LINK®

LinkSymphoKnee

CCK

Surgical Technique

CE 0482

Explanation of Pictograms			
	Manufacturer	REF	Article number
MAT	Material (number)	CE	Product meets the applicable requirements, which are regulated in the EU harmonization legislation for the affixing of the CE marking.

Contents

LINK®

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NOTE: To assist the reader of this Surgical Technique, the LinkSymphoKnee instruments used in the illustrated surgical steps are shown again at the bottom of each page (from 08 to 58).
Take care to select the correct size of the instruments according to the individual surgical case.

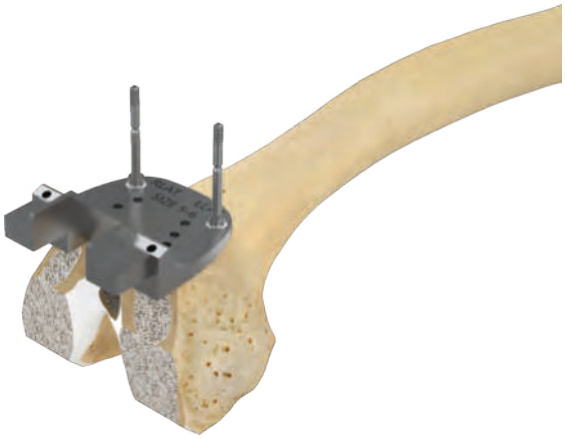
LinkSymphoKnee

CCK

Preoperative
Planning
(Approach)

Tibial Reaming,
IM Tibial Alignment and Resection

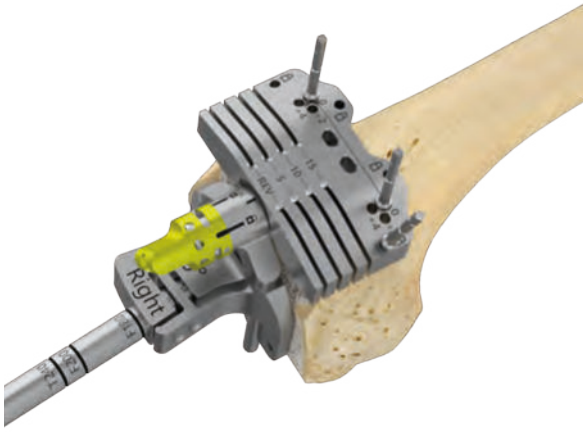
Tibial Preparation



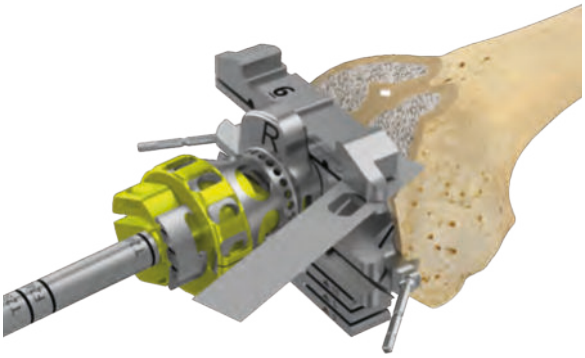
CCK Femoral Box Preparation

Trial Reduction

Overview – Workflow of Surgical Steps



Femoral Reaming and
Distal Femoral Resection



A/P Femoral
Resection and Chamfer Cuts

Final Tibial Preparation

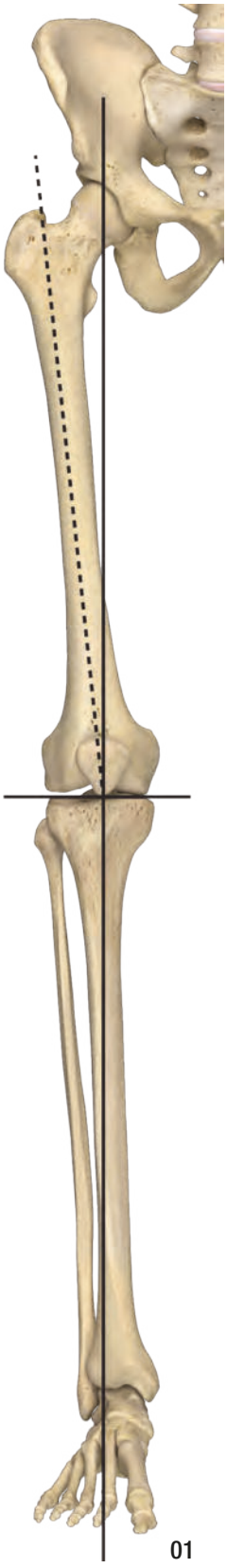
Final Implantation

Preoperative Planning

The anatomic landmarks in the knee joint are defined preoperatively by imaging the whole leg on the healthy and the affected side in the standing position. The angle between the anatomic axis (center of knee joint – intramedullary canal) and the mechanical axis (center of femoral head – center of knee joint – center of ankle to the second toe) determines the valgus angle (**01**).

These angles should be determined for both knees. The valgus angle of a healthy knee joint is approximately 5°-7°. The appropriate implant size can be estimated preoperatively with X-ray templates. The necessary resections are determined by the size of the implant and the deformity corrections required.

ATTENTION: The LinkSymphoKnee CCK has an inbuilt 6° valgus angle in the femoral stem.



01

Approaches

With the knee in slight flexion, a straight incision is made over the patella, as far as the tibial tuberosity (**02**). A medial parapatellar incision is made through the patellar retinaculum, capsule and synovial membrane (**03**). When making the parapatellar incision, the patella is pushed to one side to visualize the patellofemoral joint. Removal of the hypertrophic synovial membrane and parts of the fat pad allow access to the medial, lateral and intracondylar parts of the joint. Excess synovium should be removed in order to avoid postoperative impingement and adhesions. Some surgeons prefer total synovectomy.

02

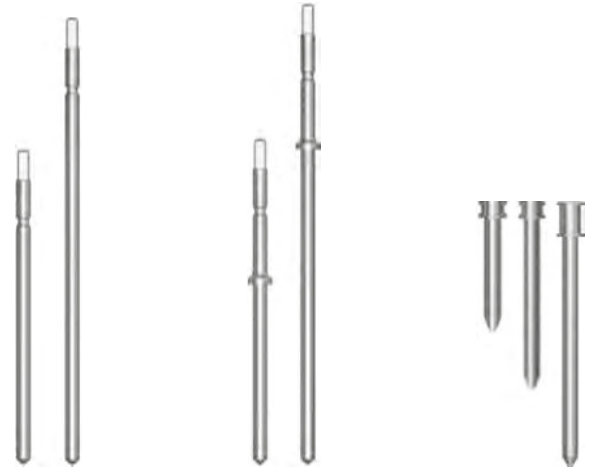
03

Component Removal

When removing the components to be revised, great care must be taken to preserve as much of the remaining bone stock as possible and to avoid the risk of fracture of the residual bone.
Bone preservation can usually be achieved through the use of small flexible osteotomes, saws and high-speed burring instruments.

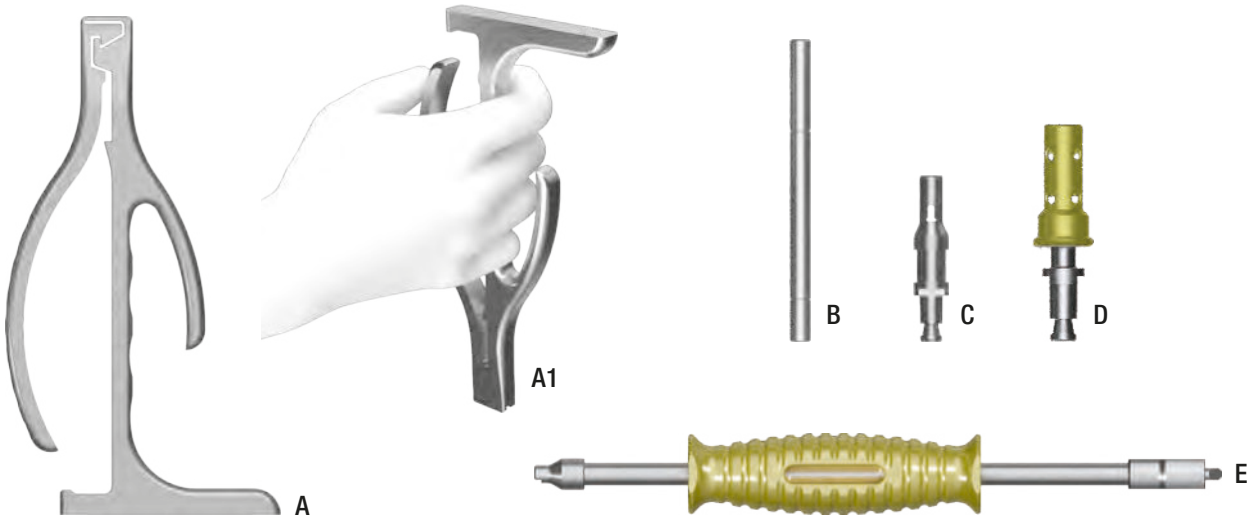
Pins, Pin Instruments and Sawblades

The *LinkSymphoKnee* Instruments are designed to be used with:



Drill Pins | Headed Drill Pins | Bone Nails

The Drill Pins, Headed Drill Pins and Bone Nails may be hammered in using the Universal Pin Inserter/Extractor (**A**) or the Universal Pin Inserter (**B**). The Drill Pins, Headed Drill Pins and Bone Nails may be pulled out using the Universal Pin Inserter/Extractor (**A**), the Drill Pins and Headed Drill Pins are also designed to be drilled in and removed using the Power Driver (**C**) or the Power Driver with Snap Lock (**D**). The Bone Nail may be pulled out using the Universal Pin Inserter/Extractor (**A**) or the Slaphammer (**E**).



Use the Universal Pin Inserter/Extractor (**A**) as shown in the picture (**A1**).

OPTIONAL:
The *LinkSymphoKnee* Instruments are designed to be used also with Thread Pins*, headed or not headed.

ATTENTION: The Thread Pins* are designed to be drilled in and removed using the Power Driver (**C**) or the Power Driver with Snap Lock (**D**) only.

* only upon request

The *LinkSymphoKnee* Instruments are designed for use with Sawblades **up to a max. thickness of 1.27 mm** (page 101).

Compatibility	 Drill Pins	 Headed Drill Pins	 Bone Nails	 Thread Pins*	 Headed Thread Pins*
 Universal Pin Inserter/Extractor	✓	✓	✓		
 Universal Pin Inserter	✓	✓	✓		
 Power Driver	✓	✓		✓	✓
 Power Driver with Snap Lock	✓	✓		✓	✓
 Slaphammer			✓		

*only upon request

Reamers

Cylindrical Reamers:
The Cylindrical Reamers are available in diameters: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22 mm. Different markings on the Reamers show the depths for different stems.
ATTENTION: There are different markings for femur (**F**) and tibia (**T**).

ATTENTION: The Cylindrical Reamers can be used only with the Cylindrical Cementless Stems, Cylindrical Press-Fit Stems and Conical Cemented Stems.

Conical Reamers:

The Conical Reamers are available in the following sizes:

- Length: 128 mm, with diameter: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 mm
- Length: 158 mm, with diameter: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 mm
- Length: 188 mm, with diameter: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 mm

ATTENTION: The markings **F** and **T** show the depth of the stem on the Femoral side and Tibial side respectively.

ATTENTION: The Conical Reamers can be used only with the Conical Cementless Stems.

ATTENTION: When using the Cementless Modular Stems, ream with increasing diameters until the Reamer has achieved contact with the cortical bone over a continuous distance of approx. 50 mm. The Implant must correspond with the last Reamer used in terms of diameter and length.

Ball Reamers:

The Ball Reamers are available in the diameters:
10, 12, 14, 16, 18, 20, 22, 24, 26 mm

ATTENTION: The Ball Reamers can be used only with the Conical Cemented Stems.

ATTENTION: In the case of Conical Cemented Stems, the Reamer should be at least 2 mm larger than the planned stem diameter.

Trial Stems

Cylindrical Trial Stems, cementless:

ATTENTION: Must be used for the cementless Cylindrical Stems and Cylindrical Press-Fit Stems only.

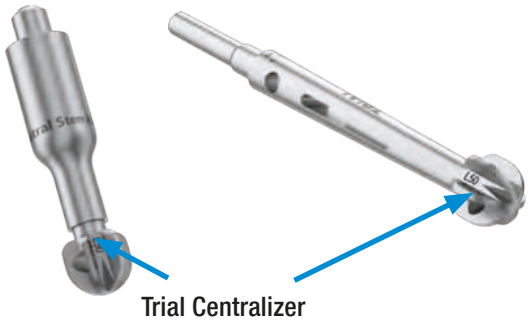
Conical Trial Stems, cementless:

ATTENTION: Must be used for the cementless Conical Stems only.

Conical Trial Stems, cemented:

ATTENTION: Must be used for the cemented Conical Stems only.

When using Cemented Conical Stems, a Centralizer must be used. The Centralizers are available in diameter: 12, 14, 16, 18, 20, 22, 24 mm.



Every Trial Stem has a hole for inserting a screwdriver (AF 2.5) to loosen the Trial Stem when the connection is too tight (**04-05**).

04

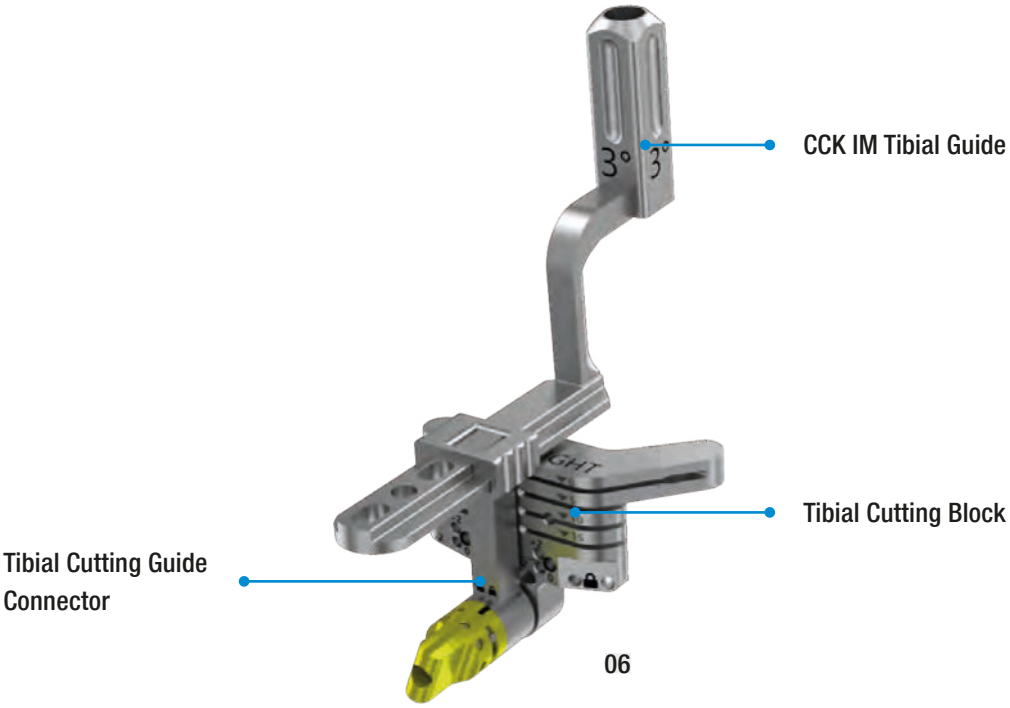
05

ATTENTION: The Trial Stems for the 50 mm Cemented Conical Stems feature an in-built Trial Centralizer.

Tibial Preparation

Intramedullary Tibial Guide Assembly

Assemble the appropriate Tibial Cutting Block to the CCK IM Tibial Guide and lock it by twisting the knob of the IM Tibial Guide clockwise until it clicks in the "lock position" (**06**).



06

*Link*SymphoKnee CCK Instrument Set includes the following Tibial Cutting Blocks:

left right

Instruments

881-059/00
CCK IM Tibial Guide 3°

151-202/00
Tibial Cutting Guide Connector

151-204/00
Tibial Cutting Block, right

Intramedullary Tibial Guide Alignment
Open the tibial canal using the Step Drill (**07**).

ATTENTION: In case of primary CCK, the entry point for opening the tibia can be marked with the electrocautery, for example. It is usually located at the point of attachment of the anterior cruciate ligament.

NOTE: Surgical procedures for TrabecuLink Femoral and Tibial Cones are described in the implant-specific surgical technique.

Assemble the Reamer with the T-handle (**08**).
Slowly introduce the Reamer into the canal to prevent building up pressure.
Use the Reamer until it achieves a good stability in the tibial canal.
Slide the CCK IM Tibial Guide assembly onto the Reamer (**09**).

ATTENTION: After reaming, it is possible to use the Trial Stem Rod Intramedullary assembled to the previously selected Trial Stem. This trial construct can be used, instead of the Reamer, as a guide for all other instruments (**09a**).
Insert the construct into the bone until reaching the tibial marking (**09b**).
The Trial Stem Rod Intramedullary must be used when it is planned to implant a stem shorter than or equal to 95 mm.


07


08


09


09a


09b

Instruments


881-059/00
CCK IM Tibial Guide 3°


151-202/00
Tibial Cutting Guide Connector


151-204/00
Tibial Cutting Block, right


15-6053/00
T-handle


319-505-00B
Step Drill

881-056/00
Trial Stem Rod Intramedullary


881-069/16
Reamer, cementless cylindrical, Ø 16 mm


151-716/16
Trial Stem, cementless, cylindrical, Ø 16 mm

OPTIONAL: To assess tibial alignment, insert the Alignment Rod into the IM-Tibial Guide. Rotation and alignment may be checked by ensuring that the Alignment Rod remains parallel with the tibial axis (**10**).

10

Instruments

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

151-202/00
Tibial Cutting Guide Connector

445-113/20
Alignment Rod, long

151-204/00
Tibial Cutting Block, right

881-059/00
CCK IM Tibial Guide 3°

Insert the foot of the Adjustable Stylus into the slot of the Tibial Cutting Block and adjust it to the appropriate level (**11**).

11

The scale on the body of the Adjustable Stylus indicates the quantity of bone and residual cartilage to be resected.

ATTENTION: *LinkSymphoKnee* CCK Total Knee System has a minimum tibial component thickness of 10 mm (Tibial baseplate + PE-articulating surface). Take care to restore the joint line.

Set the Adjustable Stylus according to the patient's anatomy, to avoid excessive tibial resection. After the tibial resection level has been set, pin the Tibial Cutting Block through the anterior parallel "**0**" holes, using two Drill Pins (**12**).

12

Disconnect and remove the IM Tibial Guide and the Reamer. The resection level may be adjusted by using the distal or proximal pin holes, which move the block 2 mm more proximal or 2 mm more distal. If desired, the Tibial Cutting Block can be fixed with an additional Headed Drill Pin placed through the distal angled hole.

Confirm the tibial resection level using Cutting Template introduced as a free saw blade into the Tibial Cutting Block.

