

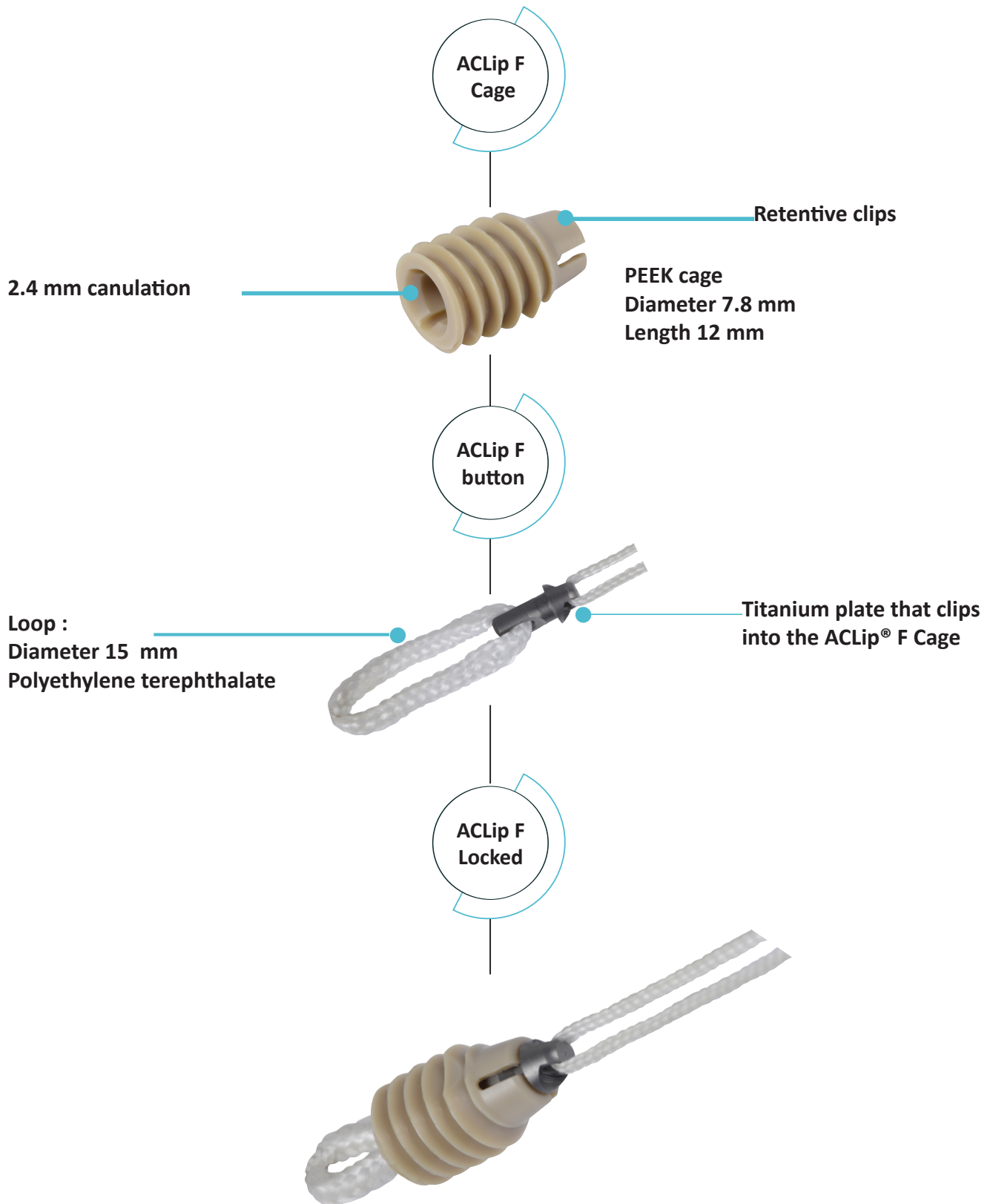
Surgical technique ACLip Femoral



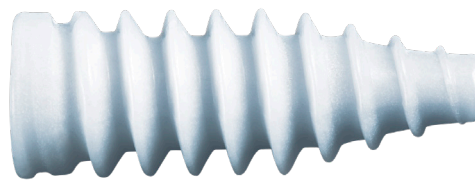
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Concept and range



Concept and range



Composition :

75% PLDLLA polylactic acid
25% BCP : 20% HA et 80% β TCP

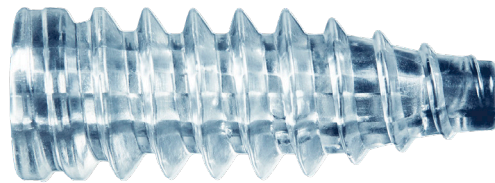
Range :

	20	25	30	35
7	●	●	●	
8	●	●	●	
9	●	●	●	
10		●	●	
11				●
12				●

Image non contractuelle



Concept and range



Composition :

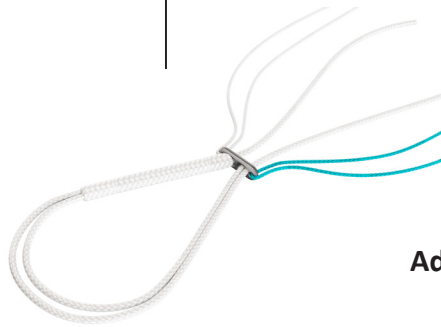
100% PLDLLA polylactic acid
25% BCP : 20% HA et 80% β TCP

