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Surgical Technique
Out-In

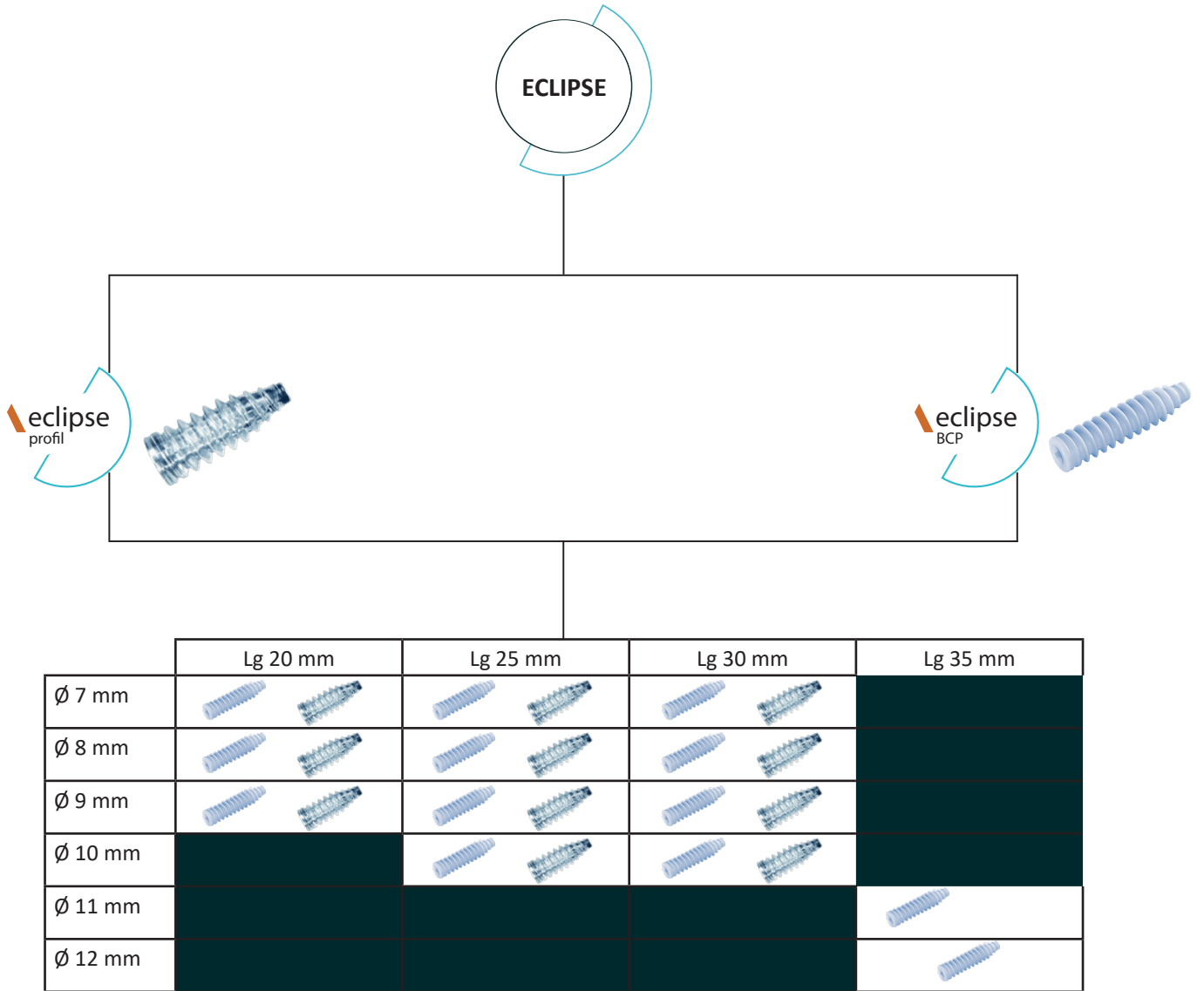


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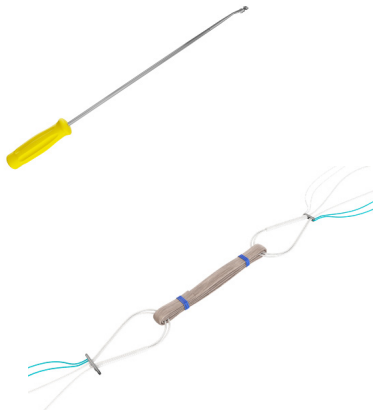
Concept and range