Instruments

445-124/65
Drill Pin

445-125/35
Headed Drill Pin

881-059/00
CCK IM Tibial Guide 3°

151-202/00
Tibial Cutting Guide Connector

151-204/00
Tibial Cutting Block, right

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

445-111/00
Adjustable Stylus

Tibial Resection

Resect the tibia using an oscillating saw and a sawblade max. 1.27 mm thick (**13**).

13

14

OPTIONAL: It is possible to add the Quick Connect Handle to the Tibial Cutting Block to check the rotation again (**14**).

In case of bone loss, use the 5, 10 or 15 mm cutting slot to prepare the bone for Tibial Augments.

ATTENTION: When using only an augment on one side (medial or lateral), use the slot in the middle to perform the sagittal resection (**15**).

15

ATTENTION: When using an Offset Stem, prepare the bone for the Tibial Augment in a later stage of the surgical procedure, after setting the offset position and magnitude.

Remove the Tibial Cutting Block and Pins.

Instruments

151-204/00
Tibial Cutting Block, right

445-124/65
Drill Pin

445-125/35
Headed Drill Pin

445-112/00
Handle, quick connect

445-113/10
Alignment Rod, short

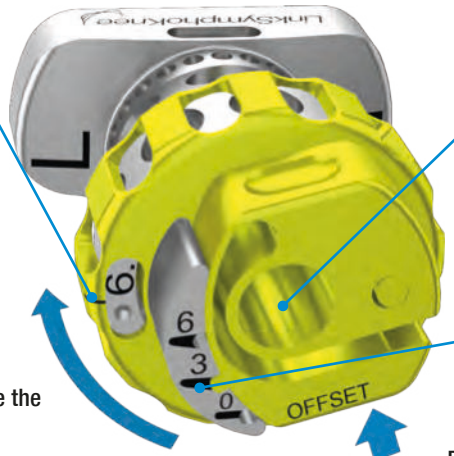
Tibial Preparation

Slowly reposition the Reamer into the tibial canal. Place the Tibial Preparation Plate CCK onto the tibia over the Reamer. Assess the tibial size to achieve maximal coverage of the resected surface (**16**).

16

Slide the Offset Selector CCK (**17**) over the Reamer and assemble it to the Tibial Preparation Plate CCK (**18**).

Offset Selector CCK:



17

ATTENTION: There is only one way to assemble the Offset Selector onto the Tibial Preparation Plate CCK.

18

Instruments

881-099/00
Offset Selector CCK

881-285/60
Tibial Preparation Plate CCK, Size 6

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

Set the appropriate offset magnitude and the position.

Check the rotational alignment by inserting the Alignment Rod into the handle of the Tibial Preparation Plate CCK (**19**).

19

Fix the Tibial Preparation Plate CCK with 2 Drill Pins (**20**).

20

Record the magnitude and the position of the offset from the Offset Selector CCK.

Instruments

881-099/00
Offset Selector CCK

881-285/60
Tibial Preparation Plate CCK, Size 6

445-113/20
Alignment Rod, long

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

445-124/65
Drill Pin

Tibial Augment Preparation

In case of bone loss, Tibial Trial Augments are available corresponding to each final tibial augment size and side.

For preparing the tibial bone, slide the Tibial Cutting Block with the CCK Tibial Cutting Guide Connector onto the CCK Tibial Preparation Plate. Remove the Reamer and CCK Offset Selector (**21**).

Use the medial or lateral (or both) cutting slot at 5, 10 or 15 mm to resect the tibia for the selected augment (height 5, 10, 15 mm).

21

ATTENTION: When using only half augment (medial or lateral), use the slot in the middle to perform the sagittal resection (**22**).

22

23

Assemble the appropriate Trial Augment under Tibial Preparation Plate (**23**).

Instruments

151-202/00
Tibial Cutting Guide Connector

445-124/65
Drill Pin

445-125/35
Headed Drill Pin

881-335/11
Tibial Trial Augment, Medial-Right/ Lateral-Left, Size 5-6, H = 5mm

151-204/00
Tibial Cutting Block, right

881-285/60
Tibial Preparation Plate CCK, Size 6

Tibial Male Taper Connection Preparation

Attach the Tibial Reamer Guide CCK onto the Tibial Preparation Template (**24**).

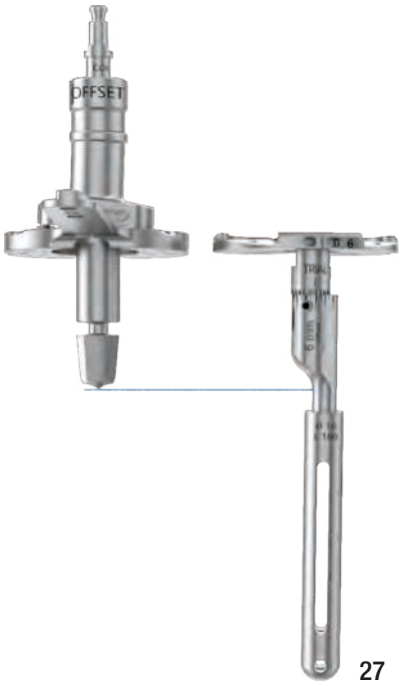
24

Use the Tapered Reamer CCK until it stops onto the Tibial Reamer Guide CCK (**25**).

25

ATTENTION: When using an Offset Stem, assemble the Offset Reamer Stopper to the Tapered Reamer CCK (**26** & **27**).

26



27

ATTENTION: This step of the surgical technique can only be skipped when using straight stems with a diameter bigger than 16 mm.

Instruments

881-285/60
Tibial Preparation Plate CCK, Size 6

881-065/09
Reamer Stopper, offset

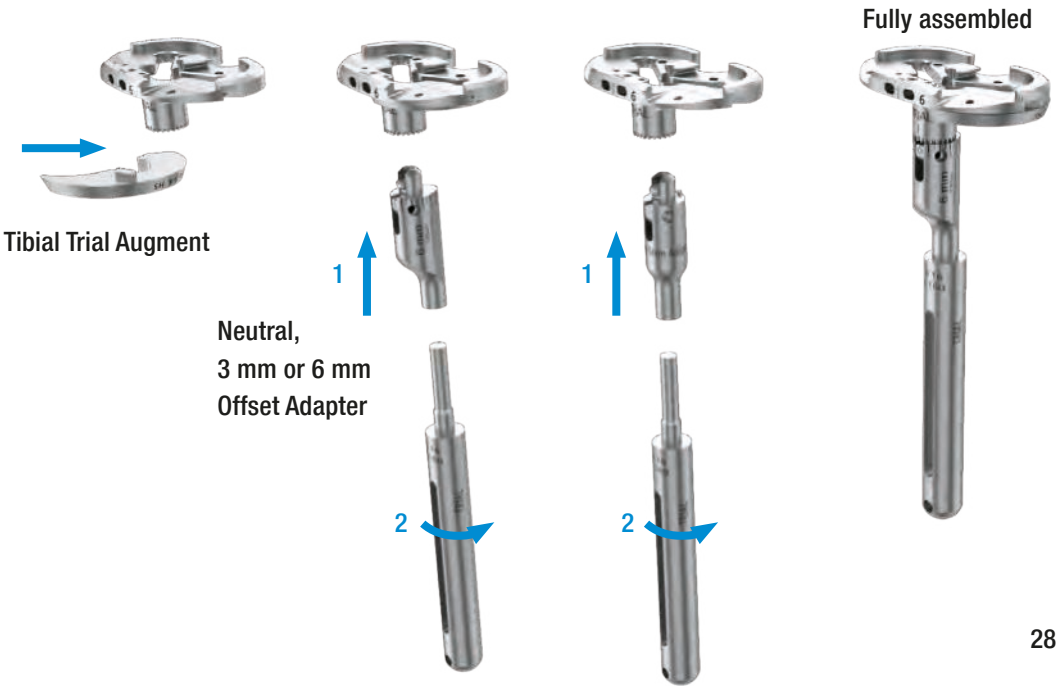
881-065/00
Tibial Reamer Guide, CCK

881-067/17
Tapered Reamer, CCK

445-124/65
Drill Pin

Tibial Trial Component Assembly

In case of bone loss, add the previously selected Tibial Trial Augment to the Tibial Trial Component CCK (**28**).

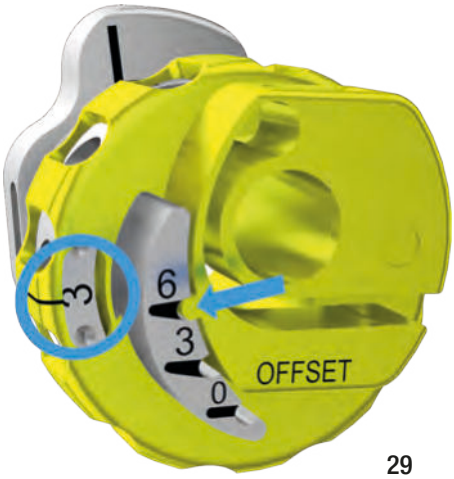


28

Trial Stem assembly sequence: Tibial Trial Component CCK **+ (1) Adapter + (2) Trial Stem** (28)

ATTENTION: When using an Offset Stem, select the 3 mm or the 6 mm Offset Adapter according to the Offset magnitude previously selected.

For the correct offset position refer to the setting on the CCK Offset Selector (**29**).



29

Instruments

881-099/00
Offset Selector CCK

881-258/60
Tibial Trial Component, CCK, Size 6

151-806/06
6 mm Offset Adapter

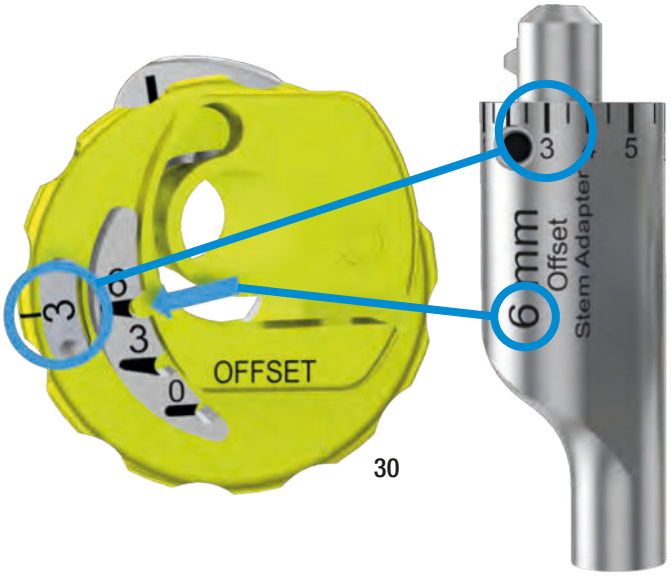
151-501/00
Neutral Stem Adapter

151-716/16
Trial Stem, cementless, cylindrical, Ø 16 mm

881-335/11
Tibial Trial Augment, Medial-Right/ Lateral-Left, Size 5-6, H = 5mm

The Offset Adapters for the 3 mm and 6 mm offset feature the same markings as on the CCK Offset Selector (**30** & **31**).

Marking on the CCK Offset Selector for the offset position.



30 31

Marking on the Offset Adapter for the offset position.

On the ventral/anterior side of the CCK Tibial Trial Component there is a marking that shows the correct reference position for the Trial Offset Adapter (**30** & **31a**).

31a

Instruments

881-099/00
Offset Selector CCK

151-806/06
6 mm Offset Adapter

881-258/60
Tibial Trial Component,
CCK, Size 6

Once the Trial Stem is assembled, the entire construct is locked and the offset position will not change.

ATTENTION: The length of the assembly (Trial Stem Adapter + Trial Stem) is equal to the length of the final stem implant (**32**).


32

ATTENTION: In case of Cemented Stems, assemble a Trial Centralizer (**33**) to the Trial Stem.

Open the handle of the Tibial Inserter and attach it to the Tibial Trial Component.

Use the Tibial Inserter to slowly introduce the Tibial Trial Component into the tibial bone (**34**).

33


34

35

It is possible to secure the rotation of the Tibial Trial Component using two Bone Nails (L = 25 mm or L = 35 mm) (**35**).

Instruments


881-258/60
Tibial Trial Component, CCK, Size 6


445-128/35
Bone Nail


151-806/06
6 mm Offset Adapter

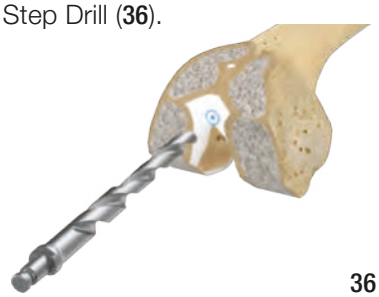

151-106/16
Trial Centralizer, 16 mm


881-042/00
Tibial Inserter


151-716/16
Trial Stem, cementless, cylindrical, Ø 16 mm

Femoral Preparation

For femoral preparation, the knee is flexed to 90°. The entry point for opening the femur can be marked with the electrocautery, for example. It is usually located approx. 3-5 mm medially above the intercondylar fossa. The medullary canal is opened with the Step Drill (**36**).



36

Femoral Sizing

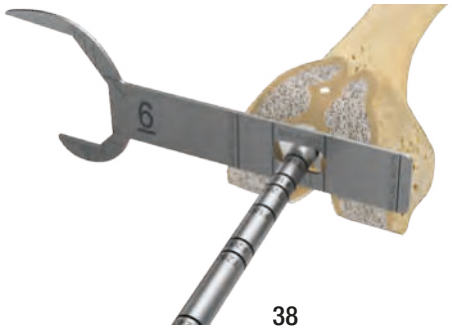
The CCK Femoral Sizer Template may be placed over the femur to assess the A/P and M/L size and position (**37**).

NOTE: Surgical procedures for TrabecuLink Femoral and Tibial Cones are described in the implant-specific surgical technique.

37

Use the Reamer until it achieves a good stability into the femoral canal. Slowly introduce it into the canal to prevent building up pressure.

Slide the handle of the CCK Femoral Sizer Template over the Reamer and assess the M/L femoral size (**38**). The vertical markings on the template handle represent the M/L width of the femoral component.



38

38a

38b

ATTENTION: After reaming, it is possible to use the Trial Stem Rod Intramedullary assembled to the previously selected Trial Stem. This trial construct can be used, instead of the Reamer, as a guide for all other instruments (**38a**).

Insert the construct into the bone until reaching the femoral marking (**38b**).

The Trial Stem Rod Intramedullary must be used when it is planned to implant stems lengths shorter than or equal to 95 mm.

Instruments

881-069/16
Reamer, cementless
cylindrical, Ø 16 mm

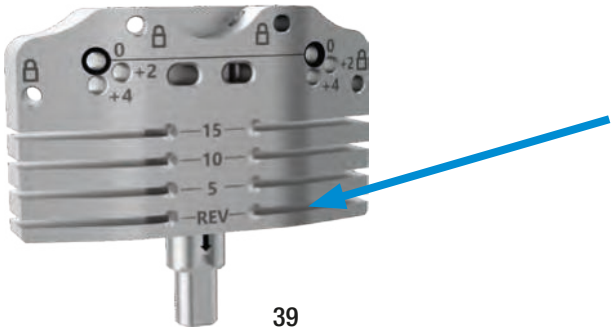
881-056/00
Trial Stem Rod
Intramedullary

151-716/16
Trial Stem, cementless,
cylindrical, Ø 16 mm

881-105/60
Femoral Sizer Template CCK,
Size 6

Femoral Alignment Guide Assembly

In order to lock the CCK Distal Femoral Cutting Block (**39**), twist the knob of the Femoral Alignment Guide, Varus/Valgus Adjustment 6° clockwise until it clicks in the "lock position" (**40**).



39

CCK Femoral Distal Cutting Block

The first cutting slot allows for a clean up cut of 2 mm.

40

ATTENTION: Ensure that the correct Femoral Alignment Guide, Varus/Valgus Adjustment 6° has been selected. The "Right" one or the "Left" one is selected according to the operated leg.

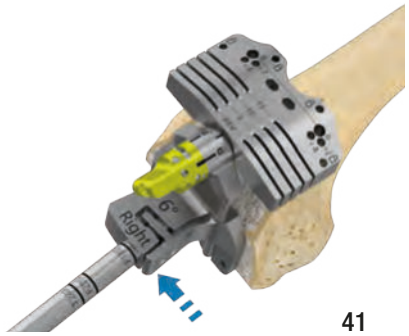
Instruments

881-159/00
Femoral Cutting Block, CCK, Distal Cut

881-050/06
Femoral Alignment Guide, Varus/Valgus Adjustment 6°, right

Femoral Alignment Guide Positioning

Slide the CCK Femoral Alignment Guide over the Reamer.



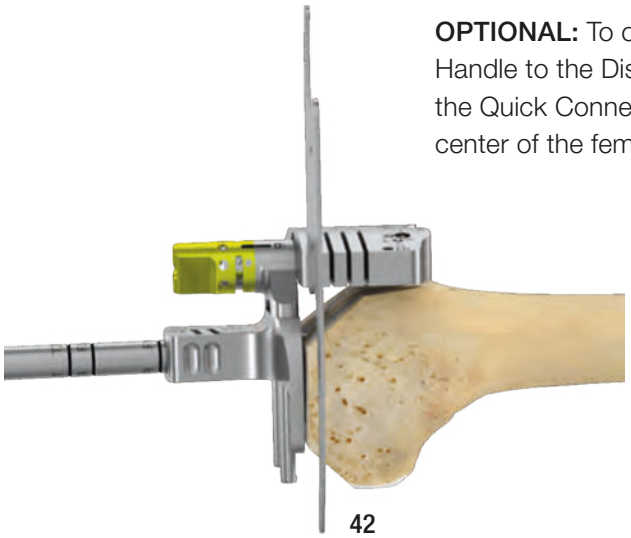
41

ATTENTION: To slide the Alignment Guide onto the Reamer, press the spring on the side of the CCK Femoral Alignment Guide (**41**).

ATTENTION: Joint line/patella height corrections noted preoperatively should be assessed for any proximal/distal (augment/resection) adjustments.

Note any augment variations for use on the femoral CCK 4-in-1 Cutting Block and Femoral Trial (**42**).

OPTIONAL: To confirm the valgus angle, attach the Quick Connect Handle to the Distal Cutting Block and then insert the Alignment Rod into the Quick Connect Handle. Extend the Alignment Rod assembly to the center of the femoral head (**43**).



