





# ACLIP® FEMORAL

The **ACLIP® Femoral** consists of the

- ⇒ **ACLIP® F Cage** and
- ⇒ **ACLIP® F Button**



**ACLIP® F Cage** is a PEEK cage with a diameter of

- ⇒ 5.5 mm at the thread root
- ⇒ 7.8 mm at the thread crest

The **ACLIP® F Cage** has

- ⇒ a cancellous bone thread
- ⇒ proximally retaining clips
- ⇒ 2.4 mm cannulation for screw fixation on eyelet pin



The **ACLIP® F Button** has

- ⇒ a 15-mm long braided suture
- ⇒ a titanium eyelet that clips into the ACLIP® F Cage

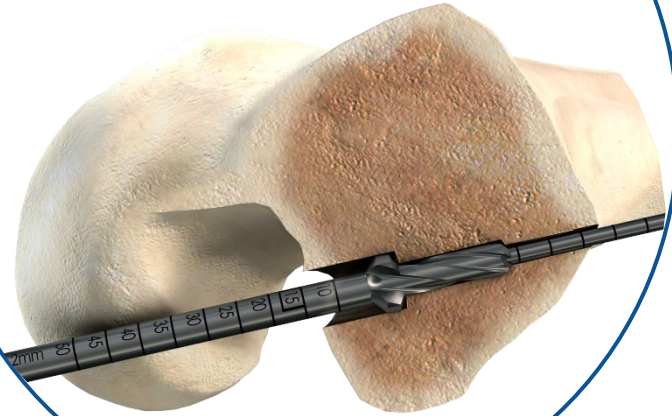


# SUMMARY OF SURGICAL TECHNIQUE

1

## Drilling of femoral socket

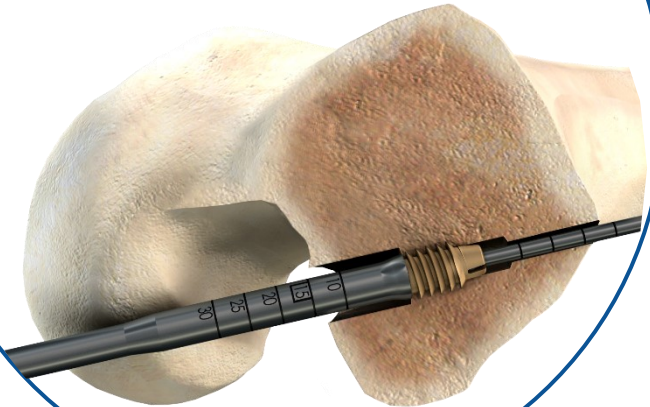
- Stepped reamer  
1<sup>st</sup> tunnel for the ACLip® F Cage  
2<sup>nd</sup> tunnel for the graft  
Graduations on reamer = depth of graft tunnel



2

## Screw fixation

- Fixation of ACLip® F Cage on eyelet pin
- Reuse the drill graduations for the screw fixation:  
e.g. 15 mm drilling depth on reamer  
15 mm screw fixation depth

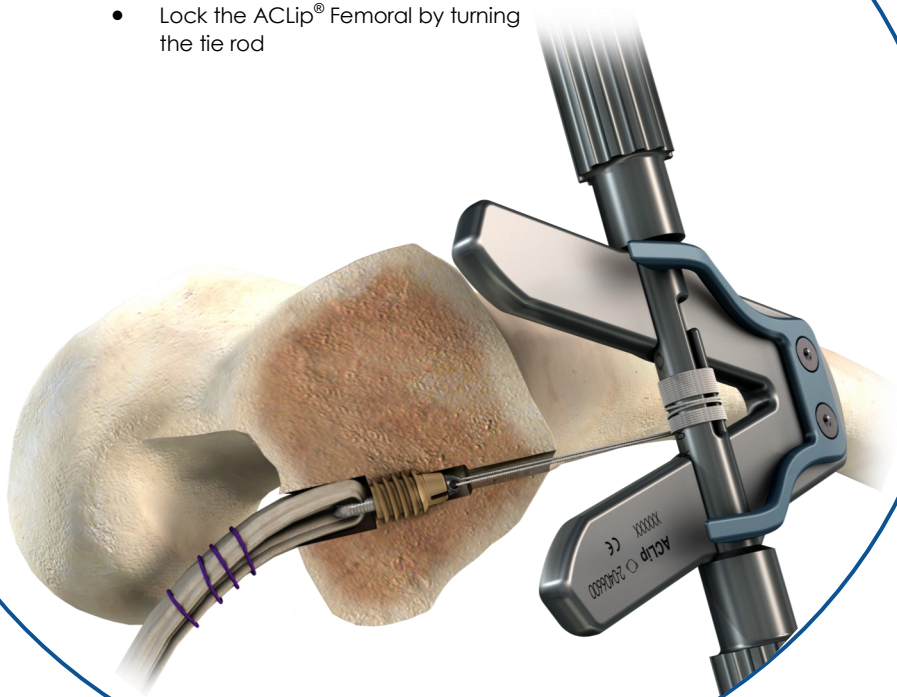


# SUMMARY OF SURGICAL TECHNIQUE

3

## Clip-on fixation

- Pull on the ACLip® F Button until it is lodged in the femur
- Position the clipping system on the patient's leg where the traction sutures exit
- Place the traction sutures on the tie rod
- Lock the ACLip® Femoral by turning the tie rod



