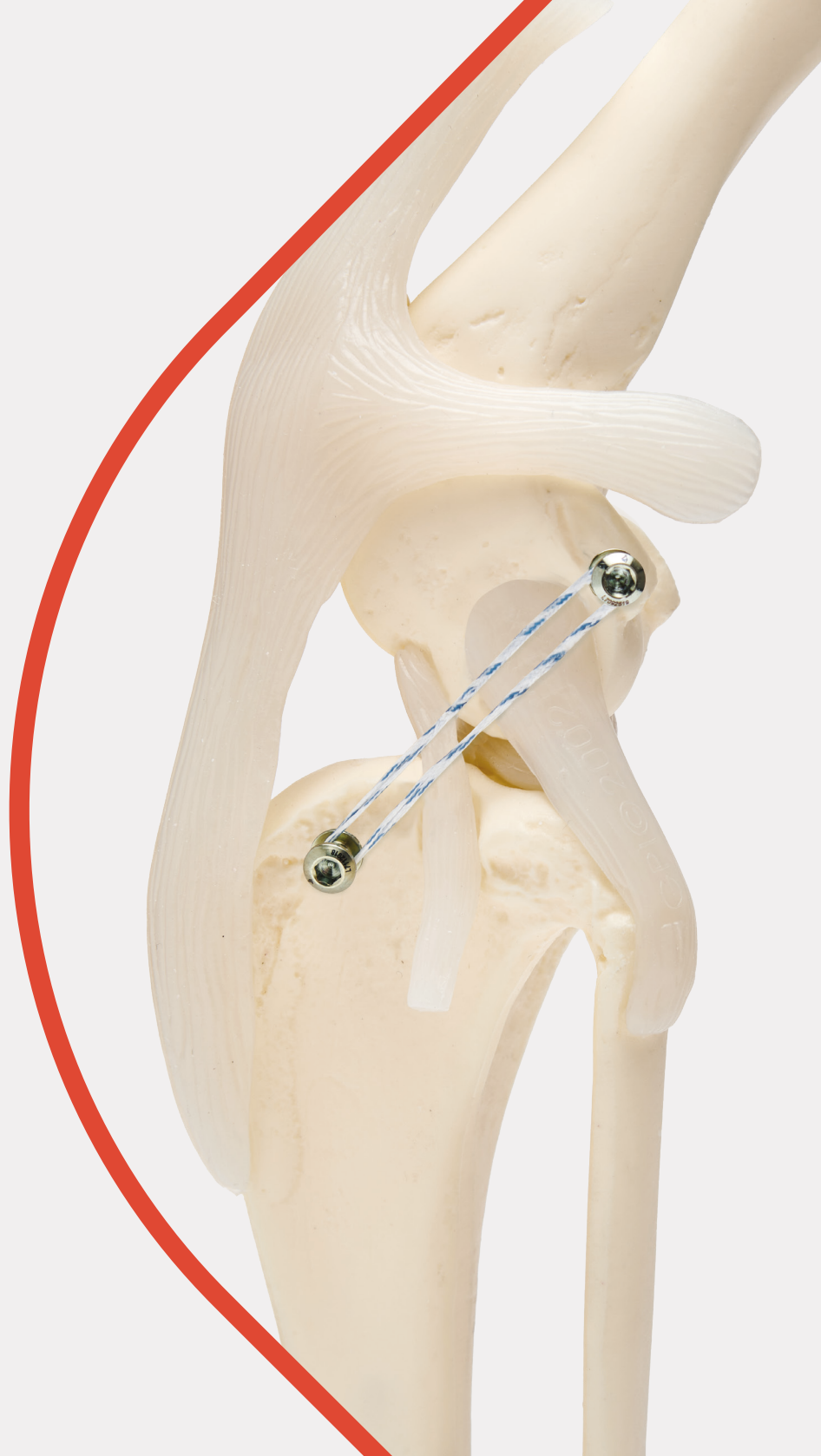


SURGICAL TECHNIQUE

OrthoZip
LATERAL STABILIZATION SYSTEM



Product Information

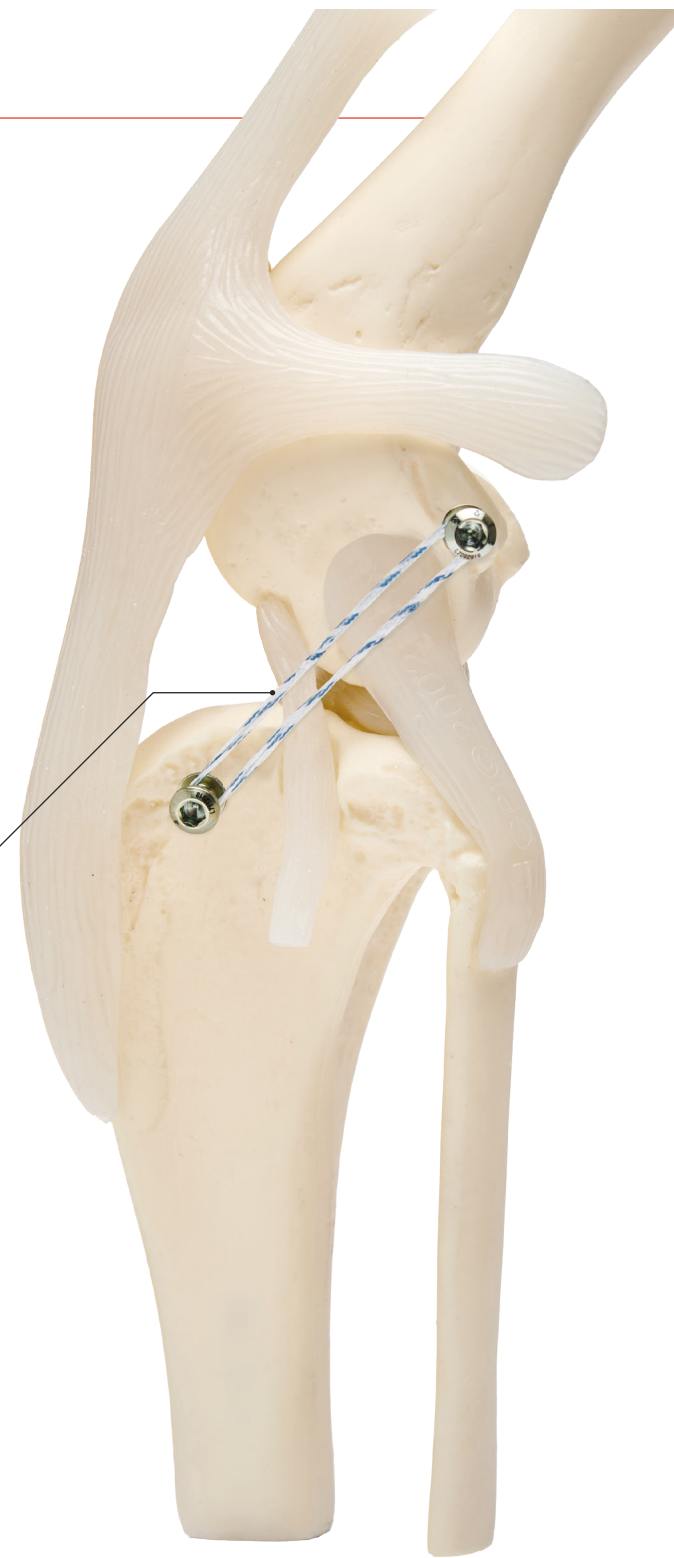
OrthoZip, featuring SilverPlus antimicrobial

A novel option for repair of the CCL using a minimally invasive lateral approach to the stifle, combining an antimicrobial coated ultra-high molecular weight polyethylene self-locking suture and titanium alloy bone anchors. Two bone anchors are implanted on isometric locations on the lateral tibia and femur and connected by a self-retaining polyethylene suture.

This procedure offers added benefits over traditional lateral suture with an antimicrobial coating, stronger overall stabilization of the stifle, and a material that will not creep or stretch compared to monofilament nylon.