42

43

Instruments

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

317-802/53
Cutting Template

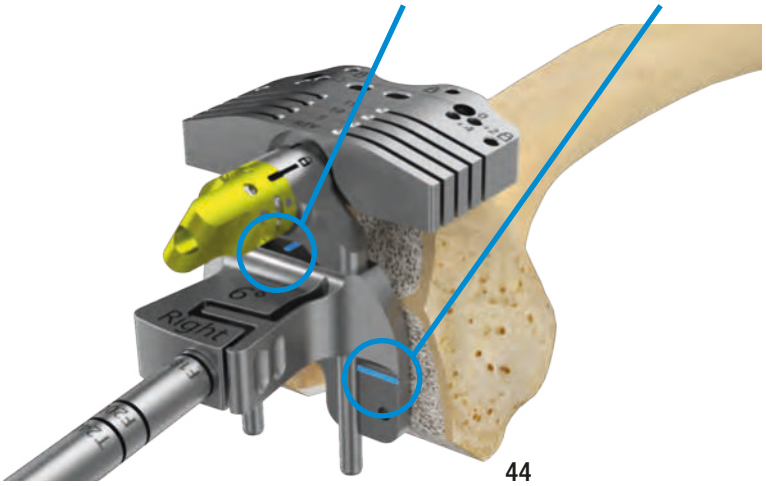
881-050/06
Femoral Alignment Guide, CCK, Varus/Valgus Adjustment 6°, right

Alignment Rods: 445-113/10 short, 445-113/20 long

445-112/00
Handle, quick connect

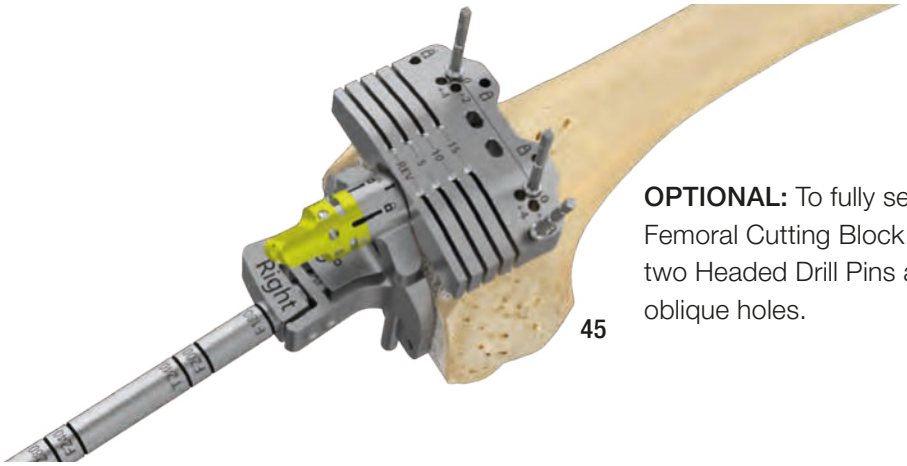
881-159/00
Femoral Cutting Block, CCK, Distal Cut

The rotation can be checked with markings for the Whiteside line and the epicondylar line (**44**).



44

For a stable resection of the distal cut, the Reamer and the CCK Femoral Alignment Guide may be left in situ. To secure the CCK Distal Femoral Cutting Block to the femur, two Drill Pins are inserted into the "0" pin holes (**45**).



45

OPTIONAL: To fully secure the CCK Femoral Cutting Block to the femur, two Headed Drill Pins are inserted into oblique holes.

Instruments

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

881-159/00
Femoral Cutting Block, CCK, Distal Cut

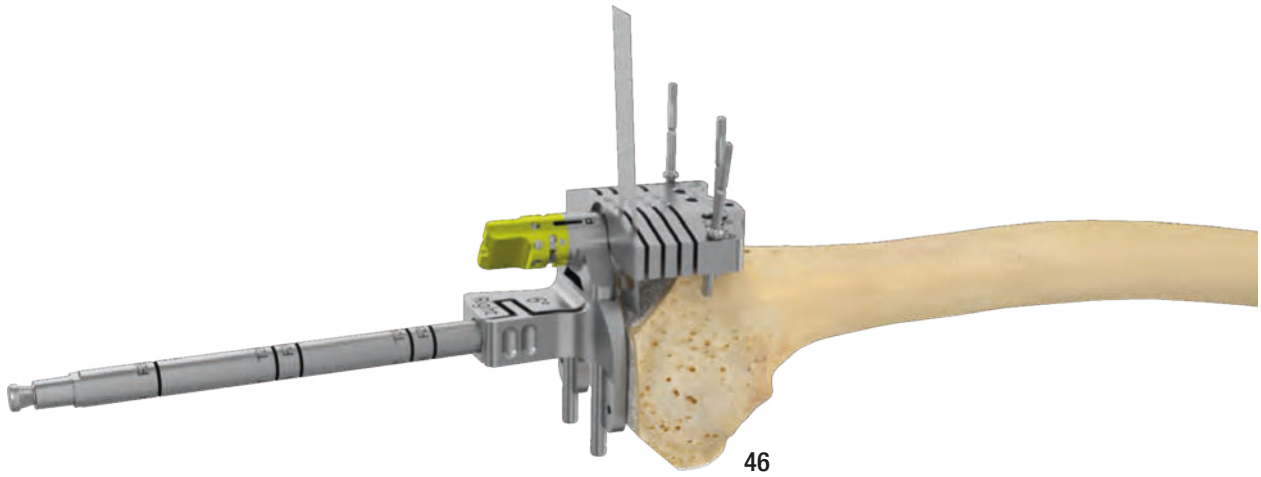
881-050/06
Femoral Alignment Guide, CCK, Varus/Valgus Adjustment 6°, right

445-124/65
Drill Pin

445-125/35
Headed Drill Pin

Distal Femoral Resection

The Cutting Template can be used to check the level of the distal resection. Use an oscillating saw (max. 1.27 mm thick) through the cut slot to resect the distal femur (**46**).



46

Remove the Pins, the Cutting Block and the CCK Femoral Alignment Guide, leaving the Reamer in situ.

If it is necessary to re-cut the distal femur, reposition the CCK Femoral Cutting Block onto the +2 or +4 holes for a +2 mm re-cut or a +4 mm re-cut respectively.

Instruments

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

881-159/00
Femoral Cutting Block, CCK, Distal Cut

881-050/06
Femoral Alignment Guide, CCK, Varus/Valgus Adjustment 6°, right

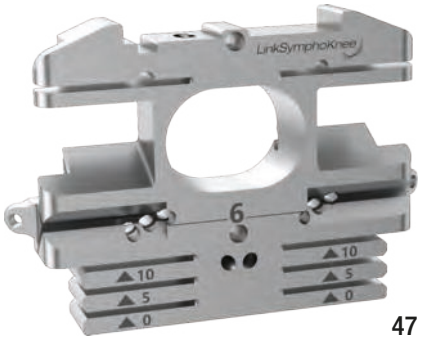
445-124/65
Drill Pin

445-125/35
Headed Drill Pin

317-802/53
Cutting Template

4-in-1 Femoral Cutting Block Assembly

Select the CCK 4-in-1 Femoral Cutting Block that matches the femur A/P size previously determined (**47**).

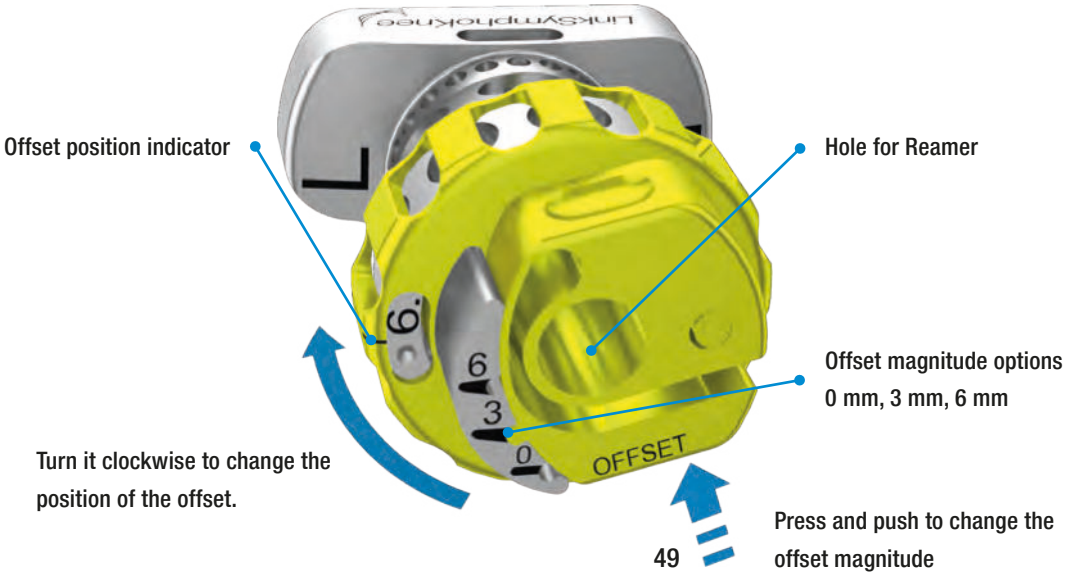


47

48

ATTENTION: The *LinkSymphoKnee* Instrument Set features eleven CCK 4-in-1 Femoral Cutting Blocks, one for each A/P femoral size. *LinkSymphoKnee* CCK 4-in-1 Femoral Cutting Block mimics precisely the M/L size of the standard final femoral components (0 - 10).
The M/L size of the wide femoral components (3+, 4+, 5+) can be assessed later in the surgical technique.
ATTENTION: Joint line/patella height corrections noted preoperatively and at the Distal femoral resection step should be accounted for in the Femoral Trial Augments selection.
Attach the appropriate Femoral Trial Augment to the posterior face of the CCK 4-in-1 Femoral Cutting Block (**48**).
ATTENTION: In order to build a 15 mm Femoral Trial Augment, combine a 10 mm + a 5 mm Femoral Trial Augment.

Now assemble the CCK Offset Selector (**49**) onto the CCK 4-in-1 Cutting Block.



49

Instruments

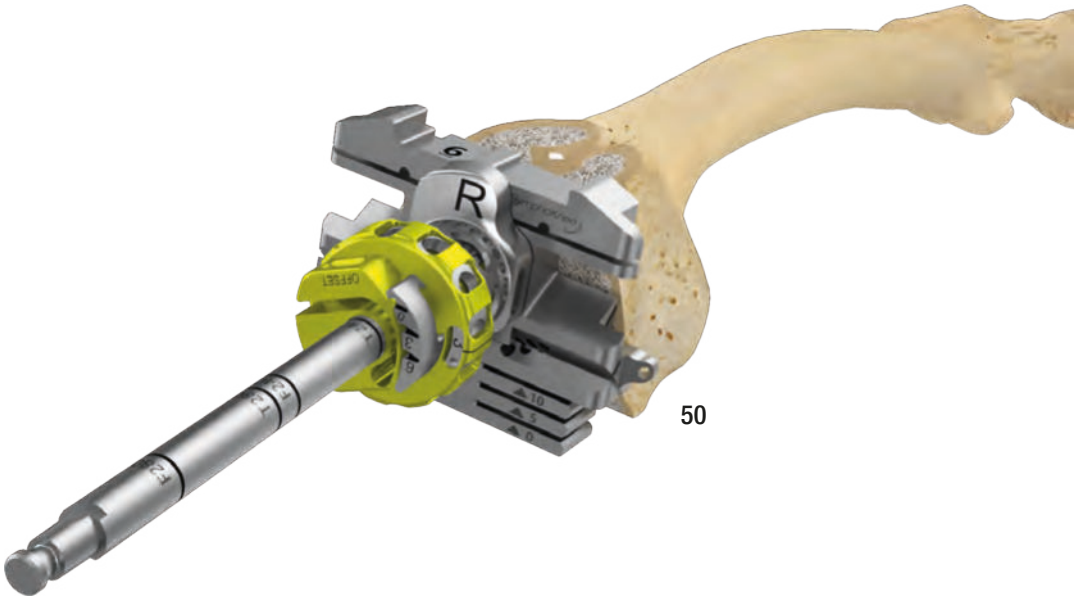
881-099/00
Offset Selector CCK

881-115/60
Femoral Cutting Block, CCK, 4-in-1 Cut, Size 6

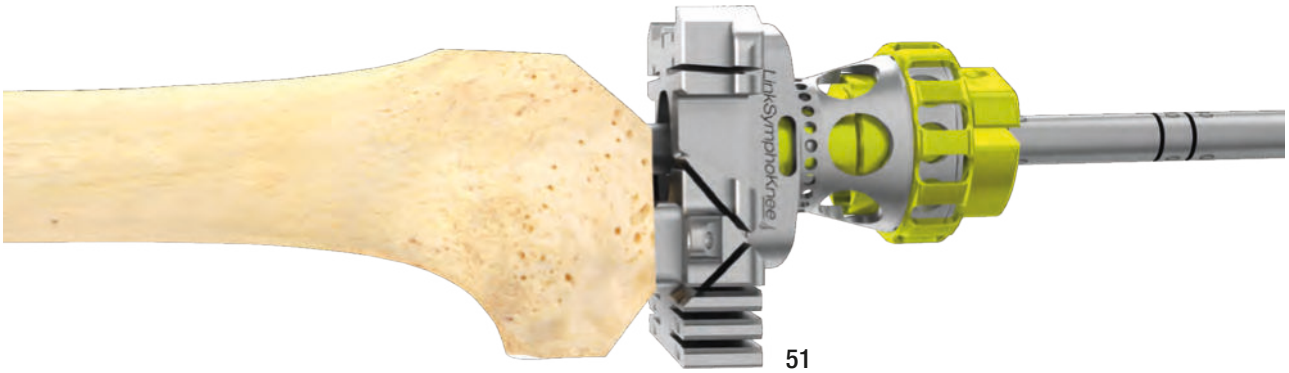
881-302/91
Femoral Augment Trial, 5 mm

ATTENTION: The CCK Offset Selector can be used either for the left or the right leg. Ensure that the CCK Offset Selector is assembled correctly according to the operated leg (**50**).

Slide the CCK 4-in-1 Cutting Block construct onto the Reamer (**51**).



50



51

Instruments

881-099/00
Offset Selector CCK

881-302/91
Femoral Augment Trial, 5 mm

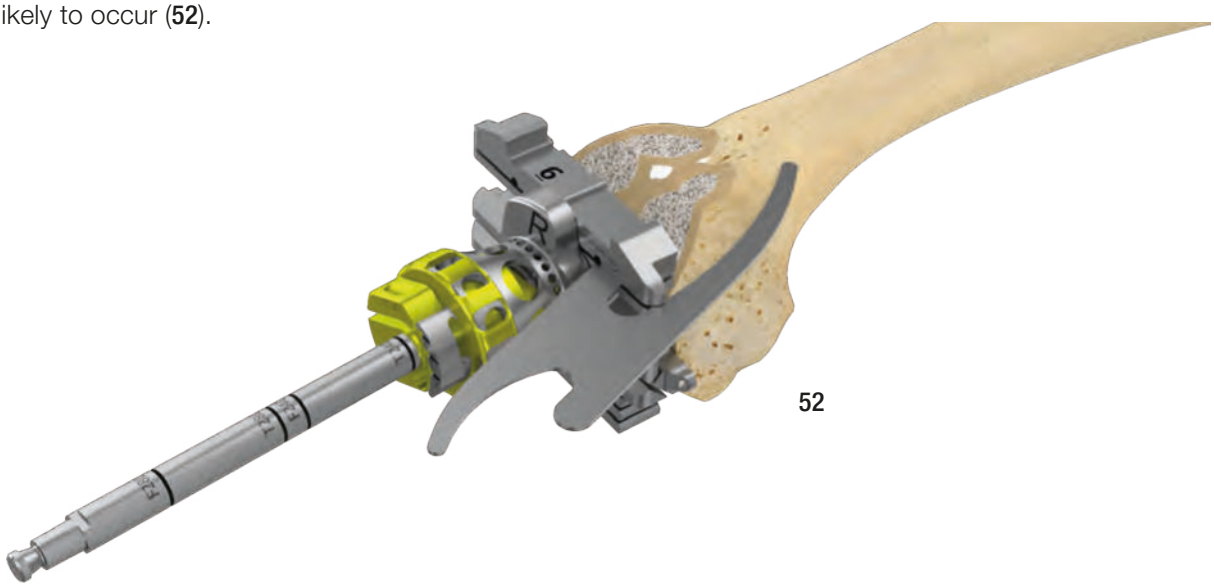
881-115/60
Femoral Cutting Block, CCK, 4-in-1 Cut, Size 6

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

4-in-1 Femoral Cutting Block Positioning

Assess the A/P and M/L position ensuring the rotation of the CCK 4-in-1 Cutting Block is aligned with the epicondylar axis.

OPTIONAL: Insert the Cutting Template through the lateral side of the anterior slot of the CCK 4-in-1 Femoral Cutting Block to verify the correct anterior resection before cutting the femur and to ensure that notching is unlikely to occur (**52**).



52

If there is risk of unacceptable notching, it is possible to adjust the Offset magnitude or offset position for prevention.

OPTIONAL: The flexion gap may be checked by using the Flexion Spacer for the 4-in-1 Cut in combination with the CCK 4-in-1 Femoral Cutting Block. The Flexion Spacer is placed between the CCK 4-in-1 Femoral Cutting Block (with its stepped side pushed as far as possible under the unresected femoral condyles) and the resected tibia (**53**). If needed Shims can be used.

53

ATTENTION: Use the Flexion Spacer for Micro-Sizes with femoral sizes 0, 1 and 2.

Instruments

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

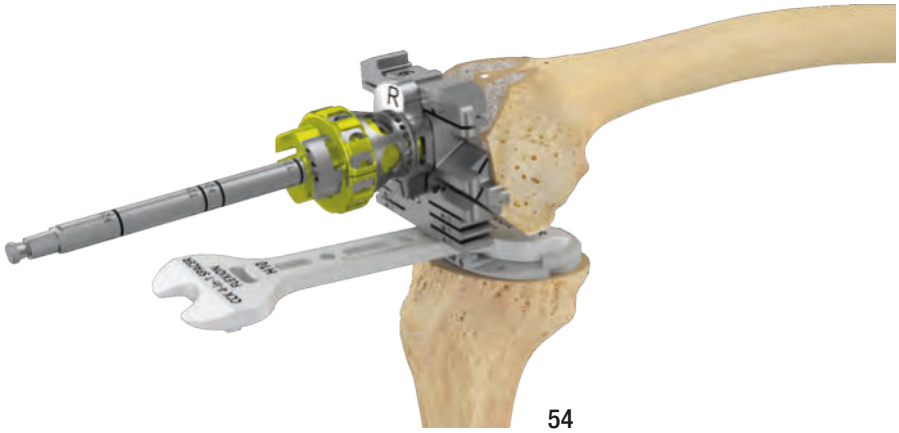
881-115/60
Femoral Cutting Block, CCK, 4-in-1 Cut, Size 6

881-011/02
Flexion Spacer 4-in-1 Cut

881-099/00
Offset Selector CCK

317-802/53
Cutting Template

OPTIONAL: Use the CCK Flexion Spacer for the 4-in-1 Cut to check the flexion gap between the CCK 4-in-1 Femoral Cutting Block and the top surface of the Tibial Trial Component CCK (**54**).



54

ATTENTION: All Flexion Spacers are used only to assess the flexion gap.

