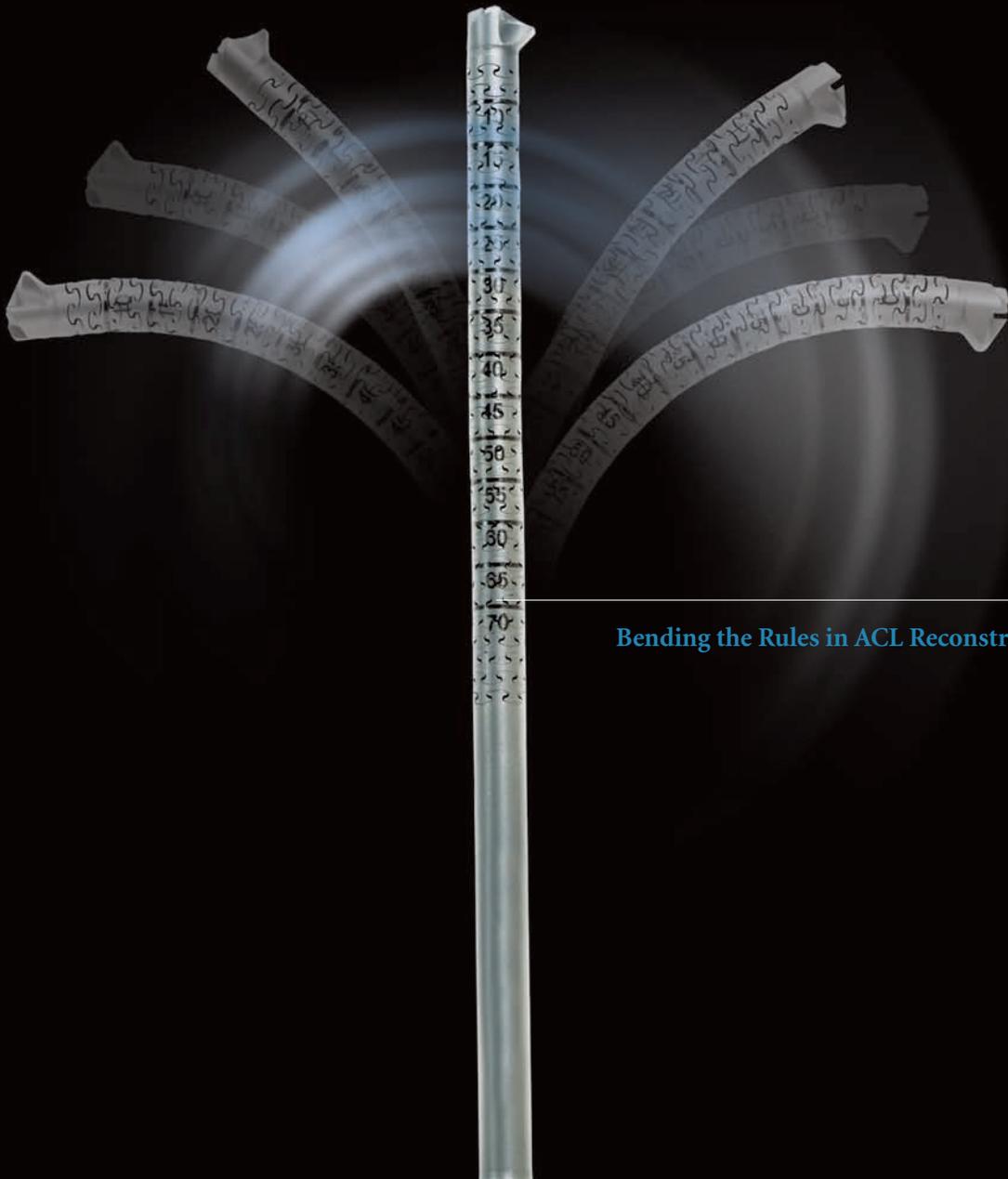


# VersiTomic

## Flexible Reaming System

### Surgical Technique

- Versatile
- Flexible
- Anatomic ACL Reconstruction



Bending the Rules in ACL Reconstruction



# VersiTomic

## Flexible Reaming System

### Surgical Protocol

#### **Introduction**

The VersiTomic Flexible Reaming System is designed to optimize versatile and anatomic placement of femoral socket(s) for ACL reconstruction.

The “puzzle piece” flexible drill technology facilitates anatomic femoral socket placement using standard technique, graft selection and fixation methods common to ACL reconstruction.

The Femoral socket(s) may be created via the anteromedial portal or tibial tunnel while maintaining the knee at 90 degrees of flexion with The VersiTomic Flexible Reaming System.

VersiTomic Flexible Reamers are available in sizes 4.5, 7.0, 8.0, 9.0, 10.0mm.

