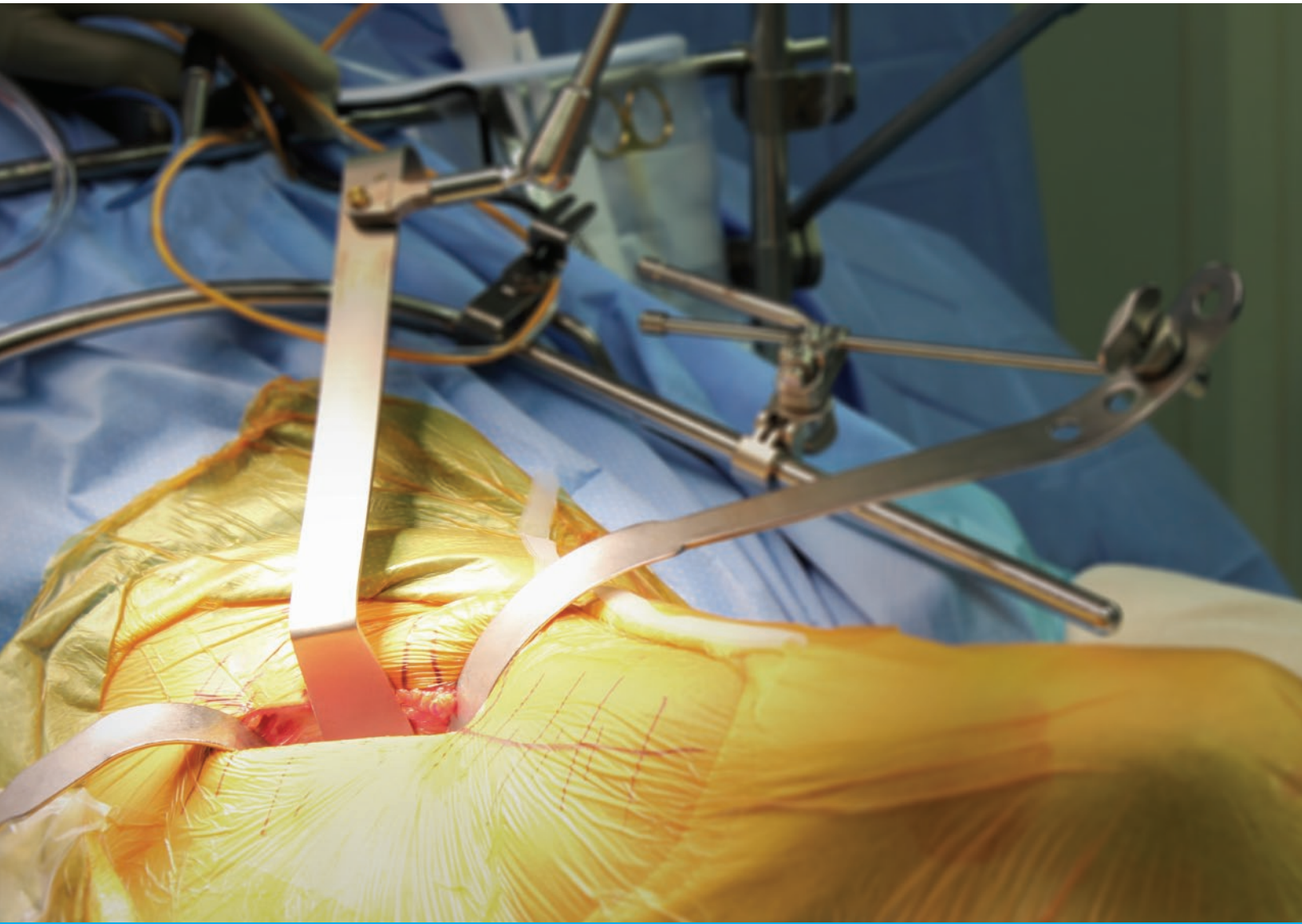


# Thompson Retractor

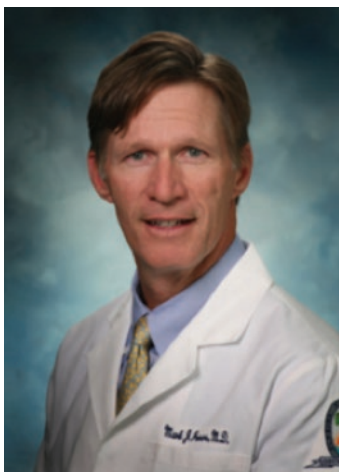
Uncompromised Exposure™



## Thompson Techniques + User Manual: HIP 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."*

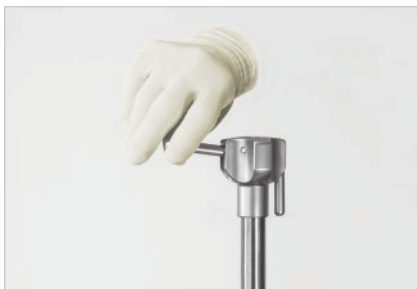
- Mark J. Powers, MD, FACS, FAAOS



## Mark J. Powers, MD, FACS, FAAOS

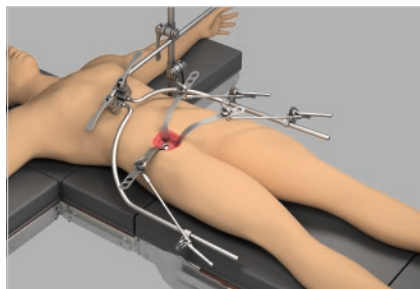
Dr. Mark Powers, the founding member of Florida Orthopaedic Specialists, is a board-certified and fellowship trained orthopaedic surgeon who received his undergraduate and medical degrees from Georgetown