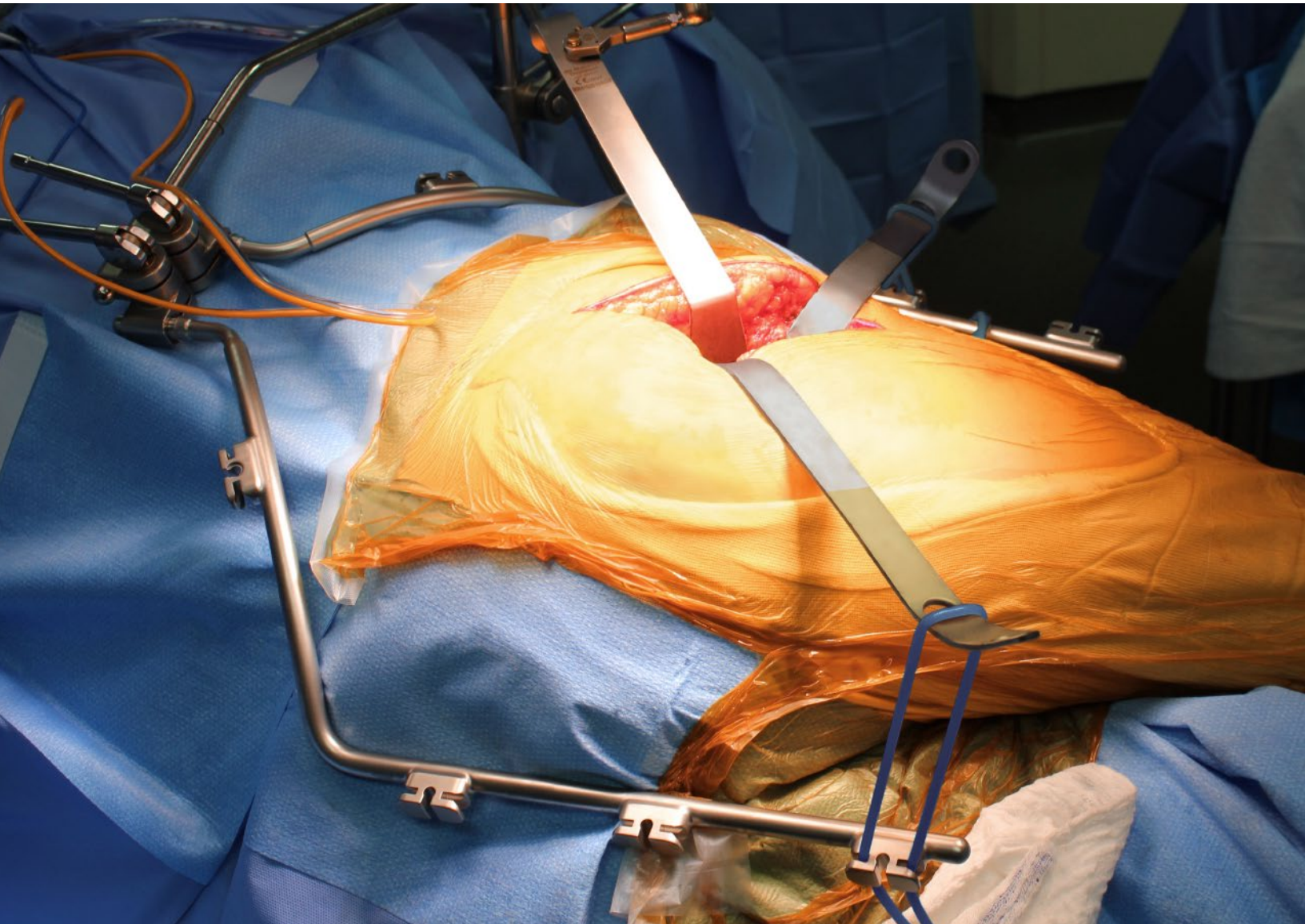


Thompson Retractor

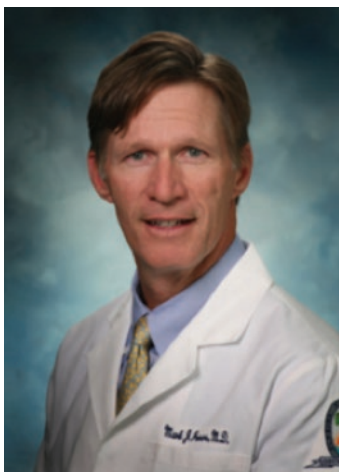
Uncompromised Exposure™



Thompson Techniques + User Manual: **HIP TETHER SYSTEM**

"The Thompson Hip System has an elegant design that optimizes the synergy between instrumentation and surgical technique allowing unimpeded visualization while performing muscle sparing (or minimally invasive) total hip arthroplasty."