## Reminder

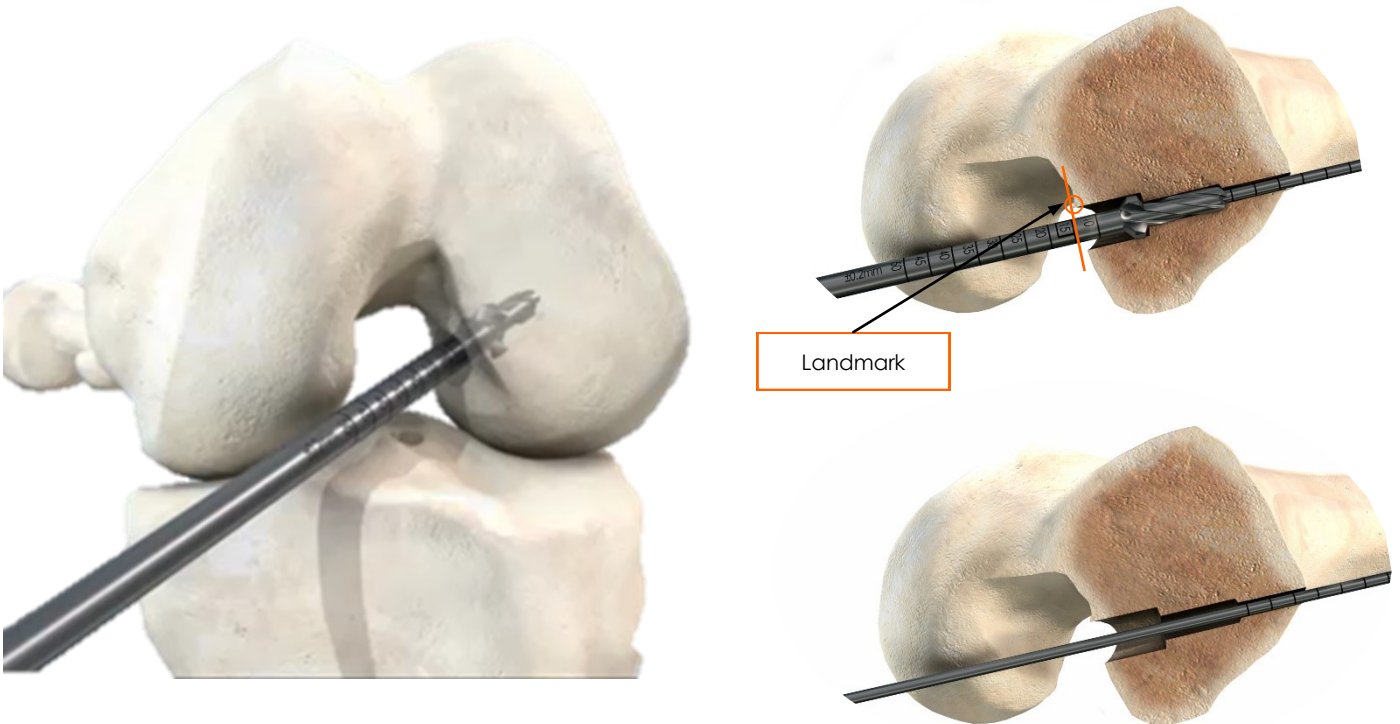
The purpose of this surgical technique is to provide instructions on how to use the instrumentation properly. The surgeon is fully responsible for choosing and performing the approach and surgical technique.

## ALIGNMENT OF FEMORAL TUNNEL



- Select the offset on the Inside-Out femoral guide appropriate for the tunnel diameter. The guide's offset must be at least 1 mm greater than the radius of the tunnel.
- The guide's head is set against the posterior cortex of the lateral condyle.
- The guide's tip helps to stabilise it.
- Using a surgical drill, insert the eyelet pin into the cannulated femoral guide.
- Use the graduated eyelet pin to measure the distance between the proximal and distal femoral cortices.
- Remove the femoral alignment guide.

## DRILLING OF FEMORAL TUNNEL



- Select the stepped reamer corresponding to the graft's 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 in place.

