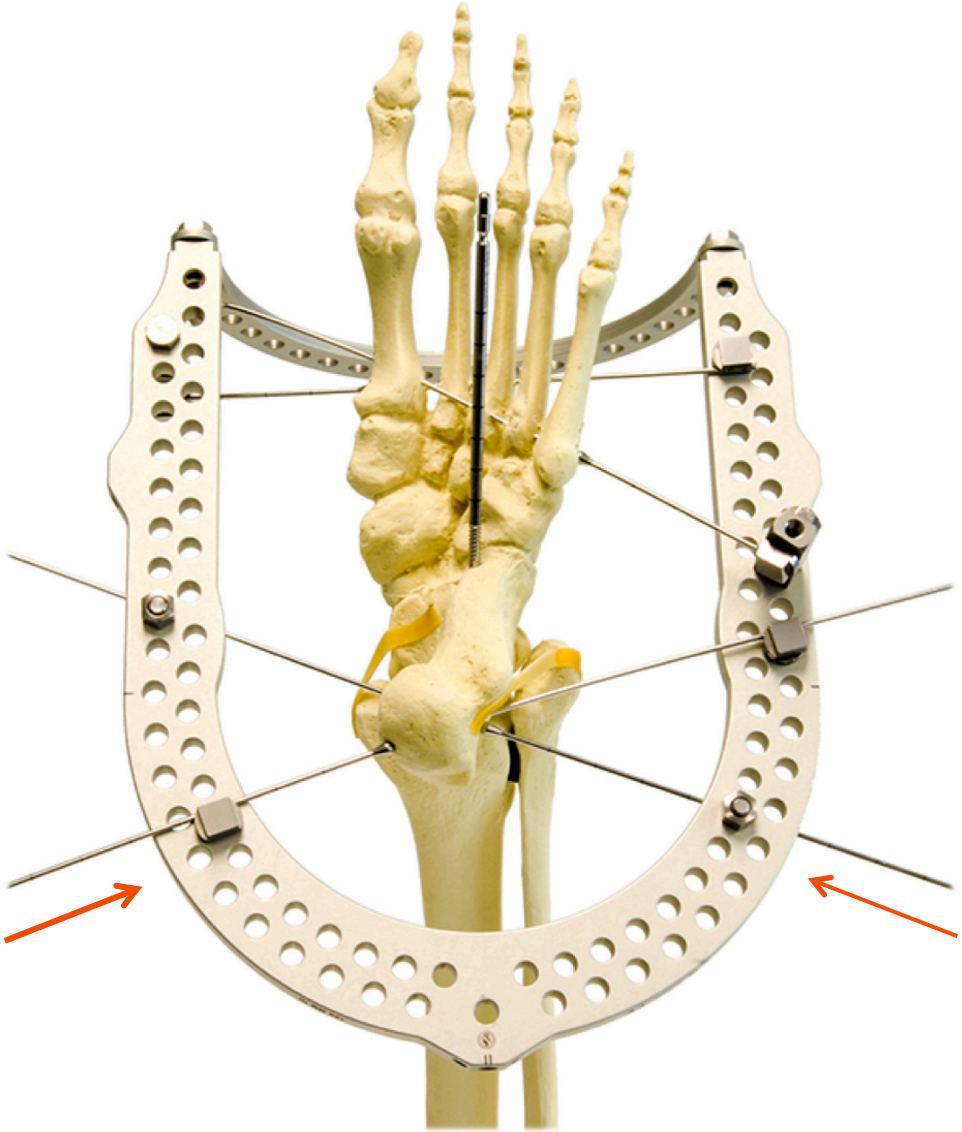
- Tighten the wire fixation bolts on the olive side of the wires
- Tension both wires simultaneously and tighten the other bolts

Foot Support Alignment

- Confirm foot support alignment in the sagittal plane

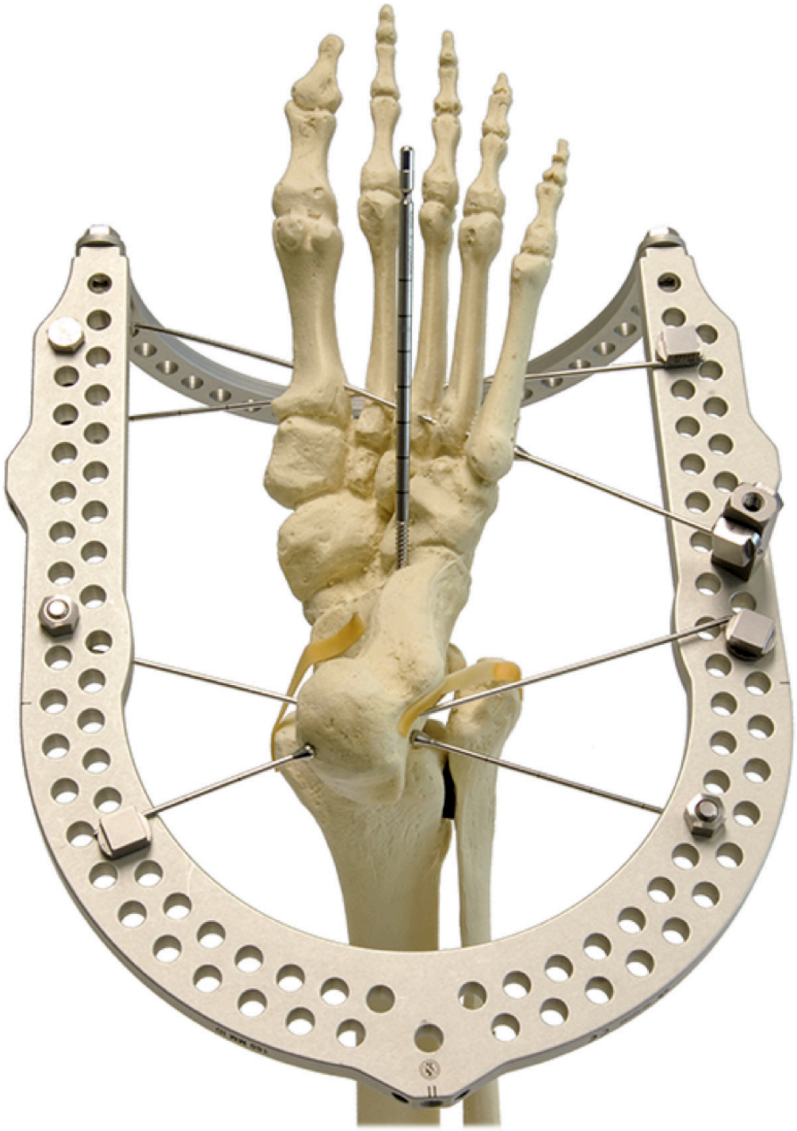
Calcaneal Stabilization Wires

- Insert two crossing olive-stopper wires through the calcaneus
- Attach both wires to the foot support using four wire fixation bolts
- Tighten the wire fixation bolts on the olive side of the wires
- Tension both wires simultaneously

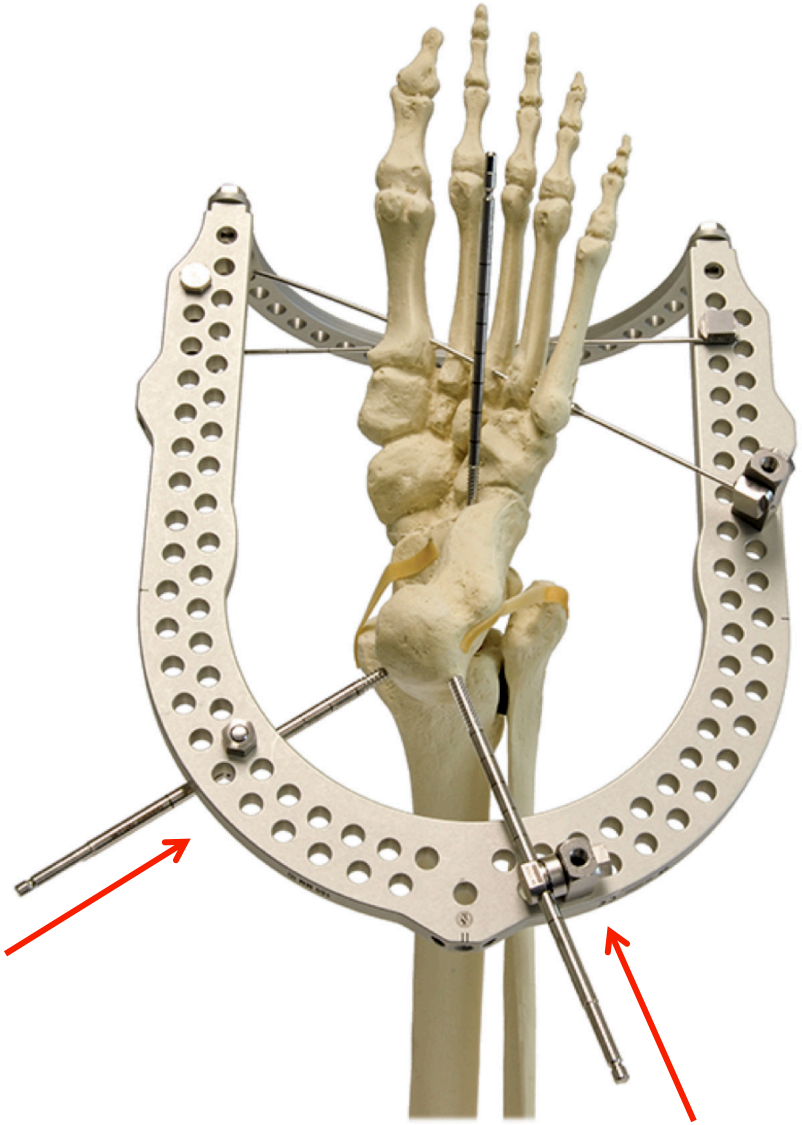


Calcaneal Stabilization Wires

- Tighten the opposite wire fixation bolts on both wires
- Cut the ends of all wires



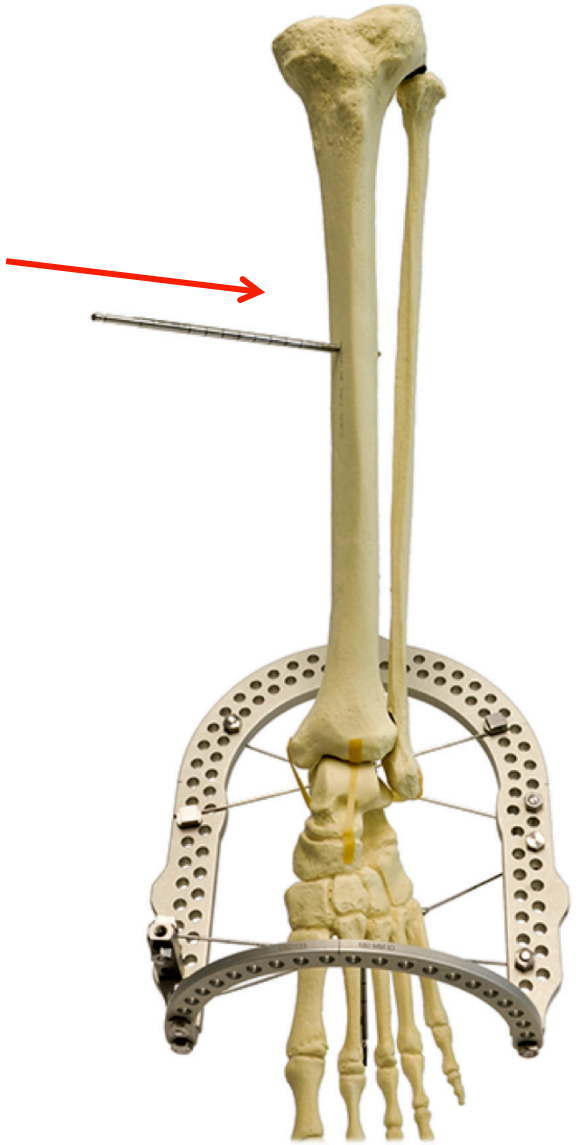
Optional Calcaneal Half Pins



- Insert two half pins into calcaneus instead of two crossing calcaneal wires
- Attach half pins to the foot support using two half pin fixation bolts (and posts)

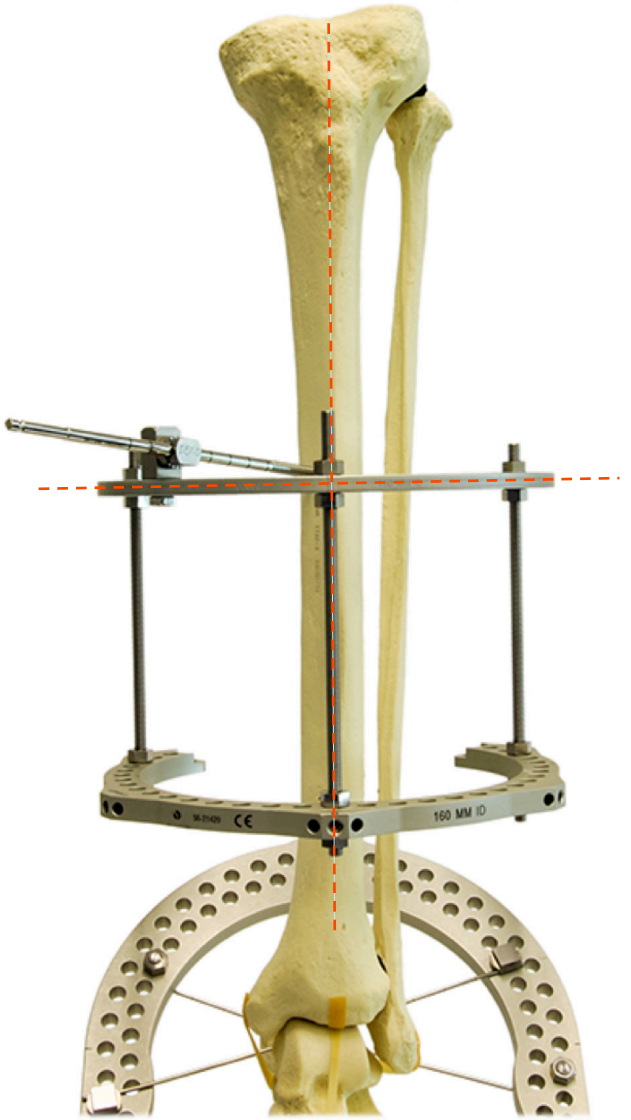
Tibial Reference Half Pin

- Mark the level of TL-Hex 5/8 ring (about 100 mm above the deformity apex) and the level of the proximal tibial ring
- Insert proximal medial face tibial reference half pin at the desired level