Range :

	20	25	30
7	●	●	●
8	●	●	●
9	●	●	●
10		●	●

Concept and range

COMETE
control



Adjustable cortical fixation

COMETE
extraplate



Extra plate for 6-11 tunnel

Concept and range

Adjustable cortical fixation

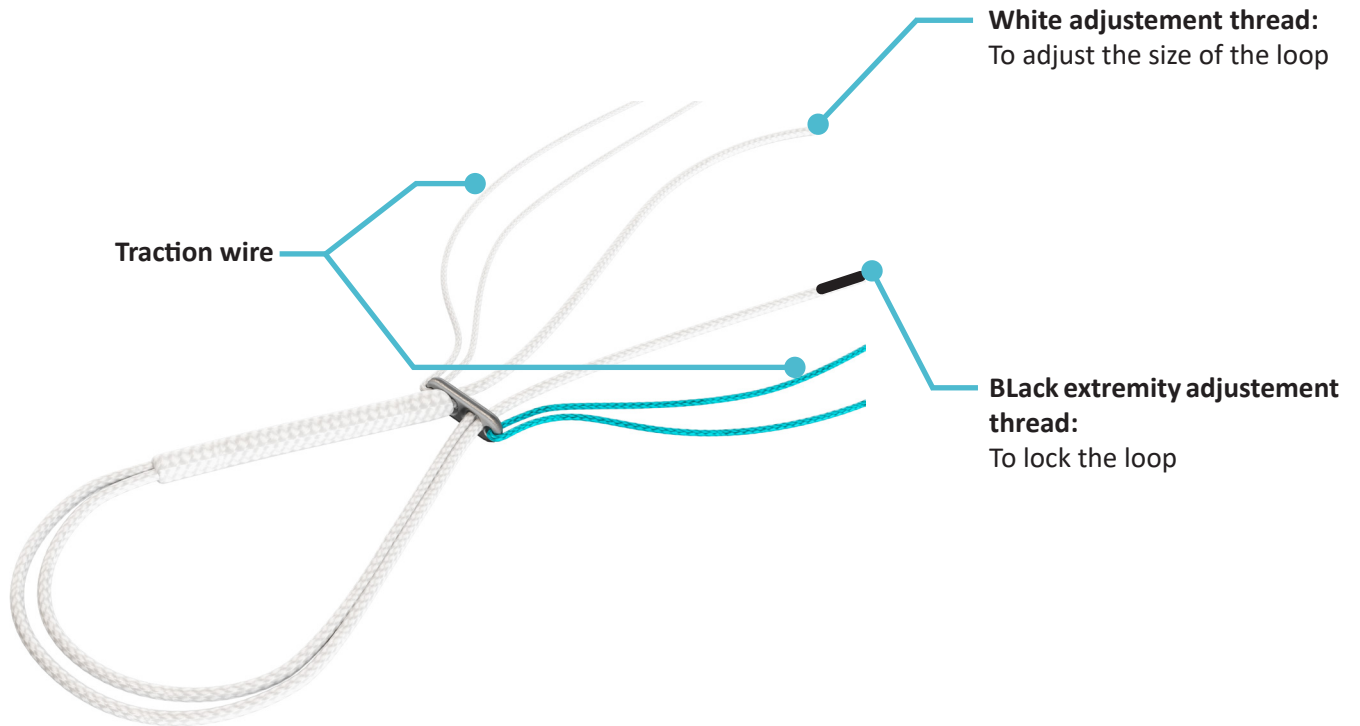


Plate for 6 to 11 mm tunnel



Concept and range

comete control

- Comete control is made of a green and a white traction wire.
To pass the comete control plate through the tunnel, tract the white or the green traction wires. Pull the other traction wire and adjustment threads without applying tension.
- Comete control two adjustment threads:
 - White adjustable thread to adjust the loop.
 - Black adjustable thread to lock the loop.
- To adjust the loop: start pulling the white adjustment thread and pull the same length with the black thread. Reproduce the movement until adjust the loop to the desired length.
- Do not force on the locking thread during the loop adjustment time.
- Lock the comete control: Hold a tension on the white adjustable thread and pull tightly the black adjustment thread to lock the loop.

comete extra plate

- Dimension:

Length	20 mm
Width	7 mm
Thickness	1.50 mm

Implant comete control et extra plate

- Remove one of the two traction wires. Slide the extra plate under the button. Make sure that the remaining traction wire is on the slot side to avoid hindering the interlocking.

NOTE

This document is aimed to have a correct use of instrumentation set. Anatomical access and surgical technique are under responsibility of surgeon.