- Mark J. Powers, MD, FACS, FAAOS



Mark J. Powers, MD, FACS, FAAOS

Dr. Mark Powers, the founding member of Florida Orthopaedic Specialists, is a board-certified and fellowship trained orthopaedic surgeon who received his undergraduate and medical degrees from Georgetown University. He completed his general surgical training at Georgetown University Medical Center and his orthopaedic surgical training at Brown University, Rhode Island Hospital. Dr. Powers received subspecialty training in Sports Medicine at the Salt Lake City Center of Sports Medicine in Utah, and completed a fellowship in Total Joint Replacement and Adult Reconstructive Surgery at the University of South Florida in Tampa. Dr. Powers is an associate clinical professor at Florida State University.

The Thompson Surgical Hip Retractor is ideal for orthopedic surgeons performing total hip replacement. This specialized system allows surgeons to attach retractor blades to a stable table mounted frame which eliminates the need for extra staff to hold retractors and weights.



Sterile Table Mounted Frame

Provides a stable and secure platform for retractors, eliminating the need for extra staff in the OR. Elite II Rail Clamp may be secured and adjusted within the sterile field.



Anatomically Designed Frame

Ideal for all hip procedures, the Hip Retractor Frame contains unique left and right curved arms, designed to contour the patient's body for a low profile set up and optimal retractor placement.



Tethers

Quickly attach retractor blades to frame, allowing movement and flexibility. Tethers are compatible with any retractor blades.



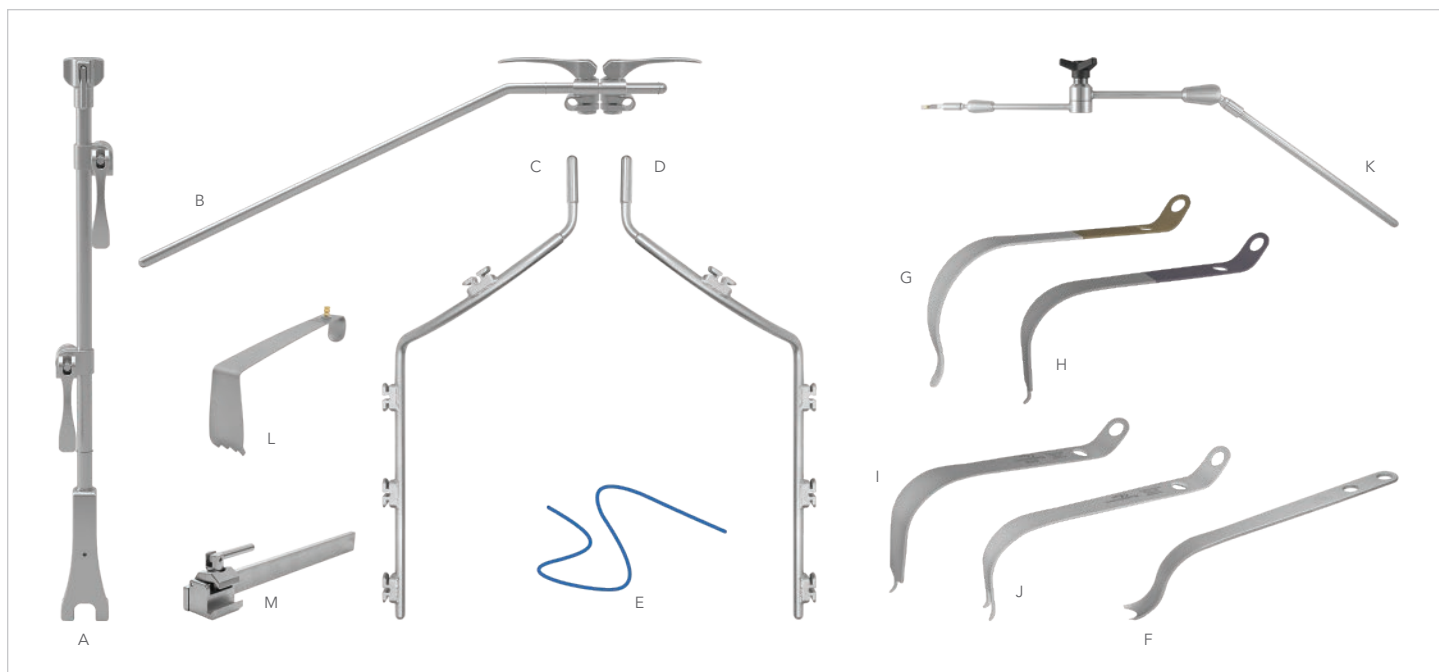
NOTE

Femur Elevator Kit (#90025) and Muscle Retractor Kit (#SL90060) also available. Call for information.