University. He completed his general surgical training at Georgetown University Medical Center and 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 Mount

Mount and adjust the frame within the sterile field, using the Elite Rail Clamp.



### Anatomically Designed Frame

Low profile, independent frame arms contour to patient anatomy.



### Universal Blade Adapter

Quick set up, with rigid attachment along flat blade surface.



#### NOTE

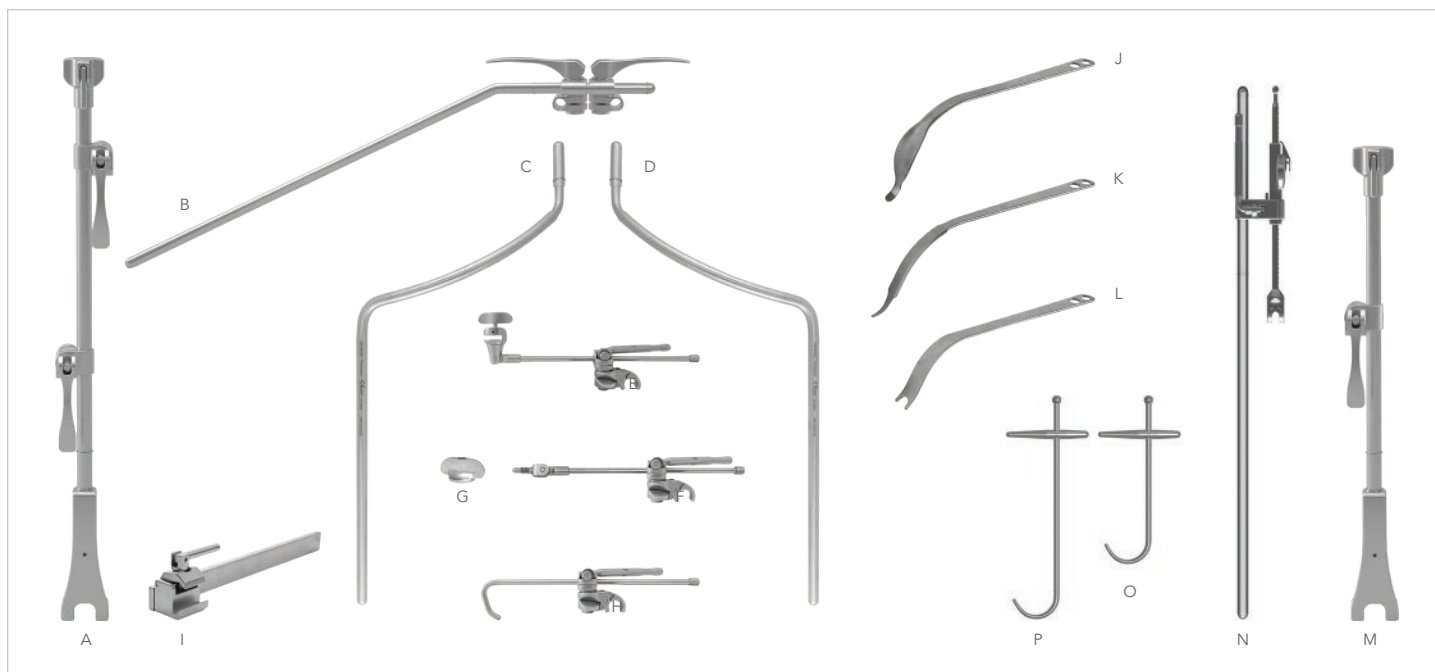
Femur Elevator Kit ( #90025 ) and Muscle Retractor Kit ( #SL90060 ) also available. Call for information.