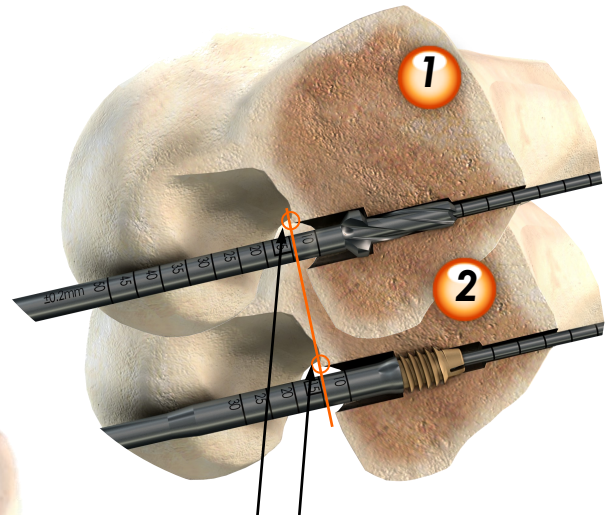
### Key factor

**At the end of the drilling procedure, take a mark 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**

## INSERTION OF ACLIP® CAGE



Match graduation  
Drilling/Screwing



Landmark :  
On Picture 1 Drilling landmark  
=  
On Picture 2 The same landmark is used to ACLIP®  
Cage screwing

- Place the ACLIP® F Cage on the cage introducer.
- Place the cage introducer over the eyelet pin.
- Screw the ACLIP® F Cage. The depth graduation must be the same as the graduation shown on the stepped reamer when the tunnel was drilled.

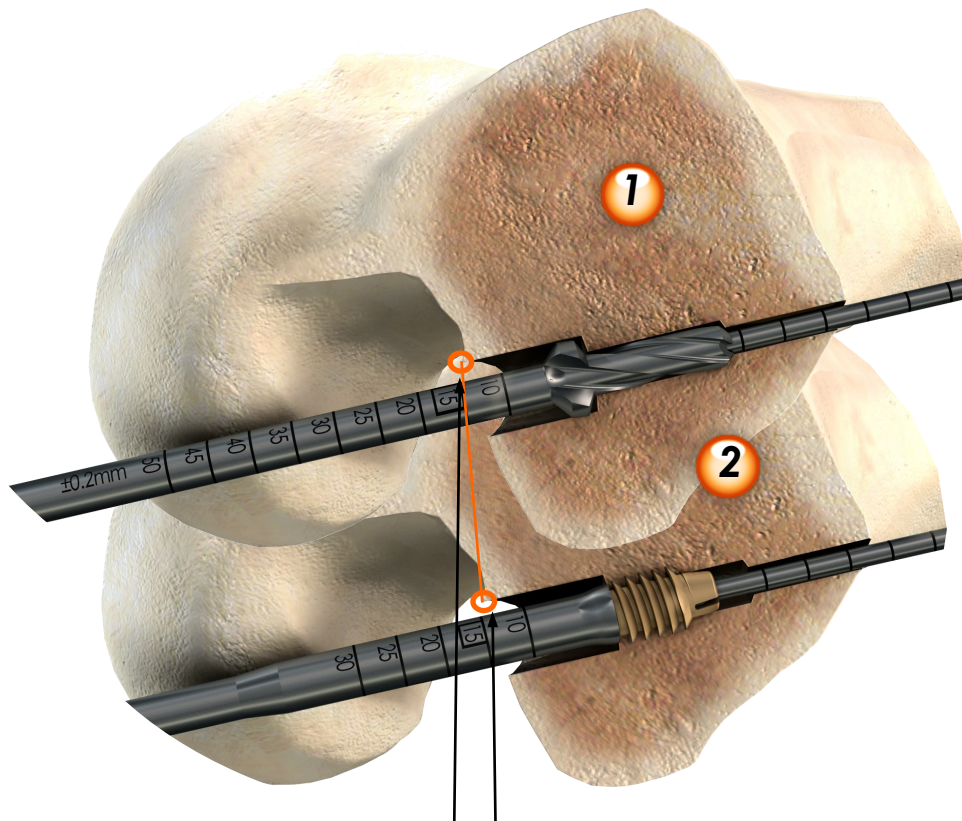
**Screw on the ACLIP® Cage while keeping the eyelet pin axis, in order not to apply excessive lever arm between the tip of the introducer and the eyelet pin.**

**A lever arm will weaken the tip of the ACLIP® cage introducer . Like it happens for any cannulated instrument.**

- Remove the cage introducer while leaving the eyelet pin in place.



## MATCH OF THE GRADUATION BETWEEN DRILLING AND SCREWING INSERTION



Landmark :  
On Picture 1 Drilling landmark  
=  
On Picture 2 The same landmark is used to ACLip®  
Cage screwing

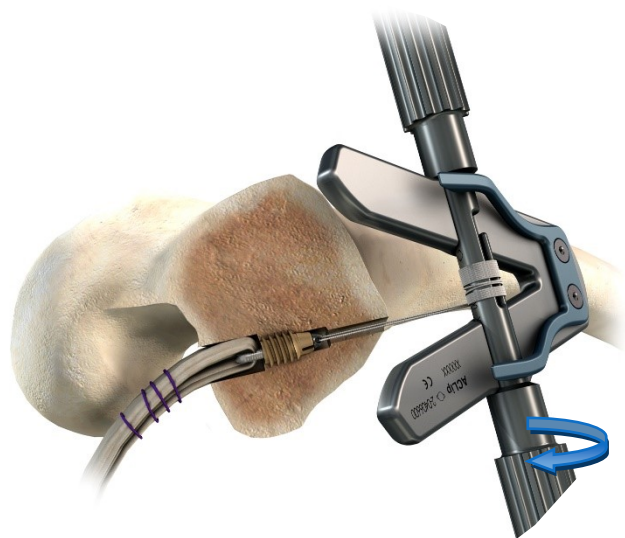
### Key factor

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 and ensures clipping and good mechanical properties.