Surgical technique overview

1
Harvesting and graft
preparation



2
Tibial placement



3
Femoral placement



4
Graft fixation

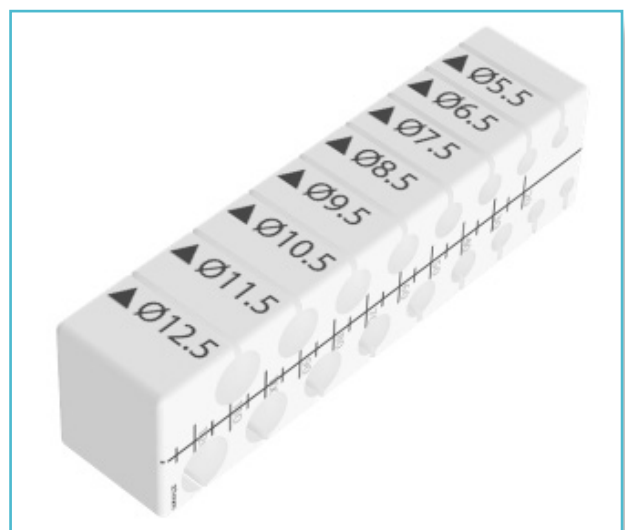


1 Harvesting and graft preparation

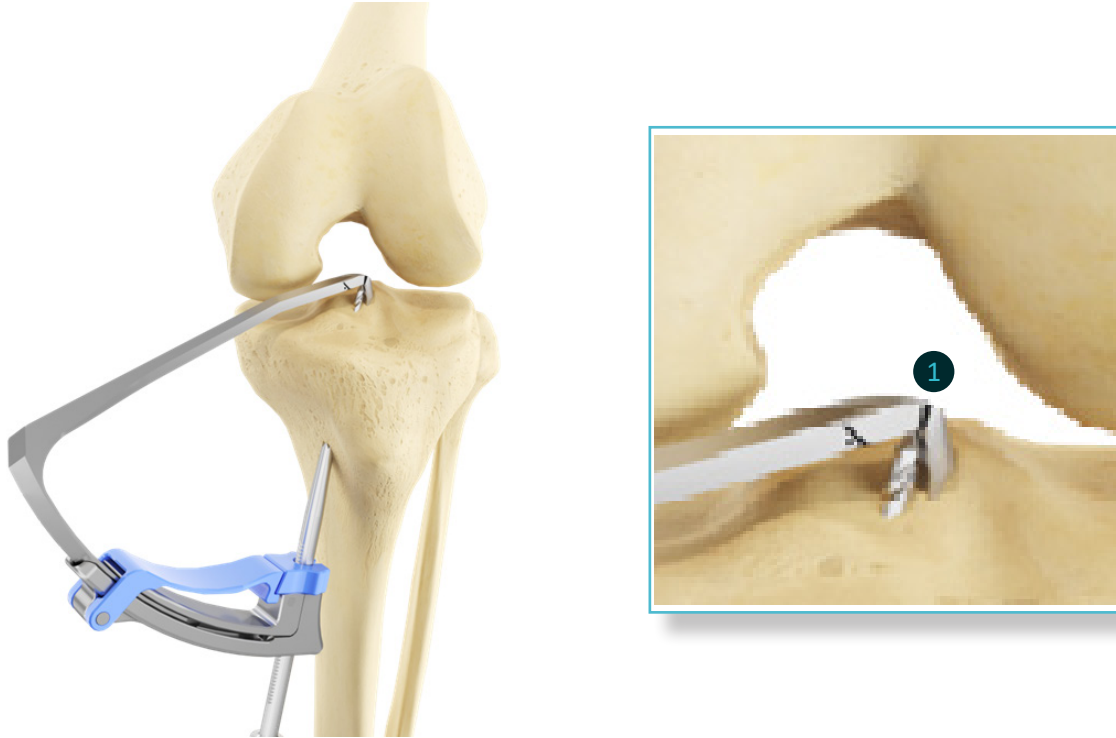


Use the open stripper to harvest the semitendinosus and gracilis tendons.
Prepare and suture the graft as usual. You can preserve the tendons insertion.

Calibrate (diameter and length) the graft
using graft sizer.



2 Tibial placement



Assemble the tibial guide and choose the angulation.

Insert the tibial guide through the medial portal. Then, place the tibial guide tip on the ACL footprint.

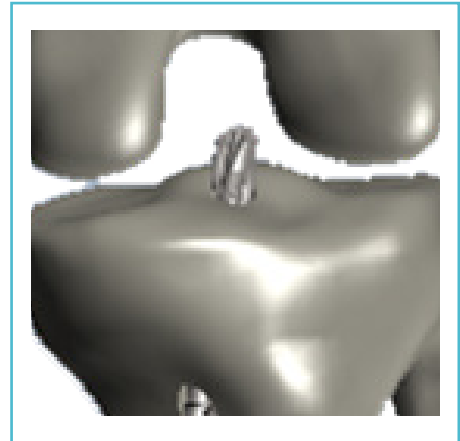
The laser mark indicates the exit point of the wire pin guide.

Insert the tibial guide sleeve, flat surface facing upwards until you hear a single «clac» after the contact with the cortex.

Drill the 2.4mm wire pin guide through the modular tibial guide sleeve.

Check the wire pin guide position, remove the tibial guide from the joint.

3 Tibial drilling

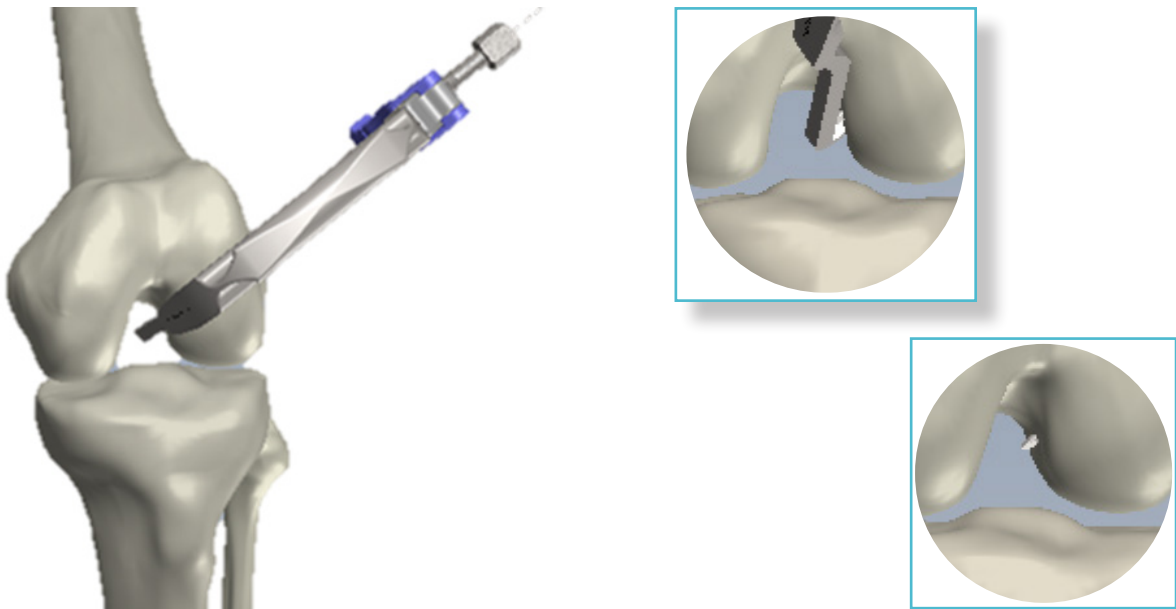


Place a drill that matches the graft diameter over the wire pin guide.

Drill the tibial tunnel.

Remove the drill.

4 Femoral placement



Assemble the femoral guide.

Hook the posterior notch in the «over the top position».