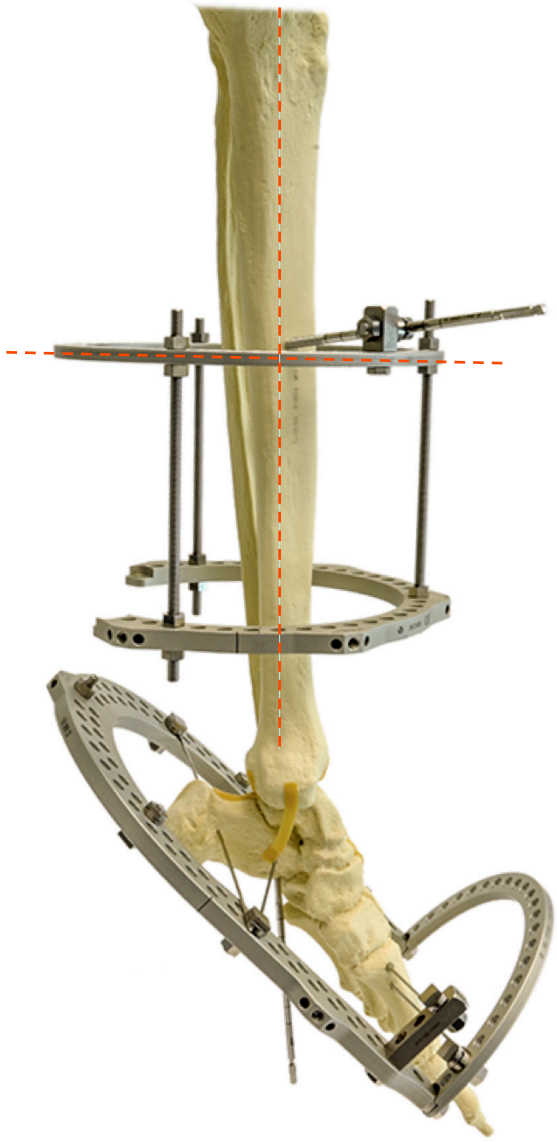
Tibial Reference Half Pin

- Center and align and the tibial ring block relative to the tibia
- Attach proximal tibial reference half pin to the proximal TL ring using half pin fixation bolt and a post
- Confirm frame alignment in the coronal plane



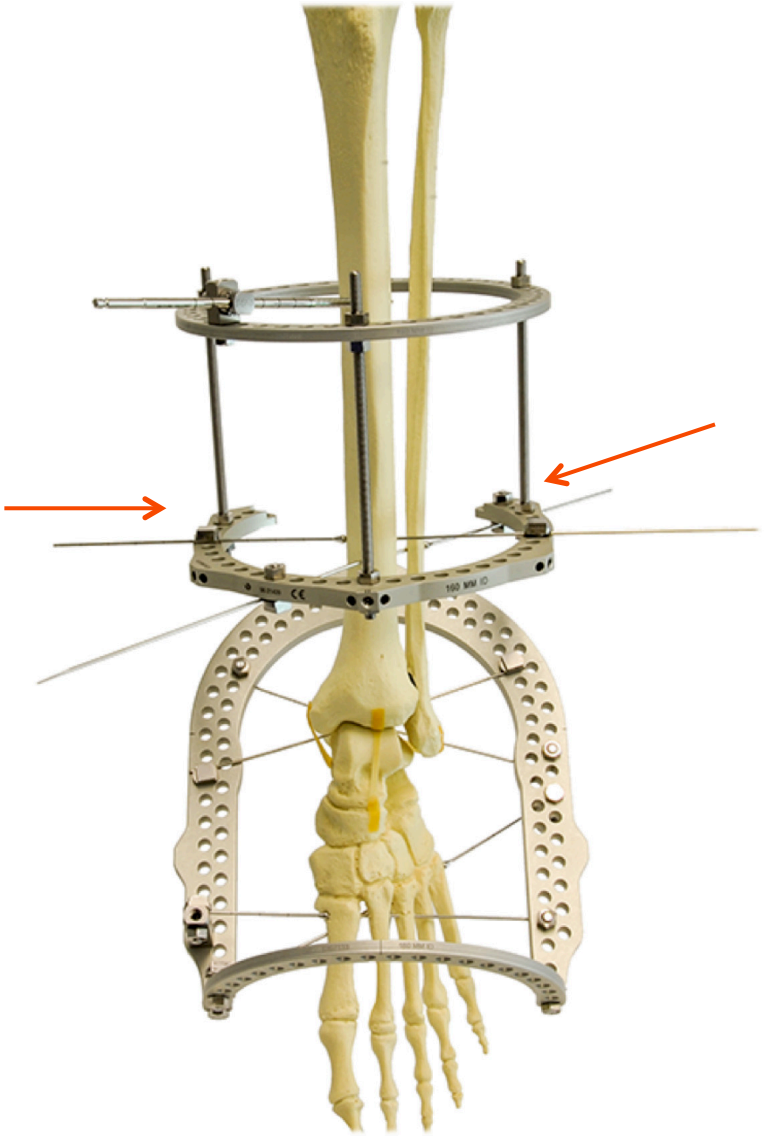
Tibial Reference Half Pin

- Center and align and the tibial ring block relative to the tibia
- Attach proximal tibial reference half pin to the proximal TL ring using half pin fixation bolt and a post
- Confirm frame alignment in the sagittal plane

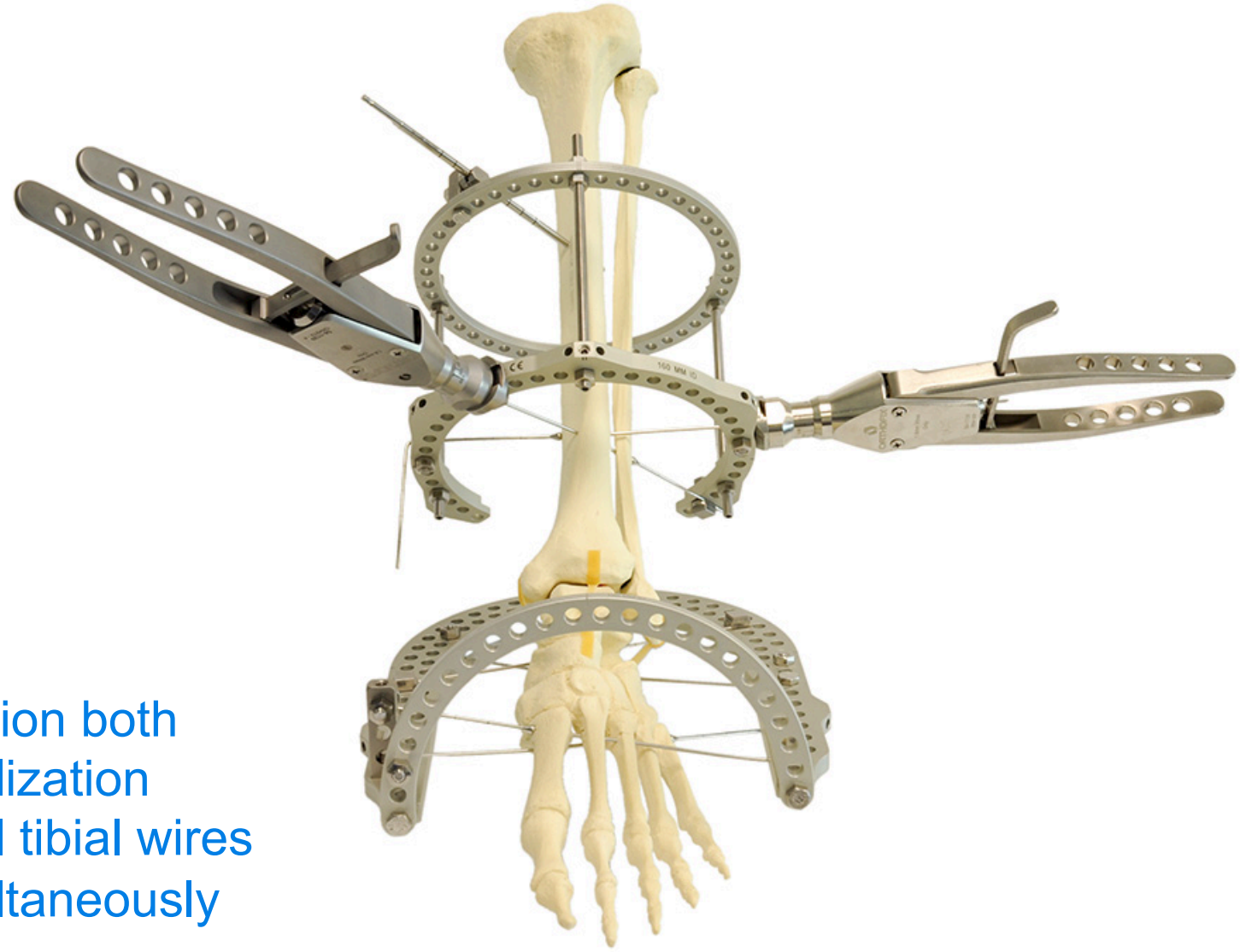


Stabilization Distal Tibial Wires

- Insert first olive-stopper wire through the fibula and tibia at the level of the distal 5/8 ring
- Insert second olive-stopper wire through the tibia at the opposite side of the 5/8 ring
- Attach both wires to the 5/8 ring using four wire fixation bolts

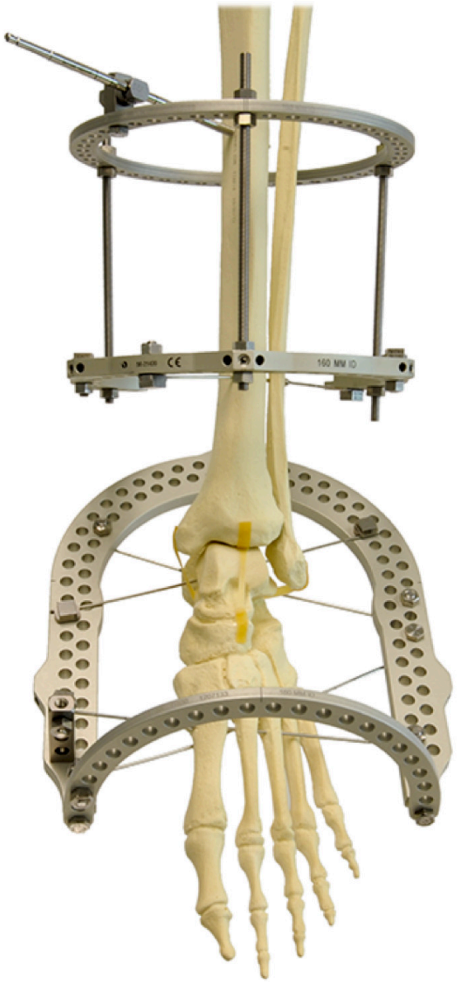


Stabilization Distal Tibial Wires



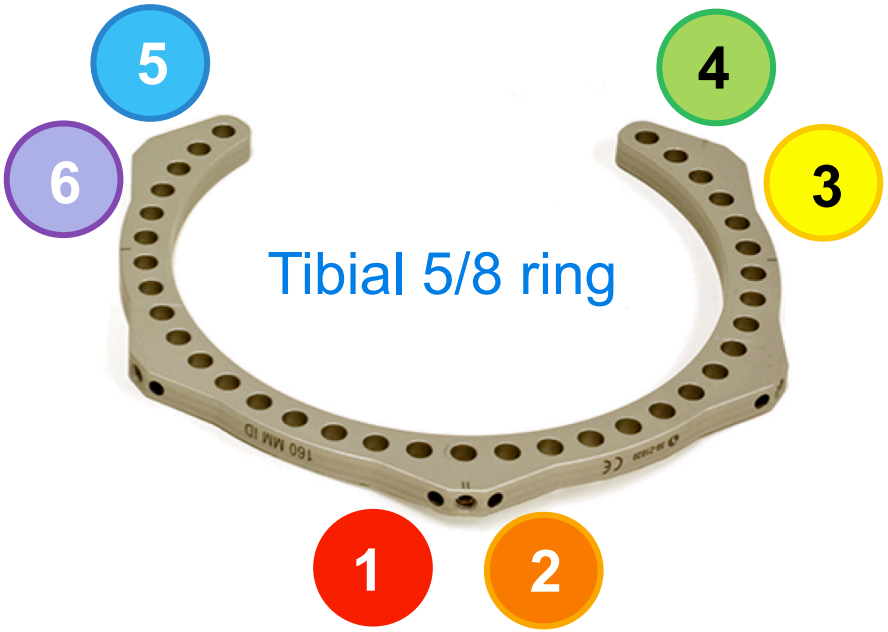
- Tension both stabilization distal tibial wires simultaneously