Product Benefits

- Isometric, Adjustable & Strong
- Self-locking knotless/crimpleless system
- Simple with minimal instrumentation and inventory
- Offered in two sizes for small and large breeds
- Infection prevention featuring SilverPlus® antimicrobial
- Ultra-high strength with UHMWPE polyethylene



Product Components

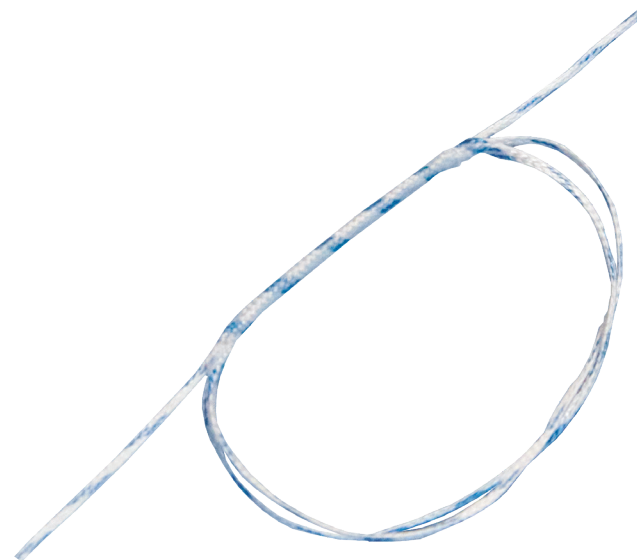
OrthoZip Titanium Alloy Cancellous Bone Anchors

- Titanium alloy bone anchors provide a smooth stress-free surface for the suture
- Anchor heads keeps suture securely on post body and are self-tapping with a Hex drive
- Available in two sizes for small and large breeds, cancellous threads for extra retention



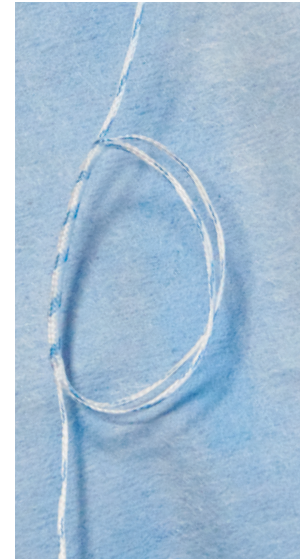
OrthoZip Self-Locking Suture

- Made from UHMWPE (Ultra High Molecular Weight Polyethylene) orthopedic suture
- Available in USP #2 and #5
- >2X the strength of standard fiber loops
- Blue tracer fiber for easy visibility
- Pre-sterile: ready to use in two sizes for small and large breeds
- High grade medical certified materials
- Very high strength with minimal elongation
- No knot, No crimp, No expensive instrumentation

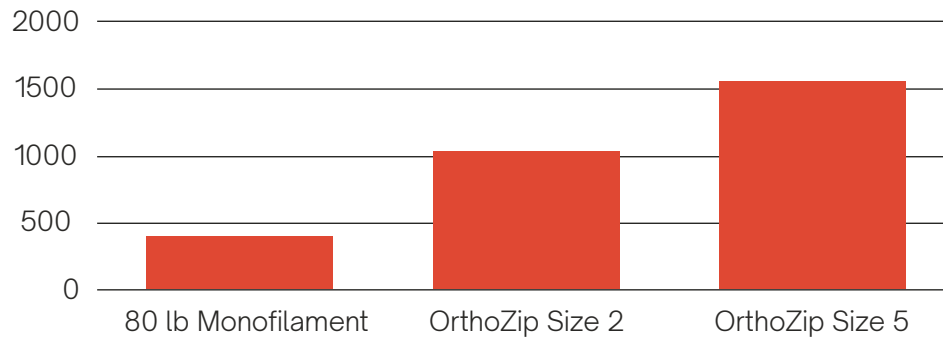


Technical Benefits of the System

- Minimal instrumentation required
- Novel Self-Locking UHMWPE Loop
- SilverPlus Antimicrobial Coating
- Five Year Shelf Life
- One size drill bit and screwdriver for all bone anchor
- Unique Cancellous bone anchor thread design for maximum retention
- Double the strength of standard 80lb Nylon Leader Line