## CLIPPING OF ACLIP®

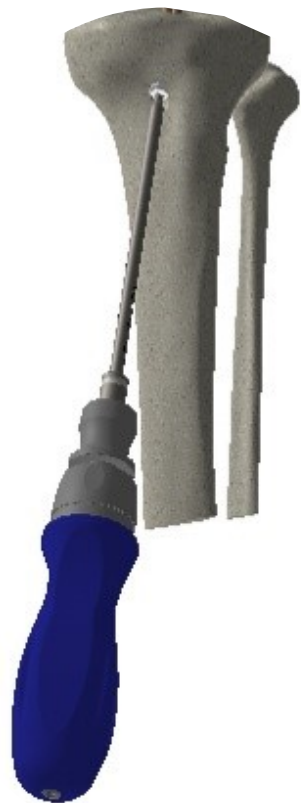


- Assemble the tie rod and support.
- Gently pull on the ACLIP® Button traction sutures until the ACLIP® F Button stops against the ACLIP® F Cage.



- Place the traction sutures on the tie rod.
- Position the clipping system on the patient's leg where the traction sutures exit.
- Tighten the traction sutures then turn the tie rod until the ACLIP® Femoral is secured.

## *TIBIAL FIXATION BY ECLIPSE® BCP OU PROFIL SCREWS*

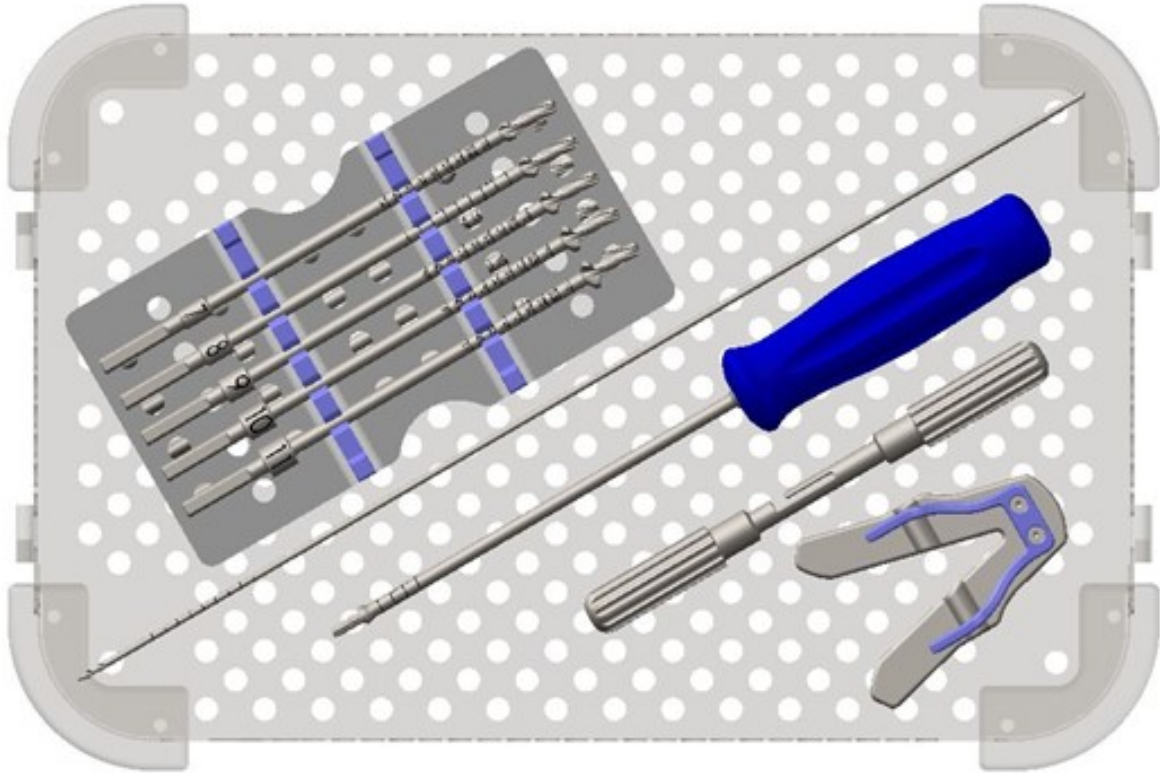


- Assemble the ECLIPSE® BCP screwdriver shaft (modified Trinkle connection) with the ratcheting handle.
- Make sure the ratchet mechanism works.
- Use the tibial traction sutures to tension the graft.
- Place a 1.1-mm diameter screw guide wire in the tibial tunnel.
- Place the interference screw on the dedicated screwdriver.
- Tighten the screw over the guide wire.