ATTENTION: All Flexion Spacers are designed to assess the flexion gap in combination with the CCK 4-in-1 Femoral Cutting Block.
The Flexion Spacer can be connected to a 4 mm or 8 mm Shim to allow evaluation of multiple thicknesses (**55a** & **55b**):

10 mm + 4 mm shim = 14 mm
12 mm + 4 mm shim = 16 mm
10 mm + 8 mm shim = 18 mm
12 mm + 8 mm shim = 20 mm
10 mm + 4 mm shim + 8 mm shim = 22 mm
12 mm + 4 mm shim + 8 mm shim = 24 mm

55a

55b

Record the magnitude and the position of the Offset.

Instruments

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

881-115/60
Femoral Cutting Block, CCK, 4-in-1 Cut, Size 6

881-011/02
Flexion Spacer 4-in-1 Cut

881-099/00
Offset Selector CCK

881-258/60
Tibial Trial Component, CCK, Size 6

881-013/00
Flexion Spacer CCK 4-in-1 Cut , H = 10-12 mm

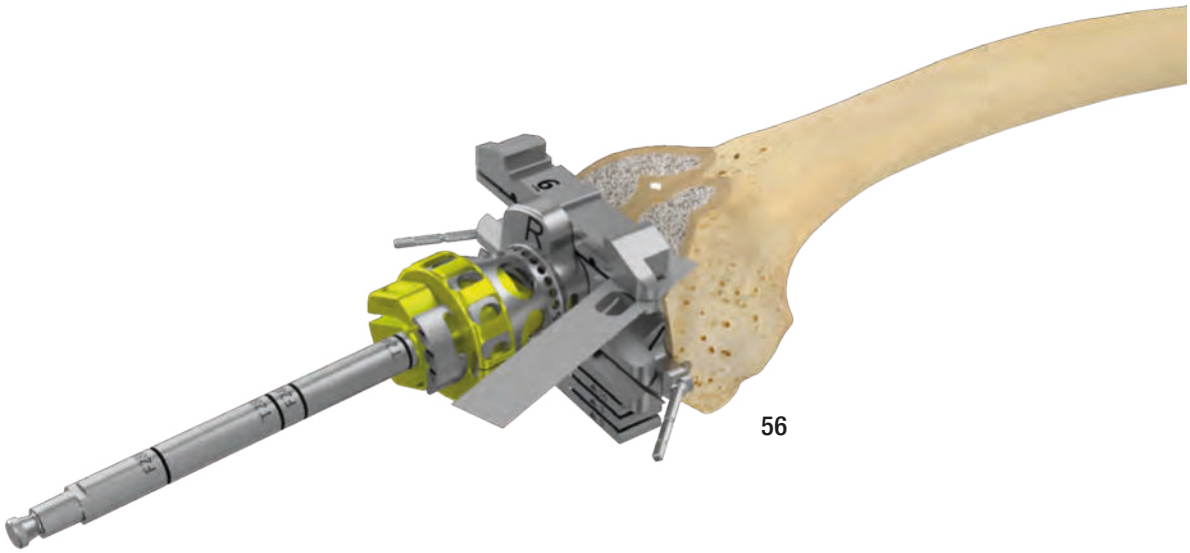
881-019/04
Shim, Spacer, H = 4 mm

Femoral 4-in-1 Resection

After final placement of the CCK 4-in-1 Femoral Cutting Block, insert two Headed Drill Pins into the oblique pin holes on the medial and lateral aspects of the Cutting Block.

NOTE: when the CCK 4-in-1 Femoral Cutting Block is assembled to a Femoral Augment Trial construct of 15 mm, use the oblique pins located at the opposite side respect to the Femoral Augment Trial.

Protecting the collateral ligaments, use a max. 1.27 mm thick oscillating sawblade to complete anterior, posterior, posterior chamfer and anterior chamfer resections as well as any 5 mm and 10 mm posterior augment resections (**56**).



56

ATTENTION: Use a narrow sawblade with sizes 0, 1 and 2.

Instruments

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

881-115/60
Femoral Cutting Block, CCK, 4-in-1 Cut, Size 6

881-099/00
Offset Selector CCK

445-125/35
Headed Drill Pin

Femoral Box Preparation

Select the appropriate size of the CCK Box Guide that matches the femur A/P size previously determined.

ATTENTION: The CCK Box Guide is symmetrically designed to permit universal use.
The *LinkSymphoKnee* CCK instruments feature 5 CCK Box Guides (0-1-2, 3-4, 5-6, 7-8 and 9-10)

Assemble the CCK Box Guide to the anterior surface of the CCK 4-in-1 Cutting Block (**57**).

57

Instruments

445-125/35
Headed Drill Pin

881-115/60
Femoral Cutting Block, CCK, 4-in-1 Cut, Size 6

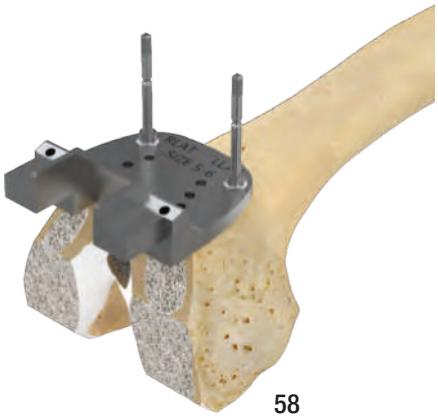
881-302/91
Femoral Augment Trial, 5 mm

881-069/16
Reamer, cementless cylindrical, Ø 16 mm

881-099/00
Offset Selector CCK

881-114/56
Femoral Box Guide, CCK, Size 5-6

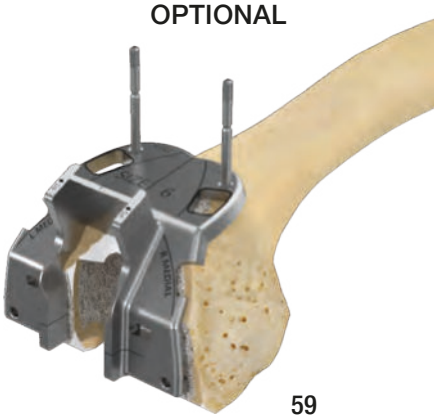
Fix the CCK Box Guide to the bone with two Drill Pins, remove the CCK 4-in-1 Cutting Block, the Reamer and the Offset Selector (**58**).



58

OR

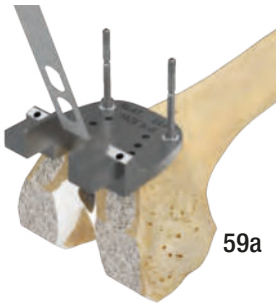
OPTIONAL



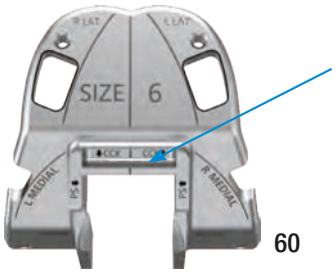
59

OPTIONAL: The primary PS Box Guide may also be used for the CCK box preparation. The appropriate size of the primary PS Box Guide can be positioned onto the 2 parallel pins of the CCK Box Guide onto the anterior femur (**59**).

Using a narrow saw blade, resect for the M/L walls and the distal wall of the femoral box through the CCK Box Guide (Anterior/Posterior) (**59a**).



59a



Slot for the CCK box preparation.

60

ATTENTION: When completing the notch cut, be careful to avoid excessive angulation of the Saw Blade or penetration past the posterior femoral cortex to avoid injury to the neurovascular structures.
Avoid undercutting the condyles.

ATTENTION: When using the primary PS Box Guide, use the CCK cutting slot to resect the distal wall of the femoral box (**60**).

ATTENTION: When using the primary PS Box Guide, attach the Femoral Trial Augment to increase the stability of the construct in case of bone loss (**60a** & **60b**).

60a

60b

Instruments

445-124/65
Drill Pin

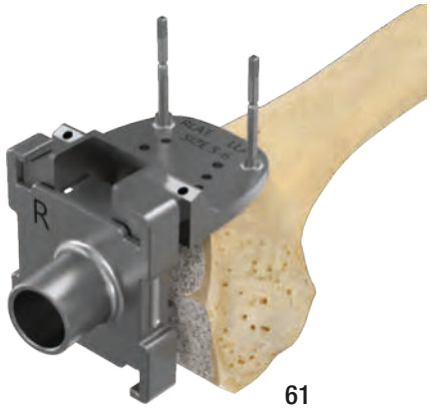
881-302/91
Femoral Augment Trial,
5 mm

881-114/56
Femoral Box Guide, CCK,
Size 5-6

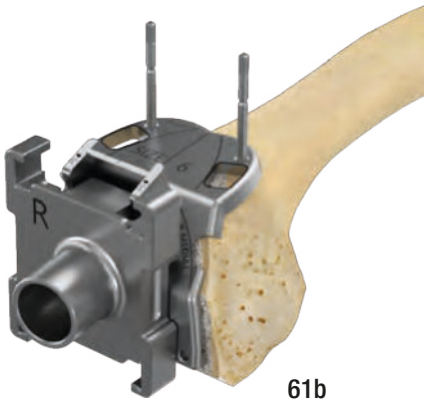
881-113/60
Femoral PS Box Guide,
Size 6

Femoral Male Taper Connection Prepatation

Attach the CCK Femoral Box Reamer Guide onto the CCK Box Guide (**61**) or to the primary PS Box Guide (**61b**).

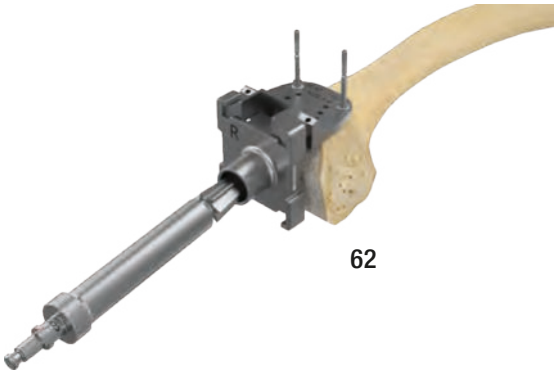


61



61b

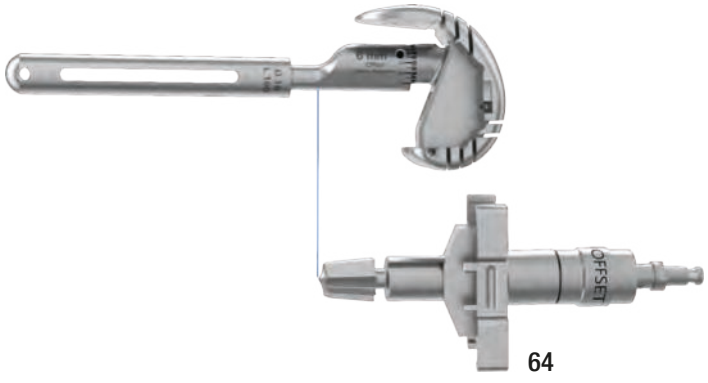
ATTENTION: The CCK Femoral Box Reamer can be used for a LEFT and for a RIGHT knee. Take care to assemble it properly according to the operated leg (**61** & **61b**).
Use the Tapered Reamer CCK until it stops onto the CCK Femoral Box Reamer Guide (**62**).



62

ATTENTION: When using an Offset Stem, assemble the Offset Reamer Stopper to the Tapered Reamer CCK (**63** & **64**).

63



64

ATTENTION: This step of the surgical technique can only be skipped when using not-offset stems with diameter bigger than 16 mm.

Instruments

881-113/60
Femoral PS Box Guide, Size 6

881-114/56
Femoral Box Guide, CCK, Size 5-6

881-067/17
Tapered Reamer, CCK

881-116/00
Reamer Guide, Femoral box, CCK

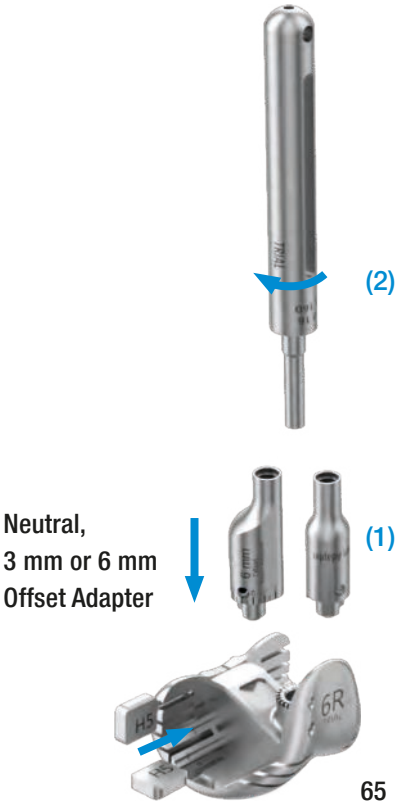
445-124/65
Drill Pin

881-065/09
Reamer Stopper, offset

Femoral Trial Assembly

The *LinkSymphoKnee* CCK Instrument Set features a specific femoral trial component for each CCK femoral size.

In case of bone loss, add the previously selected Femoral Trial Augments to the CCK Femoral Trial Component (**65**).

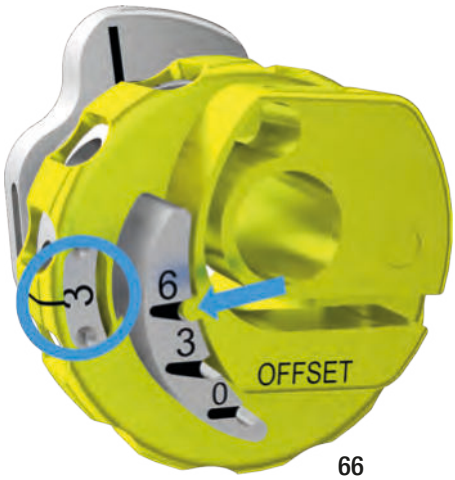


65

Trial Stem assembly sequence: CCK Femoral Trial Component **+ (1) Adapter + (2) Trial Stem** (**65**).

ATTENTION: When using an Offset Stem select the 3 mm or the 6 mm Offset Adapter according to the Offset magnitude previously selected.

For the correct position refer to the setting on the CCK Offset Selector (**66**).



66

Instruments

881-099/00
Offset Selector CCK

151-806/06
6 mm Offset Adapter

151-501/00
Neutral Stem Adapter

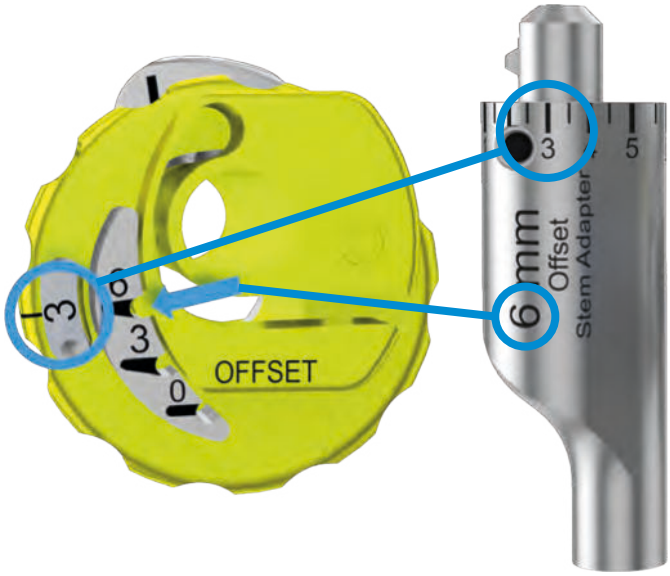
151-716/16
Trial Stem, cementless, cylindrical, Ø 16 mm

881-150/60
Femoral Trial CCK, right, size 6

881-302/91
Femoral Augment Trial, 5 mm

The Trial Offset Adapters for the 3 mm and 6 mm offset have the same markings as the CCK Offset Selector (**67**).

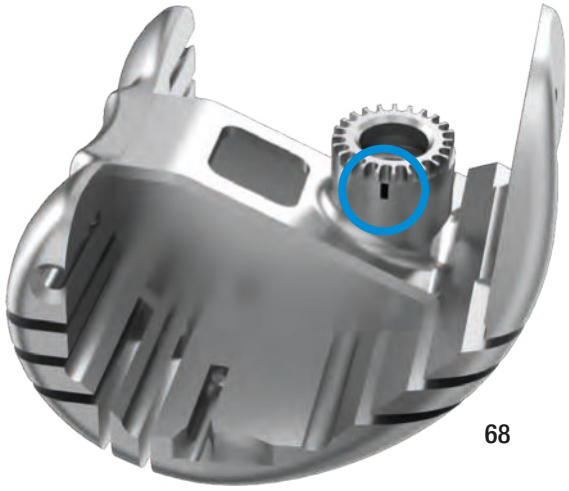
Marking on the CCK Offset Selector for the offset position.



Marking on the Offset Adapter for the offset position.

67

On the lateral side of the box of the CCK Femoral Trial Component there is a marking that shows the correct reference position for the Trial Offset Adapter (**68**).



68

Instruments

881-150/60
Femoral Trial CCK, right, size 6

151-806/06
6 mm Offset Adapter

881-099/00
Offset Selector CCK

Once the Trial Stem is assembled, the entire construct is locked and the offset position will not change.

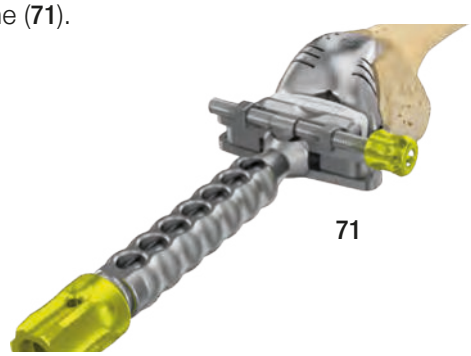
ATTENTION: The length of the assembly (Trial Stem Adapter + Trial Stem) is equal to the length of the final stem (**69**).

69

ATTENTION: In case of Cemented Stems, assemble a Trial Centralizer (**70**) to the Trial Stem.

70

Use the Femoral Inserter/Extractor to slowly introduce the CCK Femoral Trial Component into the femoral bone (**71**).



71

OPTIONAL: It is feasable to resect the bone for femoral augments using an oscillating sawblade through the CCK Femoral Trial Component (**73**).

Release the Femoral Inserter/Extractor and use the Femoral Impactor Tip (assembled to the Impactor/ Extractor Handle) to complete the trial component impaction (**72**).

72

73

It is possible to secure the position of the Trial Femoral Component using pins.

Instruments

151-106/16
Trial Centralizer, 16 mm

151-806/06
6 mm Offset Adapter

881-041/00
Femoral Inserter/Extractor

151-716/16
Trial Stem, cementless, cylindrical, Ø 16 mm

881-150/60
Femoral Trial CCK, right, size 6

445-207/00
Impactor/Extractor Handle

881-041/99
Femoral Impactor Tip

Trial Reduction

Perform a trial reduction with all trial components – CCK Femoral Trial Component, Tibial Trial Component CCK and CCK Trial Plateau (**73**).