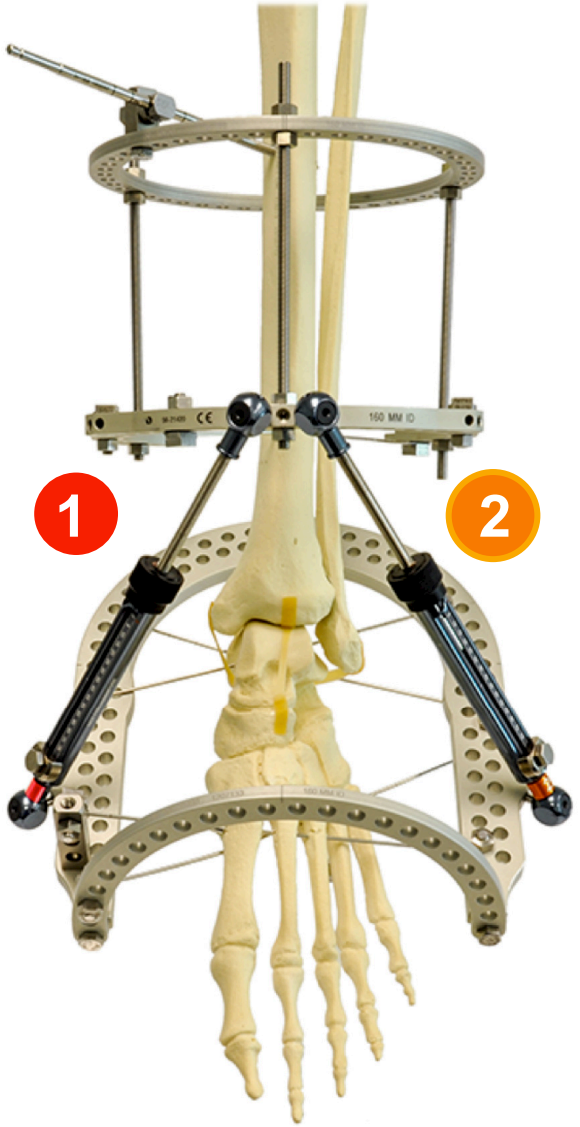
Confirm Stability of Fixation



- Confirm fixation stability of tibial block & foot external support
- Use additional wires and half pins to improve fixation stability

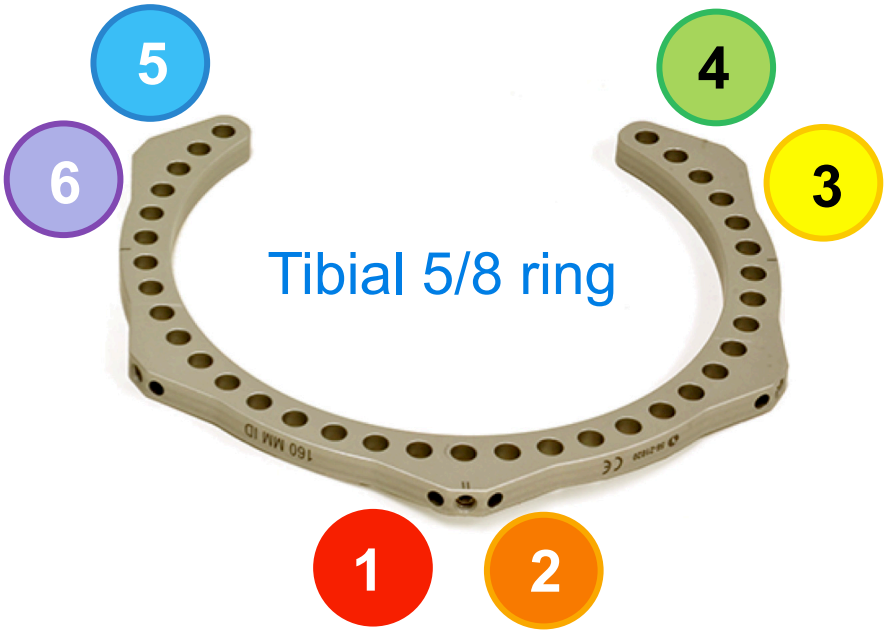
Struts Attachment

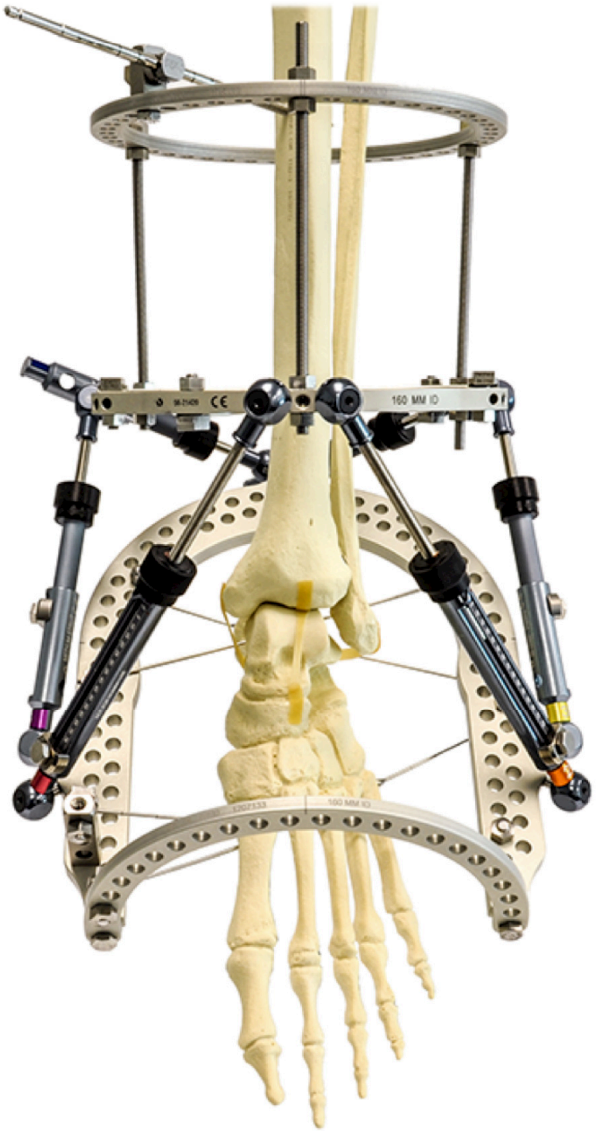




- Connect tibial 5/8 ring and foot support with six struts
- The strut order is always the same for the left and right sides

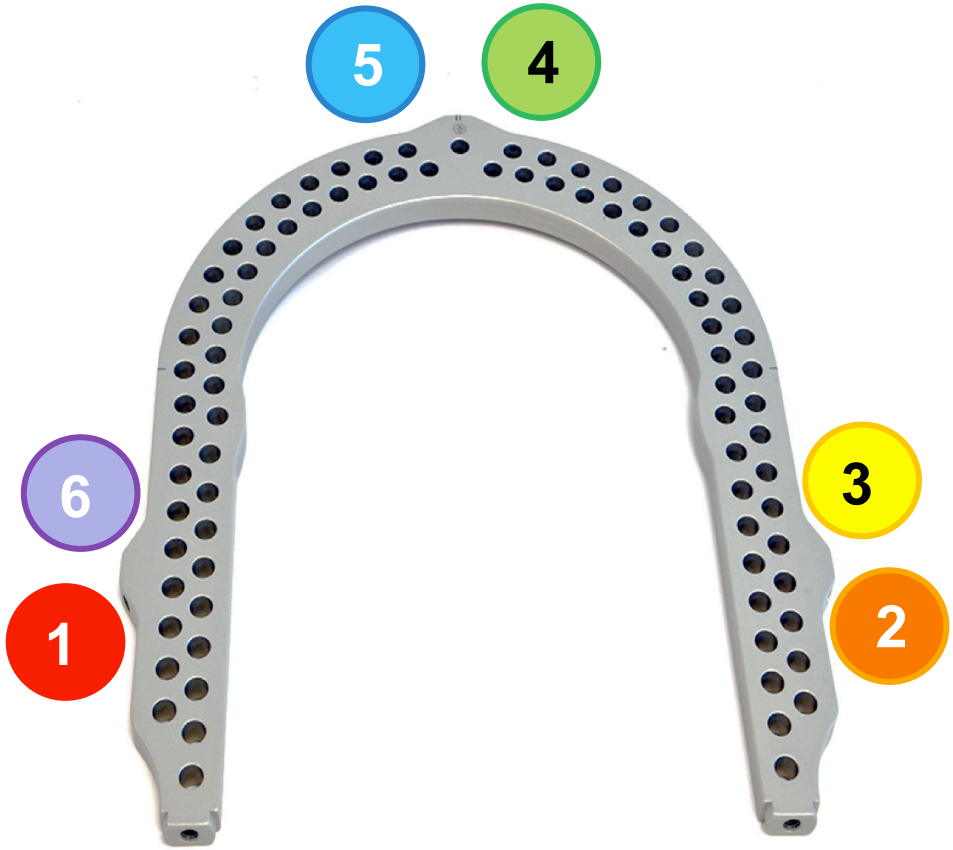
Struts Attachment



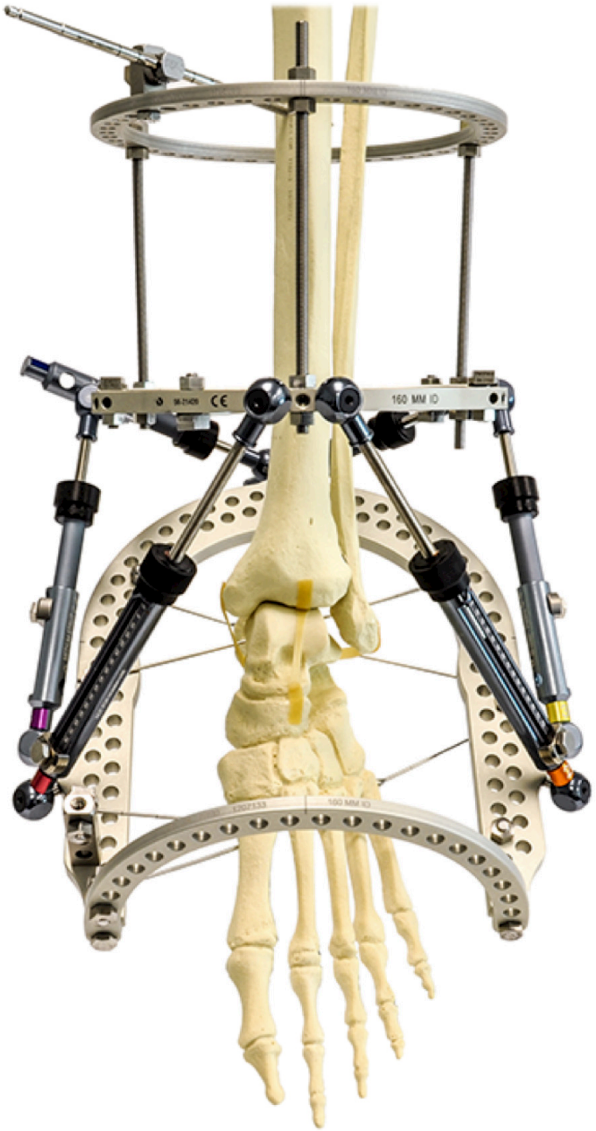


- Connect tibial 5/8 ring and foot support with six struts
- The strut order is always the same for the left and right sides