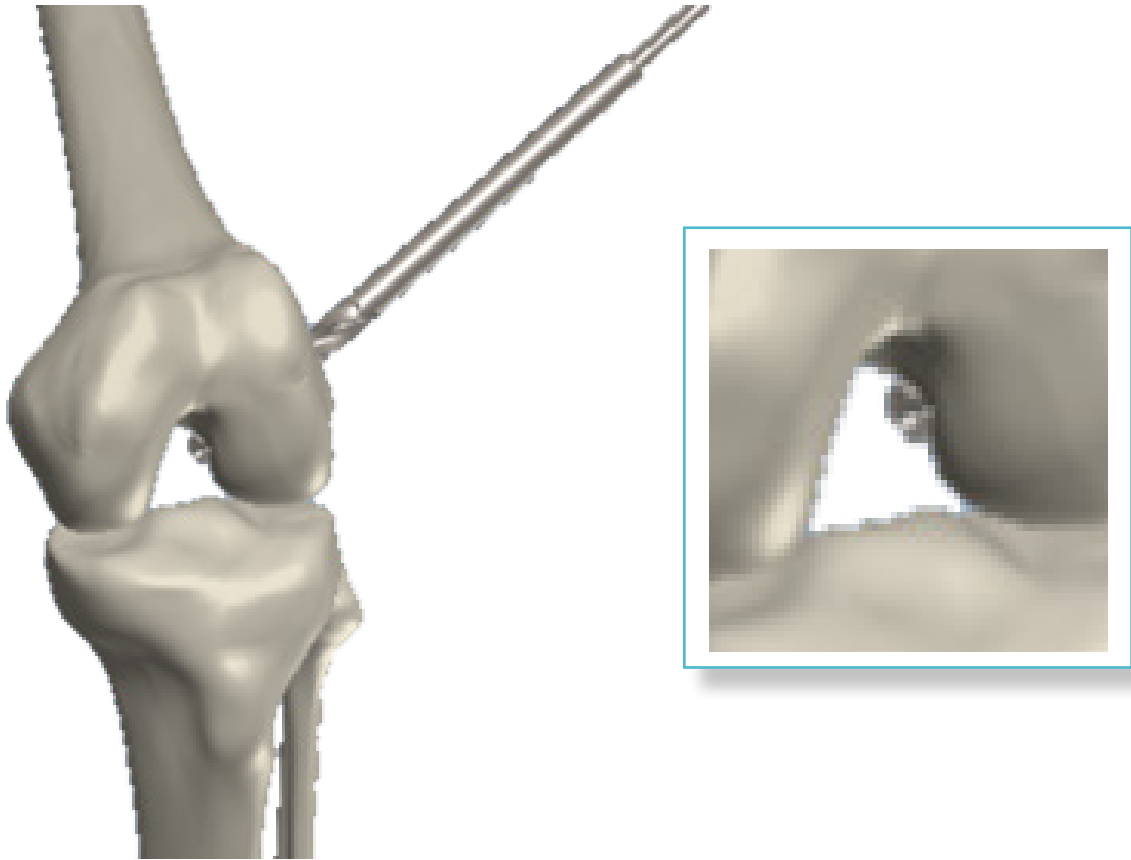
Make a skin incision in front of the modular guide sleeve.

Insert the modular guide sleeve through the skin incision until cortex contact.

Drill the wire pin guide through the modular guide sleeve. The pin guide exit 7mm anterior to the hook.

Remove the guide from the joint. Then check the wire pin guide position.

5 Femoral drilling

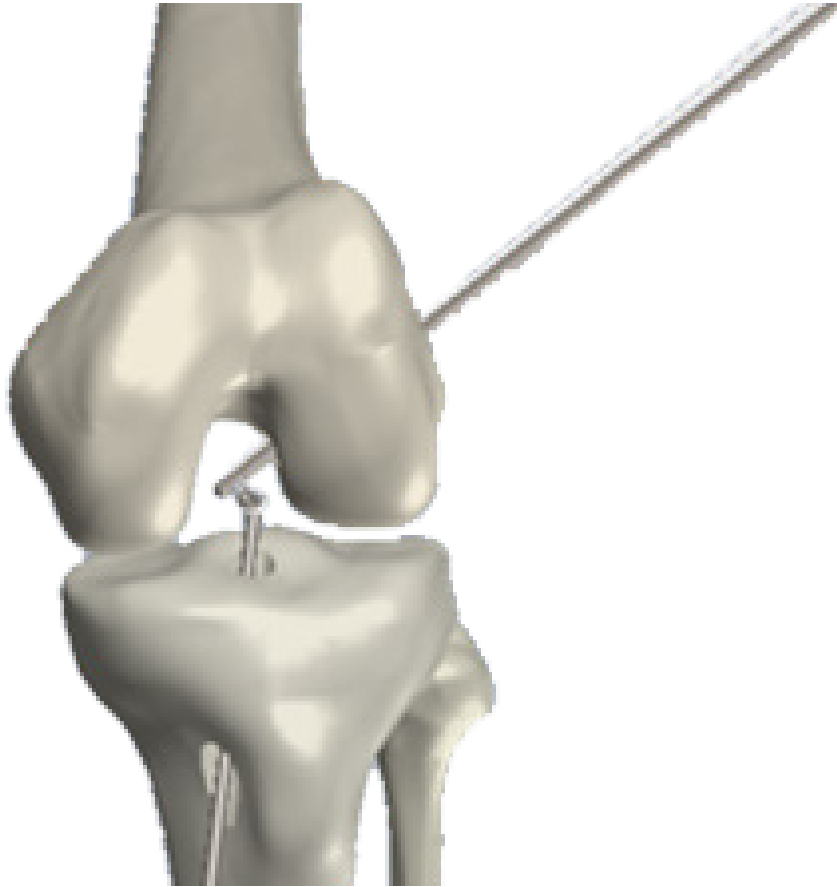


Place a drill that matches the graft diameter over the wire pin guide.

Drill the femoral tunnel from extra-articular to intra-articular.

Remove the drill.