NOTE

Hip Retractor Tether Frame is compatible with any hip retractor blades. Blade purchase not required for use.



HIP TETHER SYSTEM

#SL82014

REF	QTY	ITEM DESCRIPTION	PART #
A	1	Elite III Rail Clamp w/2 Cam Joints 22"	43905AC
B	1	Crossbar w/2 Cam Jts 7" x 19 ½"	43990
C	1	20" Curved Arm with Cleats 1	44203
D	1	20" Curved Arm with Cleats 2	44204
E	2	24" Tethers - Pack of 5	42105
F	1	Femoral Neck Elevator	45300
G	2	Curved Cobra Gold 12 ½"	45302C
H	2	Curved Hohmann Narrow Purple 12"	45306C

REF	QTY	ITEM DESCRIPTION	PART #
I	1	Curved Hohmann Wide 12"	45307
J	1	Curved Dual Prong 12"	45308
K	1	S-Lock Articulating Arm	SL42190
L	1	Hibbs w/Teeth Long 25mm x 75mm	SL46411T
M	1	Rail Extender 20" Single Clamp	41938
	1	Instrument Case 26" x 10" x 5"	50000BL
	1	Instrument Case 22" x 11" x 3 ½"	50000G



NOTE

As we continually strive to provide the best products possible, some of the images in this user manual may appear slightly different from the product received.



NOTICE

The Thompson Retractor is provided in a non-sterile condition. Reference the Thompson Retractor IFU for cleaning, sterilization, and care instructions, as well as additional warnings and cautions.



CAUTION

Avoid compressing the patient's body with frame components to prevent nerve damage.

We recommend relaxing tension on retractors every 20 minutes to ensure proper blood flow.

Frame Set Up

Below are the suggested frame set up steps for Anterior Hip exposure, as outlined by Dr. Powers. Please note that this frame setup may also be used for other approaches, such as posterior or lateral.

Step 1: Attach Elite to Bed

Place Elite Rail Clamp onto the table rail over the sterile drape on the side opposite of the surgeon, and at the axilla of the patient. Secure by turning the top knob clockwise, utilizing the hanging handles for leverage when needed.

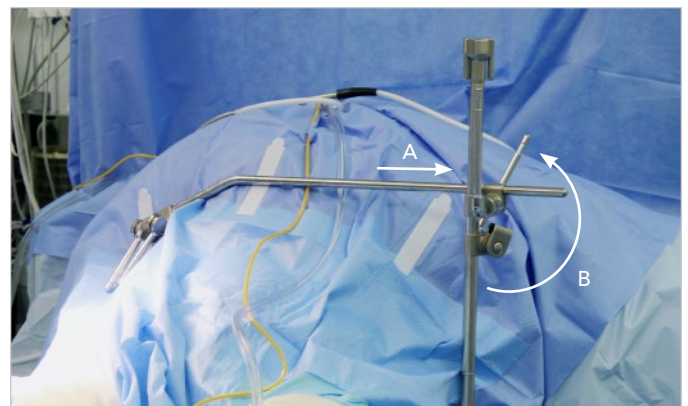
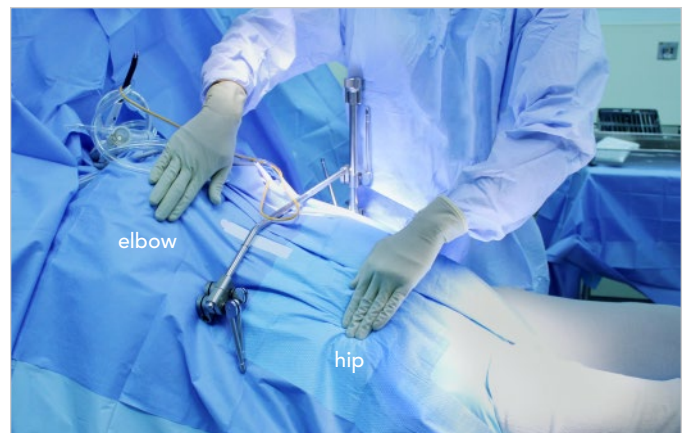
TIP: Position the rail clamp as far north as possible, or at patient's mid-chest level.

i NOTE
If using a Hana® Table or leg positioning system such as the Arch System, add a 20" Rail Extender (#41938) to the table before attaching Elite Rail Clamp.



