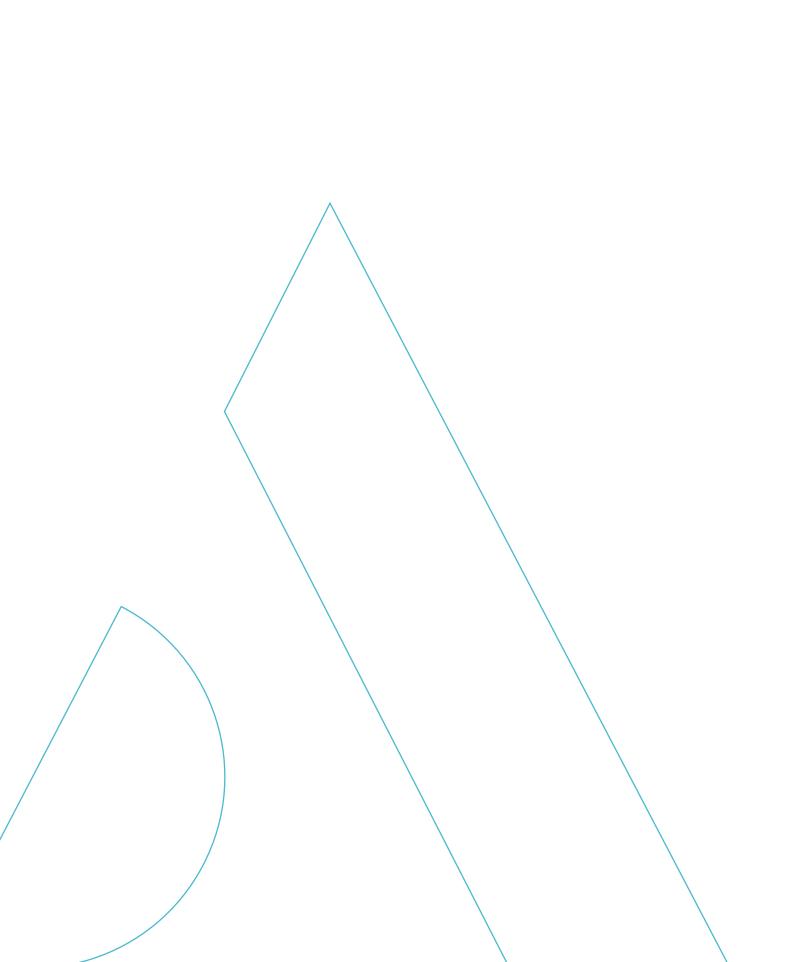




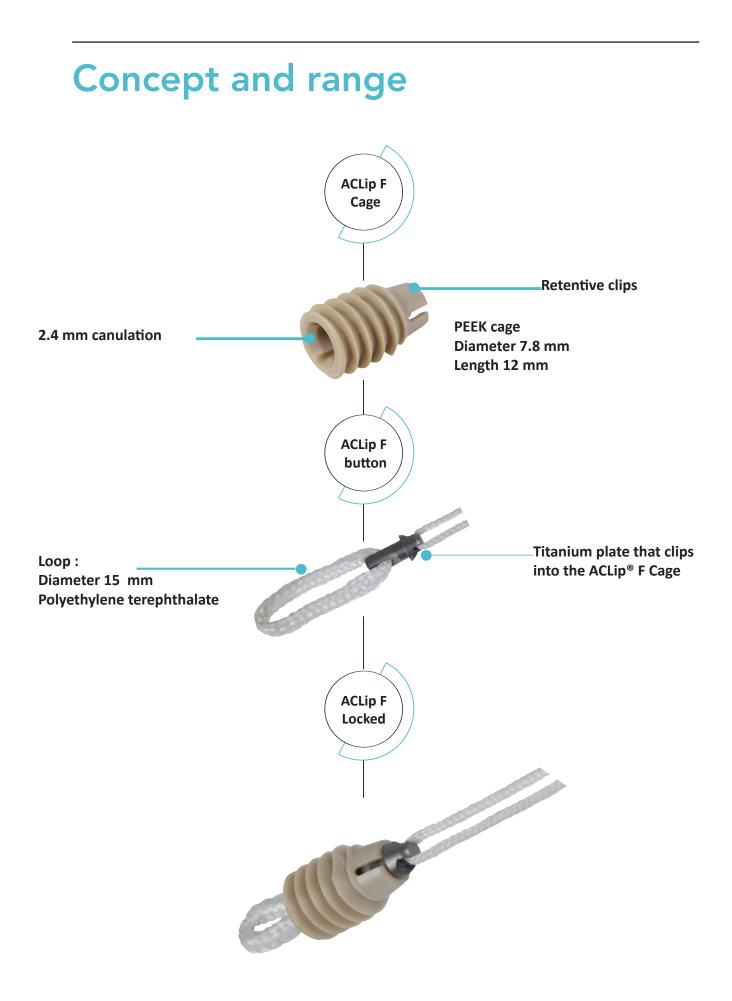


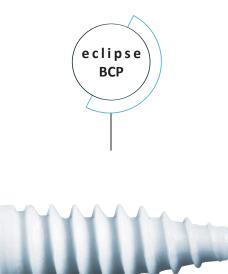
Surgical technique



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Appendix C Tensile support and tie rod





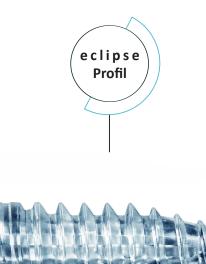