6 Relay loop passing



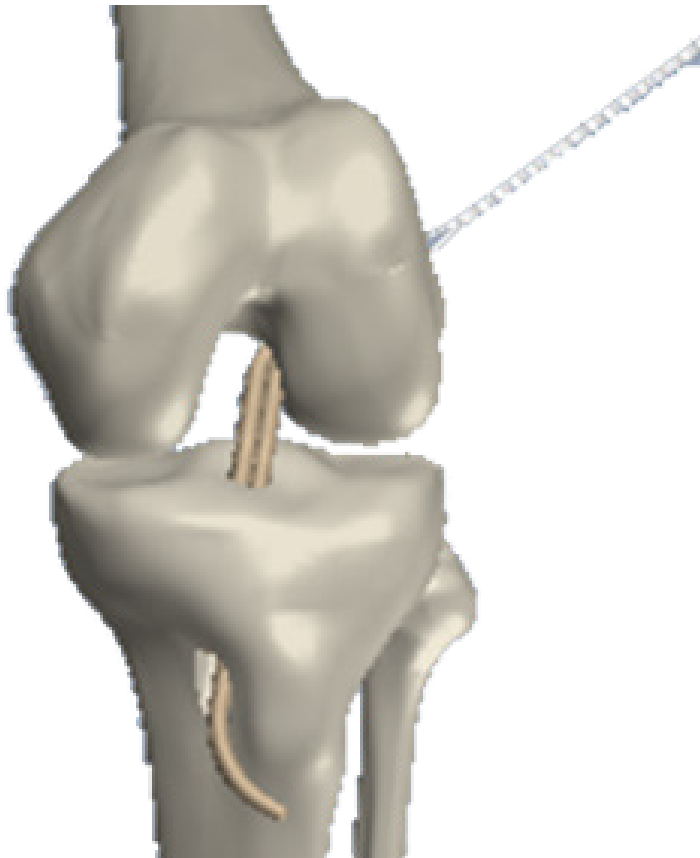
Pass the suture passing loop through the wire inserter.

Pass the wire inserter through the femoral tunnel.

Pass the passing suture from the joint through the tibial tunnel.

The loop come out the tibial tunnel.

7 Graft positioning



Suture wire of the graft is passed through the passing suture loop.

Pull the passing suture at the femoral level until the graft suture wire exit to the femoral tunnel.

Pull the graft suture wire until the graft take in place in the knee.

8 Femoral fixation



Tapping:

Pull the suture wire of the graft at the femoral level.

Place the screw guide wire into the femoral tunnel.

Pass the starter tap or the shank starter through the femoral tunnel over the screw guide wire.

Thread the tunnel.

Screwing:

Put the shank screw driver ECLIPSE 7-12 mm onto the ratcheting handle

Position the interference screw ECLIPSE BCP or PROFIL onto the shank screwdriver ECLIPSE Ø 7-12mm or the Screwdriver Diameter 7 - 12 mm

Put the graft under tension

Insert the screw into the femoral tunnel over the screw guide, keep the graft suture wire tension during screw insertion.

9 Tibial fixation



Tapping:

Pull the suture wire of the graft at the tibial level.

Place the screw guide wire into the femoral tunnel.

Pass the starter tap or the shank starter through the tibial tunnel over the screw guide wire.

Thread the tunnel.

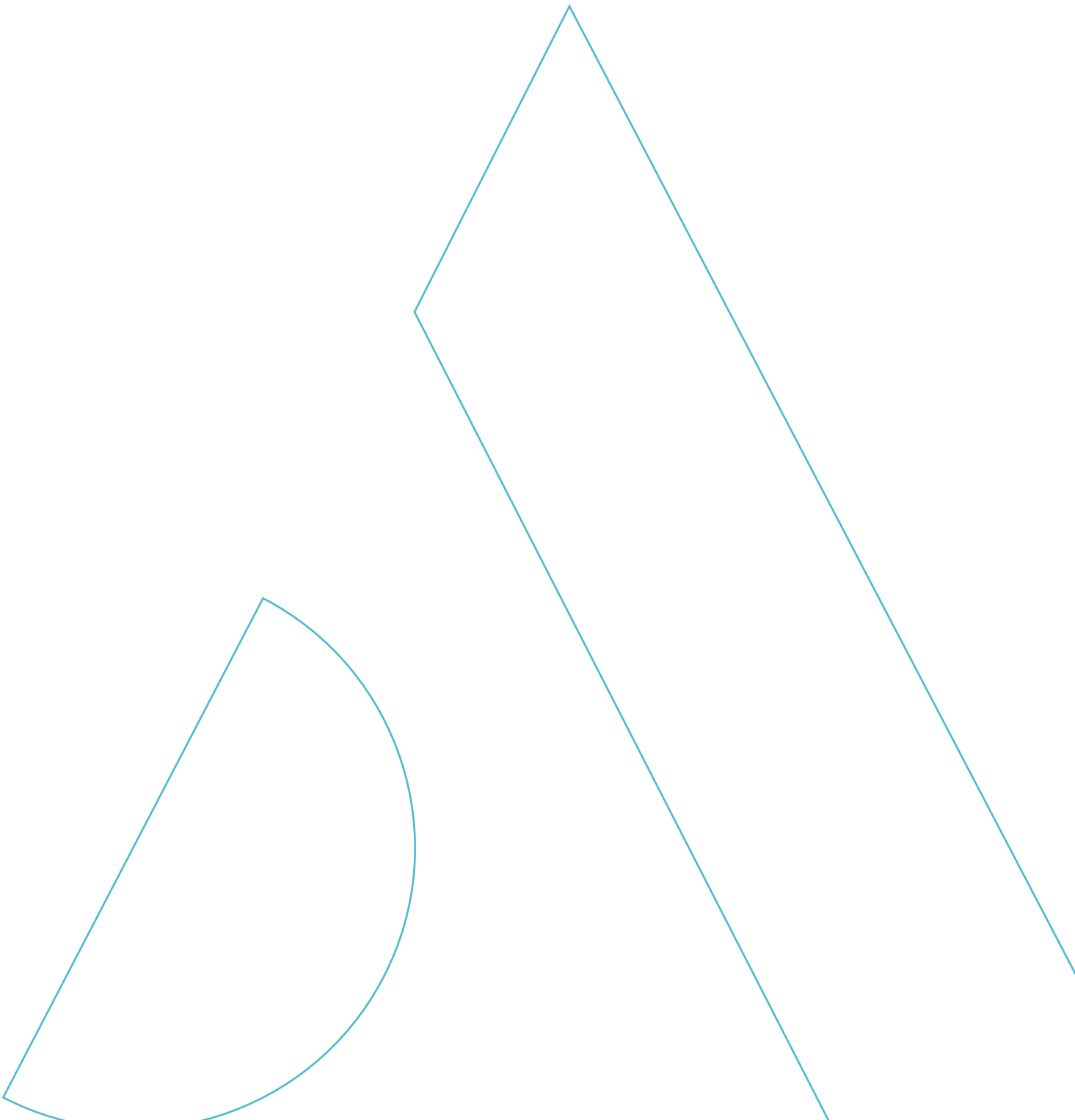
Screwing:

Put the shank screw driver ECLIPSE 7-12 mm onto the ratching handle

Position the interference screw ECLIPSE BCP or PROFIL onto the shank screwdriver ECLIPSE Ø 7-12mm.or the Screwdriver Diameter 7 - 12 mm

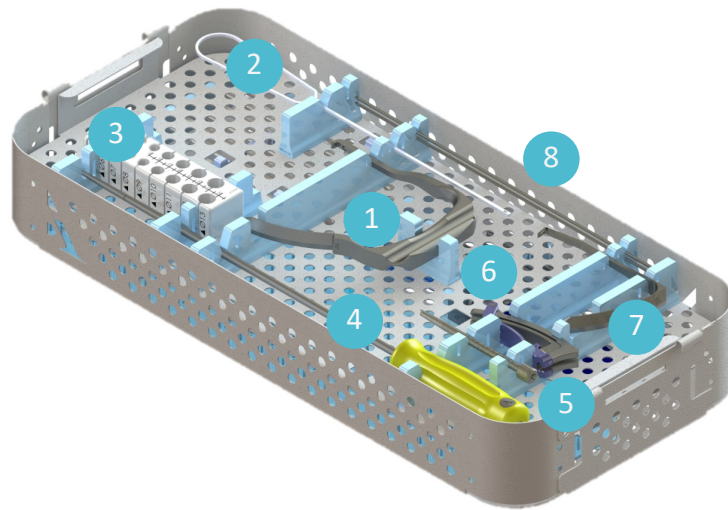
Put the graft under tension

Insert the screw into the tibial tunnel over the screw guide, keep the graft suture wire tension during screw insertion.



Instrumentation

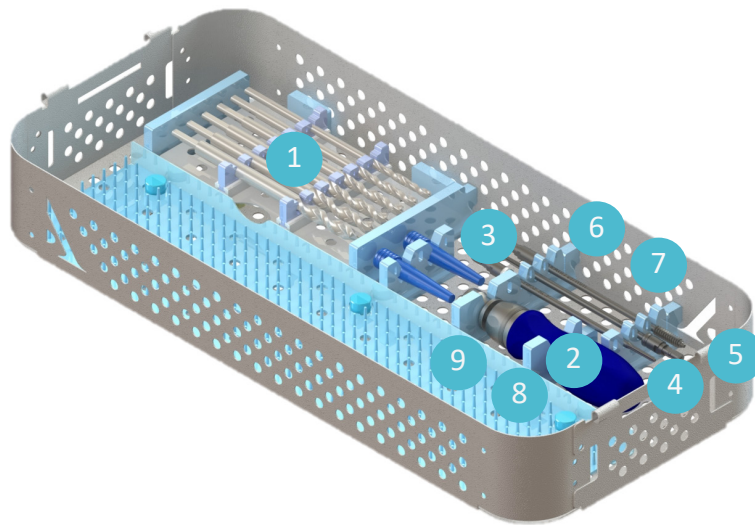
ACL outside-in instrumentation: High tray



Rep	Description	Reference	Qty
1	Femoral slide AM 7mm	2-0405800	1
2	Wire inserter	2-0408200	1
3	Graft sizer	2-0401800	1
4	Open stripper Ø 5mm	2-0405505	1
5	Modular tibial guide sleeve	2-0404900	1
6	Modular guide body/handle	2-0404800	1
7	Modular tibial aimer	2-0405000	1
8	Wire pin guide Ø2.4mm Lg 300mm	2-0405600	1