Surgical Technique Overview

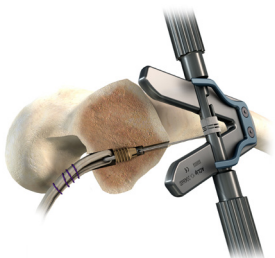
1 Femoral Tunnel drilling



2 ACLip F Cage screwing



3 Femoral Locking



1 Femoral tunnel placement

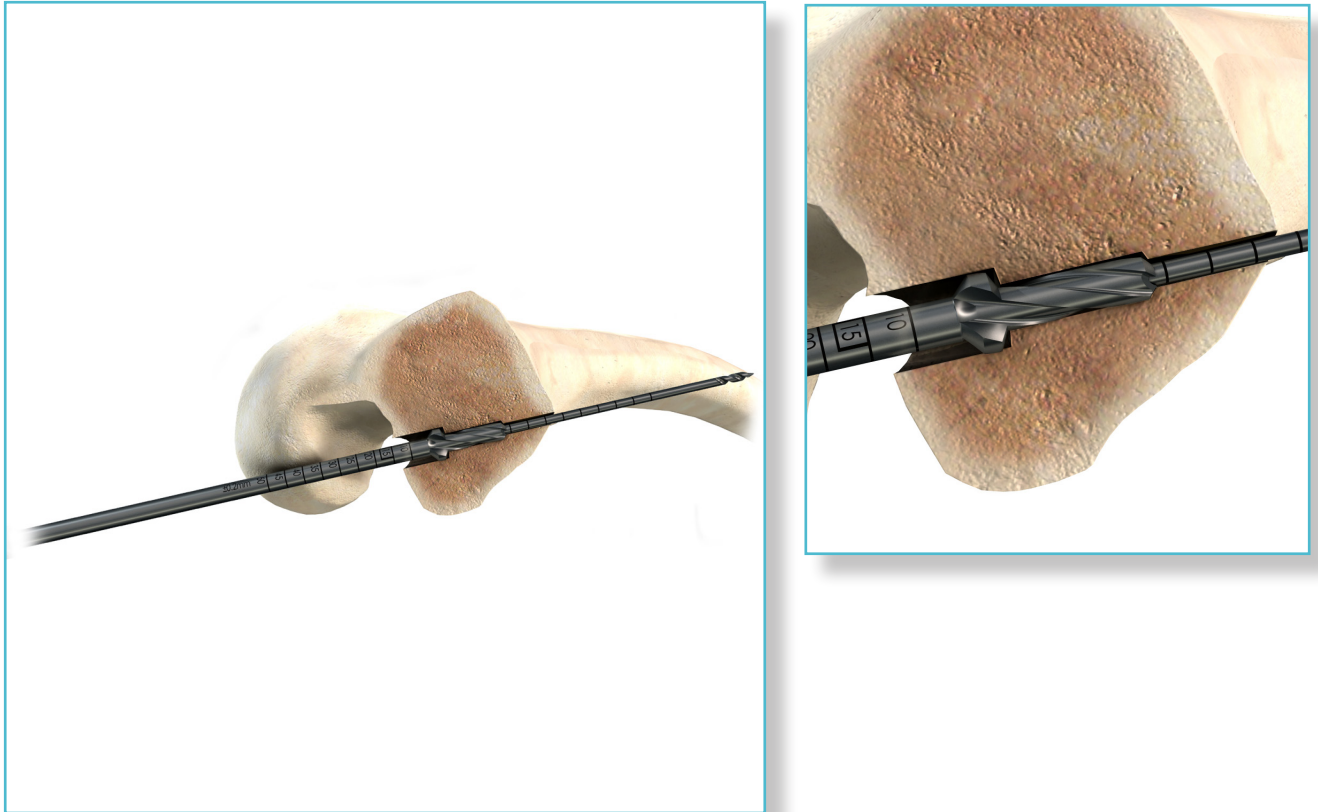


Select the appropriate offset: 1 mm more than the graft radius.

Place the hook of the femoral guide in the over the top position.

Place the eyelet pin through the femoral guide until it passes the lateral cortex.

2 Femoral tunnel drilling



Select the stepped reamer corresponding to the graft diameter and place it over the eyelet pin. The graduations on the stepped reamer correspond to the length of the graft tunnel. Drill a femoral socket of the appropriate depth and then remove the reamer while leaving the eyelet pin.

The total length of these 2 femoral tunnels is: the femoral tunnel dedicated for the graft length plus 17 mm (the femoral tunnel dedicated for the ACLip F cage).

Example :

Graft tunnel = 15mm.