Struts Attachment

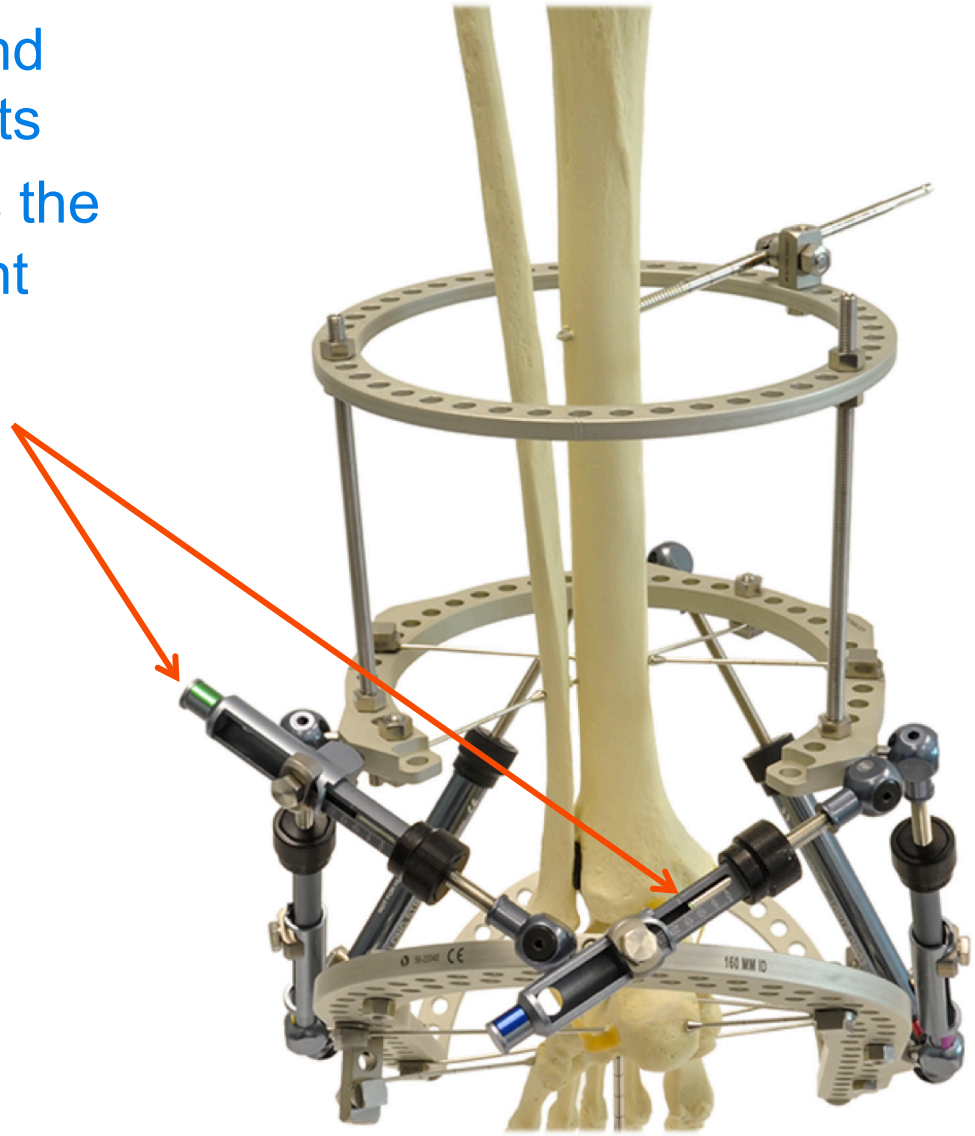


TL-Hex double-row
foot support

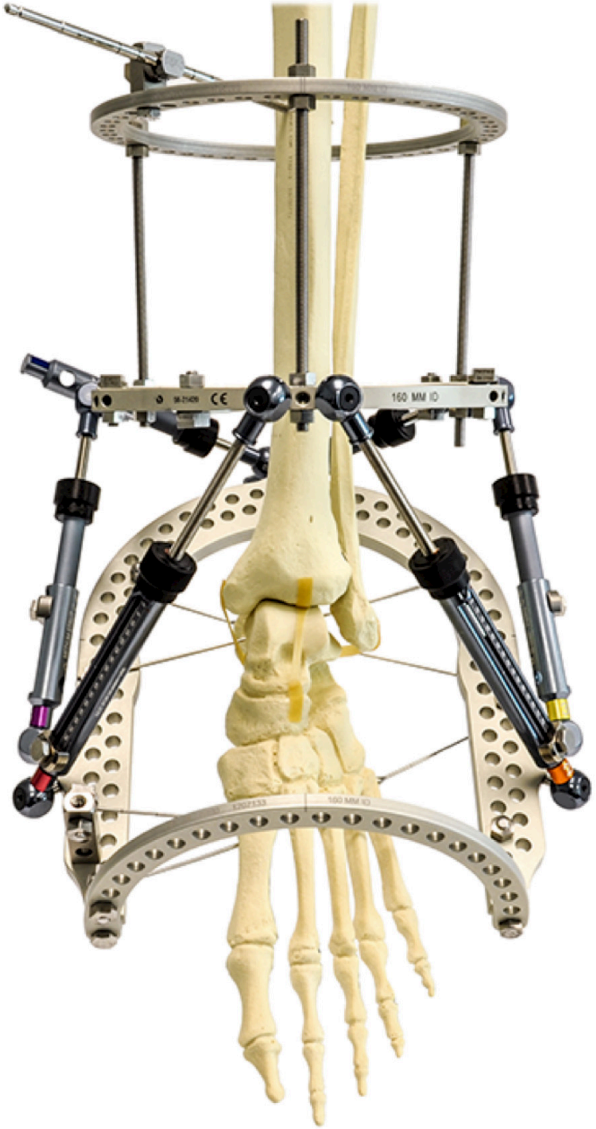


Ultra-Short Struts

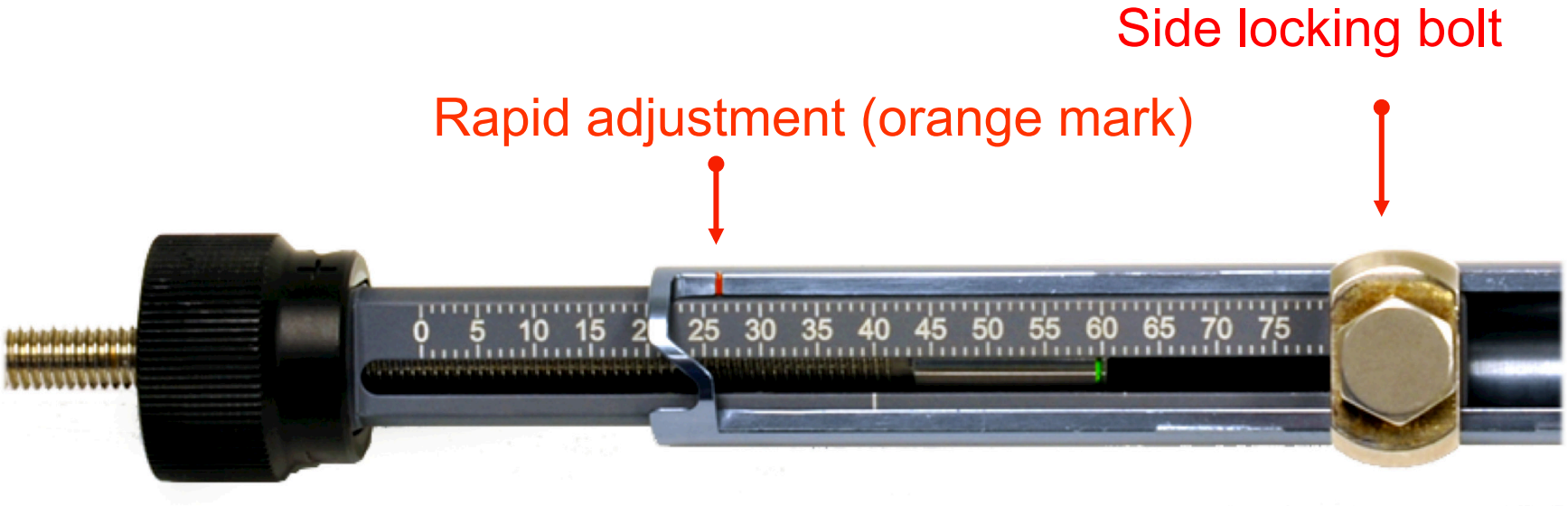
- Connect tibial 5/8 ring and foot support with six struts
- The strut order is always the same for the left and right sides
- Use ultra-short struts posteriorly, if necessary



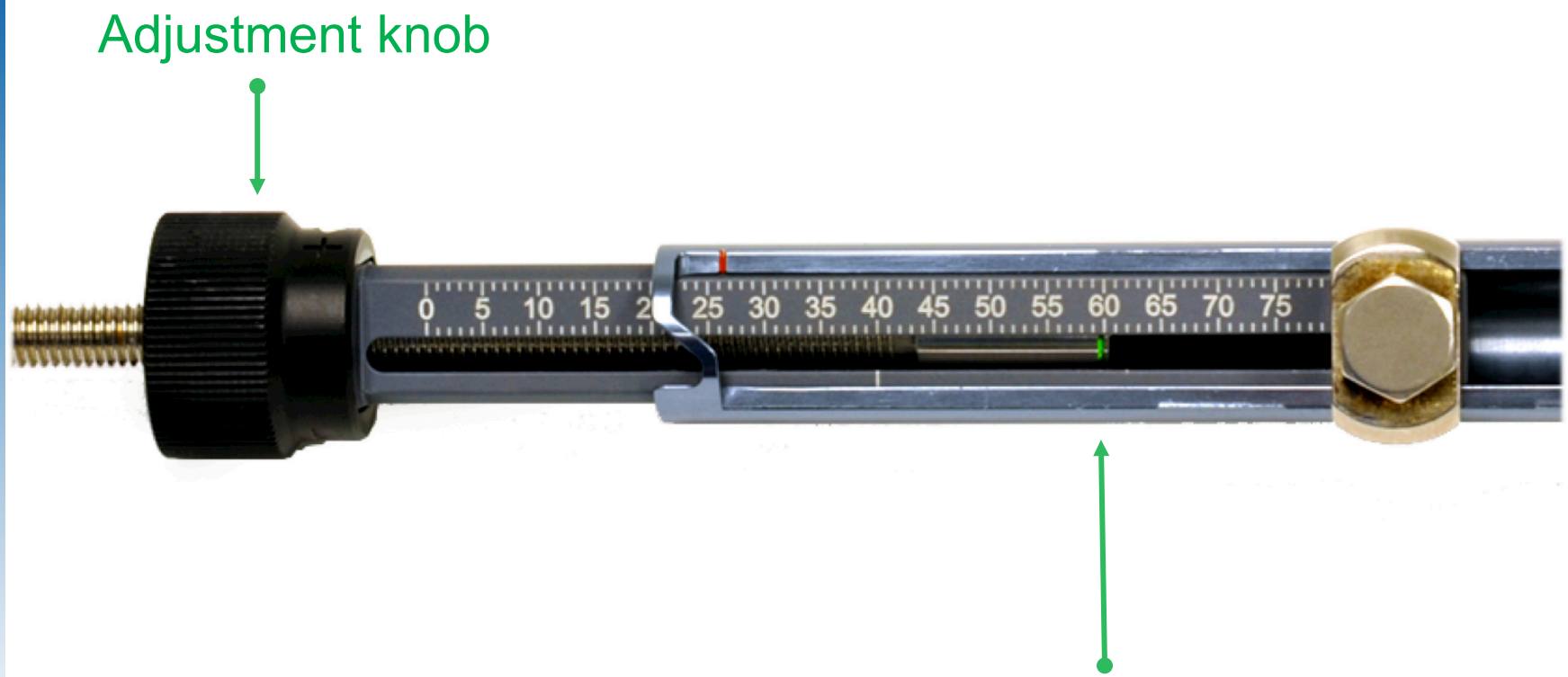
Struts Length Setting



Rapid Length Adjustment



Gradual Length Adjustment



Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior 40

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): 7 ● Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support:	○ Full Ring	● 5/8 Ring	Open: ○ A	● P	○ M	○ Foot Plate	Size 160
Distal Support:	○ Full Ring	○ 5/8 Ring	Open: ● A	○ P	○ M	● Foot Plate	Size 160

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ○ Posterior

Reference Ring Position (mm): ○ Proximal ○ Distal

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S [M] ●	U S M ●	U S ● L	U ● M L	U ● M L	U S ● L
ACUTE	0	0	24	3	3	24
GRADUAL	44	44	34	14	14	34

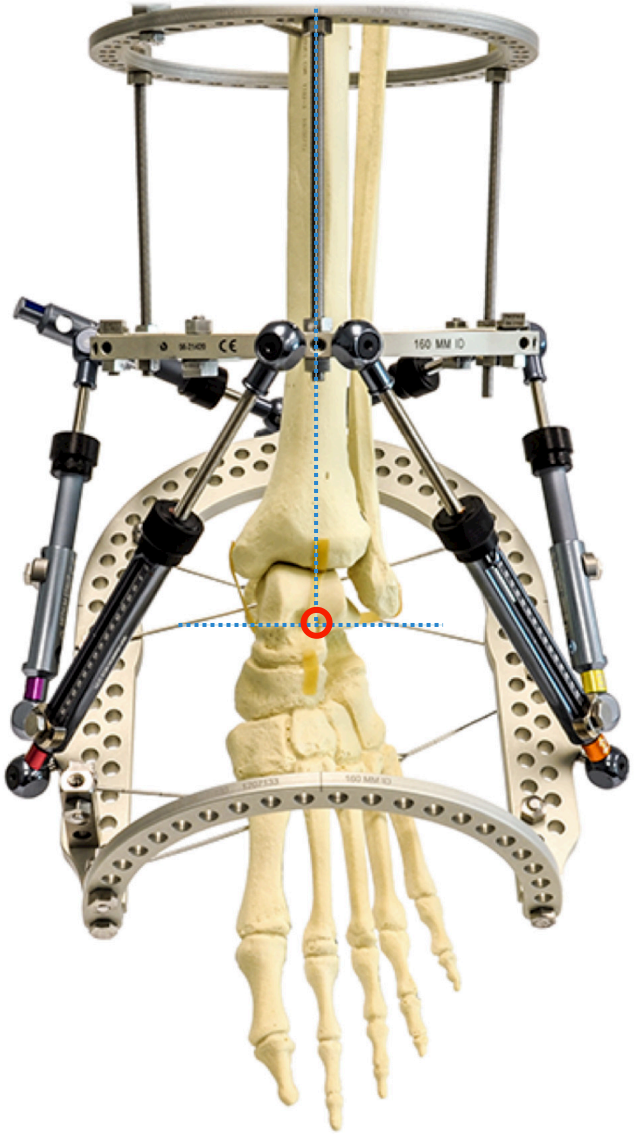
www.orthofix.com
TL-1205-PL-E0 B06/14

ORTHOFIX

TL-HEX™
TRUELOK HEXAPOD SYSTEM

FRAME MOUNTING

Mounting Parameters



- AP plane translation: 0 mm
- AP plane angle: 0º
- Frame rotation: 0º

Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior 40

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): 7 ● Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support:	○ Full Ring	● 5/8 Ring	Open: ○ A	● P	○ M	○ Foot Plate	Size 160
Distal Support:	○ Full Ring	○ 5/8 Ring	Open: ● A	○ P	○ M	● Foot Plate	Size 160

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ○ Posterior

Reference Ring Position (mm): ○ Proximal ○ Distal

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

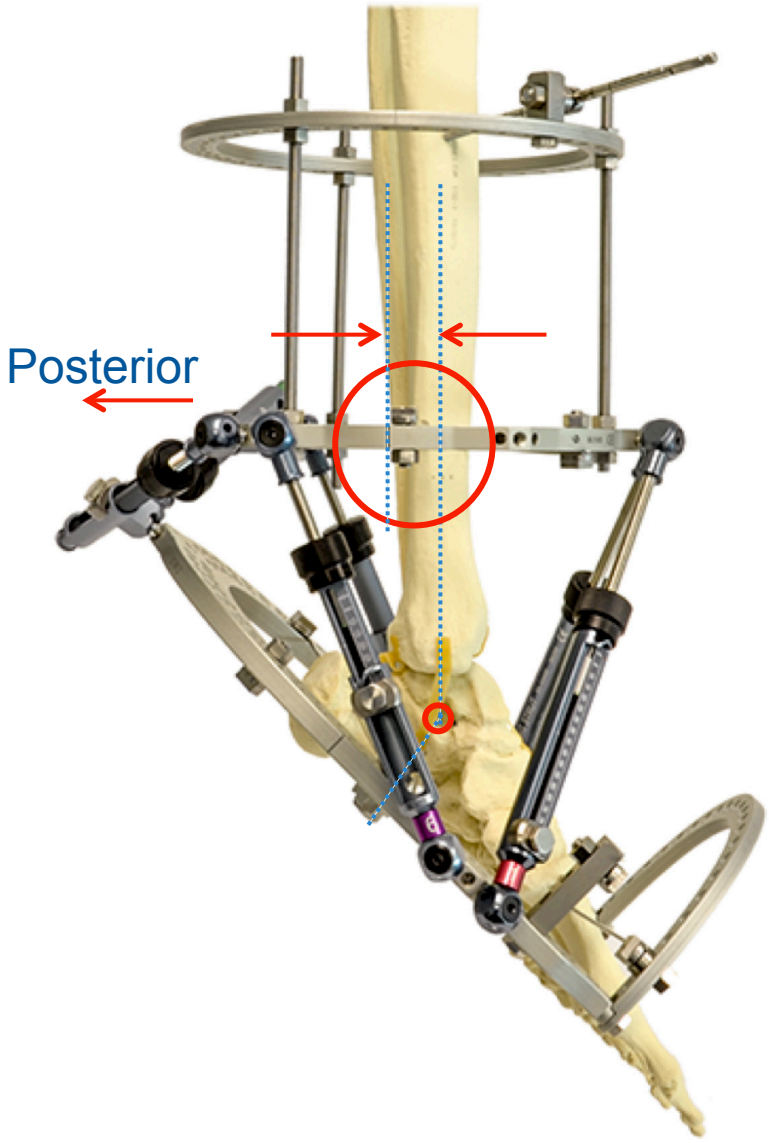
Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S [M]●	U S M●	U S ●L	U ●M L	U ●M L	U S ●L
ACUTE	0	0	24	3	3	24
GRADUAL	44	44	34	14	14	34

www.orthofix.com
TL-1205-PL-E0 B06/14

ORTHOFIX

Mounting Parameters



- AP plane translation: 0 mm
- AP plane angle: 0º
- Frame rotation: 0º
- ML plane translation: 15 mm posterior
- ML plane angle: 0º

Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior **40**

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): **7** ● Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support:	○ Full Ring	● 5/8 Ring	Open: ○ A	● P	○ M	○ Foot Plate	Size **160**
Distal Support:	○ Full Ring	○ 5/8 Ring	Open: ● A	○ P	○ M	● Foot Plate	Size **160**

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ● Posterior **15**

Reference Ring Position (mm): ○ Proximal ○ Distal

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

○ Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

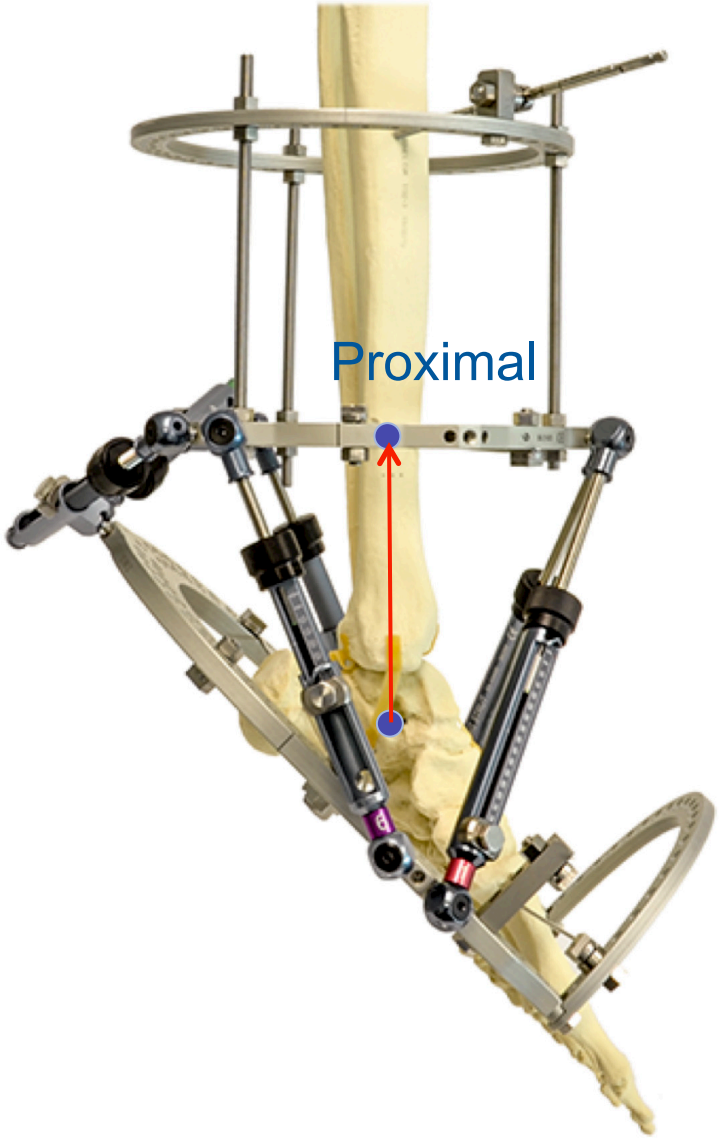
Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S **M** ●	U S M ●	U S ● L	U ● M L	U ● M L	U S ● L
ACUTE	0	0	24	3	3	24
GRADUAL	44	44	34	14	14	34

www.orthofix.com
TL-1205-PL-E0 B06/14

ORTHOFIX

Mounting Parameters



- AP plane translation: 0 mm
- AP plane angle: 0º
- Frame rotation: 0º
- ML plane translation: 15 mm posterior
- ML plane angle: 0º
- Distance from deformity apex to the reference ring: 100 mm proximal

Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior **40**

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): **7** ● Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support:	○ Full Ring	● 5/8 Ring	Open: ○ A ● P ○ M	○ Foot Plate	Size **160**
Distal Support:	○ Full Ring	○ 5/8 Ring	Open: ● A ○ P ○ M	● Foot Plate	Size **160**

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ● Posterior **15**

Reference Ring Position (mm): ● Proximal ○ Distal **100**

● Relative to Deformity Apex

○ Relative to Osteotomy/Fracture Level

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S [M] ●	U S M ●	U S ● L	U ● M L	U ● M L	U S ● L
ACUTE	0	0	24	3	3	24
GRADUAL	44	44	34	14	14	34

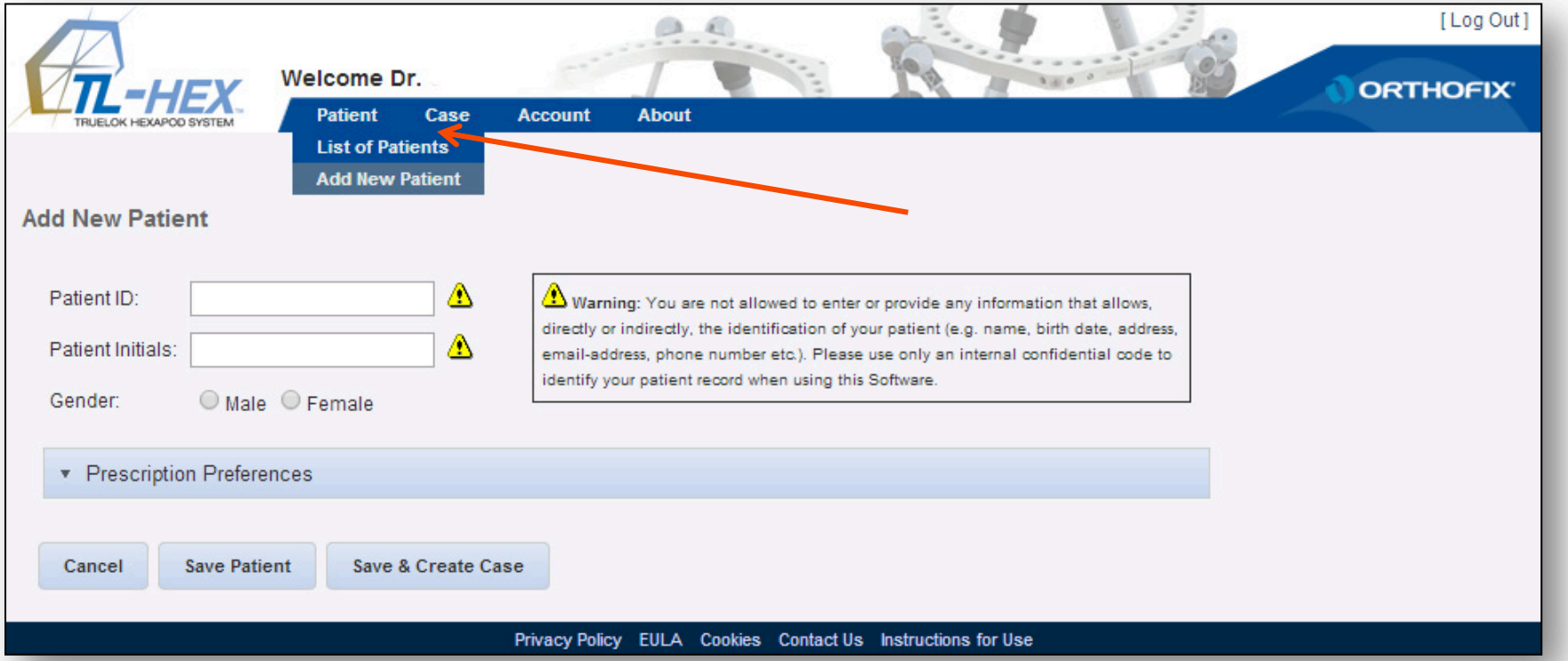
www.orthofix.com

TL-1205-PL-E0 B06/14

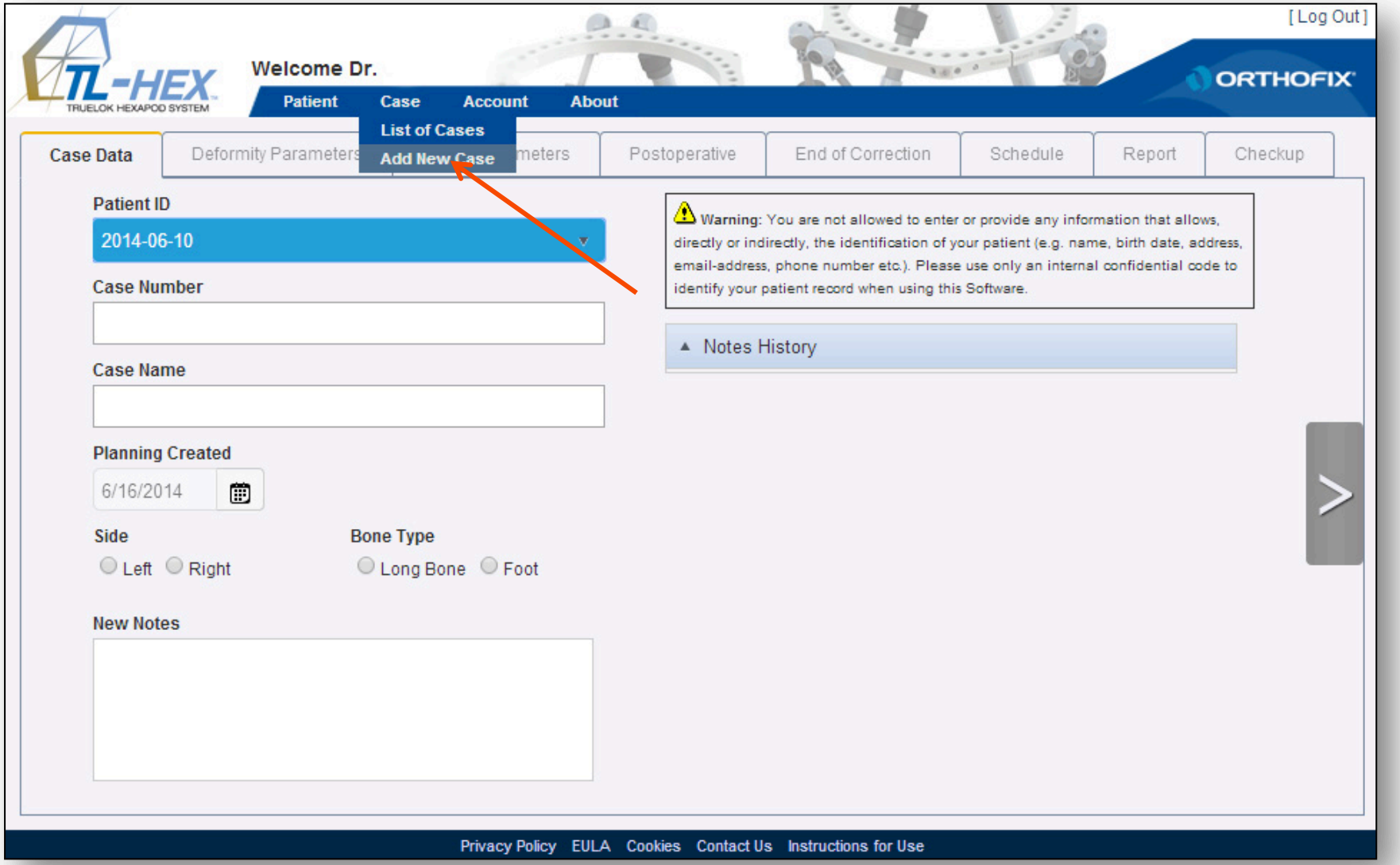
ORTHOFIX

www.tlhex.com

Create New Patient



Create New Case



Patient Data Acquisition Template

Patient ID:_____ **Date:**_____ **Case Number:**_____

TL-HEX™ TRUELOK HEXAPOD SYSTEM

Case Data | Deformity Parameters | Frame Parameters | Postoperative

Anatomical Area: ○ Long Bone ● Foot

Side: ● Left ○ Right

Case Data | **Deformity Parameters** | Frame Parameters | Postoperative

Reference Fragment: ● Proximal ○ Distal

AP Plane Angular Deformity (deg): ○ Valgus ○ Varus

ML Plane Angular Deformity (deg): ● Apex Anterior ○ Apex Posterior **40**

Rotation (deg): ○ External ○ Internal

AP Plane Translation (mm): ○ Medial ○ Lateral

ML Plane Translation (mm): ○ Anterior ○ Posterior

Axial Translation (mm): ○ Short ○ Long

Bone Length (mm): **7** ● Short ○ Long

Case Data | Deformity Parameters | **Frame Parameters** | Postoperative

Select External Supports

Proximal Support:	○ Full Ring	● 5/8 Ring	Open: ○ A ● P ○ M	○ Foot Plate	Size **160**
Distal Support:	○ Full Ring	○ 5/8 Ring	Open: ● A ○ P ○ M	● Foot Plate	Size **160**