Ultimate Load Failure
Static Mechanical Testing



Preparing for Use

Device Description

The OrthoZip system consists of two sizes of Ultra-High Molecular Weight Polyethylene (UHMWPE) self-locking suture loops coated in SilverPlus, a silver ion antimicrobial. The OrthoZip system is used in conjunction with titanium alloy bone anchors and surgical accessories including a screwdriver and drill bit.

Indications

The OrthoZip system is intended for veterinary use only in the management of ligament injuries. Applications include stabilization of cranial cruciate injuries and collateral ligament injuries or augmentation.

Precautions

Veterinarian medical professionals are advised to review this medical technique guide, review device Instructions for Use, and complete an educational course on the OrthoZip system prior to use.

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Technical Guidance

Device Description

- Approach may vary – The medial limited arthrotomy approach is favorable for CCL removal and meniscal inspection
- Placement of the OrthoZip bone anchors is recommended at isometric points (see reference on page 6) All size bone anchors can be predrilled with a 2.0mm drill bit, drill guides are recommended for precise drilling, penetration of both near and far cortices of the femur and tibia is preferred to confirm bone anchor angle and maximize the bone anchor length
- Note the sizing guidance:
 - Size 2 Suture and 3mm bone anchors are recommended for patients under 40 lbs (18 kg)
 - Size 5 Suture and 4mm bone anchors are recommended for patients 40-70 lbs (18-32 kg)
 - Be advised that 4mm bone anchors can be used on patients over 70 lbs with caution as there is a greater risk of failure on any extracapsular fixation on larger mass patients
- Measure the depth of each drill hole so the appropriate length bone anchor is used
- Insert the OrthoZip bone anchor so the lower flange is secured flush to the bone surface. A stab incision is often required on the femoral side so that the flange can seat below the joint capsule. You may also secure the suture around the two bone anchors, and they can be tightened to final seating after the placement of the OrthoZip loop
- Begin securing the OrthoZip loop by placing the sheath of the suture around the femoral bone anchor and have the free ends toward the tibial side
- Pull the OrthoZip free ends from the tibial side once it is wrapped over both bone anchors, the free ends can be pulled by hand or by using instruments
- During tensioning be sure to check cranial drawer in multiple stifle angles and tighten until cranial drawer is gone
- If the OrthoZip loop is overtightened, it can be loosened by grasping an individual strand of the loop and pulling it away from the sheath, and then repeating this process on the other side of the loop for the second strand
- Check for absence of cranial drawer and maintenance of normal range of motion, Cut the free ends of the OrthoZip loop 3-4mm from the sheath with a scalpel blade or sharp scissors, The surgical approach is lavaged and can be closed routinely