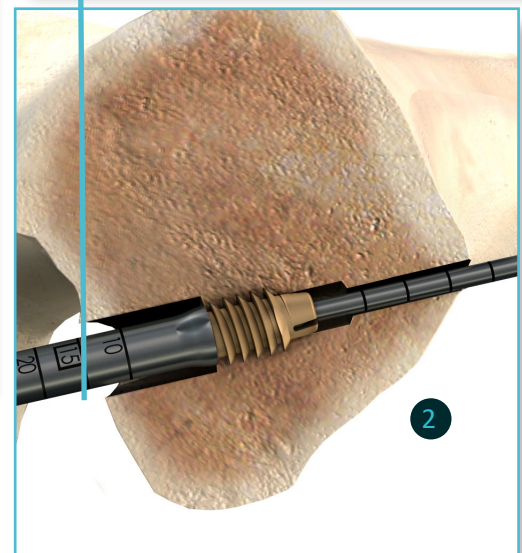
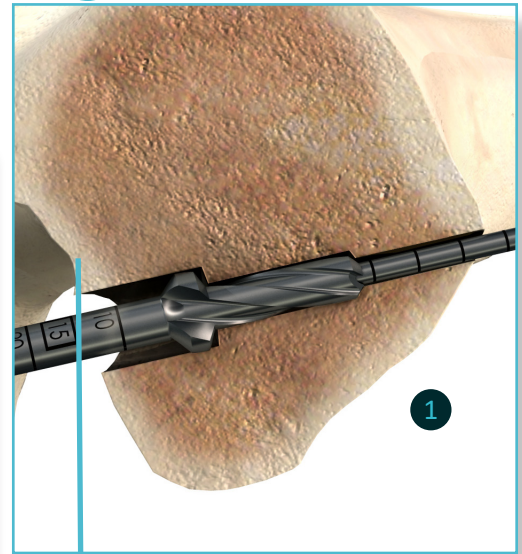
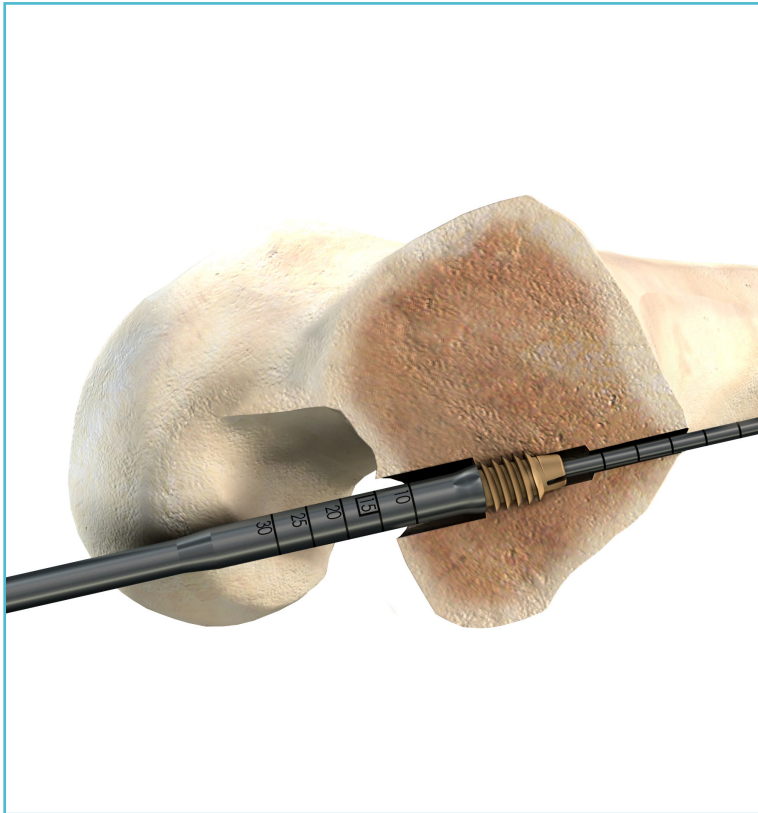
The total length of the two tunnels $15\text{mm} + 17\text{mm} = 32\text{mm}$. the distance cortex to cortex must be at minimum 32mm.

For a 20mm graft tunnel, the distance cortex to cortex must be at minimum 37mm.

Key factor

At the end of the drilling procedure, take a landmark on the lateral side of the condyle to locate the drilling depth graduation on the reamer. This mark will be used for the cage introducer to reproduce the screwing and drilling depth.

3 ACLip F cage screwing



Place the ACLip F cage on the Shank introducer ACLip F cage Trinkle or on ACLip F cage introducer. Place the Shank introducer ACLip F cage Trinkle or on ACLip F cage introducer over the eyelet pin.

Screw the ACLip F cage. The screwing depth graduation(1) must be the same as the graduation shown on the stepped reamer when the tunnel was drilled(2).



Screw on the ACLip F Cage while keeping the eyelet pin axis, in order not to apply excessive lever arm between the tip of the introducer and the eyelet pin.

A lever arm will weaken the tip of the ACLip F cage introducer. Like it happens for any canulated instrument.

In case of dense bone, use the ACLip F cage starter or the shank starter ACLip F cage Trinkle to prepare the screwing.

Trinkle to prepare the screwing.

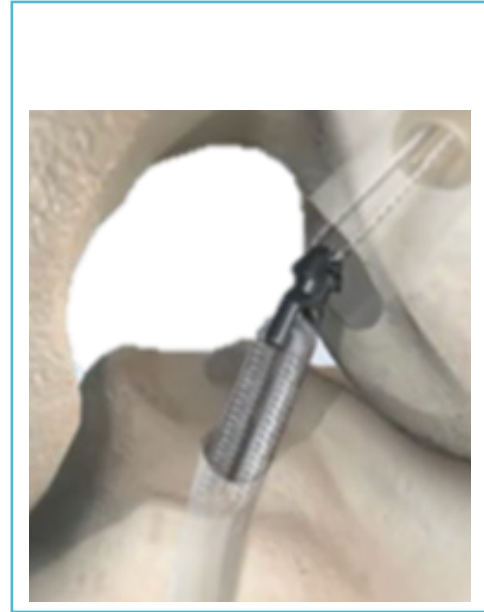
Key factor

When screwing in, keep the mark on the lateral side of the condyl and graduation used for drilling.

Keeping the drilling depth and screwing depth guarantees the right positioning on the cage that ensures clipping and mechanical properties.