75% PLDLLA polylactic acid 25% BCP : 20% HA et 80% & TCP

Range :

	20	25	30	35
7				
8				
9				
10				
11				
12				

Image non contractuelle

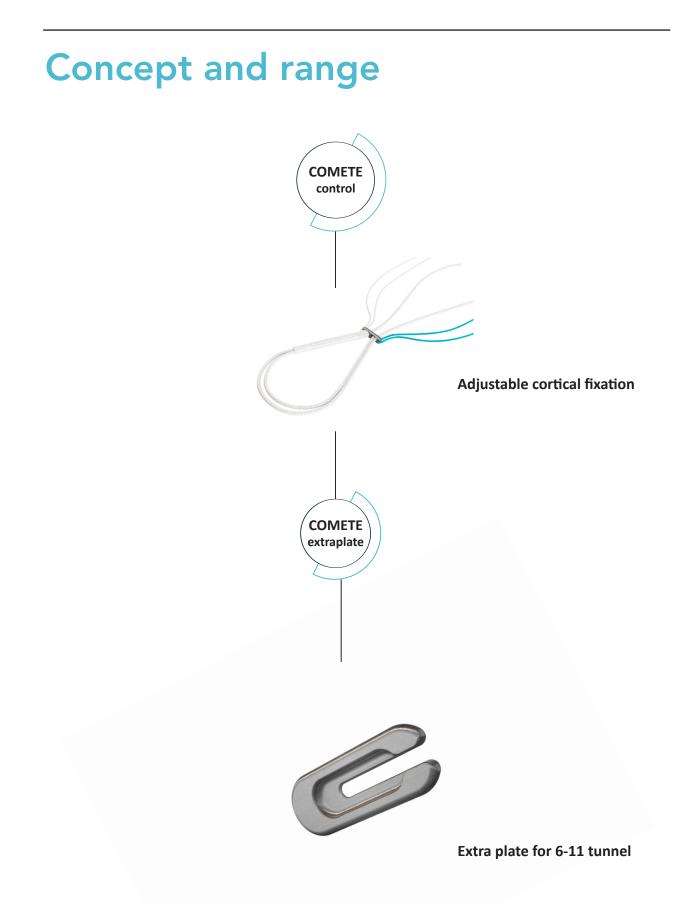




100% PLDLLA polylactic acid 25% BCP : 20% HA et 80% ßTCP

Kamgene :