74

74a

Select the appropriate size of the CCK Trial Plateau. The following table shows the possible size combinations:

CCK Femoral Component

Tibial Component	0	1	2	3/3+	4/4+	5/5+	6	7	8	9	10
1	CCK Articulating Surface 1-2			CCK Articulating Surface 1-2up		x	x	x	x	x	x
2						x	x	x	x	x	x
3	x	CCK Articulating Surface 3-4down		CCK Articulating Surface 3-4				x	x	x	x
4	x							x	x	x	x
5	x	x	x	CCK Articulating Surface 5-6						x	x
6	x	x	x							x	x
7	x	x	x	x	x	CCK Articulating Surface 7-8					
8	x	x	x	x	x						
9	x	x	x	x	x	x	x	CCK Articulating Surface 9-10			
10	x	x	x	x	x	x	x				

Symbol Description: **x** = Combination not permitted

Select the approriate thickness of the CCK Trial Plateau:
10 mm, 12 mm, 14 mm or 16 mm.

ATTENTION: For adjusting the height of the Trial Plateau beyond 16 mm, use the +4 mm Shim or the +8 mm Shim (**74**) in the following combinations:

14 mm Trial Plateau + 4 mm Shim = 18 mm
12 mm Trial Plateau + 8 mm Shim = 20 mm
14 mm Trial Plateau + 8 mm Shim = 22 mm
16 mm Trial Plateau + 8 mm Shim = 24 mm

Instruments

881-250/85
Shim Trial Plateau, CCK
H = +8 mm, size 5-6

151-716/16
Trial Stem, cementless,
cylindrical, Ø 16 mm

881-258/60
Tibial Trial Component,
CCK, Size 6

881-255/10
Trial Plateau CCK,
Size 5-6, H = 10 mm

881-150/60
Femoral Trial CCK,
right, size 6

151-806/06
6 mm Offset Adapter

ATTENTION: Always use a stem with the Femoral and with the Tibial Component when implanting a *LinkSymphoKnee* CCK Articulating Surface.

ATTENTION: For more implant options please refer to the *LinkSymphoKnee* CR, PS, PS+ Surgical Technique.

OPTIONAL: It is possible to fix the CCK Trial Plateau to the CCK Tibial Trial Component using a Trial Plateau Locking Screw. Select the Short Tibial Plateau Locking Screw when using a CCK Trial Plateau without Shim or with the +4 mm Shim (**75**), whereas use the Long Trial Plateau Locking Screw when using a CCK Trial Plateau with +8 mm Shim (**76**).
Use the Torque Wrench (hex 2.5 mm) to lock the Trial Plateau Locking Screw in place (**77**).

75

76

77

Instruments

881-250/85
Shim Trial Plateau, CCK
H = +8 mm, size 5-6

15-2545 Torque Wrench, hex 2.5 mm

151-716/16
Trial Stem, cementless,
cylindrical, Ø 16 mm

881-258/60
Tibial Trial Component,
CCK, Size 6

881-255/10
Trial Plateau CCK,
Size 5-6, H = 10 mm

Locking Screws Tibial Plateau:
881-052/00 Short, 881-053/00 Long

151-806/06
6 mm Offset Adapter

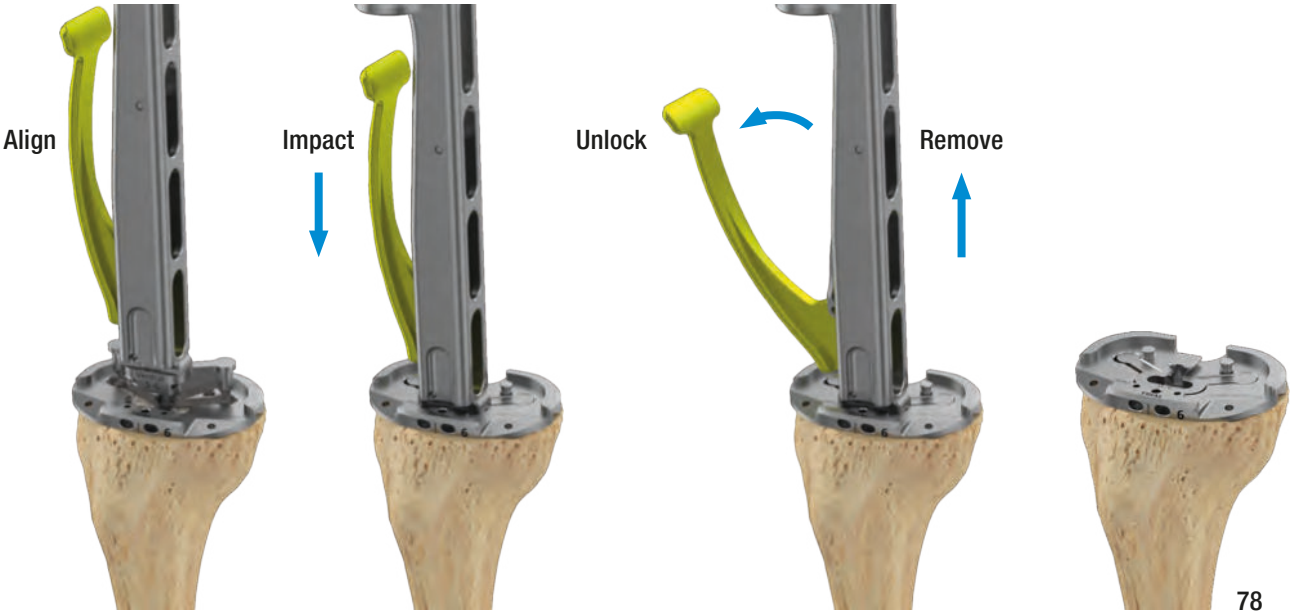
Final Preparation

Attach the size-specific CCK Tibial Keel Punch to the Impactor/Extractor Handle.

Choose the appropriate CCK Tibial Keel Punch according to the size of the CCK Tibial Trial Component.

ATTENTION: The *LinkSymphoKnee* Instrument Set features five CCK Tibial Keel Punches, each for two tibial sizes: 1-2, 3-4, 5-6, 7-8 and 9-10.

After confirming the rotation of the CCK Tibial Trial Component, carefully impact the CCK Tibial Keel Punch until it is fully seated onto the CCK Tibial Trial Component (**78**).



78

79

OPTIONAL: It is possible to perform a final trial reduction (**79**).

Make sure that no bony structures (e.g. osteophytes) or local soft tissue interfere with the range of motion.

Remove the Tibial Trial Component assembly.

Instruments

445-207/00
Impactor/Extractor Handle

881-258/60
Tibial Trial Component, CCK, Size 6

881-255/10
Trial Plateau CCK, Size 5-6, H = 10 mm

881-275/56
Tibial Keel Punch CCK Size 5-6

151-806/06
6 mm Offset Adapter

151-716/16
Trial Stem, cementless, cylindrical, Ø 16 mm

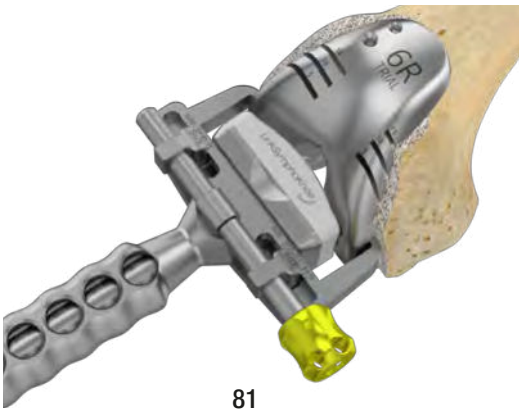
881-150/60
Femoral Trial CCK, right, size 6

Extraction of Femoral Trial Component

OPTIONAL: In order to extract the Femoral Trial Components, it is possible to use the Slaphammer in combination with the Femoral Inserter/Extractor (**80**).

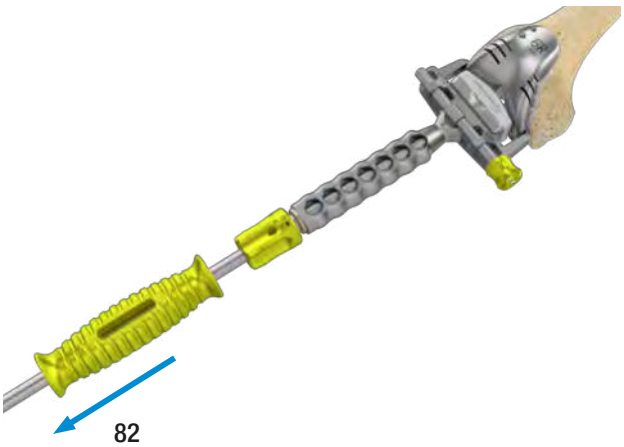
80

Assemble the Femoral Inserter/Extractor on the CCK Femoral Trial Component (**81**).



81

Use the Slaphammer to remove the Femoral Trial assembly (**82**).



82

Instruments

445-206/00
Slaphammer

881-041/00
Femoral
Inserter/Extractor

881-150/60
Femoral Trial CCK, right,
size 6

151-806/06
6 mm Offset Adapter

151-716/16
Trial Stem, cementless,
cylindrical, Ø 16 mm

Patella Preparation (Patella Resurfacing)

The following instructions describe how to use the *LinkSymphoKnee* Patella Component and they assume the use of the instrument set available for this procedure.

Sizing

A Patella Sizing Template corresponding to the implants is available (**83**). The size of implant is determined by placing the Sizing Template slightly medial and superior on the patella surface (**84**).

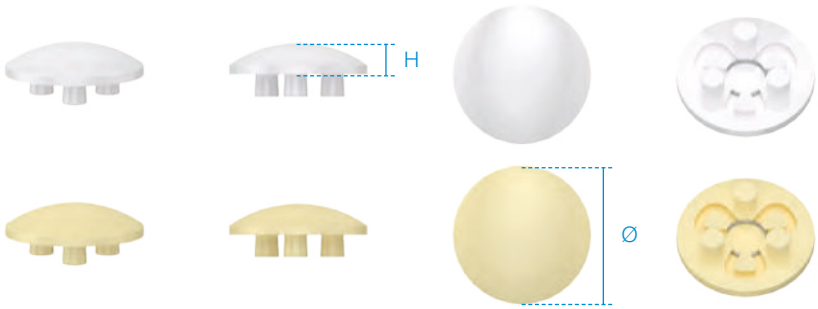
83

84

ATTENTION: The *LinkSymphoKnee* system includes 6 sizes of Patella Components.
Each size features a different implant thickness and diameter. In the table below, all Patella Component dimensions are shown.

LinkSymphoKnee Patella Components – 3-peg

cemented

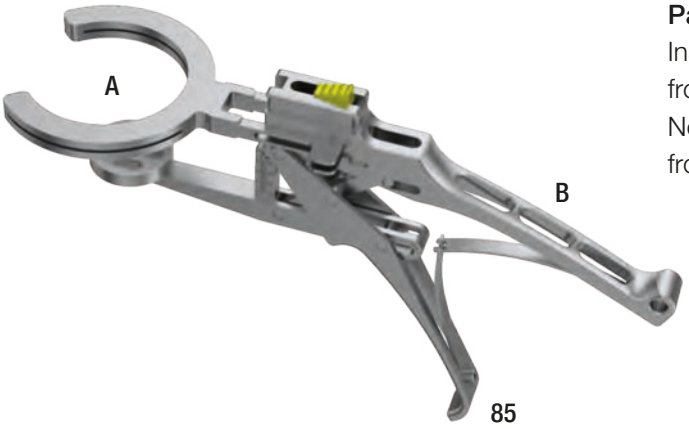


REF MAT UHMWPE	REF MAT E-Dur *	Ø mm	Height (H) mm
880-501/25	880-511/25	25	6
880-501/28	880-511/28	28	6
880-501/31	880-511/31	31	7
880-501/34	880-511/34	34	8
880-501/37	880-511/37	37	9
880-501/40	880-511/40	40	10

* E-Dur = Highly crosslinked UHMWPE (X-Linked PE) with Vit-E

Instruments

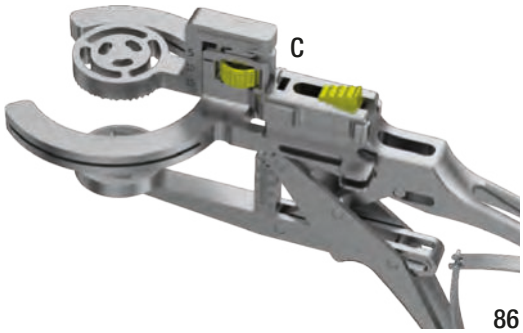
881-509/00
Patella Sizing Template



85

Patella Resection

Insert the Resection Guide (**A**) into the second groove from the top of the Patella Clamp Handle (**B**) (**85**). Now, insert the Depth Gauge (**C**) into the first groove from the top of the Patella Clamp Handle (**B**) (**86**).

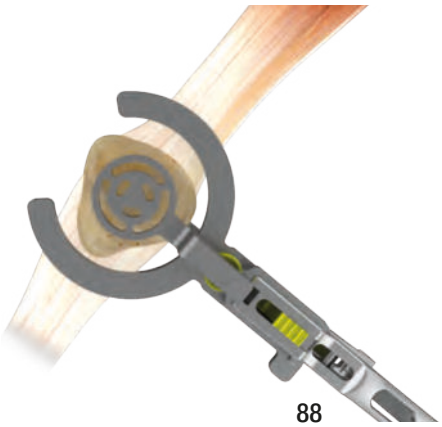


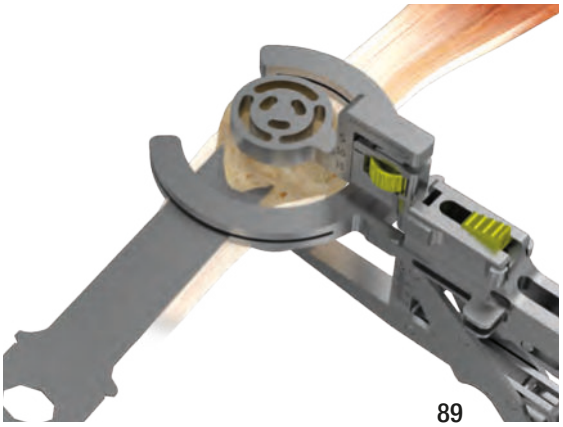
86

Set the appropriate resection level corresponding to the size of the patella component previously determined (**87**).


87

Position the Patella Clamp so that the sectional plane lies parallel to the extended patellar tendon. The Depth Gauge must lie on the bone. While pressing the hand grips, the Patella Clamp firmly fixes the patella by means of the integrated ratchet (**88**). If necessary, release the ratchet by pressing the trigger on the Patella Clamp Handle.


88


89

ATTENTION: It is important to ensure that the remaining patella is sufficiently thick (min. 12 mm).

The resection is carried out using an oscillating saw with a max.1.27 mm thick sawblade. The saw is guided using the saw slots of the Resection Guide (**89**).

Instruments

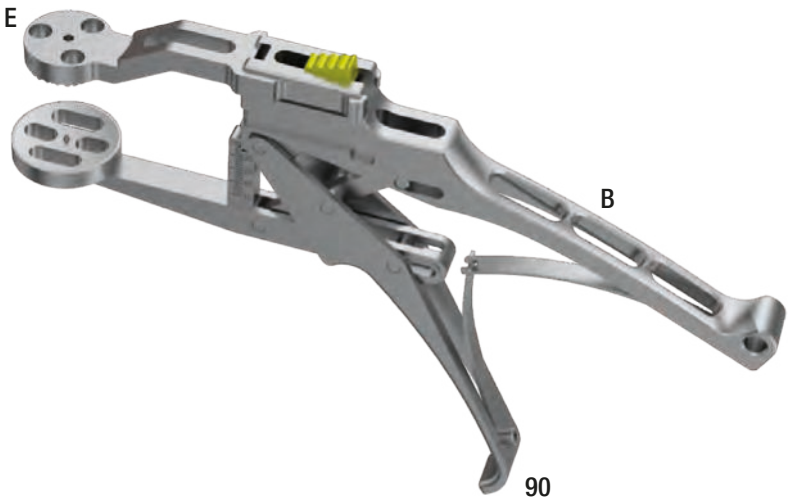

445-902/00
Patella Clamp,
Handle


445-903/00
Patella Clamp,
Resection Guide


881-500/00
Patella Clamp,
Depth Gauge

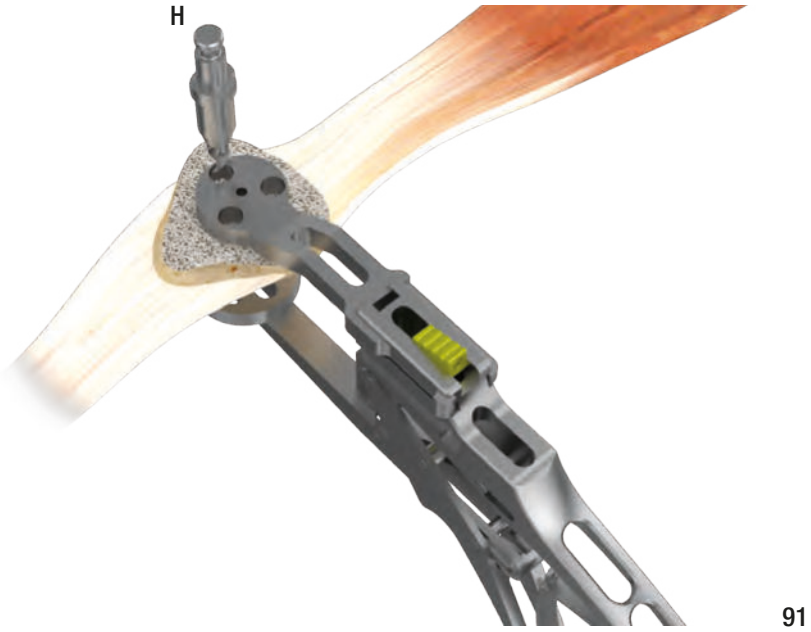
Drilling the Anchoring Holes

Insert the Drill Guide (**E**) for the anchoring holes into the first slot from the top of the Patella Clamp Handle (**B**) (**90**).



Position the Patella Clamp onto the previously resected patella surface and use the Universal Drill (**H**) for the anchoring holes. To prepare the seat for the anchoring holes, push the Universal Drill until stop (**91**). A Patella Trial can now be used (**91a**).

91a



91

Instruments

445-902/00
Patella Clamp,
Handle

881-012/00
Universal Drill,
Hudson Fitting (B)

881-511/31
Patella Clamp,
Drill Guide size 31

881-501/31
Patella Trial,
Ø 31 mm

Final Implantation

Augment Assembly

Select the appropriate sized Femoral/Tibial Components and the matching sized Femoral/Tibial Augment.

Using the Tibial and Femoral Trials as a guide, assemble the Femoral and/or Tibial Augment with the Torque Wrench (hex 2.5 mm) (**93** & **94**).
NOTE: Screws are preassembled to the augments.