Instrumentation

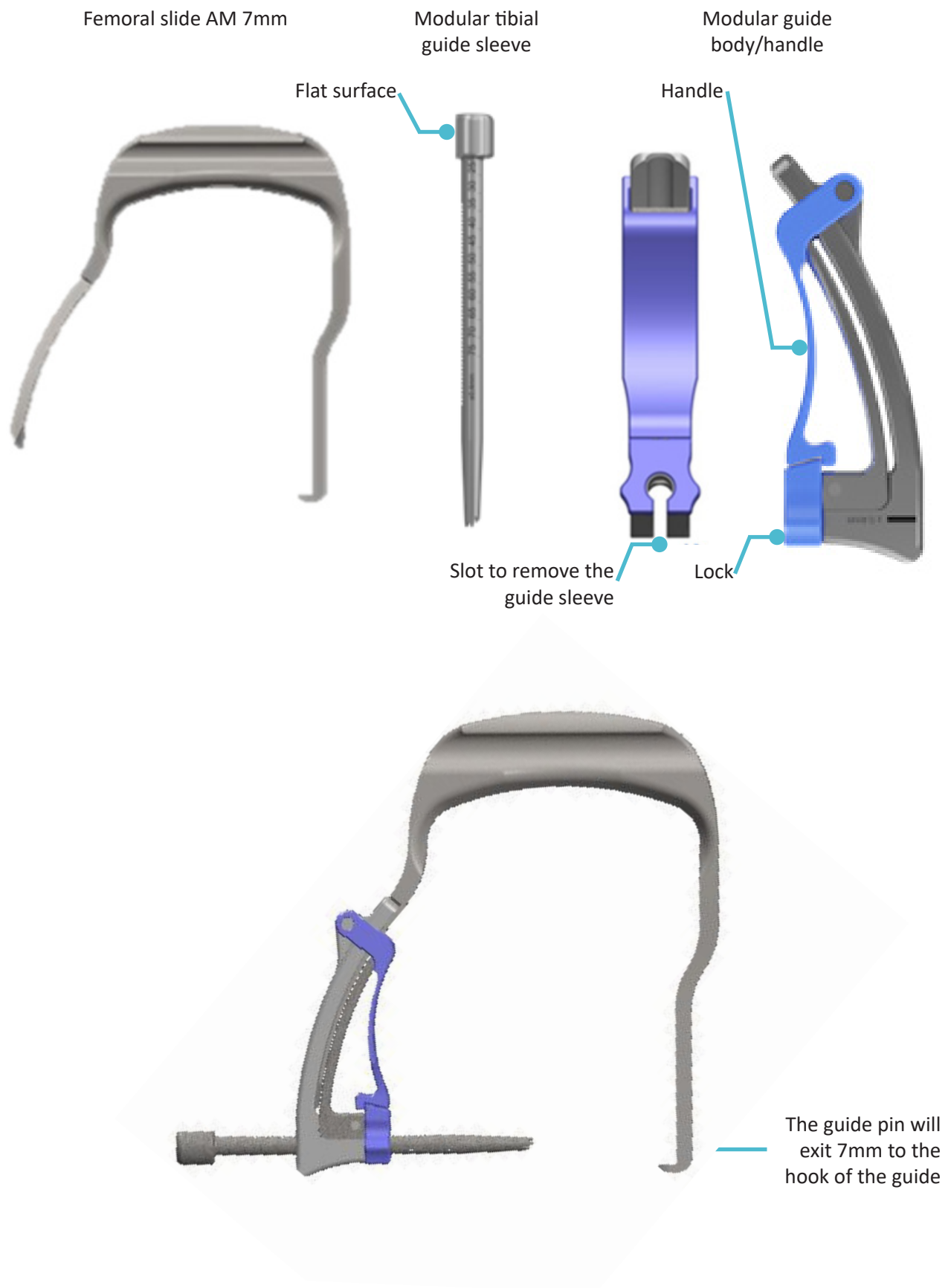
ACL outside-in instrumentation: Low tray



Rep	Description	Reference	Qty
1	Canulated drill Ø 6mm	2-0402906	1
	Canulated drill Ø 7mm	2-0402907	1
	Canulated drill Ø 8mm	2-0402908	1
	Canulated drill Ø 9mm	2-0402909	1
	Canulated drill Ø 10mm	2-0402910	1
	Canulated drill Ø 11mm	2-0402911	1
2	Ratcheting handle	2-0406400	1
3	Shank screwdriver ECLIPSE Ø7-12 mm Trinkle	2-0409300	1
5	Shank starter ECLIPSE BCP / PROFIL	2-0406300	1
6	Nitinol Guide Wire Diameter 1.1 mm - Length 300 mm	15INBR001F10	1
7	Screw guidewire Ø 1.1mm length 240 mm	2-0405700	1
Option:			
8	Screwdriver Diameter 7 - 12 mm	16INTO001	1
9	Starter tap	11INTA001	1