	20	25	30
7			
8			
9			
10			



Adjustable cortical fixation

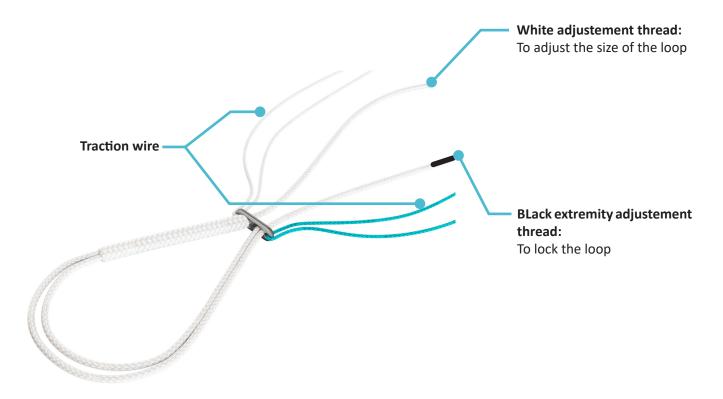


Plate for 6 to 11 mm tunnel



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 adjutable 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 lenght 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

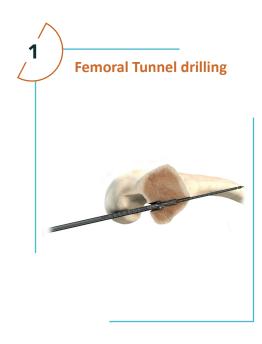
Length	20 mm
Width	7 mm
Thickness	1.50 mm

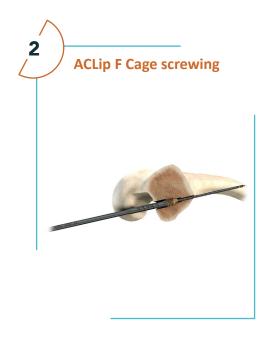
Implant comete control et extra plate

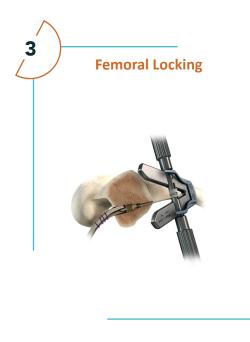
Remove one of the two traction wires. Slide the extra plate under the button. Make sure that the remaining traction wire is on the slot side to avoid hindering the interlocking.

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document is a Anatomical	access	and		technique	

Surgical Technique Overview







1 Femoral tunnel placement

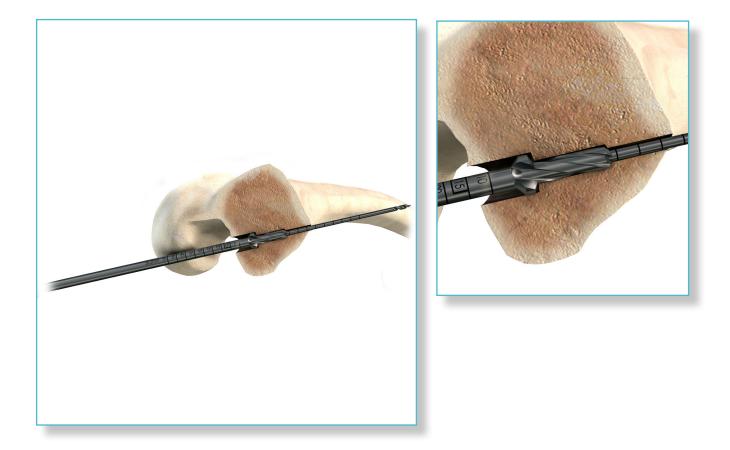


Select the appropriate offset: 1 mm more than the graft radius.

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

Place the eyelet pin through the femoral guide untill 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).

Exemple :

Graft tunnel = 15mm.

