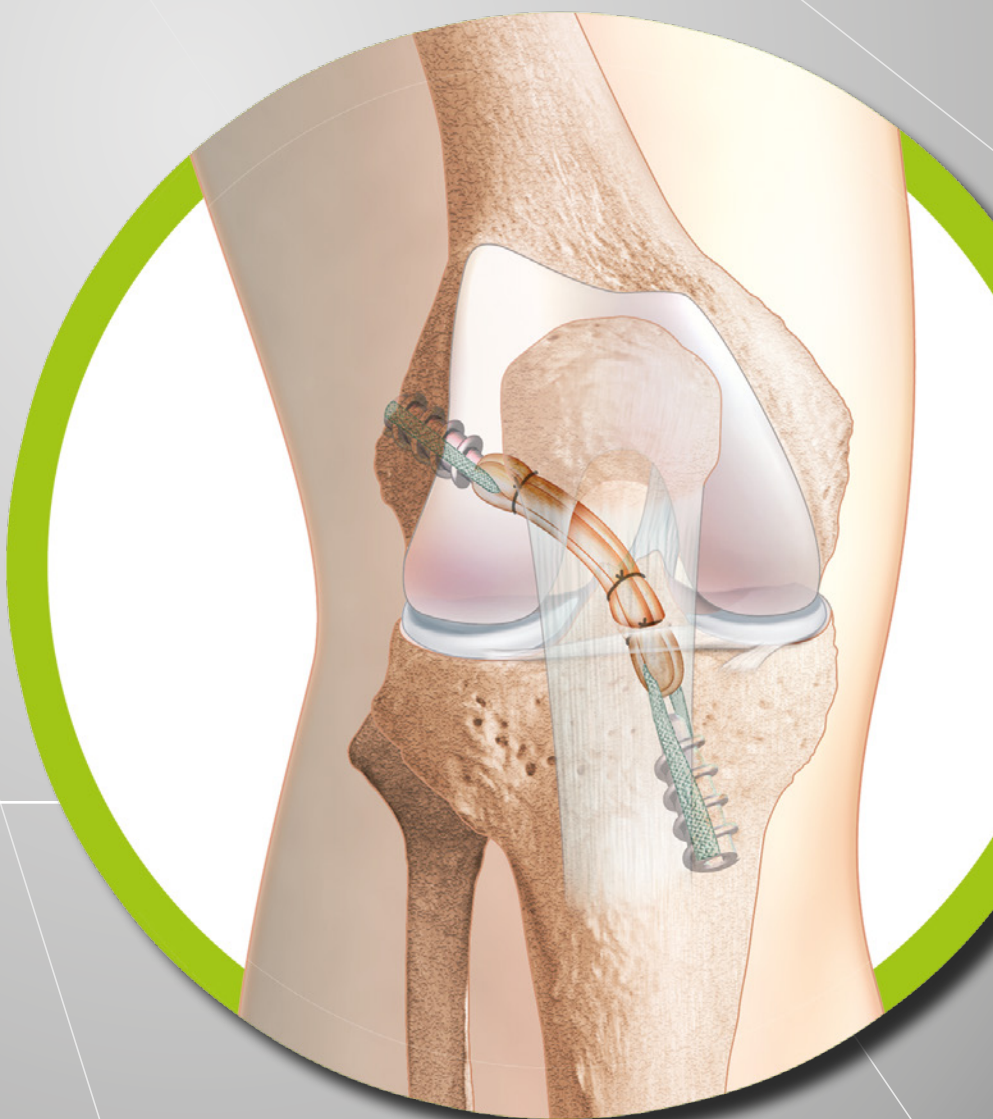


TLS[®]

Tape Locking Screw

*THE PROVEN SOLUTION
FOR THE SHORT GRAFTS*

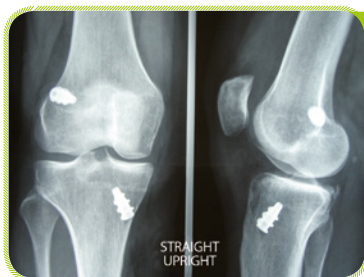


PRINCIPLES OF THE TLS[®] SYSTEM

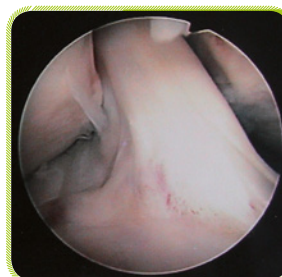
- >> Single HS (semitendinosus) tendon harvested
- >> Graft quadrupled = strongest construct
- >> No wasted tendon in bone tunnels
- >> Graft suspended by non-elastic tapes
- >> Tapes secured in bone by screws
- >> Graft pretensioned to reduce post implantation tension loss