VersiTomic reamers require minimal force to advance in bone and may be run in reverse drill setting.

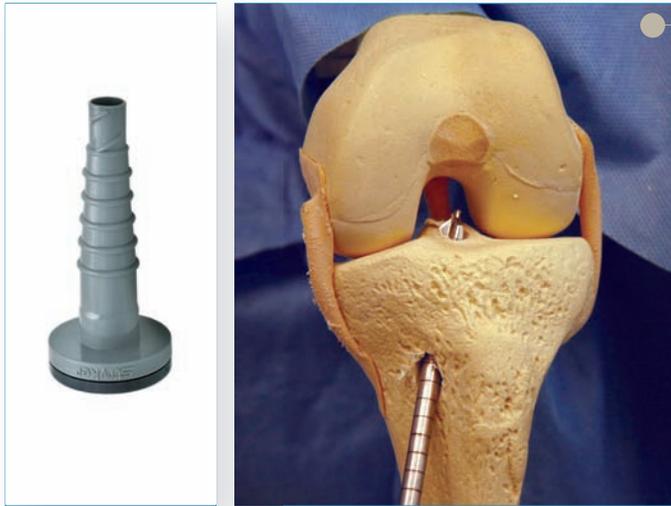
VersiTomic reamers feature a mark indicating the profile of the Asymmetric reamer head.

The Asymmetric reaming head of the VersiTomic reamer enables smooth passage through the tibial tunnel and anteromedial portal, helping to avoid damage to bone or intra-articular structures.

# VersiTomic

## Flexible Reaming System

### Surgical Protocol



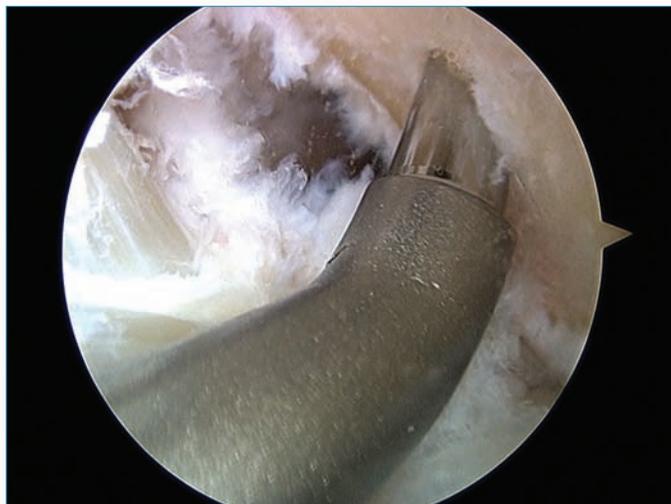
#### Tibia Tunnel Preparation

- ▶ Femoral Socket preparation with the VersiTomic Flexible Reaming System is preferentially performed after a standard tibial tunnel is created.
- ▶ A tibial tunnel plug inserted into the tibia tunnel entrance helps to maintain fluid distention in the joint and enhance placement of the flexible guide pin into the femur.

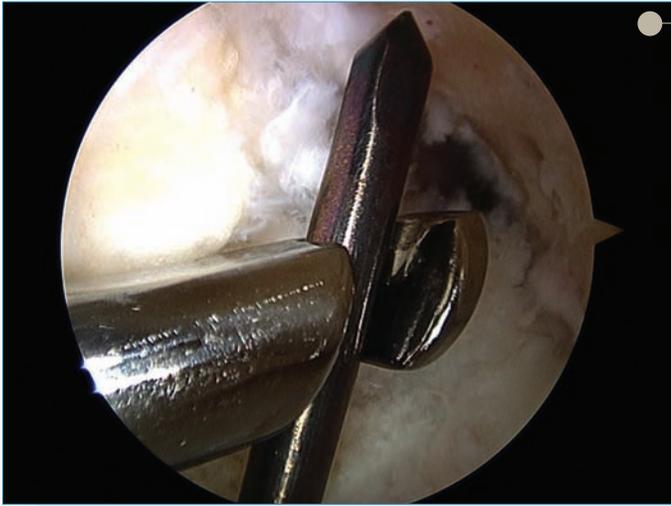


#### Femoral Socket Identification

- ▶ Under arthroscopic visualization the location of the femoral socket is identified. To ensure there is adequate backwall for interference screw fixation insert a standard femoral aimer through the anterior medial portal and create a small pilot hole with a standard beath pin marking the center of the femoral socket.
- ▶ The Starter Awl is then used to create the pilot hole for the flexible guide pin. Once passed through the AM portal, its tip is placed into the pilot hole. The tip is pointed superiorly and laterally and inserted manually until the collar of the awl is flush against bone.