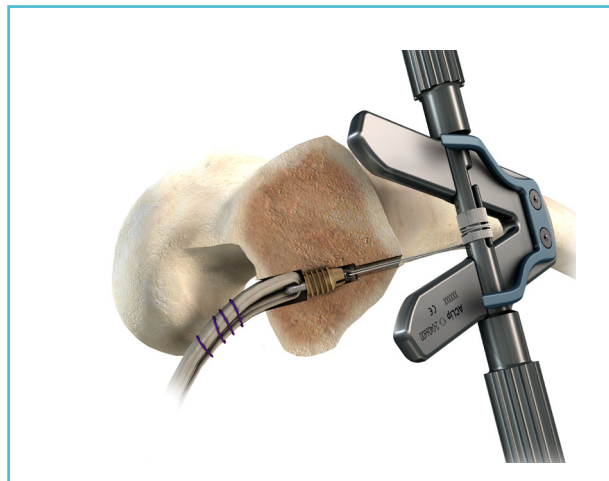


4 ACLip Femoral clipping



Assemble the tie rod and support.

Gently pull on the ACLip F Button traction sutures until the ACLip F Button stops against the ACLip F Cage.



Place the traction wires on the tie rod.

Position the clipping system on the patient's leg where the traction sutures exit.

Tighten the traction wires then turn the tie rod until the ACLip Femoral clipping.

5 Tibial fixation by ECLIPSE

STG or ST4 graft



Tapping :

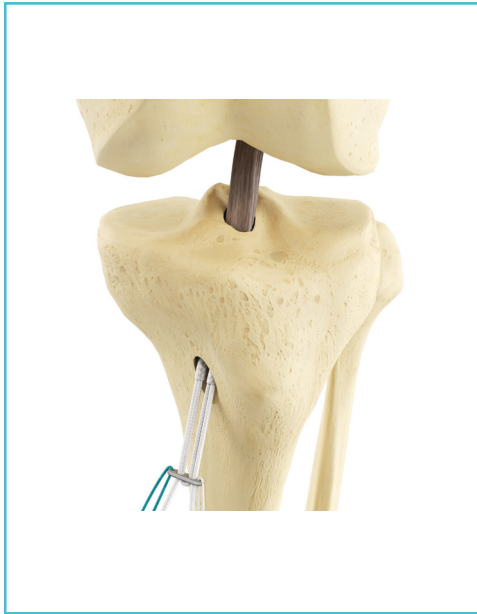
- Pull the suture wire of the graft at the tibial level
- Place the screwguide wire into the tibial tunnel
- Pass the Starter Tap or the shank starter through the tibial tunnel onto the the screwguide wire
- Thread the tunnel

Screwing :

- Put the interference screw (ECLIPSE® BCP or ECLIPSE® PROFIL) onto the Universal screwdriver Biomatlante Ø 7-8-9-10-11-12mm or the shank screwdriver
- Insert the screw into the tibial tunnel over the screw guide, keep the graft suture wire tension

5 Tibial fixation by comete control

ST4 graft



Use comete extra plate to increase the cortical contact surface. Remove one of the two traction wire. Slide the extended plate under the button. Make sure that the remaining wire is on the slot side to allow a fully interlocking button on the comete Extra plate.

Begin to pull the white adjustment thread and pull the same length with the black thread. Reproduce the movement until adjust the graft to the desired tension.

Do not apply a tension on the black adjustment thread during the loop adjustment time.

Control the graft tensioning.

Lock the loop. hold a tension on the white adjustment thread and pull tightly the black adjustment thread.

Control the graft tensioning.

Cut the adjustment threads on the tibia at a minimum distance of 10mm from the cortical button.

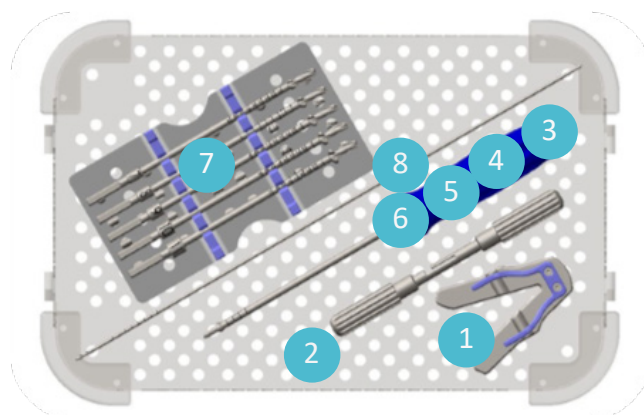






Instrumentation

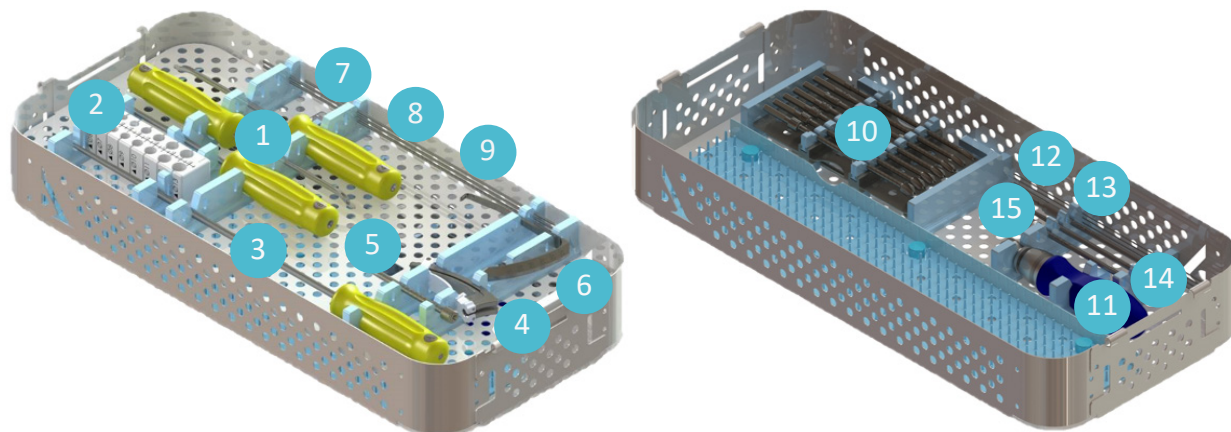
ACLip Femoral Optional instrumentation set