# INSTRUMENTATION SET

*ACLIP<sup>®</sup> OPTIONAL INSTRUMENTATION*

*2-0299989*



# INSTRUMENTATION SET

ACLIP® OPTIONAL INSTRUMENTATION

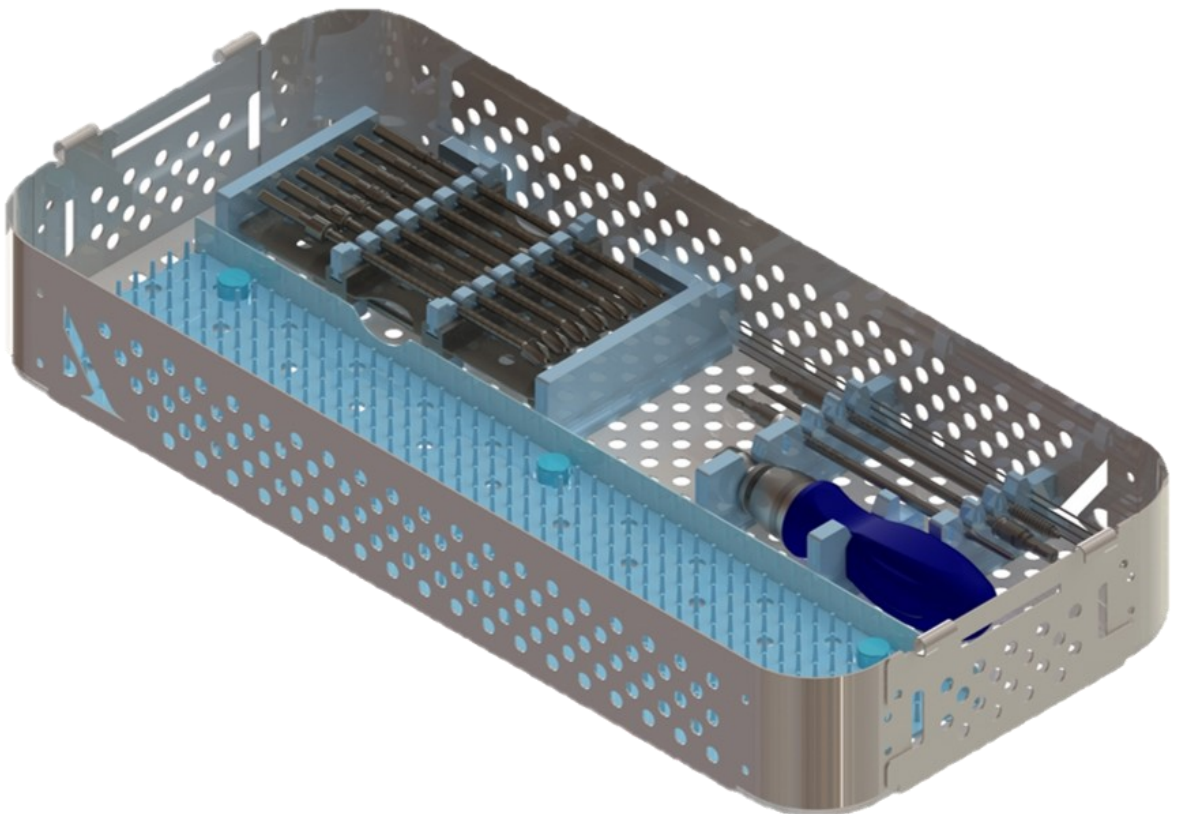
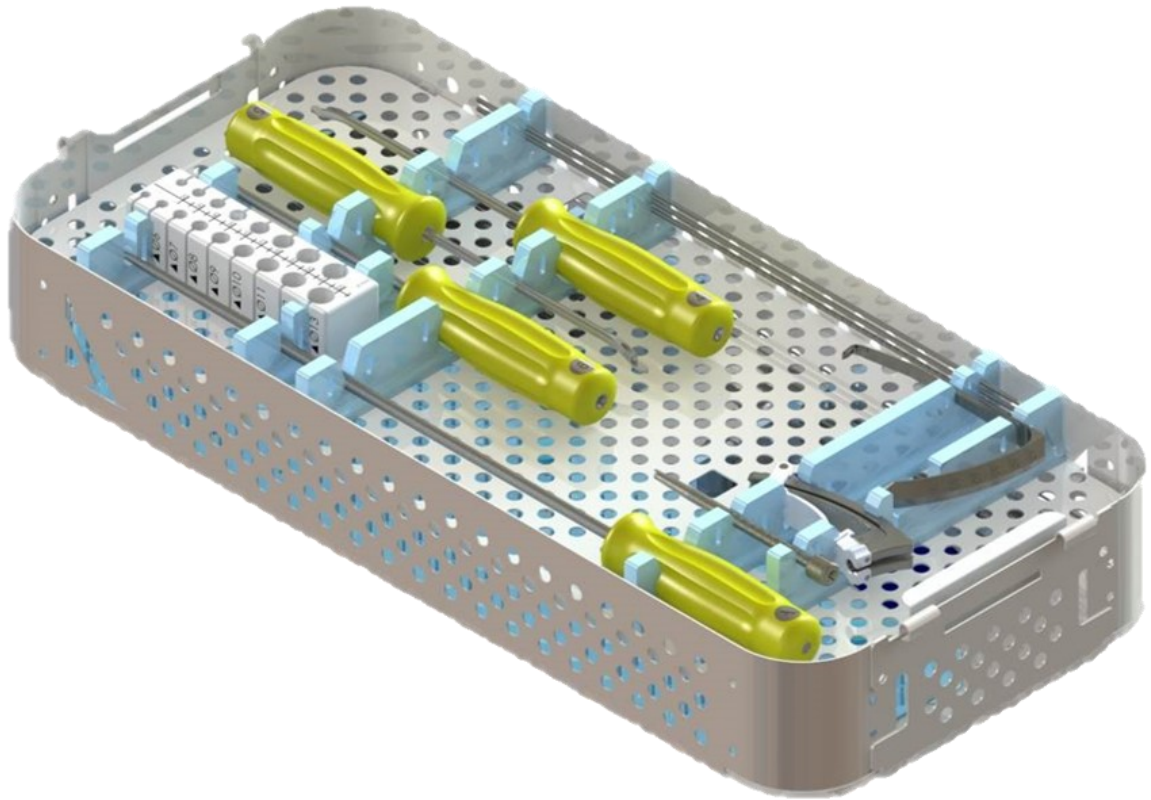
2-0299989