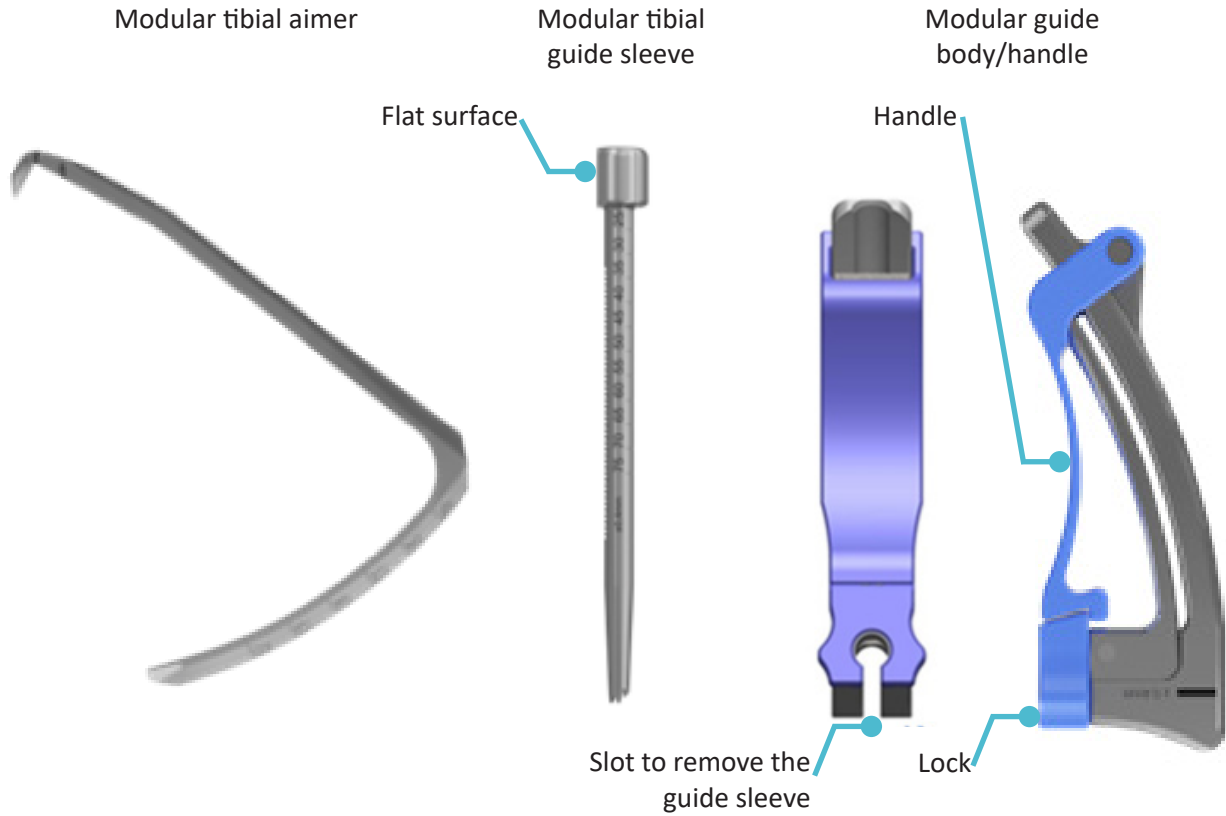
Appendix A

Femoral Outside-in guide

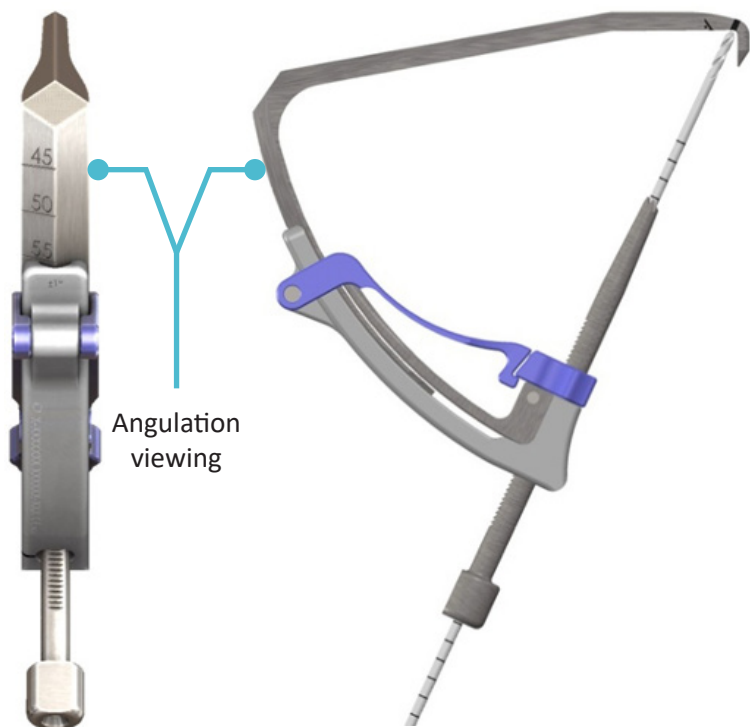


Appendix B

Modular tibial guide

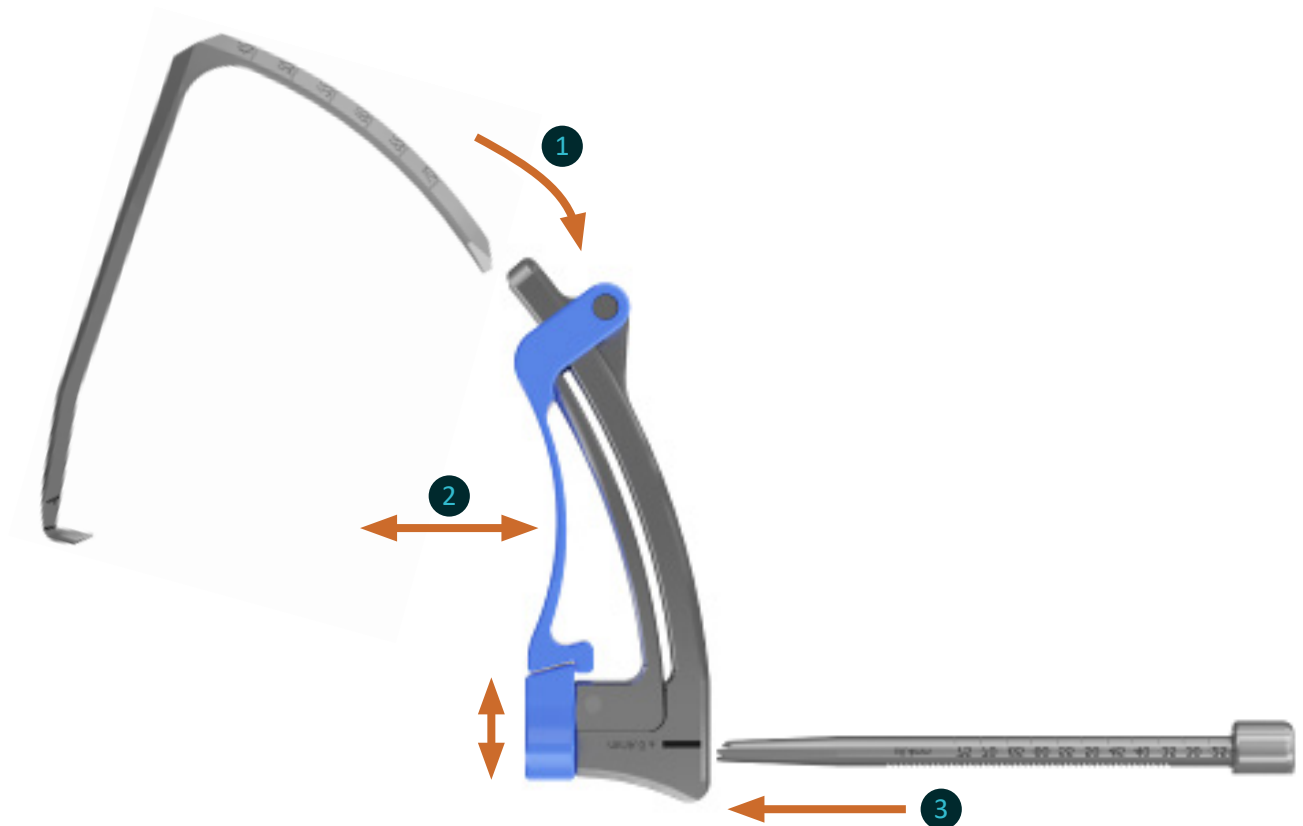


- Angulation 45° to 70°.
- The pin will exit in the blend of the guide.