Step 2: Attach the Crossbar

- A** Position the crossbar in the rail clamp joint and adjust so that the joint is higher up, with the distal end of the arm angling down towards the lateral side of the patient.
- B** Lock the crossbar into the joint by flipping the cam handle.



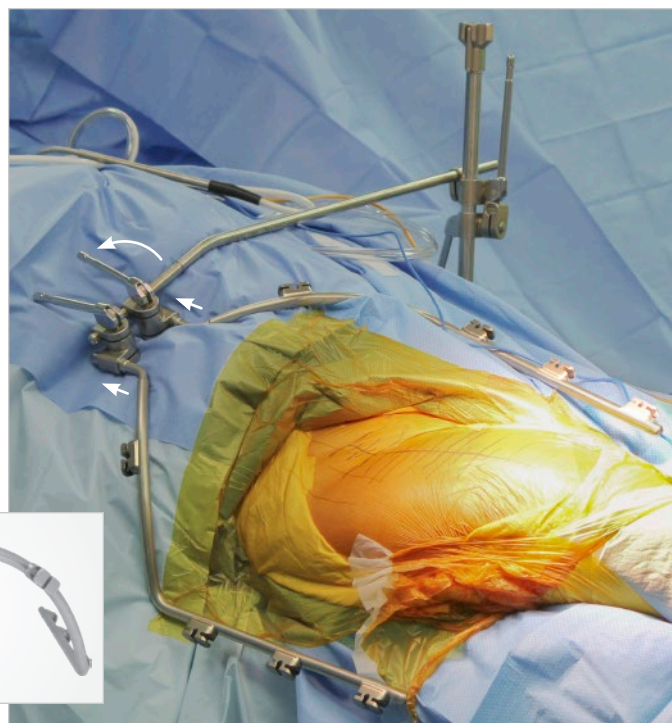
Frame Set Up (continued)

Step 3: Attach the Curved Arms

Position the first curved arm in the joint on the crossbar. The curved portion of the arm will contour for a low-profile set-up around the patient anatomy. Lock the arms into the joint by flipping the cam handle, grasping the crossbar for leverage. Position second curved arm in the second joint on the crossbar in the same manner.

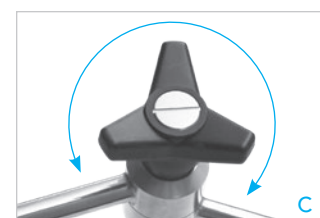
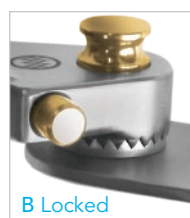
TIP: Keep the lateral curved arm as low as possible so that it does not interfere when broaching the femur.

TIP: The curved arms will create a "half moon" shape (see inset) when they are in the correct orientation.



Step 4: Attach the Articulating Arm

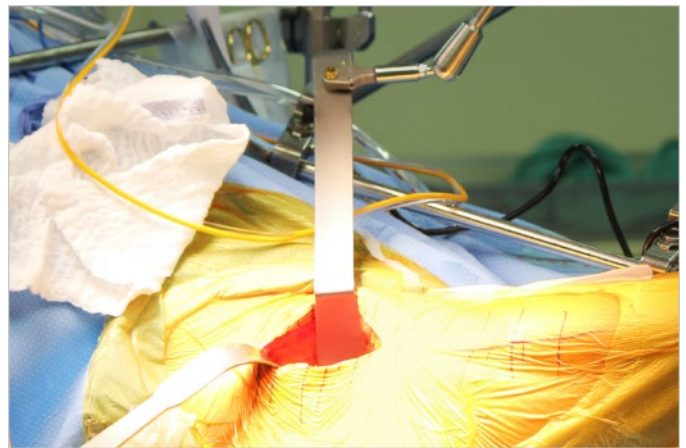
- A** Position S-Lock Articulating Arm in rail clamp's second joint. Lock the arm into the joint by flipping the cam handle.
- B** Attach long Hibbs blade to articulating arm by pushing the gold plunger, inserting blade nipple, and releasing plunger. Hibbs blade may be used in the swivel or locked position. Press plunger to easily switch between swivel and locked.
- C** Release the tension of the arm by turning the black knob counter-clockwise to loosen. Position as desired and lock into place by turning the black knob clockwise to tighten.



Exposure Techniques

Step 5: Dissection Technique

Use Hibbs blade, attached to S-Lock Articulating Arm, for initial dissection and to gain initial exposure in preparation for retraction.