93

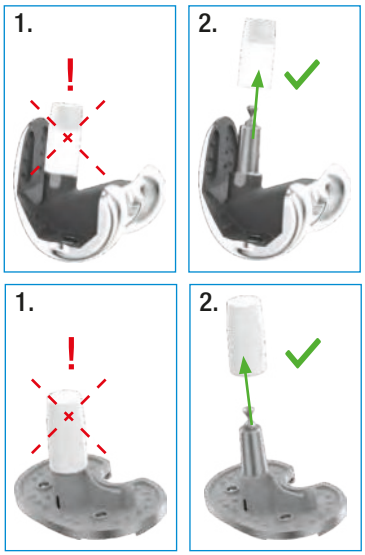
94

Instruments

15-2545
Torque Wrench, hex 2.5 mm

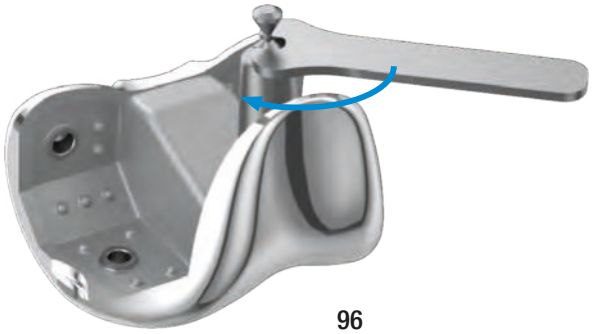
Modular Stem Assembly

ATTENTION: Carefully remove the Safety Cap from the taper. The Safety Cap protects the Cone Adapter during transportation (**95**).



95

ATTENTION: The Cone Adapter is pre-assembled to the Femoral and Tibial implant.
ATTENTION: If the Cone Adapter is not assembled or is loose, use the Screwdriver for the Cone Adapter to tighten it to the Femoral and Tibial component (**96** & **97**).


96


97

Select the final femoral and tibial stem, referencing to the ones used for the Trial Assembly.

If an Offset Stem is used, insert the male end of the Femoral or Tibial component into the female Offset Stem taper. Referencing the Trial Assembly, align the orientation lines to the appropriate setting (**98** & **99**).


98


99

Instruments


445-207/00
Impactor/Extractor Handle


881-040/99
Tibial Femoral Coupling Base Tip

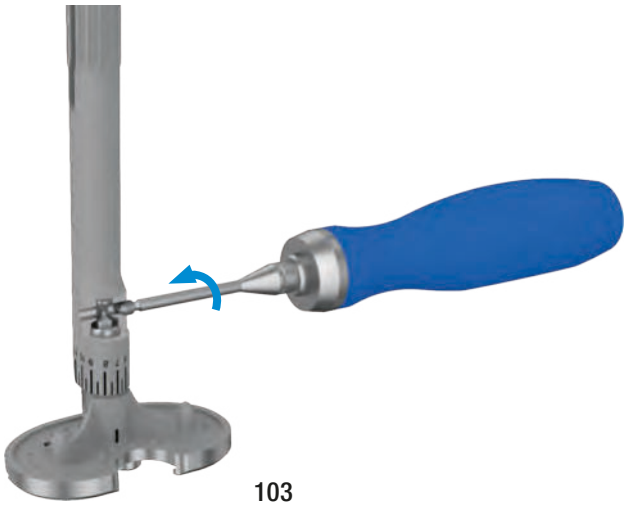

151-131/00
Screwdriver for Cone Adapter

ATTENTION: To avoid a metal on metal contact between the Stem and the Hammer, use the Tibial/Femoral Coupling Base Tip.
Connect the Tibial/Femoral Coupling Base Tip with the Impactor/Extractor Handle (**100**).
Slide the Tibial/Femoral Coupling Base Tip onto the top of the Stem.
Two Hammer blows are enough (**101** & **102**).

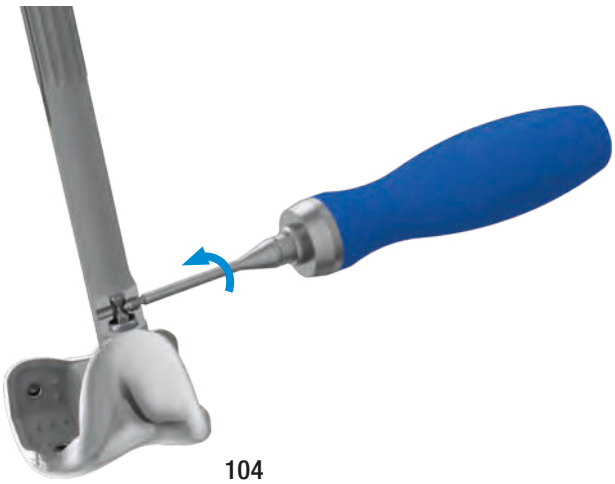
100

101 102

Secure the Security Screw for the Cone Adapter with the Torque Wrench (hex 2.5 mm) (**103** & **104**).
ATTENTION: The Security Screw is included in the package of the CCK Femoral Component and of the Modular Tibial Component.



103



104

ATTENTION: If a Cemented Stem is used, assemble a Centralizer to the final stem. The Centralizer ensures a central positioning of the stem in the femoral/tibial canal and it avoids stress peaks in the bone in case of bending load.

Instruments

445-207/00
Impactor/Extractor Handle

881-040/99
Tibial Femoral Coupling Base Tip

15-2545
Torque Wrench, hex 2.5 mm

Implantation

The implantation sequence:

1 **Fixed Bearing Modular Tibial Component Implantation**
2 **CCK Femoral Component Implantation**
3 **CCK PE Articulating Surface Implantation**
4 **Patella Implantation**

1 Fixed Bearing Tibial Component Implantation

Prepare the sclerotic bone to ensure a continuous cement mantle with good cement interdigitation of 2 mm - 4 mm. This can be done by drilling holes and cleansing the bone with Pulsatile Lavage.

The bone cement is prepared following the specific manufacturer's instructions. A thick layer of cement can be placed either on the bone or on the implant (**104a**). It has to be observed that the bone facing side of the tibial component consisting of the metal tray, its keel and stem are completely anchored in bone cement.


104a

Attach the Tibial Inserter to the fixed bearing tibial implant (**105**).

Carefully insert the Fixed Bearing Tibial Component, avoiding malrotation and impact into place (**105**).

If needed, the Tibial Impactor Tip, assembled with the Impactor/Extractor Handle (**106**), can be used to complete the seating of the component (**107**).

Complete implantation with several hammer blows to the top of Tibial Impactor assembly.

Then use a Curette to remove all extruded cement.

ATTENTION: Ensure that excess bone cement is completely removed and no loose bone cement particles remain, especially in the posterior part of the joint.

OPTIONAL:
Attachment for the Quick Connect Handle


105


106


107

Instruments


881-042/00
Tibial Inserter


445-207/00
Impactor/Extractor Handle

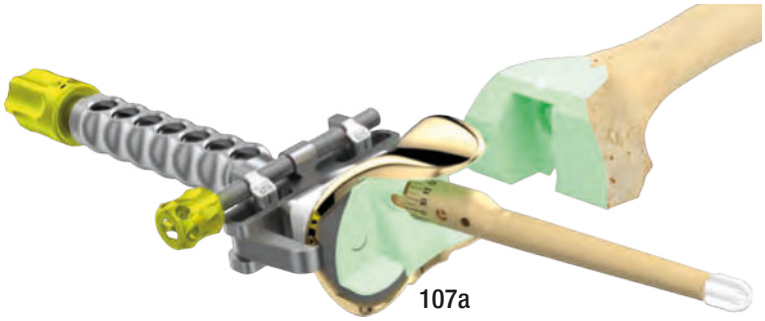

881-042/99
Tibial Impactor Tip

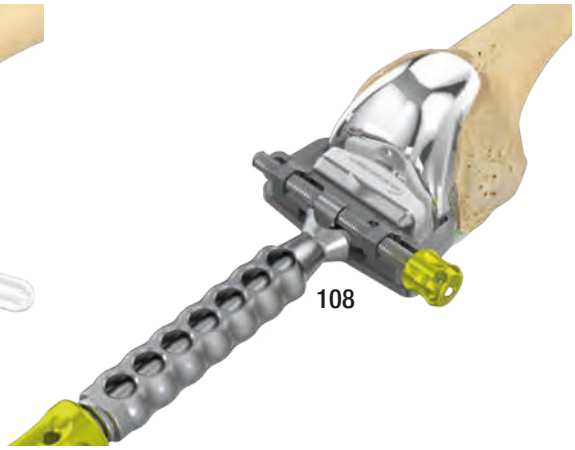
2 CCK Femoral Component Implantation

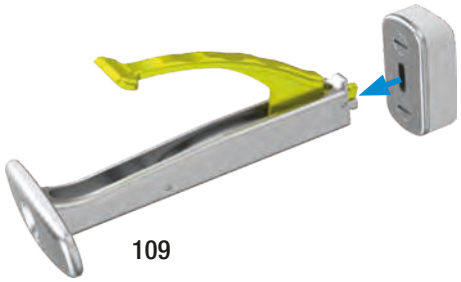
The bone cement is prepared following the specific manufacturer's instructions. A thick layer of cement can be placed either on the bone or on the implant (**107a**). It has to be observed that the bone facing side of the femoral component and the stem are completely anchored in bone cement. Place the selected Femoral Component onto the bone by hand or, if preferred, use the Femoral Inserter/Extractor. Deliver several hammer blows to the Femoral Inserter/Extractor (**108**).

Release the Femoral Inserter/Extractor and use the Femoral Impactor Tip (assembled to the Impactor/Extractor Handle (**109**) to complete the component impaction (**110**). Then use a Curette to remove all extruded cement.

ATTENTION: Ensure that excess bone cement is completely removed and no loose bone cement particles remain, especially in the posterior part of the joint.


107a


108


109


110

Instruments


445-207/00
Impactor/Extractor
Handle


881-041/00
Femoral
Inserter/Extractor


881-041/99
Femoral Impactor Tip

3 CCK PE Articulating Surface Implantation

Select the appropriate size of the CCK PE Articulating Surface.
The following table shows the possible *LinkSymphoKnee* size combinations:

CCK Femoral Component

Tibial Component	0	1	2	3/3+	4/4+	5/5+	6	7	8	9	10
1	CCK Articulating Surface 1-2			CCK Articulating Surface 1-2up		x	x	x	x	x	x
2						x	x	x	x	x	x
3	x	CCK Articulating Surface 3-4down		CCK Articulating Surface 3-4				x	x	x	x
4	x							x	x	x	x
5	x	x	x	CCK Articulating Surface 5-6						x	x
6	x	x	x							x	x
7	x	x	x	x	x	CCK Articulating Surface 7-8					
8	x	x	x	x	x						
9	x	x	x	x	x	x	x	CCK Articulating Surface 9-10			
10	x	x	x	x	x	x	x				

Symbol Description: **x** = Combination not permitted

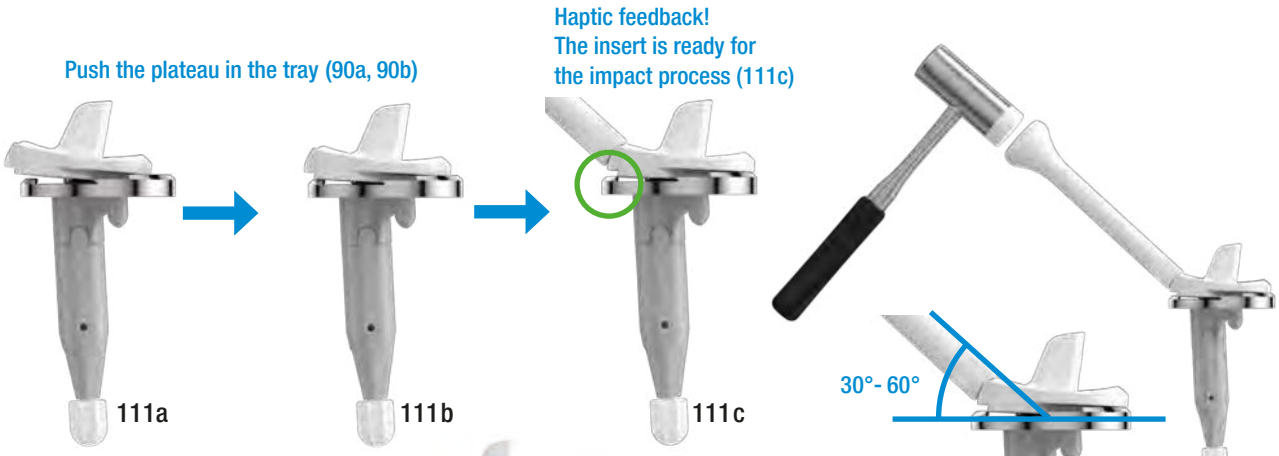
Select the appropriate thickness of the Fixed Bearing PE Articulating Surface.

The locking mechanism must sit in its resting position before impact. Therefor the following sequences must be followed.

Please take particular note that all debris and especially bone cement particles are carefully removed from the surface of the Tibial Component.

First the Fixed Bearing PE Articulating Surface is pushed as far posteriorly as it will go before impaction (**111a-c**). The PE posterior lip must rest beneath the posterior dovetail of the Tibial Component.

Then position the Articulating Surface Impactor **between 30 and 60 degrees** on the insert so that the notch rests on the anterior edge of the center of the insert (**111d**). Use a mallet to strike the Articulating Surface Impactor.

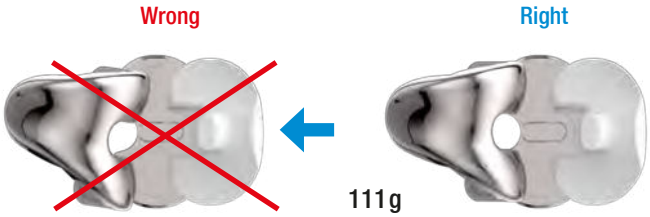


Confirm seating by circumferential inspection (**111e**).

For appropriate insertion of the PE Articulating Surface for LinkSymphoKnee configuration PS, PS+ and CCK, the following aspects are to be considered:

Preventing the post-cam mechanism from pushing the PE Articulating Surface out of position. While pushing the insert to its resting position it only can be pushed until reaching the post (**111f**). If so the tibia has to be moved anteriorly. It can be beneficial to move the knee into extension to help releasing the post cam mechanism.

The rotation and the M/L position of the tibia has to be aligned to the femoral component. It is important that the post is proper aligned with the femoral box by internally rotating the tibia (**111g**).



Instruments

881-040/01
Articulating Surface Impactor

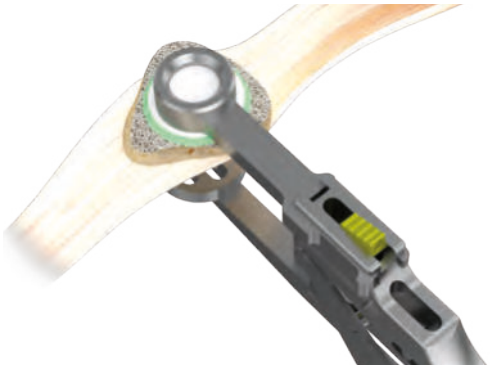
4 Patella Implantation

Insert the Clamp Arm (**F**) into the first slot from the top of the Patella Clamp Handle (**B**) (**112**).

112

The bone cement is prepared following the specific manufacturer's instructions.
Following extensive rinsing and removal of all impeding soft tissue, the bone cement is applied to the back of the implant, and the implant is placed by hand and pressed on using the Patella Clamp Handle with the Clamp Arm (**113**).

ATTENTION: Ensure that excess bone cement is completely removed and no loose bone cement particles remain in the joint.


113

Functional Test

Perform a final functional test through an entire range of motion to check that all components are properly positioned, and also to check for proper ligament tension and patella tracking (**114**).


114

Instruments

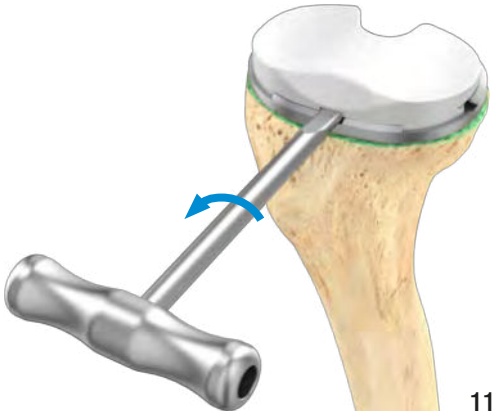

445-902/00
Patella Clamp, Handle


445-904/00
Patella Clamp, Arm

Appendix 1, Implant Removal

Articulating Surface removal

Use the Articulating Surface Extractor to disengage the PE Articulating Surface from the Tibial Component (**115**).



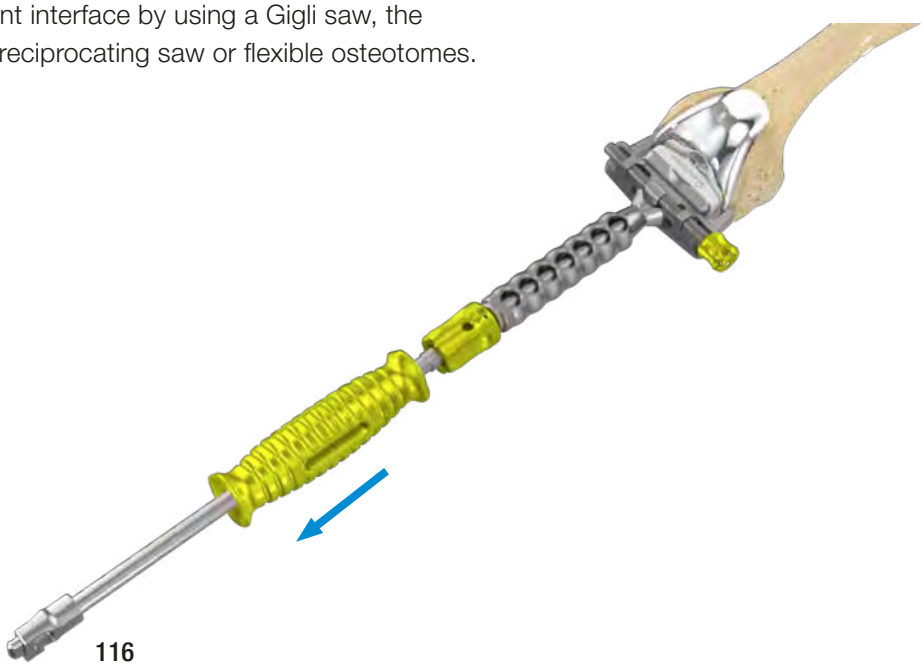
115

Femoral Component removal

Assemble the Slaphammer to the Femoral Inserter/Extractor and use it to extract the Femoral Component (**116**).

ATTENTION: Disrupt cement along the bone interface with flexible osteotomes or thin saw blades with an oscillating saw.

NOTE: In the case of a porous component, disrupt the bone/implant interface by using a Gigli saw, the thin blade of a reciprocating saw or flexible osteotomes.