Annexe C

Modular tibial guide: Assembly



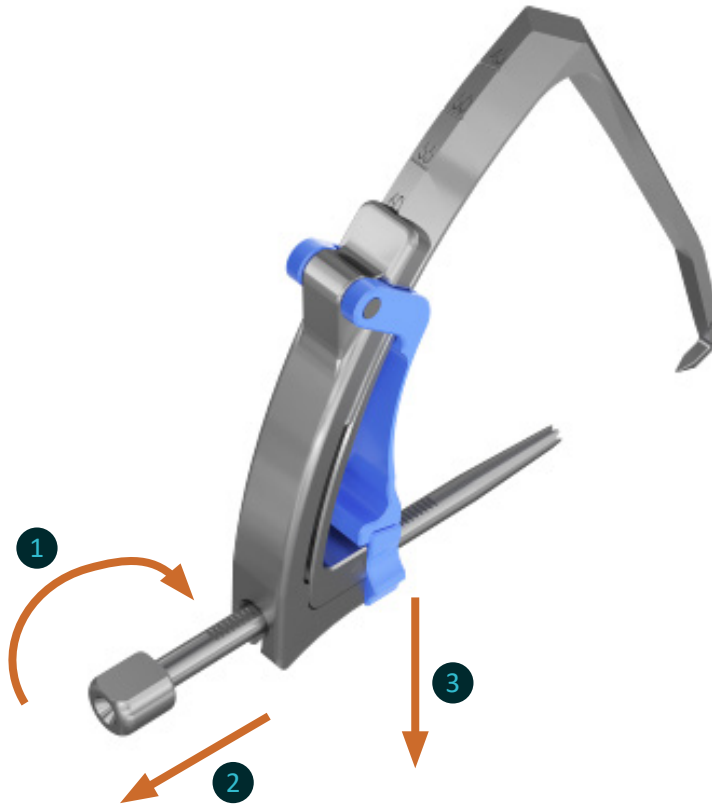
- Insert the modular aimer into the modular guide handle to select angulation (1).
- Lock the guide (modular tibial aimer + modular guide handle) by pulling the blue handle towards the guide handle (2).

Working: Move the lock down press the blue handle and move the lock up to block the modular tibial guide sleeve.

- Insert the modular tibial guide sleeve into the modular guide handle, flat surface facing upware (3).
- The modular tibial guide sleeve cannot be inserted if the modular guide handle and aimer are not locked correctly. if tis occurs, remove the aimer from the guide handle. Reassemble the handle and aimer, then reinsert the guide sleeve.

Annexe D

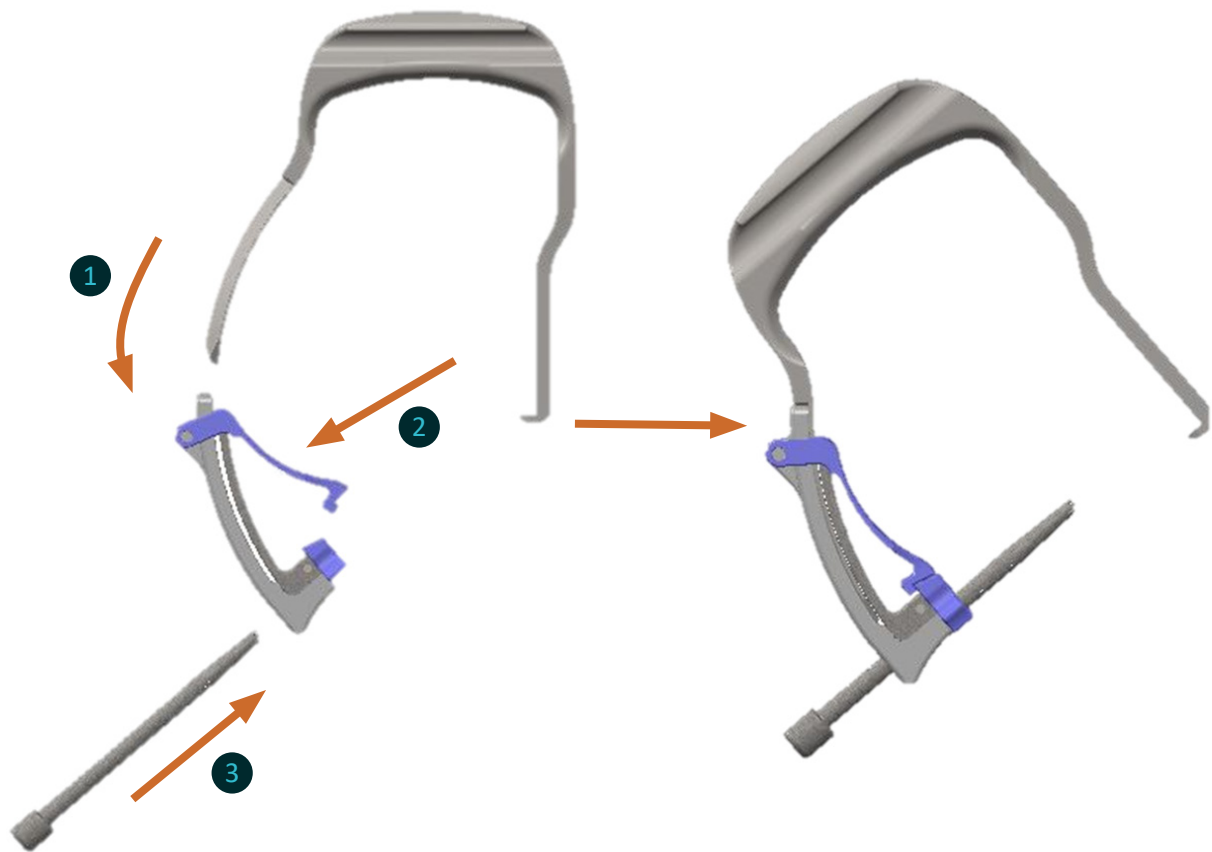
Tibial guide: modification of the angulation



- Turn the guide sleeve a quarter turn (1).
- Remove the modular tibial guide sleeve (2).
- Unlock the tibial guide by pulling the lock downwards. This action releases the lock and the tibial guide sleeve (3).
- Change the angulation of the guide.
- Lock the guide then place the modular tibial aimer flat surface facing upware.

Annexe E

Out-In femoral guide: Assembly



- ▶ Insert the femoral aimer AM 7mm into the modular guide handle at 90°.
- ▶ Lock the guide (modular slide AM 7mm + modular guide handle) by pulling the blue handle towards the guide handle.
- ▶ Slide the guide sleeve through the guide, flat part facing upwards.

Annexe F

Option : Femoral slide 8.5mm : 2-0409600

- Using the 8.5 mm femoral slide is similar to using the 7 mm femoral slide. The 8.5 mm femoral slide allows the pin to be positioned 8.5 mm from the hook, enabling a more distal placement.



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