Case Data | Deformity Parameters | Frame Parameters | **Postoperative**

Reference Ring AP Translation (mm): ○ Medial ○ Lateral

Reference Ring ML Translation (mm): ○ Anterior ● Posterior **15**

Reference Ring Position (mm): ● Proximal ○ Distal **100**

Reference Ring AP Angle (deg): ○ Medial Side Down ○ Medial Side Up

Reference Ring ML Angle (deg): ○ Anterior Side Down ○ Anterior Side Up

● Relative to Deformity Apex
○ Relative to Osteotomy/Fracture Level

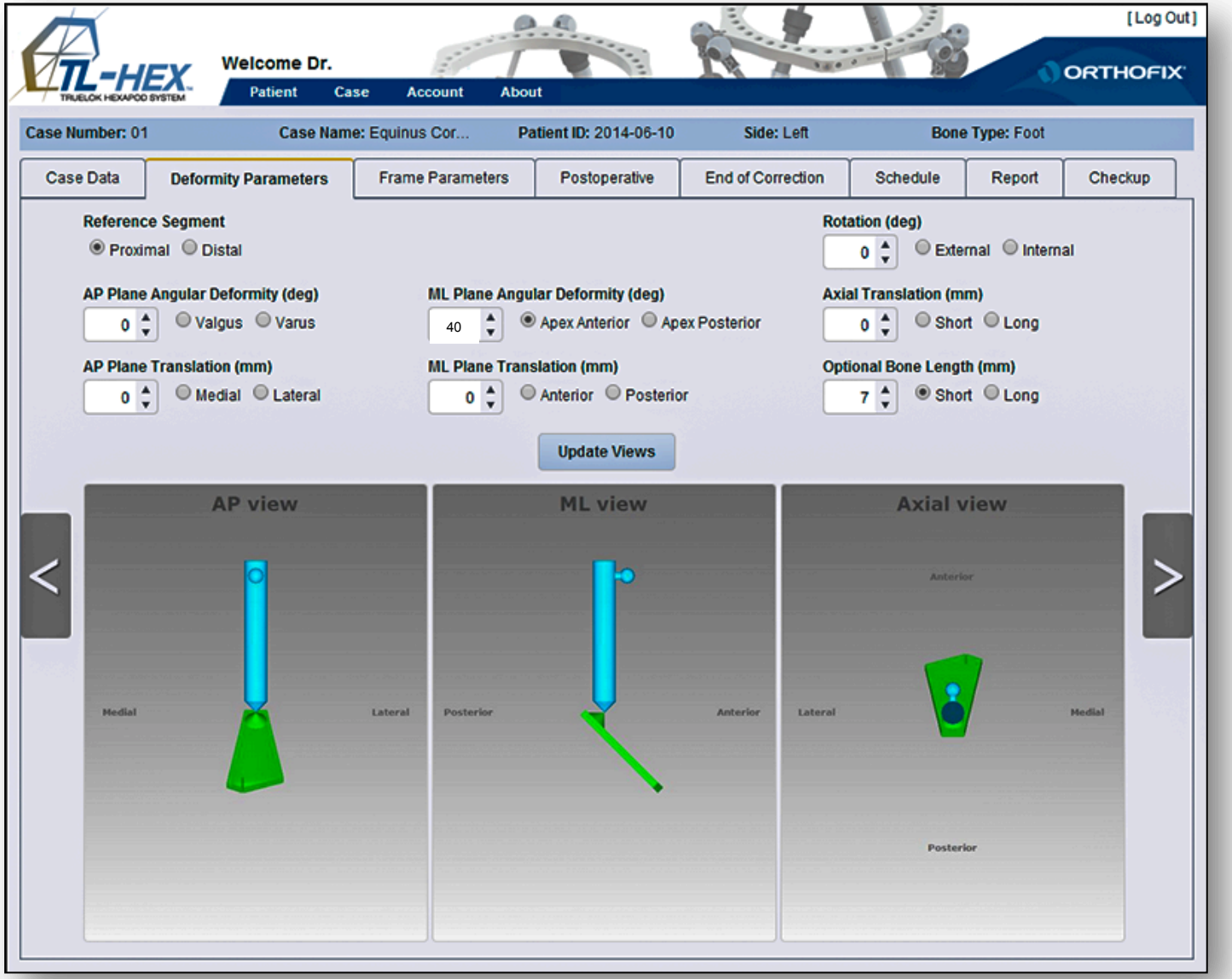
Frame Rotation (deg): ○ External ○ Internal

STRUTS	1	2	3	4	5	6
SIZE	U S **M** ●	U S M ●	U S ● L	U ● M L	U ● M L	U S ● L
ACUTE	0	0	24	3	3	24
GRADUAL	44	44	34	14	14	34

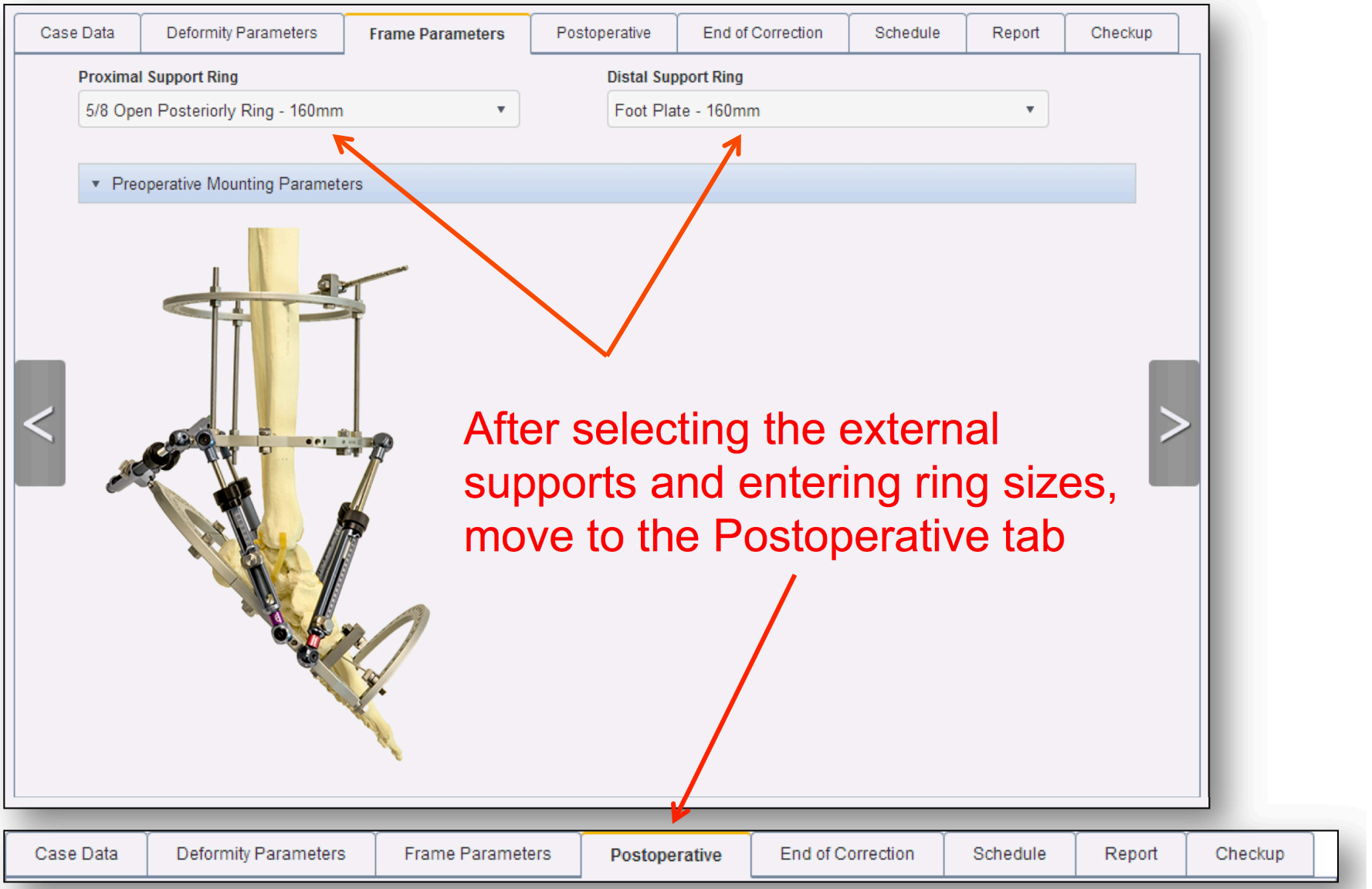
www.orthofix.com
TL-1205-PL-EO B06/14

ORTHOFIX

Deformity Parameters



Frame Parameters

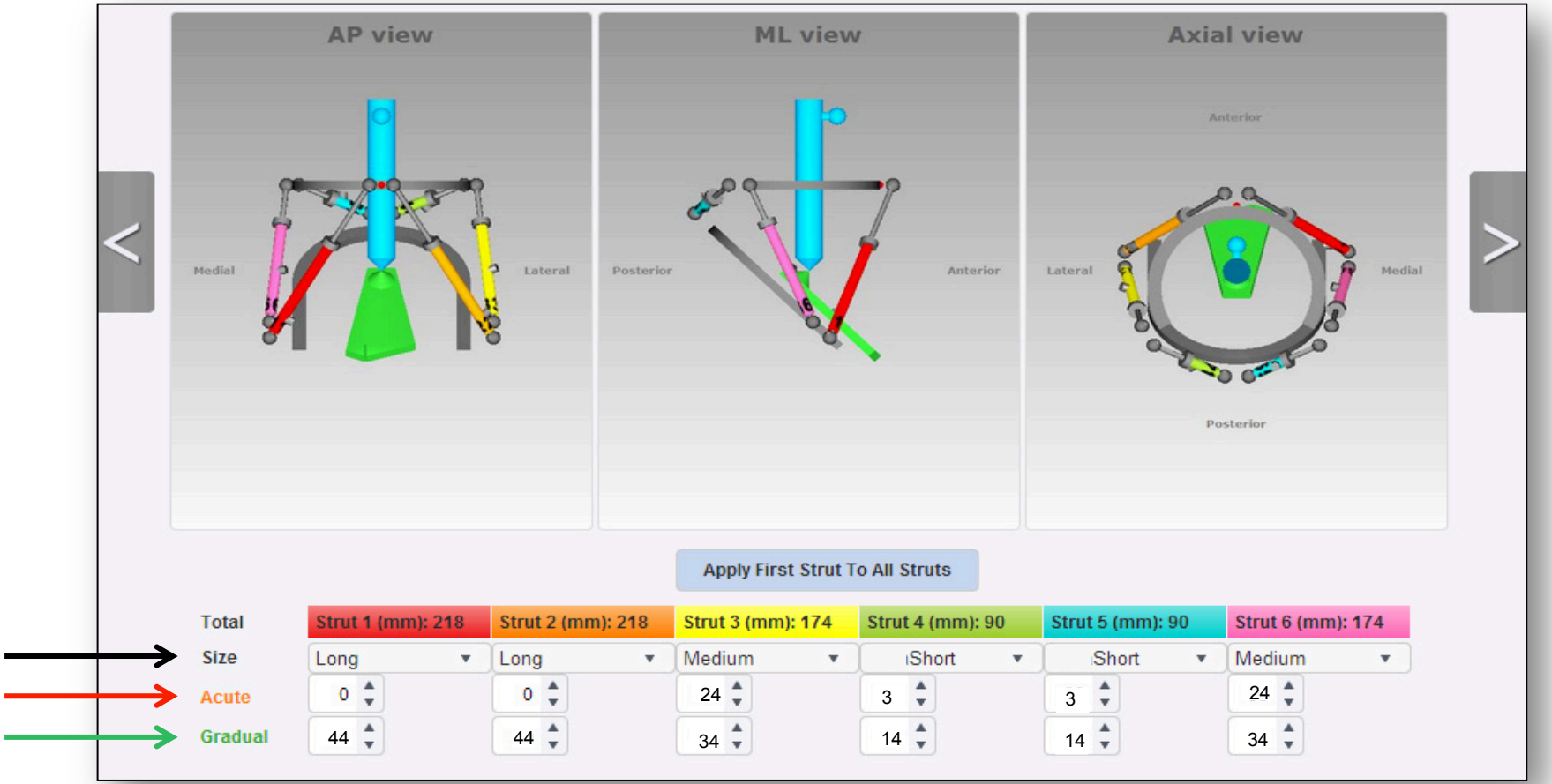


Mounting Parameters

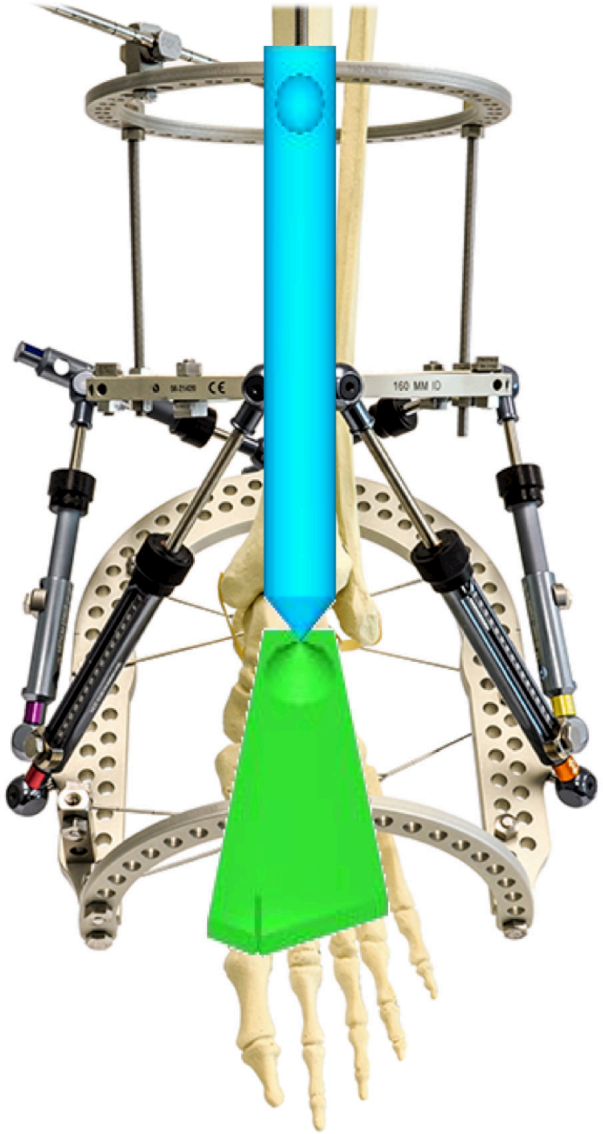
- Enter reference ring parameters relative to anatomical axis of the tibia
- Enter reference ring position relative to the deformity apex