116

Instruments

445-206/00
Slaphammer

881-019/00
Articulating Surface Extractor

881-041/00
Femoral
Inserter/Extractor

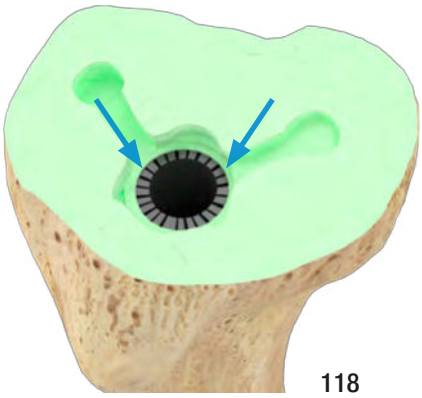
Tibial Component removal

Assemble the Slaphammer to the Tibial Extractor Tip and use it to extract the Tibial Component (**117**). Make sure that the Salphammer is fully threaded into the Tibial Extractor Tip, before using the retrograded impactor.

117

Stem removal

If the Stem remains in situ, remove all the cement from the noses of the Stem and from the top of the female taper (**118**)



118

Instruments

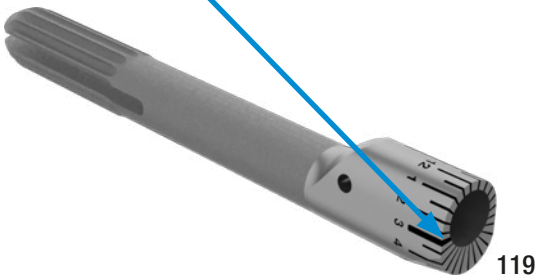
445-206/00
Slaphammer

881-043/00
Tibial Extractor Tip

Assemble the male taper of the Stem Extractor into the female taper of the stem.

ATTENTION: Clean the female taper before inserting the Stem Extractor.

ATTENTION: The peg of the Stem Extractor (**120**) must be on the same side as the marking on the top of the Stem female taper (**119**).



119

120

Assemble the Slaphammer onto the Stem Extractor and use it to remove the Stem (**121**).

121

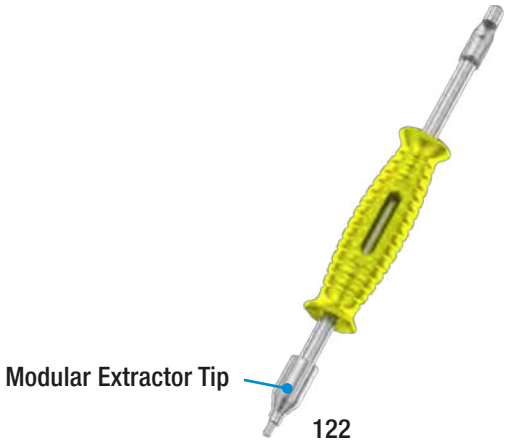
Instruments

445-206/00
Slaphammer

151-144/00
Extractor for Modular
Stems/Offset Stems

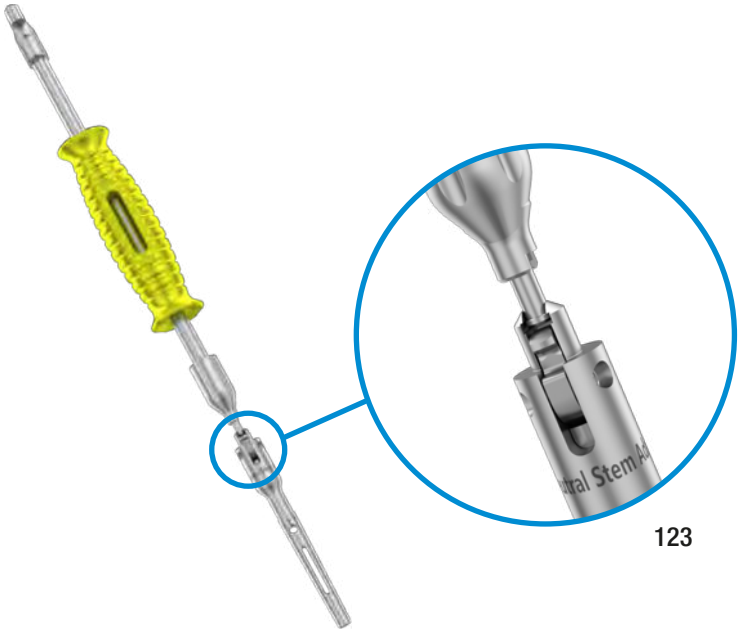
Appendix 2, Extraction Stem Adapter and Trial Stems:

OPTIONAL: If the Trial Stem Adapter and the Trial Stem remain inside the bone during the extraction of the trial components (femoral and/or tibial), it is possible to use the Slaphammer to extract them. Attach the Modular Extractor Tip to the Slaphammer (**122**).



122

Connect the Modular Extractor Tip with the Stem Adapter (**123**).



123

Use the Slaphammer to axially remove the Stem Adapter and the Trial Stem.

Instruments

151-132/00
Modular Extractor Tip

151-716/16
Trial Stem, cementless, cylindrical, Ø 16 mm

445-206/00
Slaphammer

151-501/00
Neutral Stem Adapter

Appendix 3, TrabecuLink Cones Compatibility

The *LinkSymphoKnee* CCK Femoral Components and Modular Tibial Components are compatible with the TrabecuLink Femoral Cones and Tibial Cones, respectively (**124**).

124

Select the appropriate size of the TrabecuLink Femoral Cone according to the following table:

	LinkSymphoKnee CCK Femoral Component														Modular Stems (no offset only)		
Femoral Cones variant (all sizes)	0	1	2	3	3+	4	4+	5	5+	6	7	8	9	10	Conical Cemented (used with centralizer max. Ø 18 mm)	conical cementless	Cylindrical (with & without slot)
2-Zones & 2-Zones Proximal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	max. Ø 18 mm	max. Ø 17 mm
3-Zones	not compatible																

Select the appropriate size of the TrabecuLink Tibial Cone according to the following table:

	Tibial Components									
Tibial Cones all versions	1	2	3	4	5	6	7	8	9	10
XS	x	x	x	x	x	x	x	x	x	x
S	✓	✓	x	x	x	x	x	x	x	x
M	x	x	✓	✓	x	x	x	x	x	x
L	x	x	x	x	✓	✓	x	x	x	x

For all TrabecuLink Cones Implants and Instruments information, refer to the TrabecuLink Cones Surgical Technique.

LinkSymphoKnee

Implants Combination Overview

Additional Implants

Patella

Femoral Components

CR

Articulating Surfaces

CR

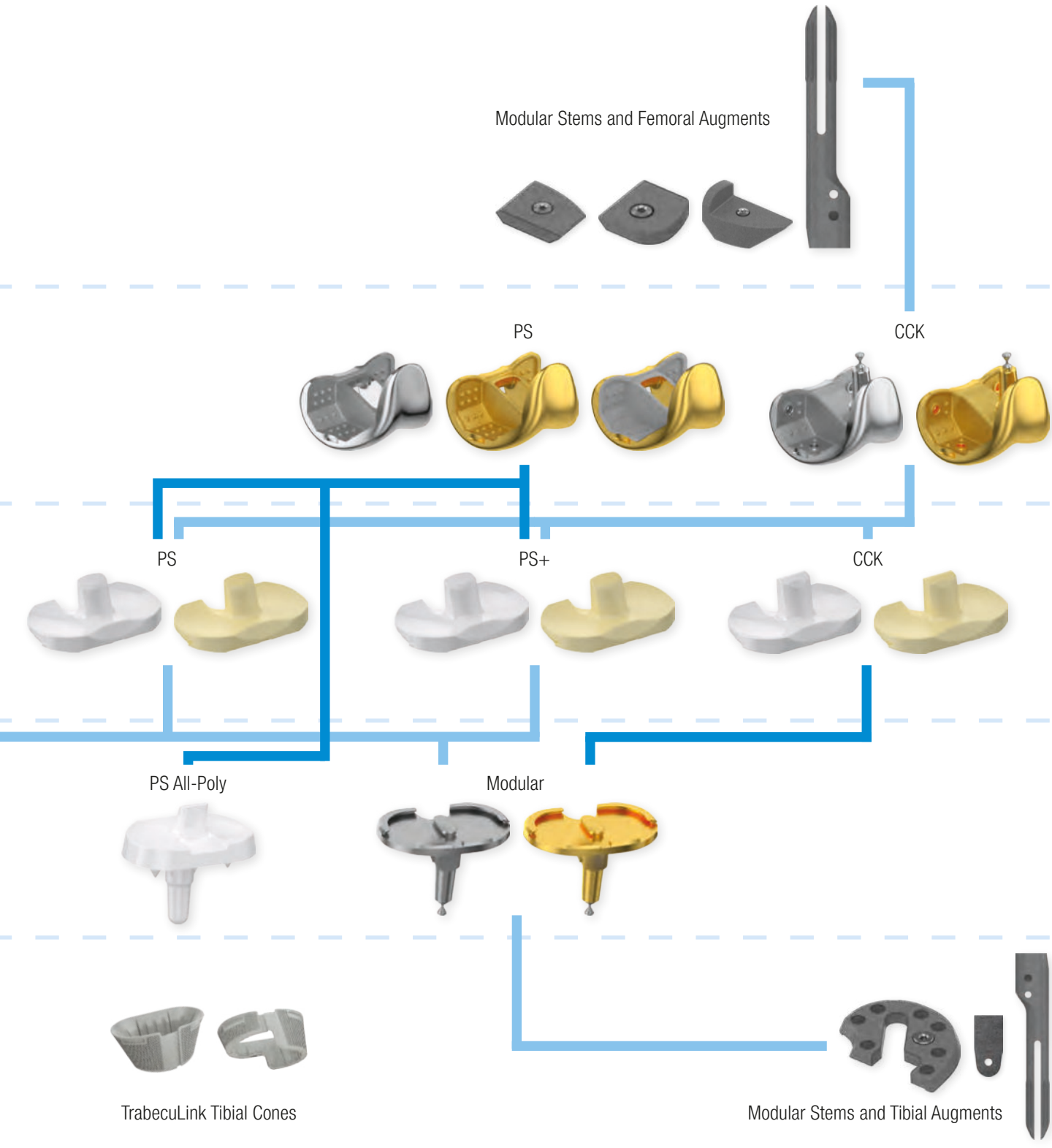
Tibial Components

Not modular

Additional Implants

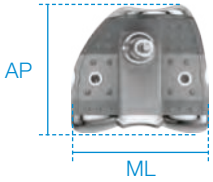
In the following pages are listed and described all implants and instruments for the CCK configurations.

For all other implants and instruments, refer to the *LinkSymphoKnee* CR, PS, PS+ Surgical Technique.


Modular Stems and Femoral Augments
PS
CCK
PS
PS+
CCK
PS All-Poly
Modular
TrabecuLink Tibial Cones
Modular Stems and Tibial Augments

LinkSymphoKnee Femoral Components – CCK Micro-Sizes

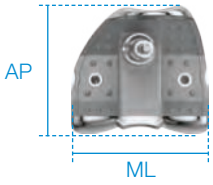
cemented



REF MAT CoCrMo	REF MAT CoCrMo LINK PorEx*	Size	Side	AP mm	ML mm
880-030/00#	880-080/00#	0	right	47	53.5
880-030/10#	880-080/10#	1	right	50	56
880-030/20#	880-080/20#	2	right	53	58.5
880-031/00#	880-081/00#	0	left	47	53.5
880-031/10#	880-081/10#	1	left	50	56
880-031/20#	880-081/20#	2	left	53	58.5

LinkSymphoKnee Femoral Components – CCK

cemented

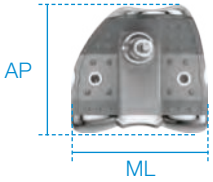


REF MAT CoCrMo	REF MAT CoCrMo LINK PorEx*	Size	Side	AP mm	ML mm
880-030/30	880-080/30	3	right	56	61
880-030/40	880-080/40	4	right	59	63.5
880-030/50	880-080/50	5	right	62	66
880-030/60	880-080/60	6	right	65	69
880-030/70	880-080/70	7	right	68	72
880-030/80	880-080/80	8	right	71	75
880-031/30	880-081/30	3	left	56	61
880-031/40	880-081/40	4	left	59	63.5
880-031/50	880-081/50	5	left	62	66
880-031/60	880-081/60	6	left	65	69
880-031/70	880-081/70	7	left	68	72
880-031/80	880-081/80	8	left	71	75

* LINK PorEx: TiNbN = Titanium Niobium Nitride (gold color).
** Cone Adapter made of Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee Femoral Components – CCK Macro-Sizes

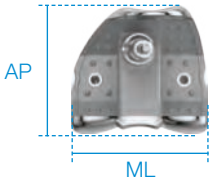
cemented



REF MAT CoCrMo	REF MAT CoCrMo LINK PorEx*	Size	Side	AP mm	ML mm
880-030/90#	880-080/90#	9	right	74	78
880-030/X0#	880-080/X0#	10	right	77	81
880-031/90#	880-081/90#	9	left	74	78
880-031/X0#	880-081/X0#	10	left	77	81

LinkSymphoKnee Femoral Components – CCK Wide-Sizes

cemented



REF MAT CoCrMo	REF MAT CoCrMo LINK PorEx*	Size	Side	AP mm	ML mm
880-030/35#	880-080/35##	3+	right	56	63.5
880-030/45#	880-080/45#	4+	right	59	66
880-030/55#	880-080/55#	5+	right	62	69
880-031/35#	880-081/35#	3+	left	56	63.5
880-031/45#	880-081/45#	4+	left	59	66
880-031/55#	880-081/55#	5+	left	62	69

* LINK PorEx: TiNbN = Titanium Niobium Nitride (gold color).
** Cone Adapter made of Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee Tibial Components – Modular Micro-Sizes

cemented

REF MAT CoCrMo	REF MAT CoCrMo LINK PorEx*	Size	AP mm	ML mm
880-050/10#	880-100/10#	1	37.5	59
880-050/20#	880-100/20#	2	40	62.5

LinkSymphoKnee Tibial Components – Modular

cemented

REF MAT CoCrMo	REF MAT CoCrMo LINK PorEx*	Size	AP mm	ML mm
880-050/30	880-100/30	3	42.5	66
880-050/40	880-100/40	4	45	69.5
880-050/50	880-100/50	5	47.5	73
880-050/60	880-100/60	6	50	76.5
880-050/70	880-100/70	7	52.5	80
880-050/80	880-100/80	8	55	83.5

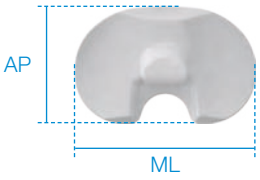
LinkSymphoKnee Tibial Components – Modular Macro-Sizes

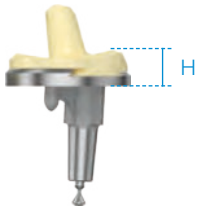
cemented

REF MAT CoCrMo	REF MAT CoCrMo LINK PorEx*	Size	AP mm	ML mm
880-050/90#	880-100/90#	9	57.5	87
880-050/X0#	880-100/X0#	10	60	90.5

* LINK PorEx: TiNbN = Titanium Niobium Nitride (gold color).
** Cone Adapter made of Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee Articulating Surfaces – CCK Micro-Sizes

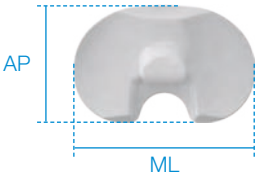


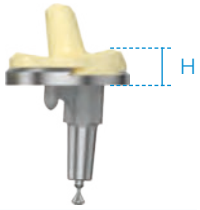


REF MAT UHMWPE	REF MAT E-Dur*	Size	AP mm	ML mm	Height (H) mm
880-231/10	880-271/10	1-2	37.5	59	10
880-231/12	880-271/12	1-2	37.5	59	12
880-231/14	880-271/14	1-2	37.5	59	14
880-231/16	880-271/16	1-2	37.5	59	16
880-231/18	880-271/18	1-2	37.5	59	18
880-231/20	880-271/20	1-2	37.5	59	20
880-231/22	880-271/22	1-2	37.5	59	22
880-231/24	880-271/24	1-2	37.5	59	24
880-232/10	880-272/10	1-2up	37.5	59	10
880-232/12	880-272/12	1-2up	37.5	59	12
880-232/14	880-272/14	1-2up	37.5	59	14
880-232/16	880-272/16	1-2up	37.5	59	16
880-232/18	880-272/18	1-2up	37.5	59	18
880-232/20	880-272/20	1-2up	37.5	59	20
880-232/22	880-272/22	1-2up	37.5	59	22
880-232/24	880-272/24	1-2up	37.5	59	24

* E-Dur = Highly crosslinked UHMWPE (X-Linked PE) with Vit-E

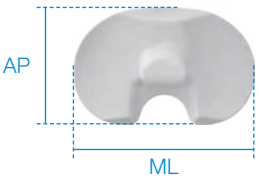
LinkSymphoKnee Articulating Surfaces – CCK

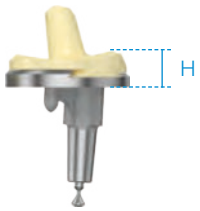




REF MAT UHMWPE	REF MAT E-Dur*	Size	AP mm	ML mm	Height (H) mm
880-233/10	880-273/10	3-4	42.5	66	10
880-233/12	880-273/12	3-4	42.5	66	12
880-233/14	880-273/14	3-4	42.5	66	14
880-233/16	880-273/16	3-4	42.5	66	16
880-233/18	880-273/18	3-4	42.5	66	18
880-233/20	880-273/20	3-4	42.5	66	20
880-233/22	880-273/22	3-4	42.5	66	22
880-233/24	880-273/24	3-4	42.5	66	24
880-234/10	880-274/10	3-4down	42.5	66	10
880-234/12	880-274/12	3-4down	42.5	66	12
880-234/14	880-274/14	3-4down	42.5	66	14
880-234/16	880-274/16	3-4down	42.5	66	16
880-234/18	880-274/18	3-4down	42.5	66	18
880-234/20	880-274/20	3-4down	42.5	66	20
880-234/22	880-274/22	3-4down	42.5	66	22
880-234/24	880-274/24	3-4down	42.5	66	24
880-235/10	880-275/10	5-6	47.5	73	10
880-235/12	880-275/12	5-6	47.5	73	12
880-235/14	880-275/14	5-6	47.5	73	14
880-235/16	880-275/16	5-6	47.5	73	16
880-235/18	880-275/18	5-6	47.5	73	18
880-235/20	880-275/20	5-6	47.5	73	20
880-235/22	880-275/22	5-6	47.5	73	22
880-235/24	880-275/24	5-6	47.5	73	24
880-237/10	880-277/10	7-8	52.5	80	10
880-237/12	880-277/12	7-8	52.5	80	12
880-237/14	880-277/14	7-8	52.5	80	14
880-237/16	880-277/16	7-8	52.5	80	16
880-237/18	880-277/18	7-8	52.5	80	18
880-237/20	880-277/20	7-8	52.5	80	20
880-237/22	880-277/22	7-8	52.5	80	22
880-237/24	880-277/24	7-8	52.5	80	24

