

# COLS<sup>®</sup>

## COLS<sup>®</sup> SYSTEM

### The advantages :

- Only one tendon harvested;
- Preloaded 4 bundle short graft;
- Immediate mechanical properties similar to a normal ACL;
- Atraumatic fixation of the graft;
- Optimal Secondary fixation : maximum tendon/bone contact (360°);
- Post-operative period : no splint, immediate and full weight-bearing, free movement.



- Step by step -  
Surgical technique

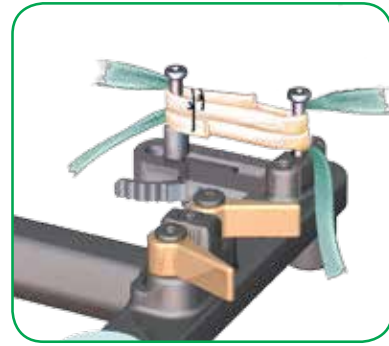


## 1 Transplant harvesting



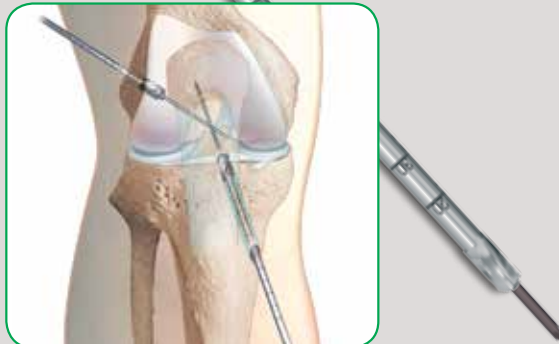
Harvesting the semi-tendinous  
*Open tendon stripper - ref 265 664*

## 2 Preparing the transplant



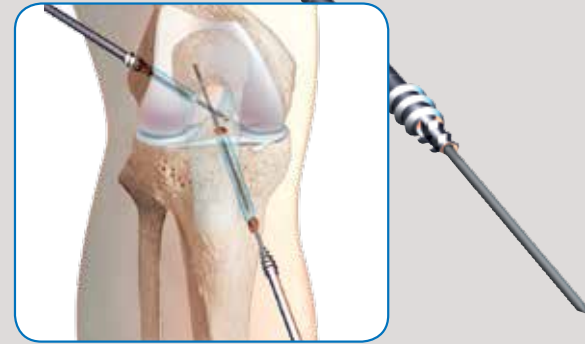
Position the tapes at the predetermined distance and begin looping the tendon in order to obtain a quadruple semi-t bundle. Suture the graft with a U-Suture, remove and pretension, and continue with 1 more U suture and two figure eights

## 5 Drilling the tunnels



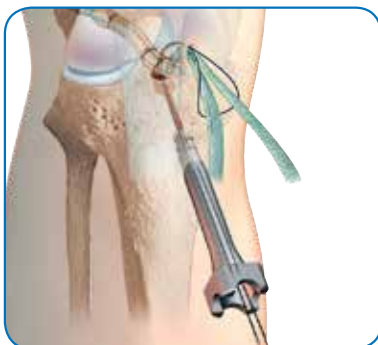
Over-ream with a 4.5mm drill, noting the skin line measurement before drilling  
*CoLS® drill - ref 251 262*

## 6 Tapping



Tap the femoral tunnel and tibial tunnel  
*CoLS® bone tap - ref 250 105*

## 9 Recovering the tapes



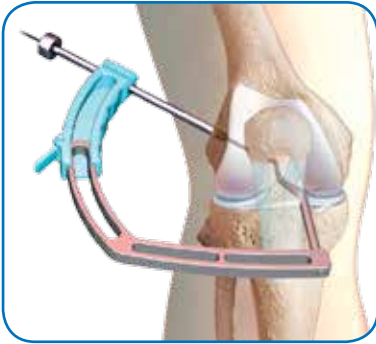
Pull the femoral tape in first, drawing the entire graft into the joint space. Then pull in the tibial tape

## 10 Implanting the graft



Manually draw the graft into the sockets

## 3 Outside in femoral targeting



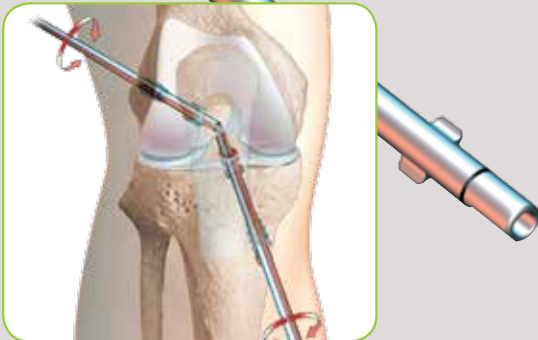
Position the femoral pin using the universal pin guide with femoral insert

## 4 Outside in tibial targeting



Position the tibial pin using the universal pin guide with tibial insert

## 7 Retrograde reaming of sockets

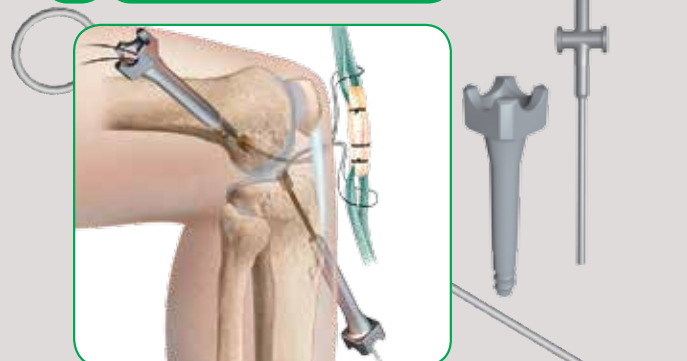


Ream a femoral socket 10 mm long and a tibial socket 15mm long. Diameters are determined by measuring the graft