BENEFITS OF THE TLS[®] SYSTEM

- >> Outside-in femoral targeting (tibial tunnel independent) for improved coronal plane positioning
- >> Short bone sockets, atraumatically retroreamed
- >> Graft passed through medial portal and press-fit into sockets with 360° contact with bone
- >> Apperture fixation by press-fit
- >> No screw, or fixation device directly contacts tendon or is placed in tunnel with graft

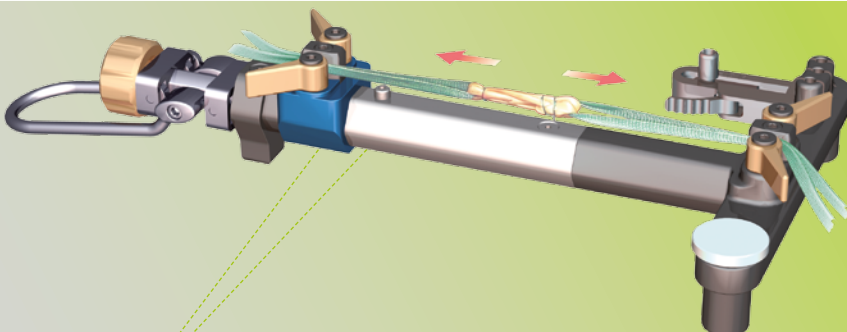


TLS[®] at 3 years

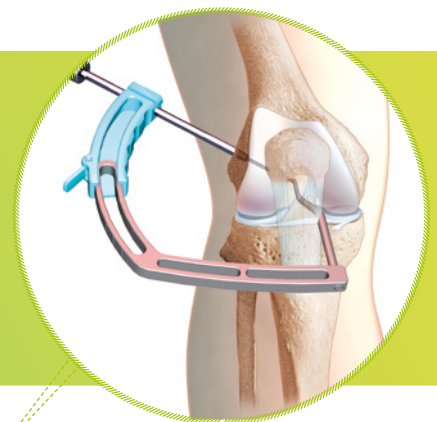


Arthroscopic view of a graft at 6 months

REPRODUCIBLE TECHNIQUE



>> Graft pre-tension at 300 N

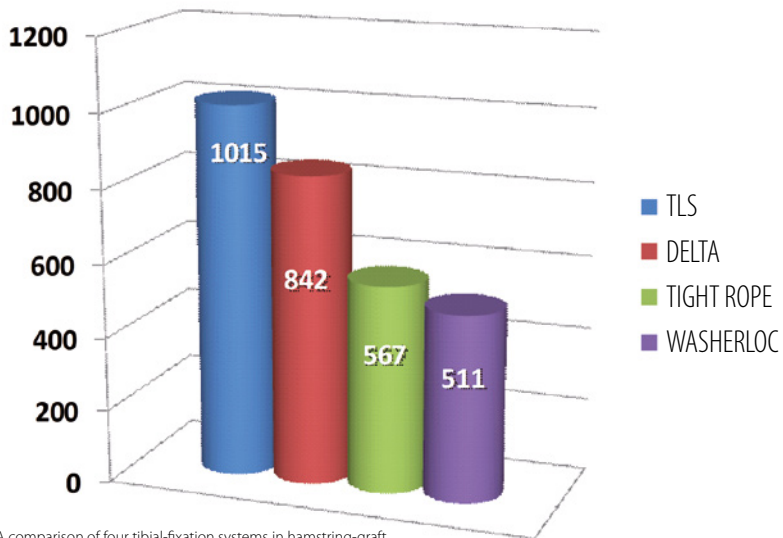


>> Outside-in femoral aiming



PROVEN RESULTS

Maximum pullout strength - tibial fixation



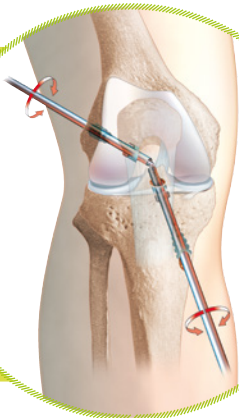
A comparison of four tibial-fixation systems in hamstring-graft anterior ligament reconstruction / Eur J Orthop Surg Traumatol DOI 10.1007/s00590-014-1473-5



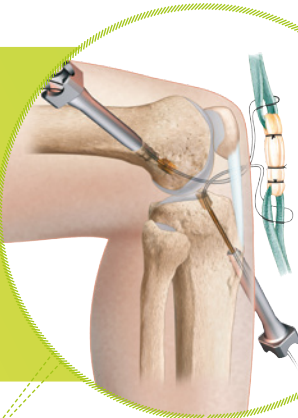
Comparative studies have shown the superior resistance strength of the TLS[®] fixation, which is almost equal to the native ACL resistance strength.