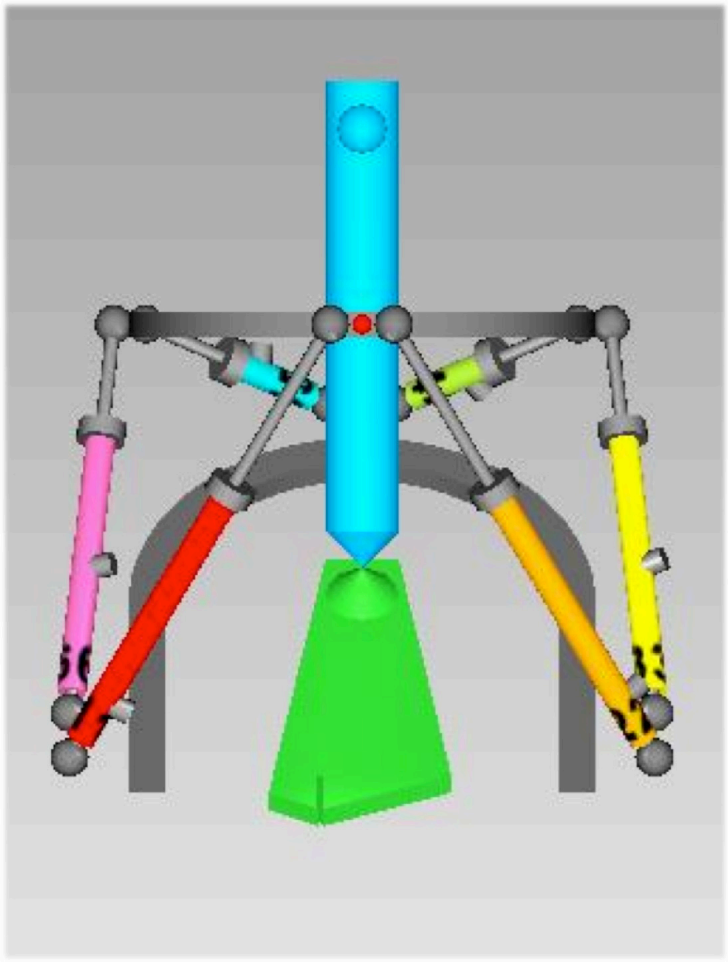
Struts Size & Length

- Enter size and acute/gradual lengths for all struts
- Frame position on the Postoperative screen should match frame position on the bone model