*CoLS<sup>®</sup> retrograde reamers*

*- ref 254 537 or 253 165 or 251 830 or 250 102 or 250 101 or 251 831*

## 8 Passing the threads

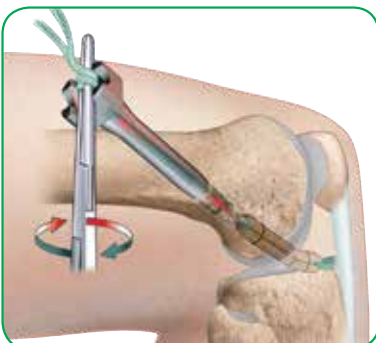


Pass the threads from the outside in and are retrieved via the antero-medial portal

*CoLS<sup>®</sup> long cannula - ref 264 933 / CoLS<sup>®</sup> suture passer - ref 256 010 /*

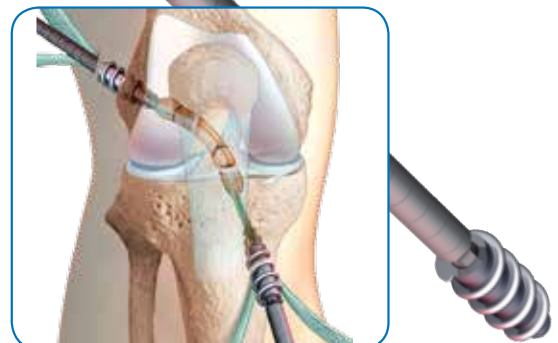
*CoLS<sup>®</sup> long cannula driver - ref 264 934*

## 11 Graft Fixation and Final Tensioning



Final press fit and tensioning of the graft is done with the "Sardine Key" technique

## 12 Tape Fixation



Fixate the tapes using a femoral and tibial screw

*CoLS<sup>®</sup> screwdriver - ref 254 599*

## CoLS® INSTRUMENTATION V5

	references
CoLS® Container V5	264935
CoLS® upper tray V5	264938
CoLS® Open Tendon Stripper	265664
CoLS® Bone Tap	250105
CoLS® sizer 6-11	265643
CoLS® retrograde reamer D6	254537
CoLS® retrograde reamer D7	253165
CoLS® retrograde reamer D8	251830
CoLS® retrograde reamer D9	250102
CoLS® retrograde reamer D10	250101
CoLS® retrograde reamer D11	251831
CoLS® long cannula	264933
CoLS® long cannula driver	264934
CoLS® suture passer	256010
CoLS® Classic 3,5mm screwdriver cannula 1,8mm	254599
CoLS® PEEK 3,5mm screwdriver cannula 1,8mm	263783
Slap Hammer for PEEK Screwdriver	266864
CoLS® Tape cutter	264932
Tendon hook	265642

## CoLS® WORKSTATION V2

	references
CoLS® brass nut assembly	256 011
CoLS® u-handle lever assembly	256 012
CoLS® workstation	256 013
CoLS® chopping block	256 217

## UNIVERSAL GUIDE V5

	references
Angulated awl	265641
CoLS® ACL femoral point to point guide V2	265072
CoLS® ACL tibial point to point guide V2	264927
CoLS® universal guide handle	264930
CoLS® universal guide drilling sleeve	264939

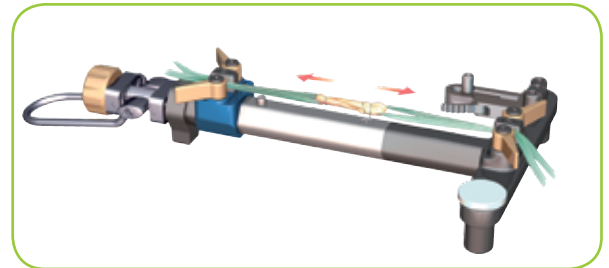
## CoLS® TENDON FIXATION SYSTEMS

	references
CoLS® Ti screw dia 10 mm. lg 20 mm	266 136
CoLS® Ti screw dia 10 mm. lg 25 mm	266 137
CoLS® Ti screw dia 12 mm. lg 20 mm	266 138
CoLS® PEEK® screw dia 10 mm. lg 20 mm	266 139
CoLS® PEEK® screw dia 10 mm. lg 25 mm	266 140
CoLS® tendon anchoring tape	266 141

## references

CoLS® is under permanent evaluation by the members of the GRAAL Group of GECCO, a study group for ligament knee surgery. ([www.gecco-medical.org](http://www.gecco-medical.org))

## GECCO



CoLS® workstation



Universal guide assembly



CoLS® titanium screw



CoLS® tendon anchoring tape



CoLS® PEEK® screw

## CoLS® disposable non sterile instruments

	references
CoLS 2.4mm guide pin Lg 230mm Soft/drill	257380
CoLS 2.4mm guide pin Lg 250mm Soft/drill	264586
CoLS 4.5mm drill	251262
CoLS 1.8mm screw pin Lg 220mm	255970
CoLS Tape cutter razor blade	265597

[www.FHortho.com](http://www.FHortho.com)