Rep	Designation	Reference	Qty
1	Tensile support	2-0406600	1
2	Tie rod	2-0408000	1
3	ACLip F cage Introducer or	2-0406000 -	1 -
4	Shank introducer ACLip F Cage Trinkle	2-0407200	1
5	Starter ACLip F Cage or	2-0408600 -	1 -
6	Shank starter ACLip F Cage Trinkle	2-0408610	1
	Stepped reamer $\varnothing 5 \times \varnothing 7$ mm	2-0406530	1
	Stepped reamer $\varnothing 5 \times \varnothing 7.5$ mm	2-0406535	1
	Stepped reamer $\varnothing 5 \times \varnothing 8$ mm	2-0406540	1
	Stepped reamer $\varnothing 5 \times \varnothing 8.5$ mm	2-0406545	1
7	Stepped reamer $\varnothing 5 \times \varnothing 9$ mm	2-0406550	1
	Stepped reamer $\varnothing 5 \times \varnothing 9.5$ mm	2-0406555	1
	Stepped reamer $\varnothing 5 \times \varnothing 10$ mm	2-0406560	1
	Stepped reamer $\varnothing 5 \times \varnothing 10.5$ mm	2-0406565	1
	Stepped reamer $\varnothing 5 \times \varnothing 11$ mm	2-0406570	1
8	ACLip eyelet pin	2-0404701	2

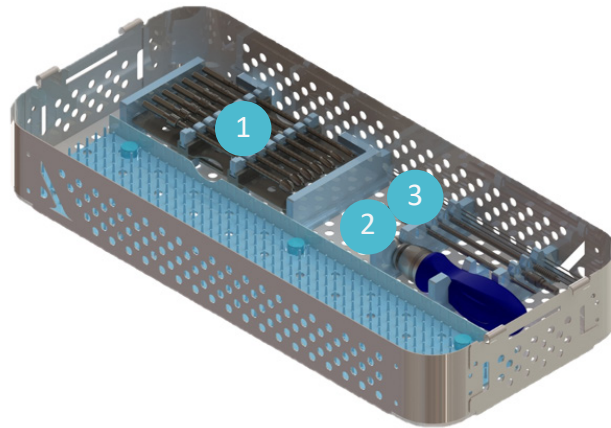
Instrumentation

Inside-Out modular instrumentation set



Rep	Designation	Reference	Qty
	5 mm IN/OUT femoral guide	2-0405305	1
1	6 mm IN/OUT femoral guide	2-0405306	1
	7 mm IN/OUT femoral guide	2-0405307	1
2	Graft sizer	2-0401800	1
3	Open stripper Ø5 mm	2-0405505	1
4	Modular guide body / handle	2-0404800	1
5	Modular tibial guide sleeve	2-0404900	1
6	Modular tibial aimer	2-0405000	1
7	Threaded graduated Eyelet pin Ø2.4mm Lg350mm	2-0404700	1
8	Trocard eyelet pin Ø2.4 mm Lg 350mm	2-0405400	1
9	Wire pin guide Ø2.4mm Lg300mm	2-0405600	1
	Reamer Ø 5.0 mm	2-0405210	1
	Reamer Ø 5.5 mm	2-0405215	1
	Reamer Ø 6.0 mm	2-0405220	1
	Reamer Ø 6.5 mm	2-0405225	1
	Reamer Ø 7.0 mm	2-0405230	1
	Reamer Ø 7.5 mm	2-0405235	1
10	Reamer Ø 8.0 mm	2-0405240	1
	Reamer Ø 8.5 mm	2-0405245	1
	Reamer Ø 9.0 mm	2-0405250	1
	Reamer Ø 9.5 mm	2-0405255	1
	Reamer Ø 10.0 mm	2-0405260	1
	Reamer Ø 11.0 mm	2-0405270	1
11	Ratcheting handle	2-0406400	1
12	Screw guidewire Ø 1.1 mm length 240 mm	2-0405700	1
13	Nitinol guide wire Diameter 1.1 mm - Length 300 mm	15INBR001F10	1
14	Shank screwdriver ECLIPSE Ø7-12 mm Trinkle or Shank screwdriver ECLIPSE® BCP / Profil	2-0409300 2-0406200	1