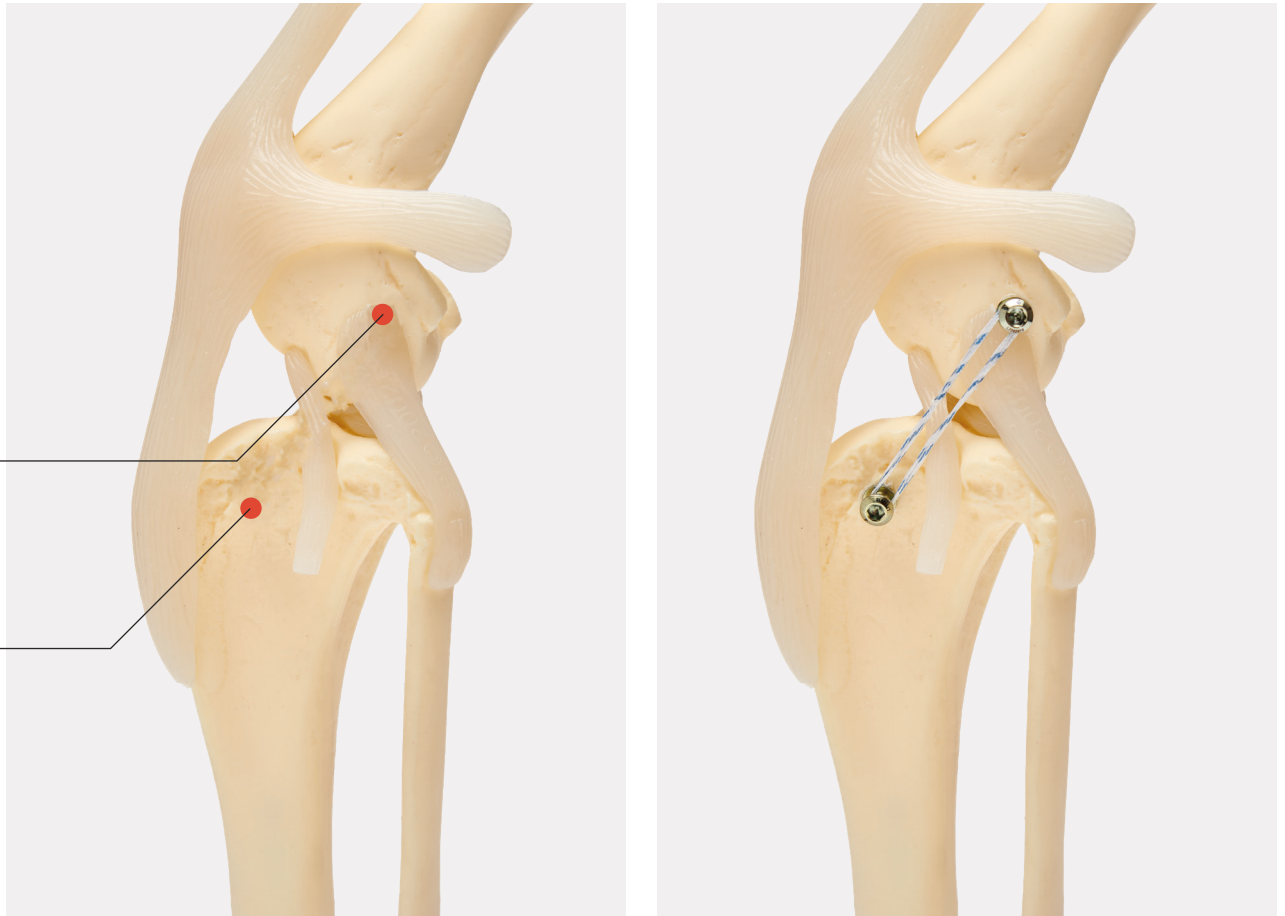
Isometric Location Reference

There are numerous publications that address different anchoring points when placing lateral sutures for stifle stabilization. There are some similar findings between them but also some differences.

Movora recommends assessing each individual patient to find the best location for that specific case. For Reference, the illustration (right) depicts the findings of common isometric location points used for stabilization.

F (Femur) – is located at the caudal edge of the lateral femoral condyle, immediately adjacent to the distal pole of the fabella. This is located directly over the origin of the CCL.

T (Tibia) – is located just distal to the tibial plateau as proximal as possible midway between the LDE sulcus and the cranial edge of the tibia.