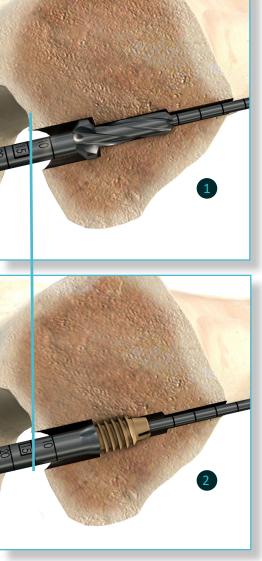
The total legnth of the two tunnels 15mm+17mm=32mm. the distance cortex to cortex must be at minimum 32mm.

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.





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.

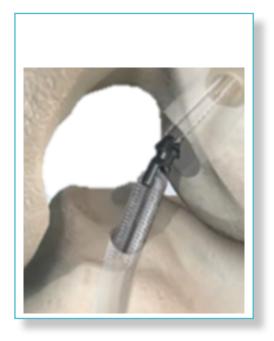
Key factor

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.

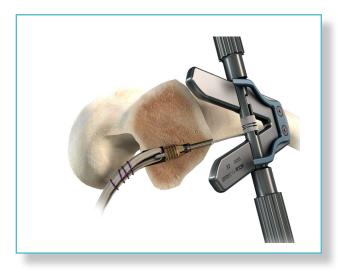
4 ACLip Femoral clipping





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 :

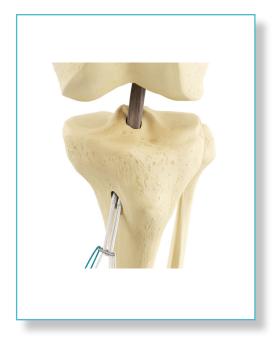
- Pull the suture wire of the graft at the tibial level
- Place the screwguide wire into the tibial tunnel
- Pass the Starter Tap or the shank starter through the tibial tunnel onto the the screwguide wire
- Thread the tunnel

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 plate.

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

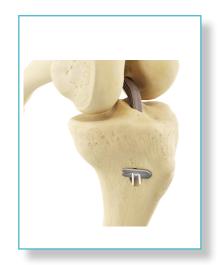
Do not apply a tension on the black adjustment thread during the loop adjustment time.

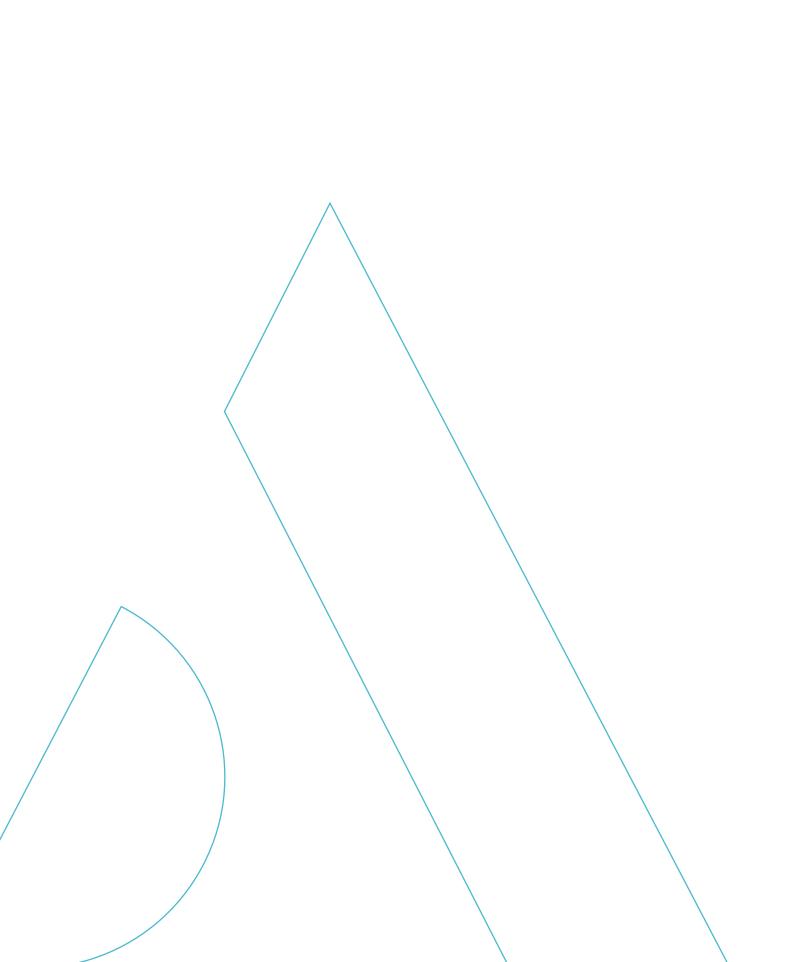
Control the graft tensioning.