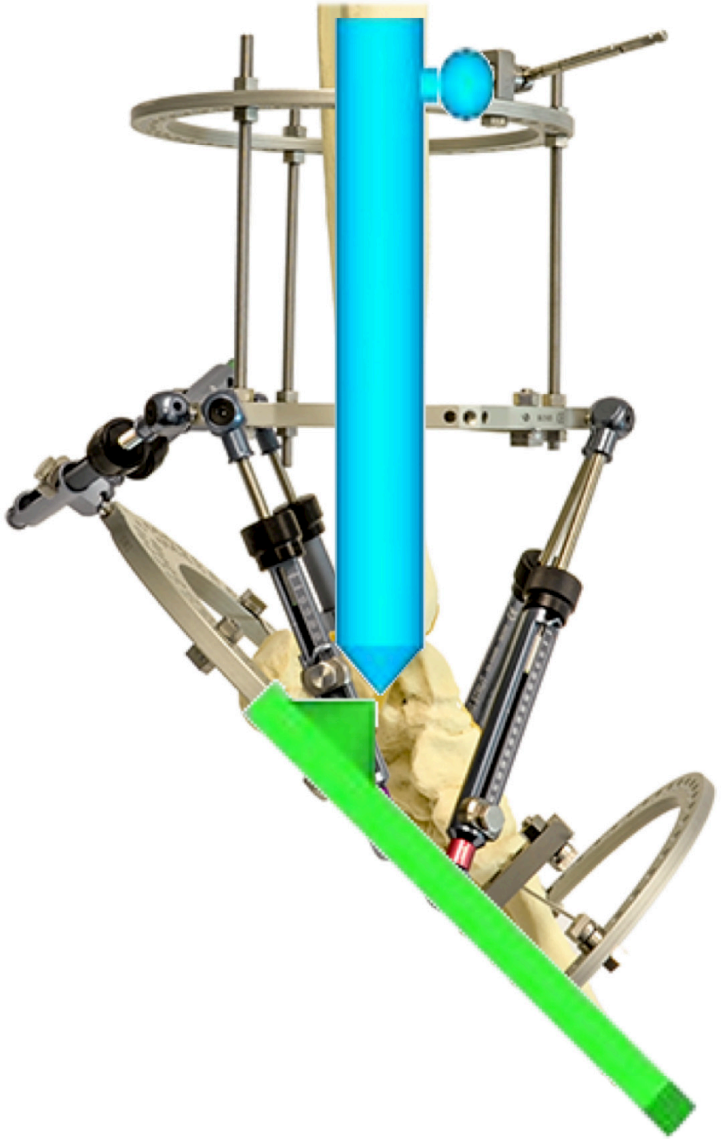


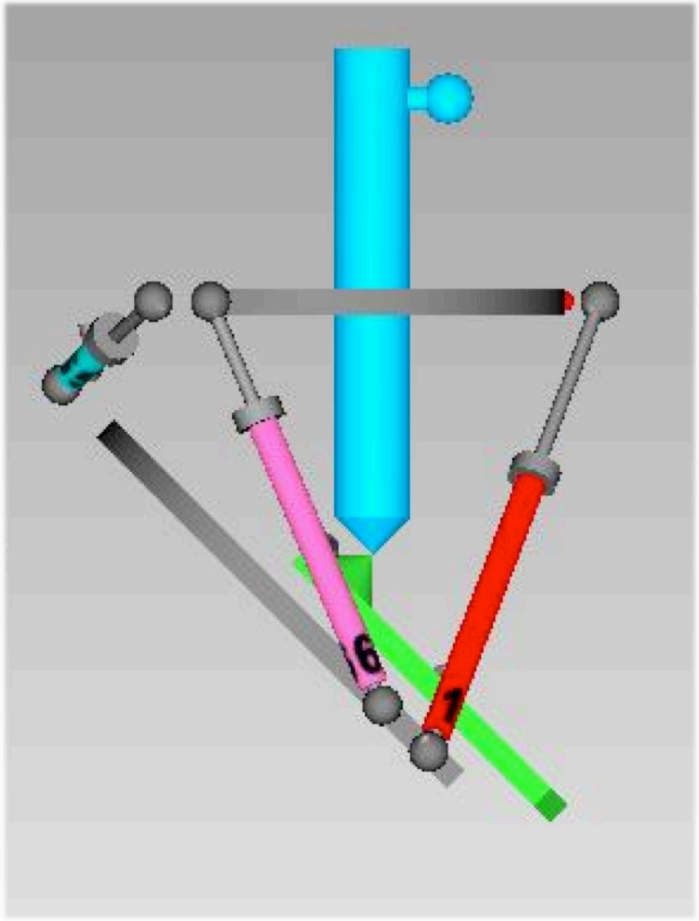
Confirm Frame Configuration



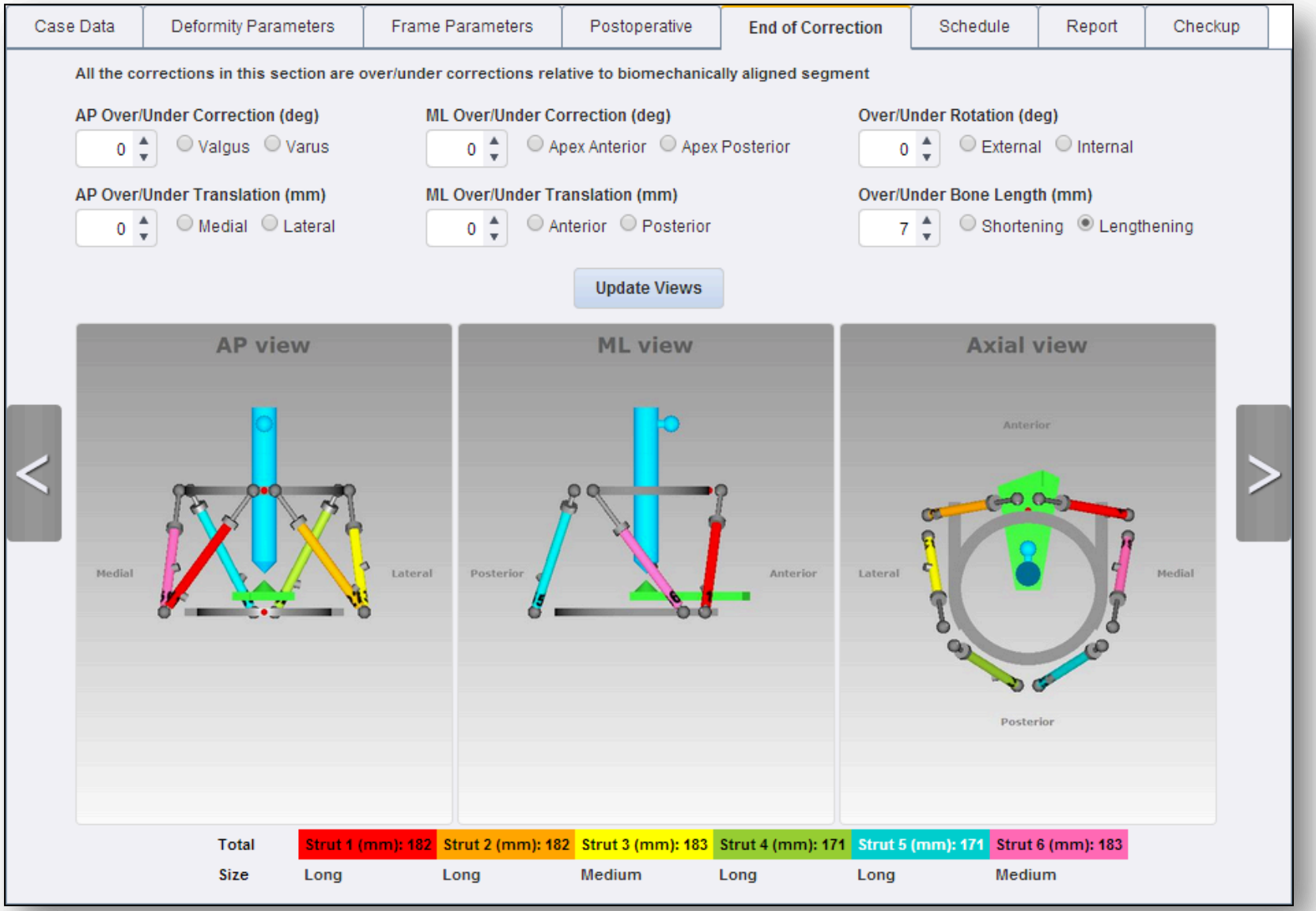


Confirm Frame Configuration



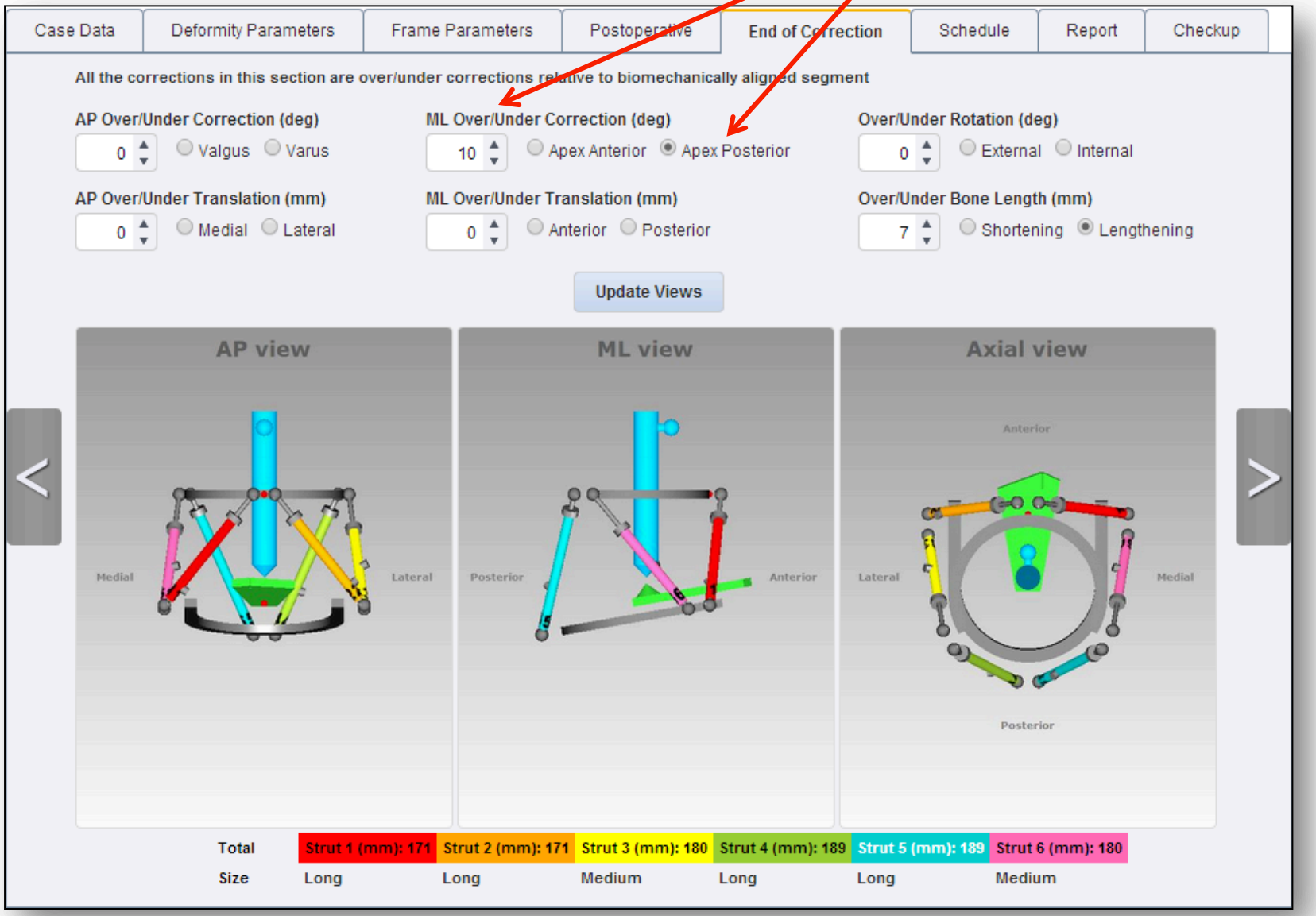


End of Correction



End of Correction

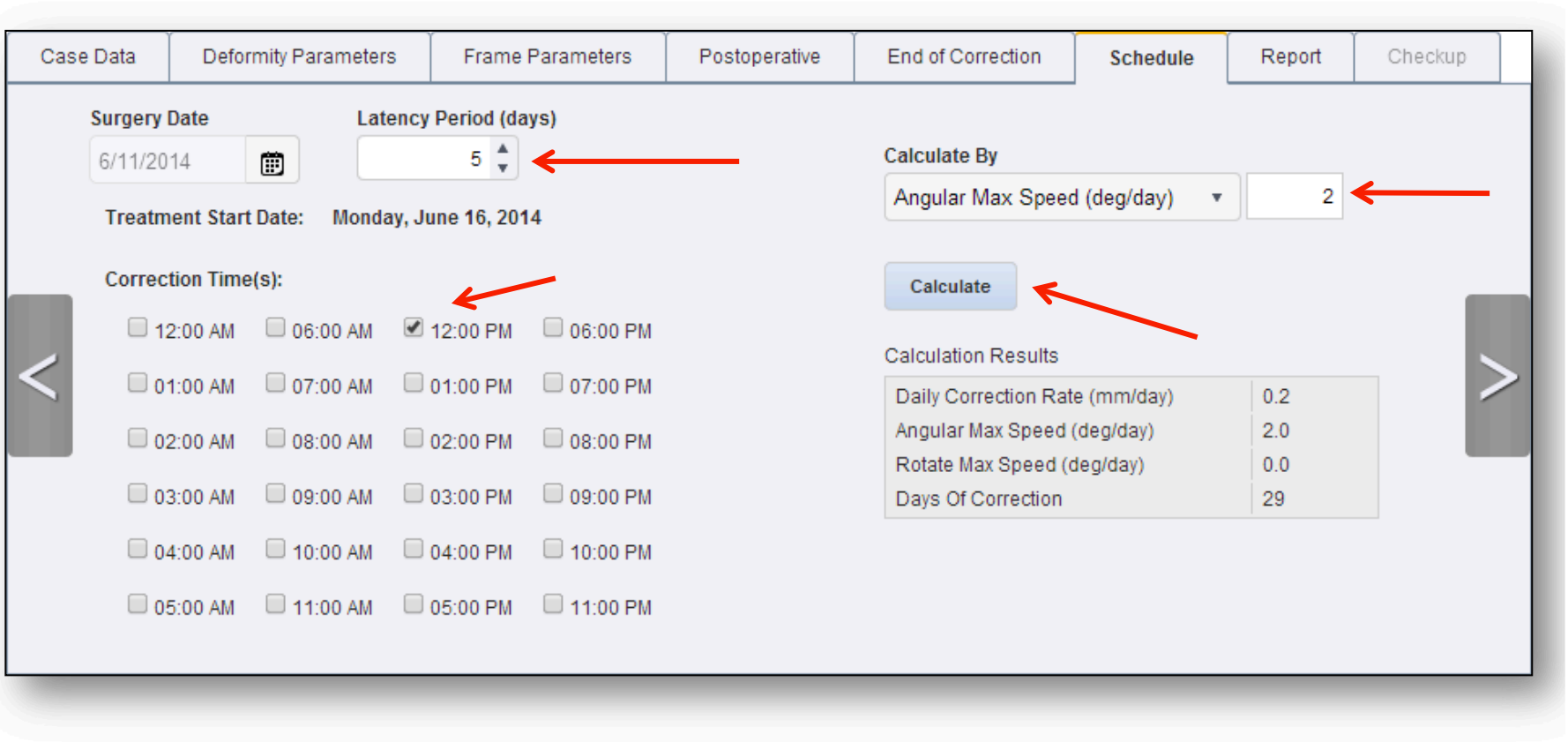
10º of over-correction may be added



TL-HEX™
TRUELOK HEXAPOD SYSTEM

DEFORMITY CORRECTION

Adjustment Schedule



Report

Note struts 4 and 5 size changes and acute/gradual length adjustments

Case Data | Deformity Parameters | Frame Parameters | Postoperative | End of Correction | Schedule | **Report** | Checkup

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

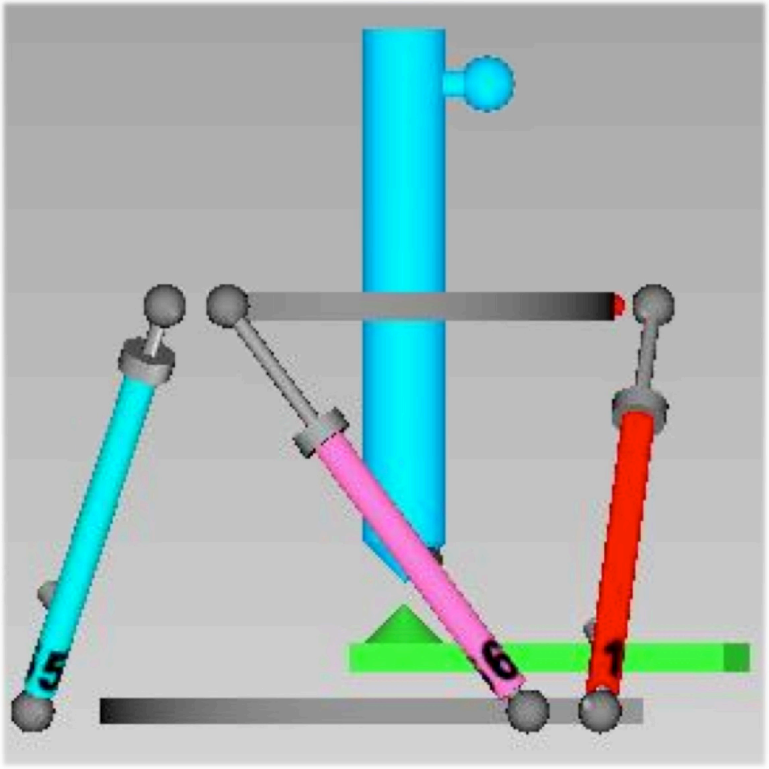
Print Prescription | Print BOM | Print Report

Strut Length A-Acute / G-Gradual

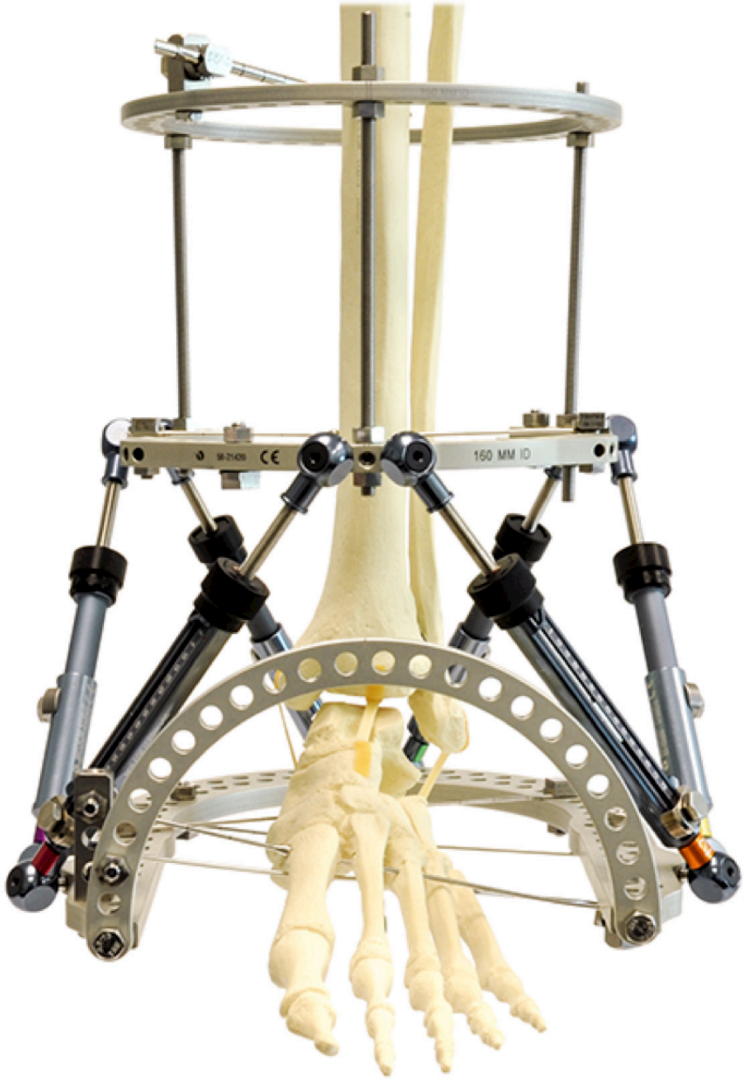
No	Date-Time	Strut 1: Red			Strut 2: Orange			Strut 3: Yellow			Strut 4: Green			Strut 5: Blue			Strut 6: Purple			Actions	
		Size	A	G	Size	A	G	Size	A	G	Size	A	G	Size	A	G	Size	A	G		
0	6/16/2014 12:00 AM	long	0	20	long	0	20	med	35	10	ushort	28	11	ushort	28	11	med	35	10	Details	Checkup
1	6/16/2014 12:00 PM	long	0	20	long	0	20	med	35	10	ushort	28	9	ushort	28	9	med	35	10	Details	Checkup
2	6/17/2014 12:00 PM	long	0	22	long	0	22	med	35	8	ushort	28	6	ushort	28	6	med	35	8	Details	Checkup
3	6/18/2014 12:00 PM	long	0	23	long	0	23	med	35	8	ushort	28	4	ushort	28	4	med	35	8	Details	Checkup
4	6/19/2014 12:00 PM	long	0	24	long	0	24	med	35	7	short	7	14	short	7	14	med	35	7	Details	Checkup
5	6/20/2014 12:00 PM	long	0	26	long	0	26	med	35	6	short	7	11	short	7	11	med	35	6	Details	Checkup
6	6/21/2014 12:00 PM	long	0	28	long	0	28	med	35	6	short	7	8	short	7	8	med	35	6	Details	Checkup
7	6/22/2014 12:00 PM	long	0	29	long	0	29	med	35	5	short	7	4	short	7	4	med	35	5	Details	Checkup
8	6/23/2014 12:00 PM	long	0	30	long	0	30	med	35	4	short	7	1	short	7	1	med	35	4	Details	Checkup
9	6/24/2014 12:00 PM	long	0	32	long	0	32	med	35	4	med	2	34	med	2	34	med	35	4	Details	Checkup
10	6/25/2014 12:00 PM	long	0	34	long	0	34	med	35	3	med	2	31	med	2	31	med	35	3	Details	Checkup
11	6/26/2014 12:00 PM	long	0	35	long	0	35	med	35	2	med	2	27	med	2	27	med	35	2	Details	Checkup
12	6/27/2014 12:00 PM	long	0	36	long	0	36	med	35	2	med	2	23	med	2	23	med	35	2	Details	Checkup
13	6/28/2014 12:00 PM	long	0	38	long	0	38	med	35	2	med	2	19	med	2	19	med	35	2	Details	Checkup
14	6/29/2014 12:00 PM	long	0	40	long	0	40	med	35	2	med	2	15	med	2	15	med	35	2	Details	Checkup
15	6/30/2014 12:00 PM	long	0	42	long	0	42	med	35	2	med	2	12	med	2	12	med	35	2	Details	Checkup
16	7/1/2014 12:00 PM	long	0	44	long	0	44	med	35	1	med	2	8	med	2	8	med	35	1	Details	Checkup
17	7/2/2014 12:00 PM	long	0	45	long	0	45	med	35	1	med	2	4	med	2	4	med	35	1	Details	Checkup
18	7/3/2014 12:00 PM	long	0	47	long	0	47	med	35	1	med	35	32	med	35	32	med	35	1	Details	Checkup
19	7/4/2014 12:00 PM	long	0	48	long	0	48	med	35	1	med	35	28	med	35	28	med	35	1	Details	Checkup
20	7/5/2014 12:00 PM	long	0	50	long	0	50	med	35	1	med	35	24	med	35	24	med	35	1	Details	Checkup
21	7/6/2014 12:00 PM	long	0	52	long	0	52	med	35	1	med	35	21	med	35	21	med	35	1	Details	Checkup
22	7/7/2014 12:00 PM	long	0	54	long	0	54	med	35	1	med	35	17	med	35	17	med	35	1	Details	Checkup
23	7/8/2014 12:00 PM	long	0	56	long	0	56	med	35	1	med	35	13	med	35	13	med	35	1	Details	Checkup

Deformity Correction

Deformity Correction



Completion of Deformity Correction



TEXAS
SCOTTISH RITE HOSPITAL
FOR CHILDREN