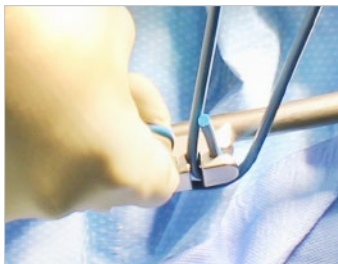
Step 6: Blade Placement (Acetabulum)

Choose the appropriate retractor blade. Insert and retract. When blade is in the desired position, attach to curved arm with tether, using slots on curved arm "cleats" to secure. Repeat this step for placement of multiple blades.



NOTICE

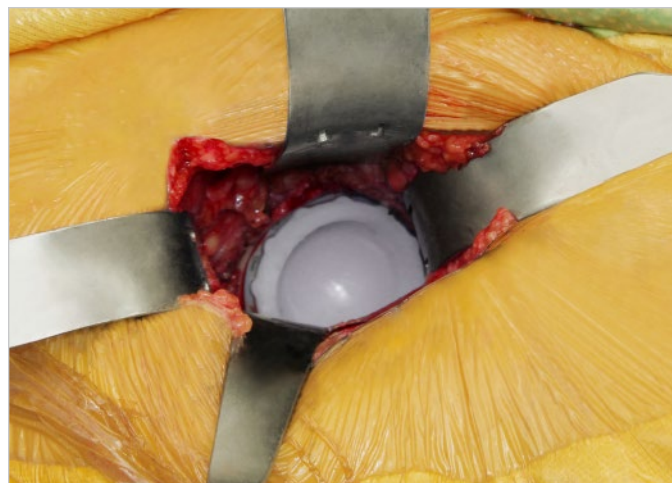
Service life of tethers is 10 reprocessing cycles.



Exposure Techniques *(continued)*

Step 7: Exposure (Acetabulum)

Exposure has been attained.

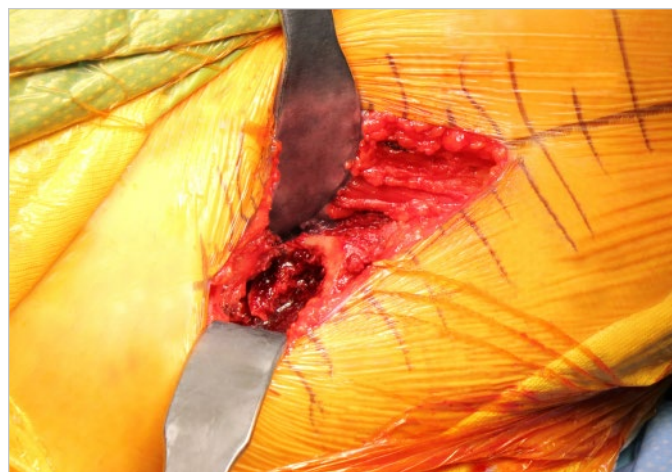


Step 8: Femur Elevation

Visualization of the proximal femur may be achieved using the femoral elevator to lift and gain exposure.

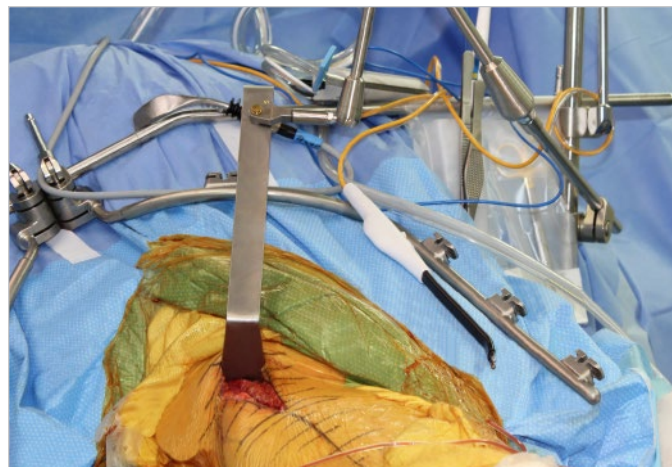
NOTE: Frame may be left in place while broaching the femur.

NOTE: A Femur Elevator Kit (#90025) may be used at this time.



Step 9: Closing

Use Hibbs blade, attached to articulating arm, to aid in closing the incision.



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011123
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Uncompromised Exposure

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Patents: US4971038, US5025780, US5888197, US5897087, US5902233, US5984865, US6033363, US6416465, US6511423, US7338442, US7749163, US8257255, US8360971, US8617064, US9872675

Other patents pending.

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