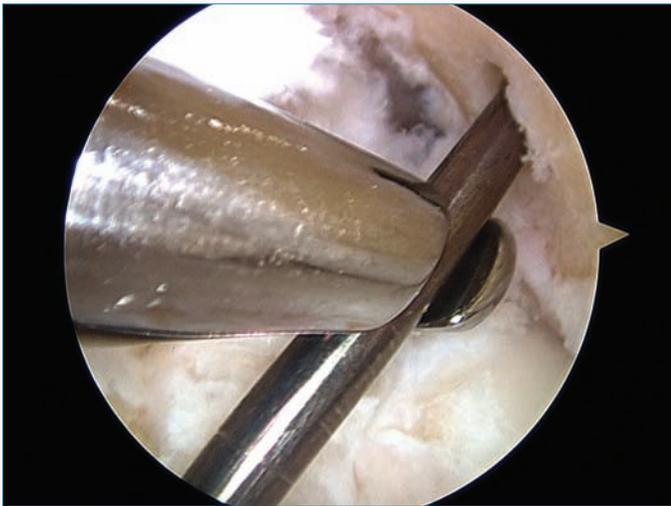


**Note:** The direction of the pilot hole and awl determines the path of the flexible guide pin and its exit on the femur. The pilot hole should be directed where the surgeon desires the pin to exit out the thigh.



### Femoral Placement of the Flexible Guide Pin

- ▶ The VersiTomic system comes with three different choices of femoral aimers to aid in the placement of the flexible guide pin. A left, right knee aimer or forked femoral aimer provide flexibility in securing guide pin placement.
- ▶ Preferably the assistant manually inserts the VersiTomic Flexible guide pin through the tibial tunnel until the tip of the pin touches the roof of the intercondylar notch.
- ▶ The surgeon inserts the appropriate femoral guide through the AM Portal capturing the guide pin 1.5cm from its tip. The guide is used to manipulate the tip of guide pin into the pilot hole created by the awl until it is firmly seated and secure.
- ▶ Once the pin is in the pilot hole, disengage the aimer from the pin. A drill equipped with the pin driver attachment is fed onto the pin and advanced until it is 3-4cm shy of the tibial tunnel entrance. The Flexible guide pin is then advanced in small increments until it exits out of the femur. Once secured outside the skin the pin should freely move but remain secured in position.



**Note:** Advancing the pin driver close to the tibial tunnel entrance helps prevent the flexible guide pin from wobbling during drilling and helps ensure solid advancement of the pin through the femur.



# VersiTomic

## Flexible Reaming System Surgical Protocol



### Femoral Socket Preparation through the AM portal

- ▶ With the knee remaining at 90 degrees of flexion a #5 passing suture may be used to shuttle the pin out the antero medial portal. A grasper inserted through the AM portal is used to retrieve the suture and pin out the portal.



### Drilling the Femoral Socket

- ▶ Referencing the markings of the eccentric head insert the VersiTomic drill over the guide pin with the single cutting flute away from the medial femoral condyle and PCL. Prior to drilling ensure the flexible reamer is fully inserted over the flexible guide pin and flush to bone. It is advised that the proximal end of the guide pin should exit the cannulation of the drill handle. Advance the reamer by hand to the lateral wall of the intercondylar notch. Under power drill the femoral socket to the desired depth. After the desired tunnel length is reached remove the reamer from the joint space. If necessary the drill is removed in reverse drill setting. **Accurate drill depth measurements are noted with compression of the drill as shown.**



### Graft Placement and Fixation

- ▶ The free ends of a #5 passing force fiber suture are reloaded on the eyelet of the flexible guide pin. The pin and suture ends are removed out the lateral aspect of the thigh and secured. A grasping tool inserted through the tibia tunnel is used to retrieve the looped end of the suture out the tibia tunnel. The suture loop is used to pass the graft into position. Final graft fixation is performed with Stryker Biosteon Interference screws on the femur and tibia.



### VersiTomic Aimers and Footprint AWL

The VersiTomic Footprint Awl is used to mark the central position of the native ACL and create a pilot hole to ensure accurate exit of the VersiTomic guide pin.



### VersiTomic Aimers Left and Right

The VersiTomic Aimers come equipped with a slot specifically designed to grab, bend, place, and manipulate the VersiTomic guide pin with ease while inside the joint. The left and right aimers are designed to give the surgeon a customized approach to the surgical technique.



### Ordering Information

Product Number	Description
234-108-010	Aimer, Right Knee
234-108-011	Aimer, Left Knee
234-108-013	Starter Awl
234-108-020	Flexible Guide Pin
234-108-045	4.5mm Flexible Reamer
234-108-070	7mm Flexible Reamer
234-108-080	8mm Flexible Reamer
234-108-090	9mm Flexible Reamer
234-108-100	10mm Flexible Reamer

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**Joint Replacements**

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**Trauma, Extremities & Deformities**

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**EMS Equipment**

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