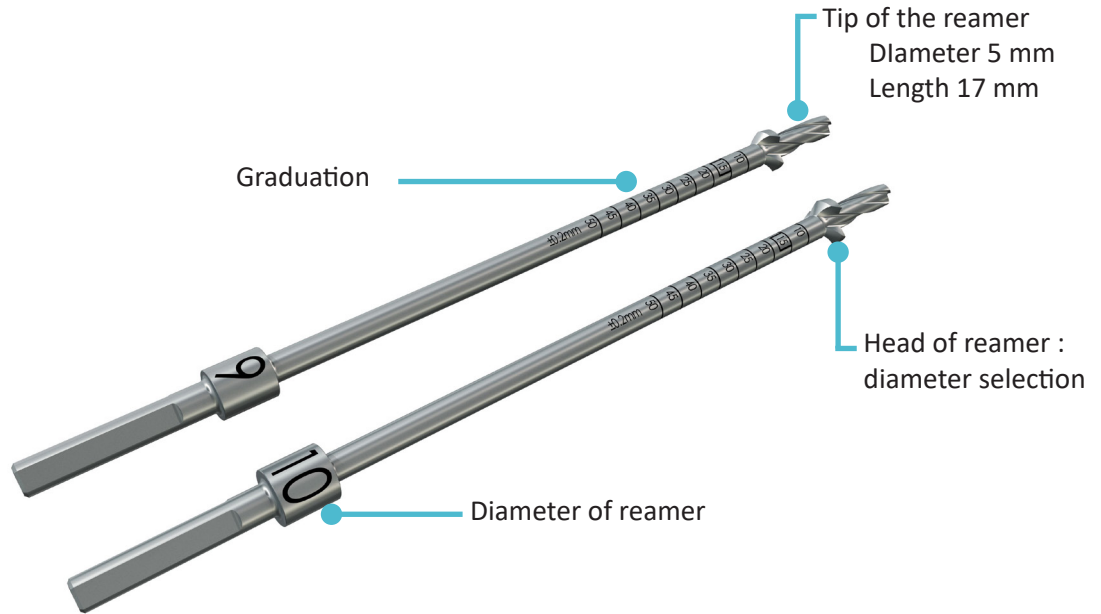
Instrumentation



Rep	Designation	Reference	Qty
1	Short reamer Ø 5.0 mm	2-0406710	1
	Short reamer Ø 5.5 mm	2-0406715	1
	Short reamer Ø 6.0 mm	2-0406720	1
	Short reamer Ø 6.5 mm	2-0406725	1
	Short reamer Ø 7.0 mm	2-0406730	1
	Short reamer Ø 7.5 mm	2-0406735	1
	Short reamer Ø 8.0 mm	2-0406740	1
	Short reamer Ø 8.5 mm	2-0406745	1
	Short reamer Ø 9.0 mm	2-0406750	1
	Short reamer Ø 9.5 mm	2-0406755	1
	Short reamer Ø 10 mm	2-0406760	1
	Short reamer Ø 11 mm	2-0406770	1
	2	Screwdriver diameter 7 -12 mm	16INTO001
3	Starter tap	11INTA001	1

Appendix A

Stepped reamer

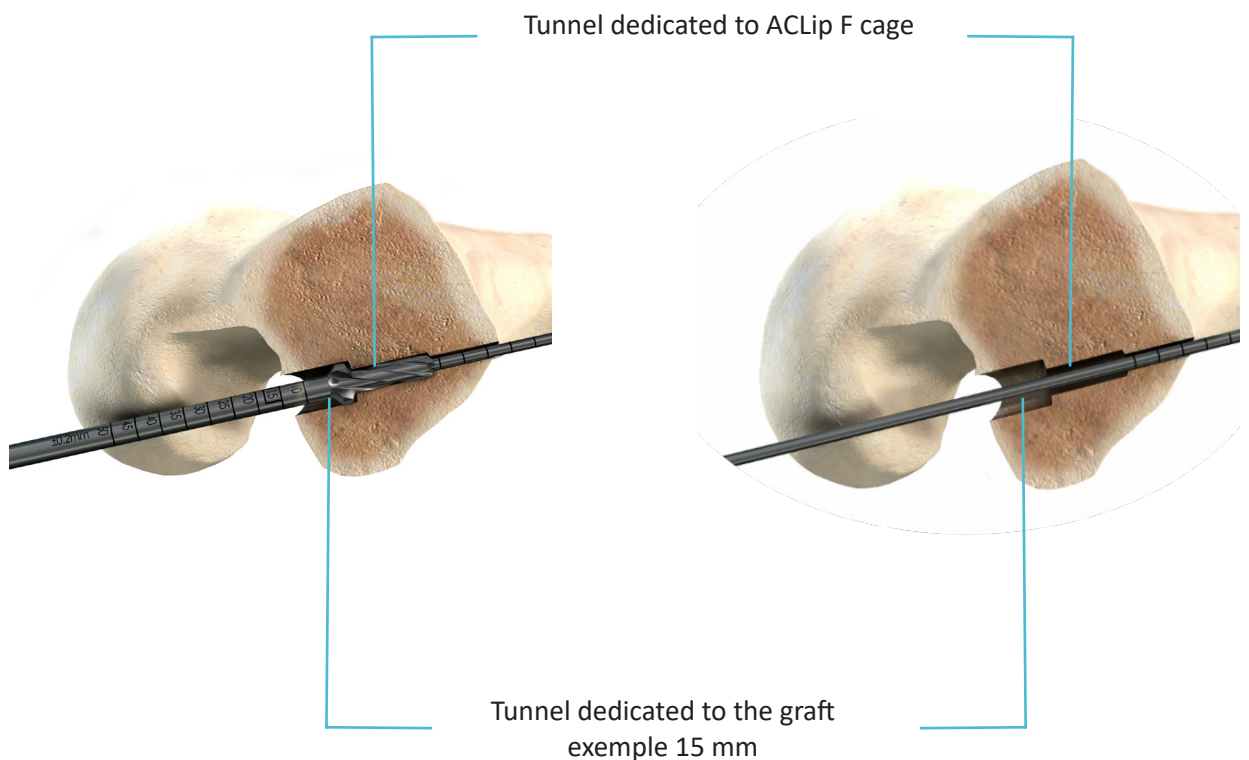


The initial stepped of the reamer is 5 mm diameter and 17 mm length to prepare the socket for the ACLip F cage.