Name	Product No.	Qty.
Tensile support	2-0406600	1
Tie rod	2-0408000	1
ACLip® F Cage introducer or Shank introducer ACLip® F Cage Trinkle	2-0406000 Ou 2-0407200	1
Stepped reamer Ø5 x Ø7 mm	2-0406530	1
Stepped reamer Ø5 x Ø7.5 mm	2-0406535	1
Stepped reamer Ø5 x Ø8 mm	2-0406540	1
Stepped reamer Ø5 x Ø8.5 mm	2-0406545	1
Stepped reamer Ø5 x Ø9 mm	2-0406550	1
Stepped reamer Ø5 x Ø9.5 mm	2-0406555	1
Stepped reamer Ø5 x Ø10 mm	2-0406560	1
Stepped reamer Ø5 x Ø10.5 mm	2-0406565	1
Stepped reamer Ø5 x Ø11 mm	2-0406570	1
ACLip® eyelet pin	2-0404701	2

# INSTRUMENTATION SET

*MODULAR INSIDE-OUT INSTRUMENTATION*

*2-0299940*



# INSTRUMENTATION SET

## MODULAR INSIDE-OUT INSTRUMENTATION

2-0299940

Name	Product No.	Qty.
Inside-Out femoral guide 4 mm	2-0405304	1
Inside-Out femoral guide 5 mm	2-0405305	1
Inside-Out femoral guide 6 mm	2-0405306	1
Graft sizer	2-0401800	1
Open stripper D 5 mm	2-0405505	1
Modular guide body	2-0404800	1
Modular tibial guide sleeve	2-0404900	1
Modular tibial aimer	2-0405000	1
Threaded graduated eyelet pin D 2.4 mm L 350 mm	2-0404700	1
Trocar tip eyelet pin D 2.4 mm L 350 mm	2-0405400	1
Pin guide wire D 2.4 mm L 300 mm	2-0405600	2

Name	Product No.	Qty.
Canulated Reamer D 5.0 mm	2-0405210	1
Canulated Reamer D 5.5 mm	2-0405215	1
Canulated Reamer D 6.0 mm	2-0405220	1
Canulated Reamer D 6.5 mm	2-0405225	1
Canulated Reamer D 7.0 mm	2-0405230	1
Canulated Reamer D 7.5 mm	2-0405235	1
Canulated Reamer D 8.0 mm	2-0405240	1
Canulated Reamer D 8.5 mm	2-0405245	1
Canulated Reamer D 9.0 mm	2-0405250	1
Canulated Reamer D 9.5 mm	2-0405255	1
Canulated Reamer D 10 mm	2-0405260	1
Canulated Reamer D 11 mm	2-0405270	1
Ratcheting driver handle - modified Trinkle connection	2-0406400	1
Screw guide wire D 1.1 mm L 240 mm	2-0405700	2
Wire Nitinol Ø1.1 mm, Length 300 mm	15INBR001F10	2
ECLIPSE® BCP screwdriver shank - modified Trinkle connection	2-0406200	1
Starter shank D 7 mm - modified Trinkle connection	2-0406300	1

# INSTRUMENTATION SET

## MODULAR INSIDE-OUT INSTRUMENTATION

2-0299940

Name	Product No.	Qty.
Short canulated reamer D 5.0 mm	2-0406710	1
Short canulated reamer D 5.5 mm	2-0406715	1
Short canulated reamer D 6.0 mm	2-0406720	1
Short canulated reamer D 6.5 mm	2-0406725	
Short canulated reamer D 7.0 mm	2-0406730	1
Short canulated reamer D 7.5 mm	2-0406735	1
Short canulated reamer D 8.0 mm	2-0406740	1
Short canulated reamer D 8.5 mm	2-0406745	1
Short canulated reamer D 9.0 mm	2-0406750	1
Short canulated reamer D 9.5 mm	2-0406755	1
Short canulated reamer D 10 mm	2-0406760	1
Short canulated reamer D 11 mm	2-0406770	1
Screwdriver (x1) - Diameter 7 to 12 mm	16INTO001	1
Tap for interference screws L20-25-30mm	11INTA001	1