#### NOTE

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

## Hip System Components



### HIP SYSTEM

#SL82015

REF	QTY	ITEM DESCRIPTION	PART #
A	1	Elite III Rail Clamp w/2 Cam Joints 22"	43905AC
B	1	Crossbar w/2 Cam Joints 7" x 19 1/2"	43990
C	1	20" Curved Arm 1	44201
D	1	20" Curved Arm 2	44202
E	4	Cam II Clip-On Blade Adapter 8 1/2"	42126BP
F	2	Orthopedic Cam II Clip-On 8 1/2"	42126OP
G	3	Orthopedic Retractor Handle Knob	60025
H	1	Orthopedic Cam II Clip-On Hook 8 1/2"	42126OHP
I	1	Rail Extender 20" Single Clamp	41938

REF	QTY	ITEM DESCRIPTION	PART #
J	3	Cobra Hip Blade 11"	45301
K	3	Hohmann Hip Blade 11"	45305
L	3	Dual Prong Hip Blade 11"	45309
M	1	Elite III Rail Clamp w/1 Cam Joint 18"	43902AC
N	1	25" Straight Arm with Elevator Handle	44301
O	1	Femur Hook 9"	44309
P	1	Femur Hook 12"	44312
	1	Instrument Case 26" x 10" x 5"	50000BL
	2	Instrument Case 22" x 11" x 3 1/2"	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.

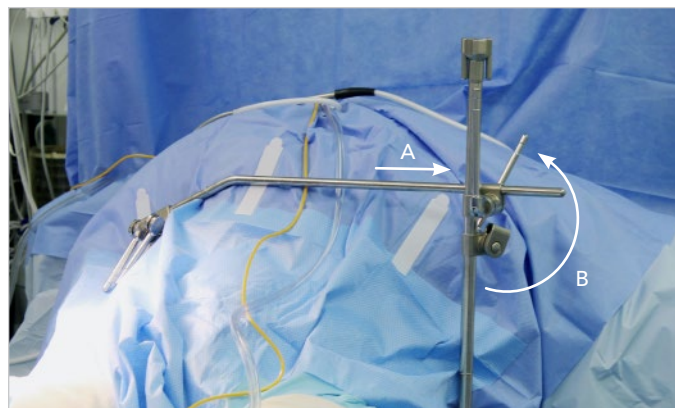
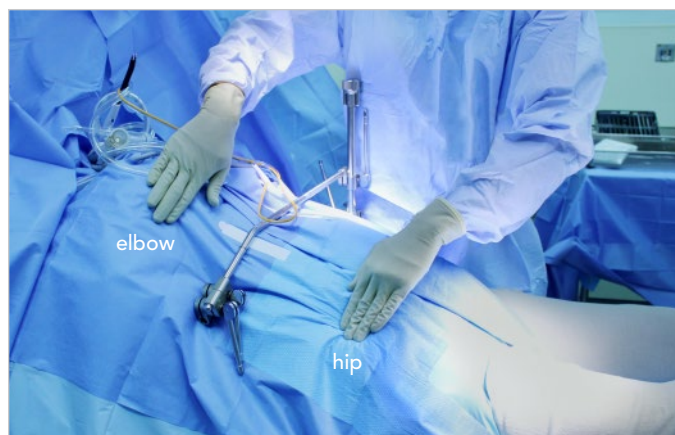
#### **i** NOTE

If using a Hana® Table ( pictured ) 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.