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

Control the graft tensionning.

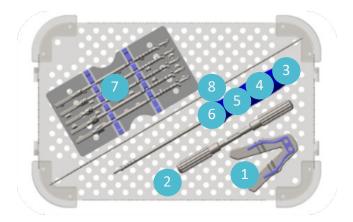
Cut the adjustment threads on the tibia at a minimum distance of 10mm from the cortical button.





Instrumentation

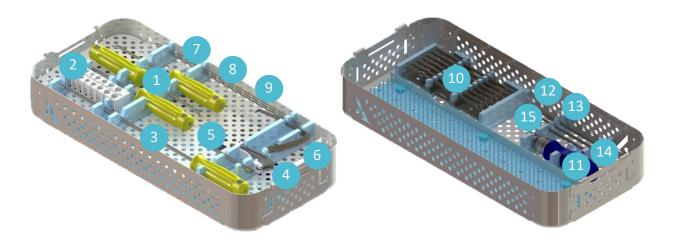
ACLip Femoral Optional instrumentation set



Rep	Designation	Reference	Qty
1	Tensile support	2-0406600	1
2	Tie rod	2-0408000	1
3	ACLip F cage Introducer	2-0406000	1
	or	-	-
4	Shank introducer ACLip F Cage Trinkle	2-0407200	1
5	Starter ACLip F Cage	2-0408600	1
	or	-	-
6	Shank starter ACLip F Cage Trinkle	2-0408610	1
7	Stepped reamer Ø5xØ7 mm	2-0406530	1
	Stepped reamer Ø5xØ7.5 mm	2-0406535	1
	Stepped reamer Ø5xØ8 mm	2-0406540	1
	Stepped reamer Ø5xØ8.5 mm	2-0406545	1
	Stepped reamer Ø5xØ9 mm	2-0406550	1
	Stepped reamer Ø5xØ9.5 mm	2-0406555	1
	Stepped reamer Ø5xØ10 mm	2-0406560	1
	Stepped reamer Ø5xØ10.5 mm	2-0406565	1
	Stepped reamer Ø5xØ11 mm	2-0406570	1
8	ACLip eyelet pin	2-0407701	2

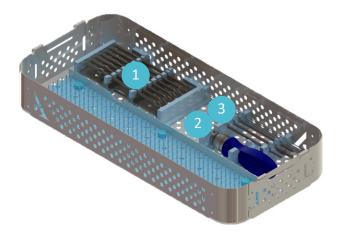
Instrumentation

Inside-Out modular instrumentation set



Rep	Designation	Reference	Qty
1	5 mm IN/OUT femoral guide	2-0405305	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 Lg300mm	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
10	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	Guide wire Nitinol for resorbable fixation systems	15INBR001F10	1
14	Shank screwdriver ECLIPSE Ø7-12 mm Trinkle or Shank screwdriver ECLIPSE® BCP / Profil	2-0409300 2-0406200	1