Harvesting only the semitendinosus tendon and pretensioning the graft up to 300 Newtons, the TLS[®] is designed to minimize post-implantation laxity,

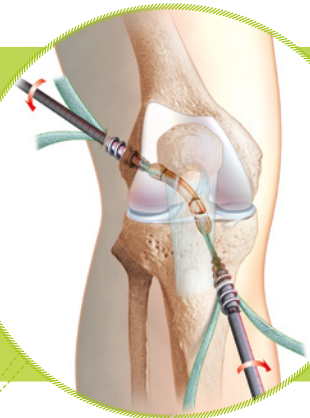
eliminate tissue waste, and allow the patient to begin to restore mobility and range of motion, with no splint or brace, within 24 hours.



>> Creation of short femoral and tibial recesses to preserve bone stock



>> Graft positioned using "all inside" technique



>> Inserting screws

AN INNOVATIVE TECHNIQUE FOR:

>> ACL single and double bundle reconstruction

>> Partial ACL repairs (AM or PM bundle)

>> PCL single and "V" reconstruction

>> Paediatric reconstruction

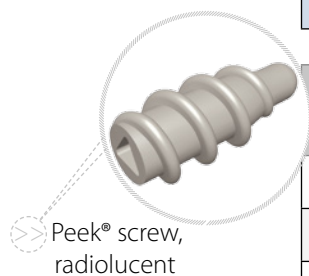
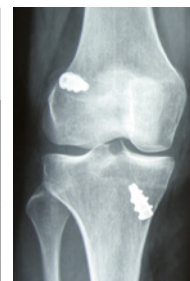
TLS[®] IMPLANTS

The TLS[®] fixation systems include a tape and a fixation screw.

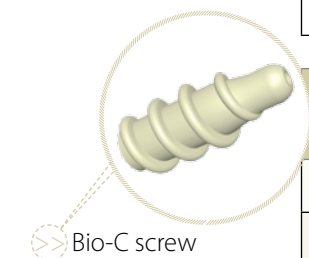
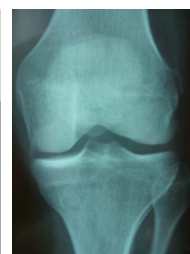
IMPLANT LIST



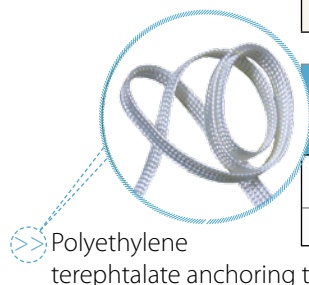
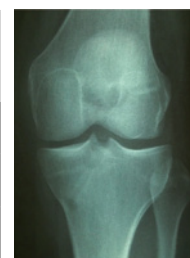
TITANIUM SCREW	PRODUCT REFERENCE
TLS [®] TENDON ANCHORING SCREW Ø 10mm LG 20mm	253 569
TLS [®] TENDON ANCHORING SCREW Ø 10mm LG 25mm	248 853
TLS [®] TENDON ANCHORING SCREW Ø 12mm LG 20mm	264 274
SCREWDRIVER FOR TLS [®] TITANIUM	254 599



PEEK SCREW	PRODUCT REFERENCE
TLS [®] TENDON ANCHORING SCREW PEEK Ø 10mm LG 20mm	263 653
TLS [®] TENDON ANCHORING SCREW PEEK Ø 10mm LG 25mm	263 654
SCREWDRIVER FOR TLS [®] PEEK	263 783



BIO C SCREW	PRODUCT REFERENCE
TLS [®] TENDON ANCHORING SCREW BIO-C Ø 10mm LG 20mm	264 648
TLS [®] TENDON ANCHORING SCREW BIO-C Ø 10mm LG 25mm	264 649
SCREWDRIVER FOR TLS [®] BIO-C	264 650
GUIDE PIN FOR TLS [®] BIO-C SCREW Ø 1,2	264 651



ANCHORING STRIP	PRODUCT REFERENCE
TLS [®] TENDON ANCHORING TAPE (x2)	265 746
TLS [®] TENDON ANCHORING TAPE (x1) - OPTION	256 193