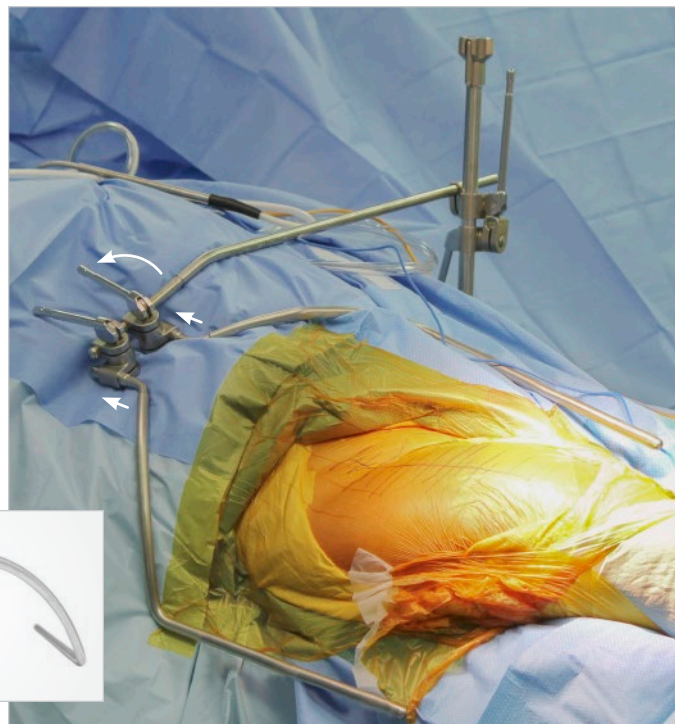
## Frame Set Up ( continued ) + Dissection

### 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.

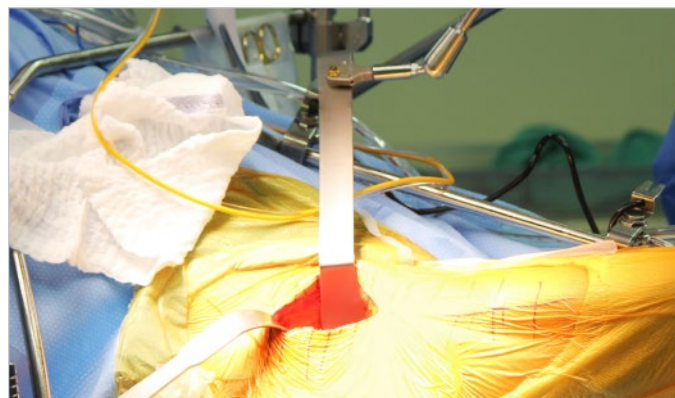
**TIP:** The curved arms will create a “half moon” shape ( see inset ) when they are in the correct orientation.



### Step 4: Dissection

Perform initial dissection as desired.

Optional Hibbs blade and S-Lock Articulating Arm shown, call for ordering information.



## Exposure Techniques

### Step 5: Blade Placement (Acetabulum)

Choose the appropriate retractor blade and attach to retractor handle of choice. Insert and retract. When blade is in the desired position, clip handle to curved arm and lock by flipping the cam handle. Repeat this step for placement of multiple blades.

**TIP:** For faster attachment when using Universal Blade Adapter or Orthopedic Retractor Handle and Knob, have an assistant attach all of the retractor handles to your preferred blades before beginning surgery.

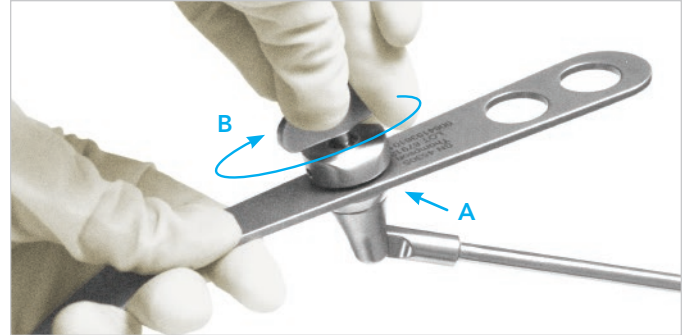
#### Universal Blade Adapter

**A** Attach blade to handle by inserting flat portion of blade into slot on distal end of handle. Handle may be placed anywhere along proximal end of retractor, assuming it is a flat surface.