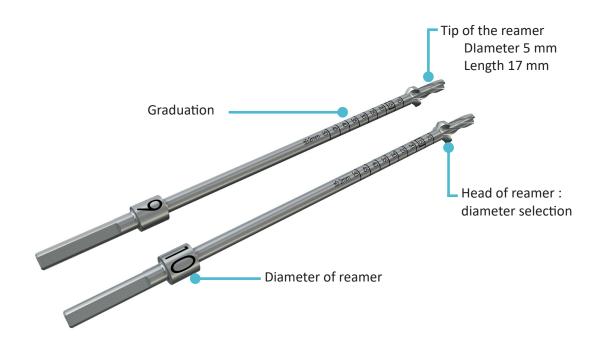
Instrumentation



Rep	Designation	Reference	Qty
	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
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	1
3	Starter tap	11INTA001	1

Appendix A

Stepped reamer

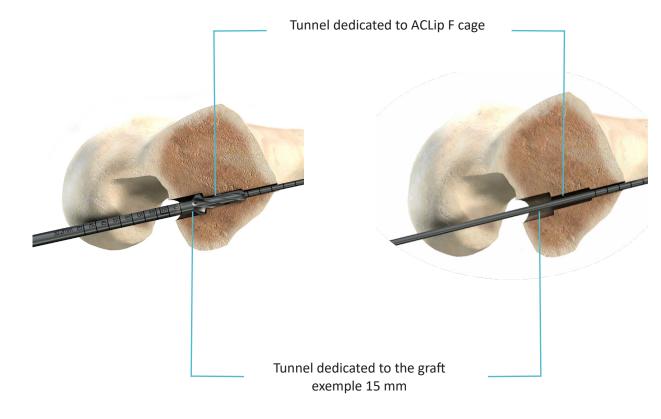


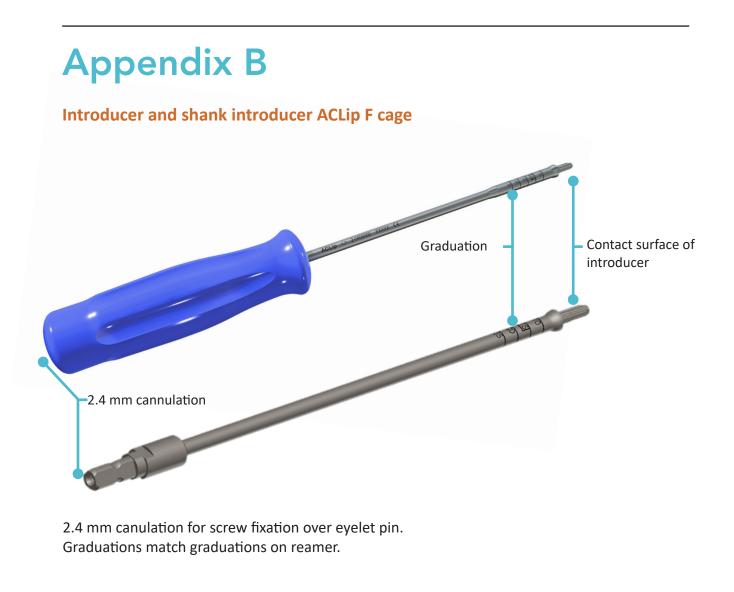
The initial stepped of the reamer is 5 mm diameter and 17 mm length to prepare the socket for the ACLip F cage.

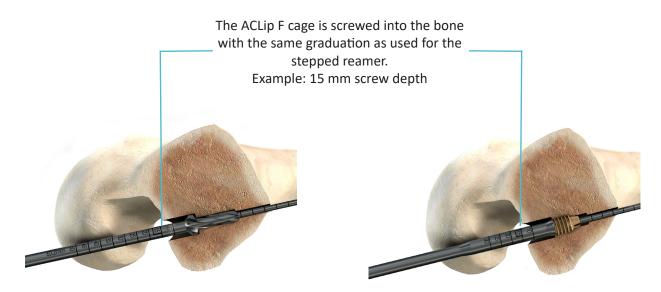
The second stepped of the reamer corresponds to graft and length diameter:

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.









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 COMETE Control - extra plate: COUSIN BIOTECH: s.a.s 8, rue de l'Abbé Bonpain, 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

Customer Service – Export :

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

www.amplitude-ortho.com