The second stepped of the reamer corresponds to graft and length diameter:

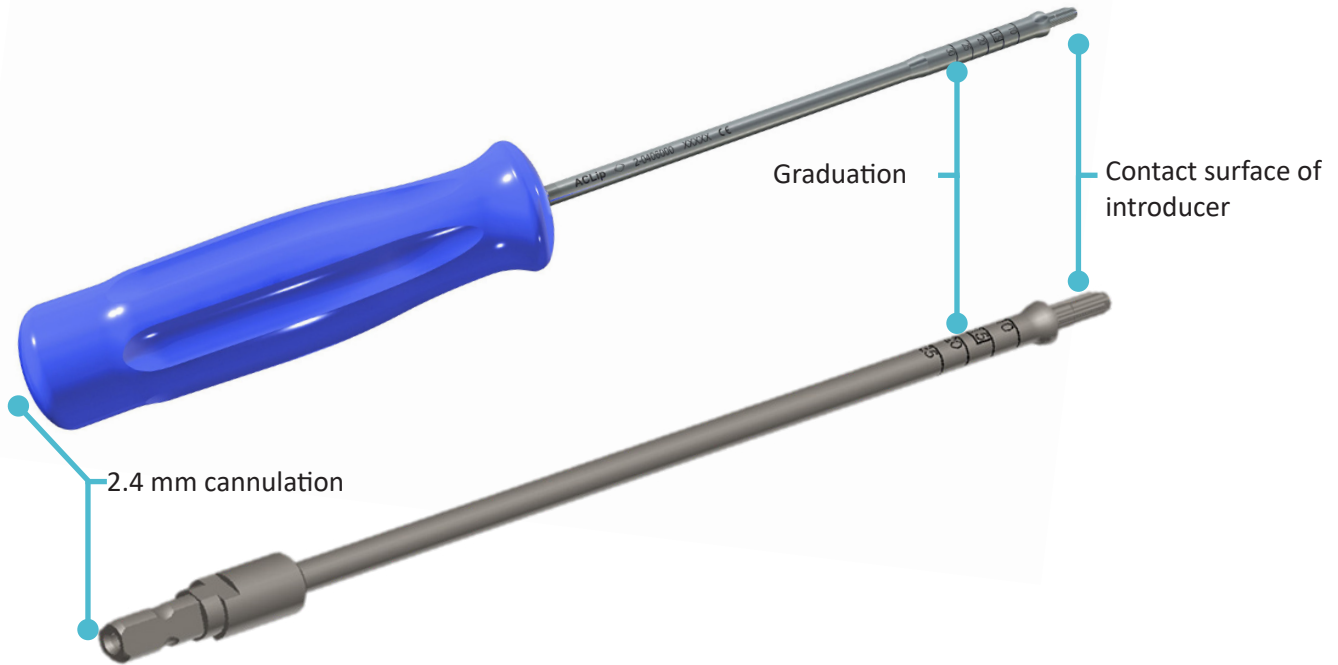
Available sizes: 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 10.5 / 11 mm.

The graduations indicate the depth of the graft tunnel.



Appendix B

Introducer and shank introducer ACLip F cage



2.4 mm cannulation for screw fixation over eyelet pin.
Graduations match graduations on reamer.

The ACLip F cage is screwed into the bone with the same graduation as used for the stepped reamer.
Example: 15 mm screw depth



Appendix C

Tensile support and tie rod

Tie rod



Tensile support



Assembled clipping system



NOTES



Product availability may vary by country. Please check with your local representative for availability.

Legal manufacturer:

AClip: NOVASTEP S.A.S, 2 allée Jacques Frimot - 35000 Rennes - France / AClip® is indicated for ligamentous anchorage in knee orthopaedic surgery, especially for the following surgeries: Anterior Cruciate Ligament (ACL) anchorage, Posterior Cruciate Ligament (PCL) anchorage, Collateral ligament anchorage and Medial Patello-Femoral Ligament (MPFL) anchorage.
COMETE Control - extra plate: COUSIN BIOTECH: s.a.s, Allée des Roses, 59117 Wervicq-Sud, France
ECLIPSE BCP and Profil: Biomatlante • 5 rue Édouard Belin • Z.A. Les Quatre Nations • 44360 • Vigneux de Bretagne • France

Service Clients – France :

Porte du Grand Lyon,
01700 Neyron – France
Tél. : **+33 (0)4 37 85 19 19**
Fax : +33 (0)4 37 85 19 18
E-mail : amplitude@amplitude-ortho.com

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ZA Mozart 2,
26000 Valence – France
Tél. : **+33 (0)4 75 41 87 41**
Fax : +33 (0)4 75 41 87 42

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