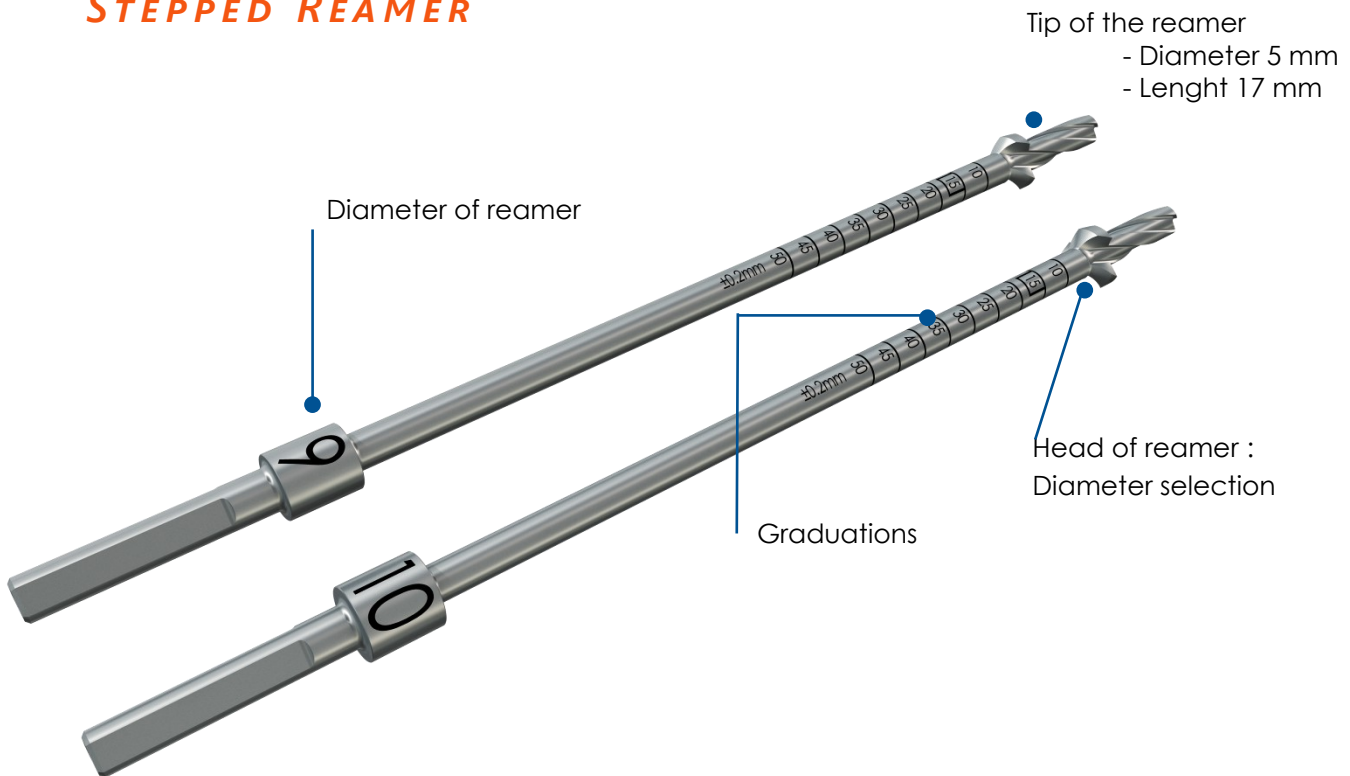




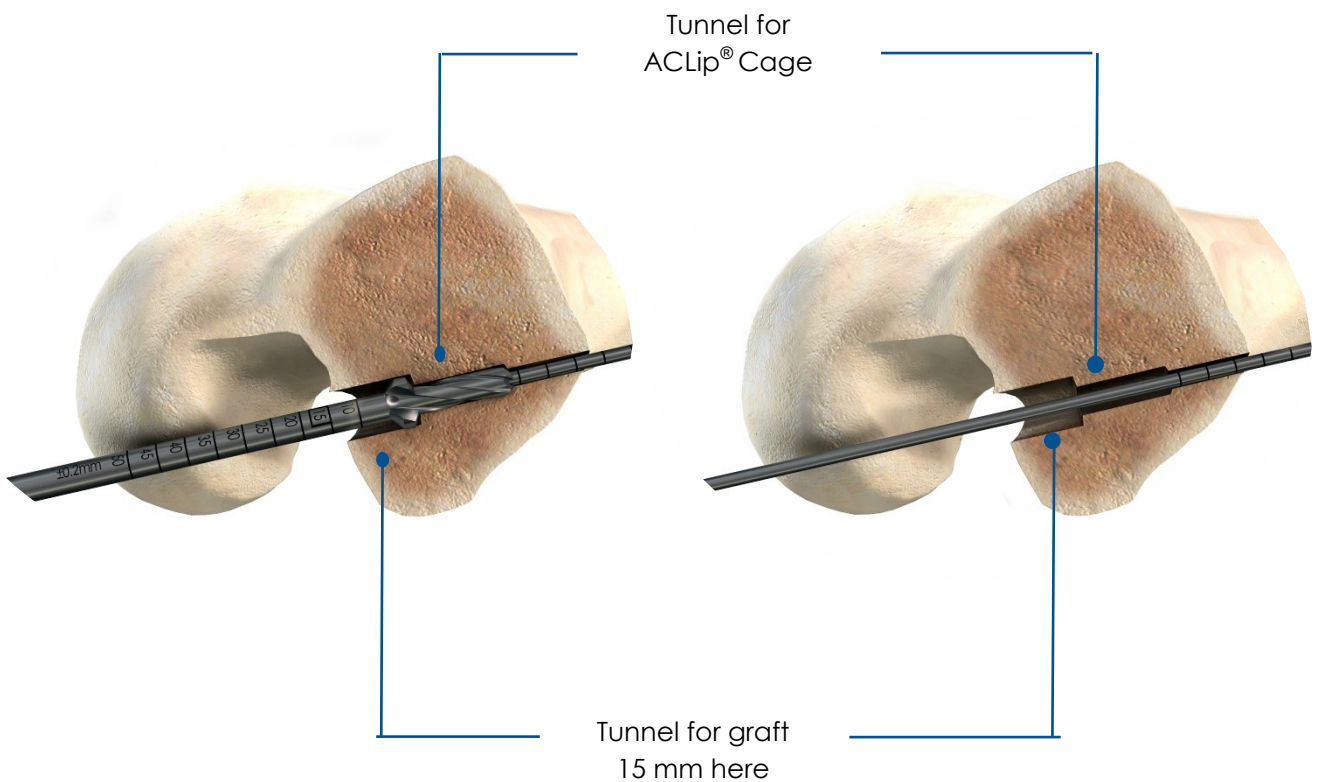
**APPENDICES**

# APPENDIX A

## STEPPED REAMER



- I First cut of 5 mm over 17 mm prepares the socket for the ACLip® Cage.
- I Second cut corresponds to graft diameter:  
Available sizes: 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 11 mm.
- I The graduations indicate the depth of the graft tunnel.

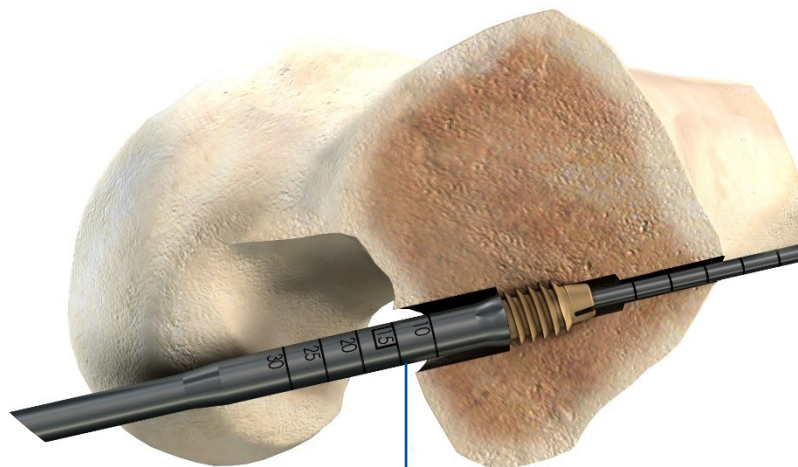


# APPENDIX A

## ACLIP<sup>®</sup> F CAGE INTRODUCER



- | Contact surface of the ACLip<sup>®</sup> Cage introducer