3. ITEMS AND SIZES

Item # Information

Patient Weight Recommendation

< 40 lbs (18 Kg) — 3.0 mm Bone Anchor AND #2 Self-Locking Suture

Item#	Product Description
SAH.EV005636	OrthoZip Plus Size 2 Fiber, Self-Locking Suture
SAH.EV005753	3.0mm x 16mm (10mm Thread) Cancellous OrthoZip Anchor
SAH.EV005754	3.0mm x 18mm (12mm Thread) Cancellous OrthoZip Anchor
SAH.EV005755	3.0mm x 20mm (14mm Thread) Cancellous OrthoZip Anchor
SAH.EV005756	3.0mm x 22mm (16mm Thread) Cancellous OrthoZip Anchor
SAH.EV005757	3.0mm x 24mm (18mm Thread) Cancellous OrthoZip Anchor
SAH.EV005758	3.0mm x 26mm (20mm Thread) Cancellous OrthoZip Anchor
SAH.EV005759	3.0mm x 28mm (22mm Thread) Cancellous OrthoZip Anchor
SAH.EV005760	3.0mm x 30mm (24mm Thread) Cancellous OrthoZip Anchor
SAH.EV005761	3.0mm x 32mm (26mm Thread) Cancellous OrthoZip Anchor
SAH.EV005762	3.0mm x 34mm (28mm Thread) Cancellous OrthoZip Anchor
SAH.EV005763	3.0mm x 36mm (30mm Thread) Cancellous OrthoZip Anchor
SAH.EV005764	3.0mm x 38mm (32mm Thread) Cancellous OrthoZip Anchor
SAH.EV005765	3.0mm x 40mm (34mm Thread) Cancellous OrthoZip Anchor

Patient Weight Recommendation

40 -70 Lbs (18 - 32 Kg) — 4.0 mm Bone Anchor #5 Self-Locking Suture

Item#	Product Description
SAH.EV005638	OrthoZip Plus Size 5 Fiber, Self-Locking Suture
SAH.EV005731	4.0mm x 18mm (13mm Thread) Cancellous OrthoZip Anchor
SAH.EV005732	4.0mm x 20mm (15mm Thread) Cancellous OrthoZip Anchor
SAH.EV005735	4.0mm x 22mm (17mm Thread) Cancellous OrthoZip Anchor
SAH.EV005736	4.0mm x 24mm (19mm Thread) Cancellous OrthoZip Anchor
SAH.EV005737	4.0mm x 26mm (21mm Thread) Cancellous OrthoZip Anchor
SAH.EV005738	4.0mm x 28mm (23mm Thread) Cancellous OrthoZip Anchor
SAH.EV005739	4.0mm x 30mm (25mm Thread) Cancellous OrthoZip Anchor
SAH.EV005740	4.0mm x 32mm (27mm Thread) Cancellous OrthoZip Anchor
SAH.EV005741	4.0mm x 34mm (29mm Thread) Cancellous OrthoZip Anchor
SAH.EV005742	4.0mm x 36mm (31mm Thread) Cancellous OrthoZip Anchor
SAH.EV005743	4.0mm x 38mm (33mm Thread) Cancellous OrthoZip Anchor
SAH.EV005744	4.0mm x 40mm (35mm Thread) Cancellous OrthoZip Anchor
SAH.EV005745	4.0mm x 42mm (37mm Thread) Cancellous OrthoZip Anchor
SAH.EV005746	4.0mm x 44mm (39mm Thread) Cancellous OrthoZip Anchor

Accessories

Item#	Product Description
SAH.EV003149	Screwdriver, Teflon handle, 2.5mm Hex
2.0 QCK 100	2.0mm Quick Coupling Drill Bit - 100mm
319.01	Depth Gauge for 2.4 - 4.0mm Screws, 5-60mm - 1.8mm Tip

OrthoZip may be used on patients greater than 70 lb. (32 kg); users are advised to exercise caution, as any extracapsular repair on high mass patients comes with certain risks of failure.

Support Instrumentation

Item#	Product Description
SAG,EV003149	Screwdriver 2.5mm Hex, Teflon Handle
SAG,EVDBJC20	Jc Drill Bit, 2.0mm 85mm Long, Anti-skid Tin Coated
DDS 2.0/2.7	Drill Sleeve Dbl Ended 2.0/2.7
2.0 QCK 100	2.0mm Quick Coupling Drill Bit - 100mm
2.0 QCK 100 DLC	2.0mm Quick Coupling Drill Bit, DLC Coated -100mm
50000	Imex Universal Aiming Device
50020	Universal Aiming Device Drill Guide 2.0mm
50025	Universal Aiming Device Drill Guide 2.5mm
SAH.EV002747	Everost Universal Aiming Guide, w/3.2mm Drill Sleeve



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