**B** Tighten by turning the handle knob clockwise.

( This step may be done before or after attaching retractor handles to the frame. )

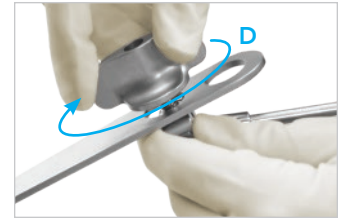
**NOTE:** Attach handle near center of blade to create a secure connection and avoid damage to the handle.



#### Orthopedic Retractor Handle And Knob

**C** Attach retractor blade to the Orthopedic Handle by placing the handle screw into the retractor blade hole.

**D** Add knob and turn clockwise to secure the blade in position. ( This step may be done before or after attaching retractor handles to the frame. )



#### Orthopedic Hook

With retractor blade in place, insert hook into the retractor blade hole and attach to frame.



#### Attaching Clip-On Handles To The Frame

**E** Handles may be added anywhere on the frame arms or crossbar. Clip retractor handle to frame in desired location.

**F** Position blade in the incision, then lock retractor in place by flipping the cam joint into the 'locked' position.

**TIP:** To prevent blade from rising up when locking handle, hold blade in position with opposite hand and grasp onto handle for leverage while locking.



#### Clip-On Retractor Handle Removal

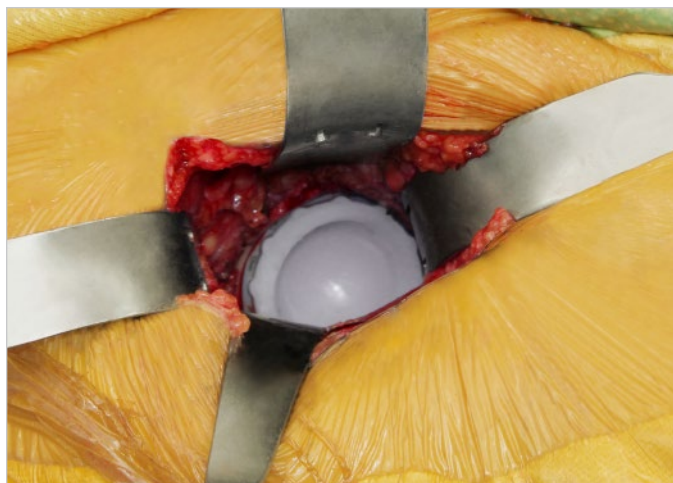
**G** Unlock retractor handle by flipping the cam joint into the 'unlocked' position.

**H** Pinch the back of the cam joint using thumb and index finger, and gently lift up off of arm.

## Exposure Techniques *( continued )*

### Step 6: Exposure (Acetabulum)

Exposure has been attained.



### Step 7: Femur Elevation

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

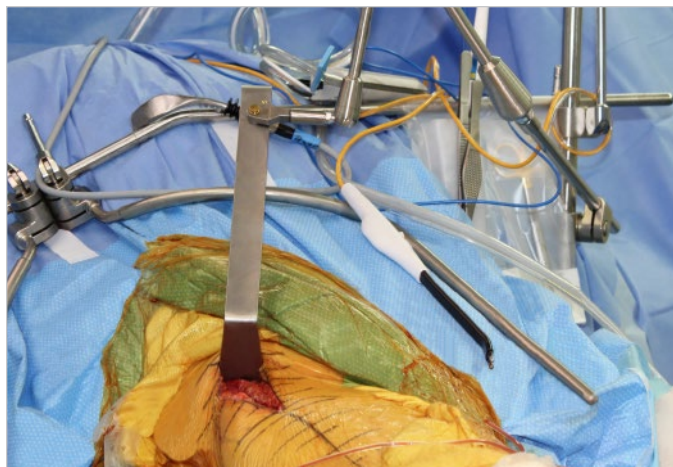
**NOTE:** Frame may be left in place while broaching the femur.



### Step 8: Closing

Close incision as desired.

Optional Hibbs blade and S-Lock Articulating Arm shown, call for ordering information.



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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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