- | 2.4-mm cannulation for screw fixation over eyelet pin
- | Graduations match graduations on reamer



The ACLip<sup>®</sup> Cage is screwed into bone with the graduations on the stepped reamer still visible. Example: 15 mm screw depth

# APPENDIX B

## TENSILE SUPPORT AND TIE ROD

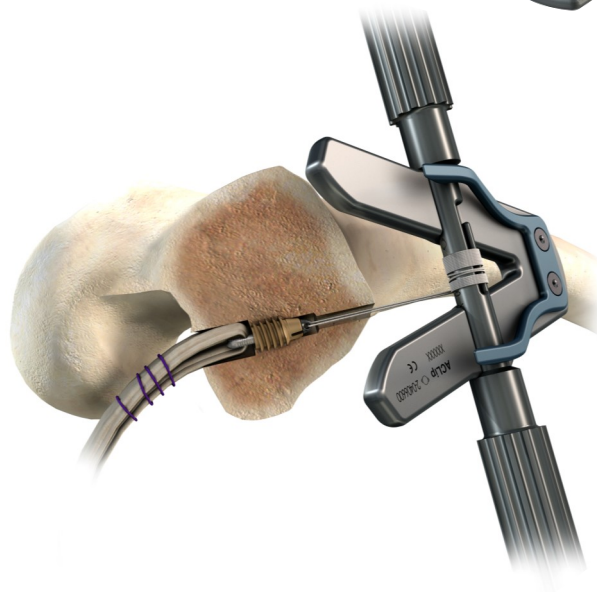
I Tie rod.



I Tensile support.



I Assembled clipping system









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