LinkSymphoKnee Articulating Surfaces – CCK Macro-Sizes

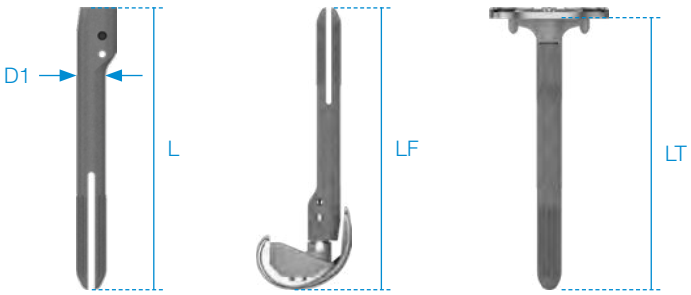




REF MAT UHMWPE	REF MAT E-Dur*	Size	AP mm	ML mm	Height (H) mm
880-239/10	880-279/10	9-10	57.5	87	10
880-239/12	880-279/12	9-10	57.5	87	12
880-239/14	880-279/14	9-10	57.5	87	14
880-239/16	880-279/16	9-10	57.5	87	16
880-239/18	880-279/18	9-10	57.5	87	18
880-239/20	880-279/20	9-10	57.5	87	20
880-239/22	880-279/22	9-10	57.5	87	22
880-239/24	880-279/24	9-10	57.5	87	24

* E-Dur = Highly crosslinked UHMWPE (X-Linked PE) with Vit-E

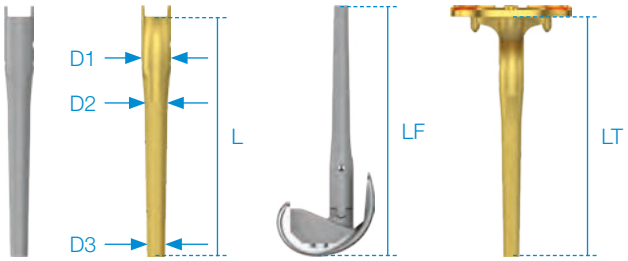
LinkSymphoKnee – Cylindrical Press-Fit Stems



REF Straight MAT Tilastan*	REF 3 mm Offset MAT Tilastan*	REF 6 mm Offset MAT Tilastan*	D1 mm	L mm	LF mm	LT mm
880-601/10	880-611/10	880-621/10	10	80	115	98
880-601/11	880-611/11	880-621/11	11	80	115	98
880-601/12	880-611/12	880-621/12	12	80	115	98
880-601/13	880-611/13	880-621/13	13	80	115	98
880-601/14	880-611/14	880-621/14	14	80	115	98
880-601/15	880-611/15	880-621/15	15	80	115	98
880-601/16	880-611/16	880-621/16	16	80	115	98
880-601/17	880-611/17	880-621/17	17	80	115	98
880-601/18	880-611/18	880-621/18	18	80	115	98
880-603/10	880-613/10	880-623/10	10	120	155	138
880-603/11	880-613/11	880-623/11	11	120	155	138
880-603/12	880-613/12	880-623/12	12	120	155	138
880-603/13	880-613/13	880-623/13	13	120	155	138
880-603/14	880-613/14	880-623/14	14	120	155	138
880-603/15	880-613/15	880-623/15	15	120	155	138
880-603/16	880-613/16	880-623/16	16	120	155	138
880-603/17	880-613/17	880-623/17	17	120	155	138
880-603/18	880-613/18	880-623/18	18	120	155	138
880-603/19	880-613/19	880-623/19	19	120	155	138
880-603/20	880-613/20	880-623/20	20	120	155	138
880-605/11	880-615/11	880-625/11	11	160	195	178
880-605/12	880-615/12	880-625/12	12	160	195	178
880-605/13	880-615/13	880-625/13	13	160	195	178
880-605/14	880-615/14	880-625/14	14	160	195	178
880-605/15	880-615/15	880-625/15	15	160	195	178
880-605/16	880-615/16	880-625/16	16	160	195	178
880-605/17	880-615/17	880-625/17	17	160	195	178
880-605/18	880-615/18	880-625/18	18	160	195	178
880-605/19	880-615/19	880-625/19	19	160	195	178
880-605/20	880-615/20	880-625/20	20	160	195	178
880-607/12#	880-617/12#	880-627/12#	12	200	235	218
880-607/14#	880-617/14#	880-627/14#	14	200	235	218
880-607/16#	880-617/16#	880-627/16#	16	200	235	218
880-607/18#	880-617/18#	880-627/18#	18	200	235	218
880-607/20#	880-617/20#	880-627/20#	20	200	235	218
880-607/22#	880-617/22#	880-627/22#	22	200	235	218
880-608/12#	880-618/12#	880-628/12#	12	220	255	238
880-608/14#	880-618/14#	880-628/14#	14	220	255	238
880-608/16#	880-618/16#	880-628/16#	16	220	255	238
880-608/18#	880-618/18#	880-628/18#	18	220	255	238
880-608/20#	880-618/20#	880-628/20#	20	220	255	238
880-608/22#	880-618/22#	880-628/22#	22	220	255	238
880-609/12#	880-619/12#	880-629/12#	12	240	275	258
880-609/14#	880-619/14#	880-629/14#	14	240	275	258
880-609/16#	880-619/16#	880-629/16#	16	240	275	258
880-609/18#	880-619/18#	880-629/18#	18	240	275	258
880-609/20#	880-619/20#	880-629/20#	20	240	275	258
880-609/22#	880-619/22#	880-629/22#	22	240	275	258

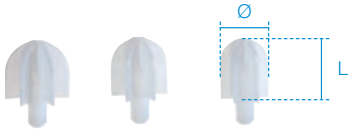
* Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee – Conical Cemented Stems



REF MAT CoCrMo	REF MAT CoCrMo/ LINK PorEx*	REF 3 mm Offset MAT CoCrMo	REF 3 mm Offset MAT CoCrMo/ LINK PorEx*	REF 6 mm Offset MAT CoCrMo	REF 6 mm Offset MAT CoCrMo/ LINK PorEx*	D1 mm	D2 mm	D3 mm	L mm	LF mm	LT mm
15-2950/17	15-3950/17					16	11	8	50	85	68
15-2950/12	15-3950/12	15-4302/08	15-5302/08	15-4602/08	15-5602/08	16	10	7	80	115	98
15-2950/18	15-3950/18	15-4304/08	15-5304/08	15-4604/08	15-5604/08	16	11	8	80	115	98
15-2950/27	15-3950/27	15-4305/08	15-5305/08	15-4605/08	15-5605/08	16	13	10	80	115	98
15-2950/36	15-3950/36	15-4306/08	15-5306/08	15-4606/08	15-5606/08	16	15	12	80	115	98
15-2950/13	15-3950/13					16	10	7	95	130	113
15-2950/19	15-3950/19					16	11	8	95	130	113
15-2950/28	15-3950/28					16	13	10	95	130	113
15-2950/37	15-3950/37					16	15	12	95	130	113
15-2950/14	15-3950/14	15-4302/12	15-5302/12	15-4602/12	15-5602/12	16	10	7	120	155	138
15-2950/20	15-3950/20	15-4304/12	15-5304/12	15-4604/12	15-5604/12	16	11	8	120	155	138
15-2950/29	15-3950/29	15-4305/12	15-5305/12	15-4605/12	15-5605/12	16	13	10	120	155	138
15-2950/38	15-3950/38	15-4306/12	15-5306/12	15-4606/12	15-5606/12	16	15	12	120	155	138
15-2950/15	15-3950/15					16	10	7	135	170	153
15-2950/21	15-3950/21					16	11	8	135	170	153
15-2950/30	15-3950/30					16	13	10	135	170	153
15-2950/39	15-3950/39					16	15	12	135	170	153
15-2950/16	15-3950/16	15-4302/16	15-5302/16	15-4602/16	15-5602/16	16	10	7	160	195	178
15-2950/22	15-3950/22	15-4304/16	15-5304/16	15-4604/16	15-5604/16	16	11	8	160	195	178
15-2950/31	15-3950/31	15-4305/16	15-5305/16	15-4605/16	15-5605/16	16	13	10	160	195	178
15-2950/40	15-3950/40	15-4306/16	15-5306/16	15-4606/16	15-5606/16	16	15	12	160	195	178
15-2950/44#	15-3950/44#	15-4304/18#	15-5304/18#	15-4604/18#	15-5604/18#	16	11	8	180	215	198
15-2950/45#	15-3950/45#	15-4305/18#	15-5305/18#	15-4605/18#	15-5605/18#	16	13	10	180	215	198
15-2950/46#	15-3950/46#	15-4306/18#	15-5306/18#	15-4606/18#	15-5606/18#	16	15	12	180	215	198
15-2950/23#	15-3950/23#					16	11	8	200	235	218
15-2950/32#	15-3950/32#					16	13	10	200	235	218
15-2950/41#	15-3950/41#					16	15	12	200	235	218
15-2950/24#	15-3950/24#	15-4304/24#	15-5304/24#	15-4604/24#	15-5604/24#	16	11	8	240	275	258
15-2950/33#	15-3950/33#	15-4305/24#	15-5305/24#	15-4605/24#	15-5605/24#	16	13	10	240	275	258
15-2950/42#	15-3950/42#	15-4306/24#	15-5306/24#	15-4606/24#	15-5606/24#	16	15	12	240	275	258
15-2950/25#	15-3950/25#					16	11	8	280	315	298
15-2950/34#	15-3950/34#					16	13	10	280	315	298
15-2950/43#	15-3950/43#					16	15	12	280	315	298

LinkSymphoKnee – Centralizers



REF MAT UHMWPE	Ø mm	Length (L) mm
15-2975/12	12	15
15-2975/14	14	15
15-2975/16	16	15
15-2975/18	18	15
15-2975/20	20	15
15-2975/22	22	15
15-2975/24	24	15

* LINK PorEx: TiNbN = Titanium Niobium Nitride (gold color).
# Upon request

LinkSymphoKnee – Cylindrical Cementless Stems

REF MAT Tilastan*	REF 3 mm Offset MAT Tilastan*	REF 6 mm Offset MAT Tilastan*	D1 mm	D2 mm	D3 mm	L mm	LF mm	LT mm
15-2951/43#	15-4310/08#	15-4610/08#	16	10	10	80	115	98
15-2951/44#	15-4311/08#	15-4611/08#	16	11	11	80	115	98
15-2951/45#	15-4312/08#	15-4612/08#	16	12	12	80	115	98
15-2951/46#	15-4313/08#	15-4613/08#	16	13	13	80	115	98
15-2951/47#	15-4314/08#	15-4614/08#	16	14	14	80	115	98
15-2951/48#	15-4315/08#	15-4615/08#	16	15	15	80	115	98
15-2951/49#	15-4316/08#	15-4616/08#	16	16	16	80	115	98
15-2951/50#	15-4317/08#	15-4617/08#	17	17	17	80	115	98
15-2951/51#	15-4318/08#	15-4618/08#	18	18	18	80	115	98
15-2951/54#	15-4310/12#	15-4610/12#	16	10	10	120	155	138
15-2951/55#	15-4311/12#	15-4611/12#	16	11	11	120	155	138
15-2951/72#	15-4312/12#	15-4612/12#	16	12	12	120	155	138
15-2951/56#	15-4313/12#	15-4613/12#	16	13	13	120	155	138
15-2951/78#	15-4314/12#	15-4614/12#	16	14	14	120	155	138
15-2951/57#	15-4315/12#	15-4615/12#	16	15	15	120	155	138
15-2951/84#	15-4316/12#	15-4616/12#	16	16	16	120	155	138
15-2951/58#	15-4317/12#	15-4617/12#	17	17	17	120	155	138
15-2951/90#	15-4318/12#	15-4618/12#	18	18	18	120	155	138
15-2951/59#	15-4319/12#	15-4619/12#	19	19	19	120	155	138
15-2951/60#	15-4320/12#	15-4620/12#	20	20	20	120	155	138
15-2951/63#	15-4311/16#	15-4611/16#	16	11	11	160	195	178
15-2951/73#	15-4312/16#	15-4612/16#	16	12	12	160	195	178
15-2951/64#	15-4313/16#	15-4613/16#	16	13	13	160	195	178
15-2951/79#	15-4314/16#	15-4614/16#	16	14	14	160	195	178
15-2951/65#	15-4315/16#	15-4615/16#	16	15	15	160	195	178
15-2951/85#	15-4316/16#	15-4616/16#	16	16	16	160	195	178
15-2951/66#	15-4317/16#	15-4617/16#	17	17	17	160	195	178
15-2951/91#	15-4318/16#	15-4618/16#	18	18	18	160	195	178
15-2951/67#	15-4319/16#	15-4619/16#	19	19	19	160	195	178
15-2951/68#	15-4320/16#	15-4620/16#	20	20	20	160	195	178
15-2951/74#			16	12	12	200	235	218
15-2951/80#			16	14	14	200	235	218
15-2951/86#			16	16	16	200	235	218
15-2951/92#			18	18	18	200	235	218
15-2951/75#			16	12	12	240	275	258
15-2951/81#			16	14	14	240	275	258
15-2951/87#			16	16	16	240	275	258
15-2951/93#			18	18	18	240	275	258

* Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee – Conical Cementless Stems

REF MAT Tilastan*	D1 mm	D2 mm	D3 mm	L mm	LF mm	LT mm
15-2953/00#	16	12	9	128	163	146
15-2953/01#	16	13	10	128	163	146
15-2953/02#	16	14	11	128	163	146
15-2953/03#	16	15	12	128	163	146
15-2953/04#	16	16	13	128	163	146
15-2953/05#	17	17	14	128	163	146
15-2953/06#	18	18	15	128	163	146
15-2953/07#	19	19	16	128	163	146
15-2953/08#	20	20	17	128	163	146
15-2953/09#	21	21	18	128	163	146
15-2953/10#	22	22	19	128	163	146
15-2953/11#	23	23	20	128	163	146
15-2953/12#	24	24	21	128	163	146
15-2954/00#	16	12	9	158	193	176
15-2954/01#	16	13	10	158	193	176
15-2954/02#	16	14	11	158	193	176
15-2954/03#	16	15	12	158	193	176
15-2954/04#	16	16	13	158	193	176
15-2954/05#	17	17	14	158	193	176
15-2954/06#	18	18	15	158	193	176
15-2954/07#	19	19	16	158	193	176
15-2954/08#	20	20	17	158	193	176
15-2954/09#	21	21	18	158	193	176
15-2954/10#	22	22	19	158	193	176
15-2954/11#	23	23	20	158	193	176
15-2954/12#	24	24	21	158	193	176
15-2958/00#	16	12	9	188	223	206
15-2958/01#	16	13	10	188	223	206
15-2958/02#	16	14	11	188	223	206
15-2958/03#	18	15	12	188	223	206
15-2958/04#	16	16	13	188	223	206
15-2958/05#	17	17	14	188	223	206
15-2958/06#	18	18	15	188	223	206
15-2958/07#	19	19	16	188	223	206
15-2958/08#	20	20	17	188	223	206
15-2958/09#	21	21	18	188	223	206
15-2958/10#	22	22	19	188	223	206
15-2958/11#	23	23	20	188	223	206
15-2958/12#	24	24	21	188	223	206

* Tilastan = Ti6Al4V
# Upon request

Replacement Sets for Cone Adapter

REF MAT Tilastan* + CoCrMo	REF MAT Tilastan* + CoCrMo/ LINK PorEx**
15-6118/29	15-6118/30

Each package contains:

- One Cone Adapter
- Two Security Screws

* Tilastan = Ti6Al4V
** LINK PorEx: TiNbN = Titanium Niobium Nitride (gold color).

LinkSymphoKnee Femoral Augments – Distal, Micro-Sizes

cemented

REF MAT Tilastan*	Size	Side	Height mm
880-300/11#	0	Medial-Right/Lateral-Left	5
880-300/21#	0	Lateral-Right/Medial-Left	5
880-301/11#	1-2	Medial-Right/Lateral-Left	5
880-301/21#	1-2	Lateral-Right/Medial-Left	5

LinkSymphoKnee Femoral Augments – Distal

cemented

REF MAT Tilastan*	Size	Side	Height mm
880-303/11	3-4	Medial-Right/Lateral-Left	5
880-303/12	3-4	Medial-Right/Lateral-Left	10
880-303/21	3-4	Lateral-Right/Medial-Left	5
880-303/22	3-4	Lateral-Right/Medial-Left	10
880-305/11	5-6	Medial-Right/Lateral-Left	5
880-305/12	5-6	Medial-Right/Lateral-Left	10
880-305/21	5-6	Lateral-Right/Medial-Left	5
880-305/22	5-6	Lateral-Right/Medial-Left	10
880-307/11	7-8	Medial-Right/Lateral-Left	5
880-307/12	7-8	Medial-Right/Lateral-Left	10
880-307/21	7-8	Lateral-Right/Medial-Left	5
880-307/22	7-8	Lateral-Right/Medial-Left	10

LinkSymphoKnee Femoral Augments – Distal, Macro-Sizes

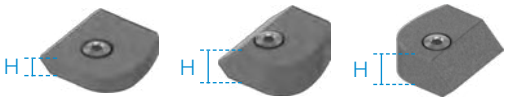
cemented

REF MAT Tilastan*	Size	Side	Height mm
880-309/11#	9-10	Medial-Right/Lateral-Left	5
880-309/12#	9-10	Medial-Right/Lateral-Left	10
880-309/21#	9-10	Lateral-Right/Medial-Left	5
880-309/22#	9-10	Lateral-Right/Medial-Left	10

* Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee Femoral Augments – Posterior, Micro-Sizes

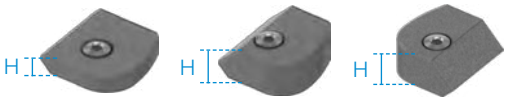
cemented



REF MAT Tilastan*	Size	Side	Height mm
880-310/11#	0	Medial-Right/Lateral-Left	5
880-310/21#	0	Lateral-Right/Medial-Left	5
880-311/11#	1-2	Medial-Right/Lateral-Left	5
880-311/21#	1-2	Lateral-Right/Medial-Left	5

LinkSymphoKnee Femoral Augments – Posterior

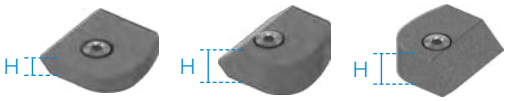
cemented



REF MAT Tilastan*	Size	Side	Height mm
880-313/11	3-4	Medial-Right/Lateral-Left	5
880-313/12	3-4	Medial-Right/Lateral-Left	10
880-313/21	3-4	Lateral-Right/Medial-Left	5
880-313/22	3-4	Lateral-Right/Medial-Left	10
880-315/11	5-6	Medial-Right/Lateral-Left	5
880-315/12	5-6	Medial-Right/Lateral-Left	10
880-315/21	5-6	Lateral-Right/Medial-Left	5
880-315/22	5-6	Lateral-Right/Medial-Left	10
880-317/11	7-8	Medial-Right/Lateral-Left	5
880-317/12	7-8	Medial-Right/Lateral-Left	10
880-317/21	7-8	Lateral-Right/Medial-Left	5
880-317/22	7-8	Lateral-Right/Medial-Left	10

LinkSymphoKnee Femoral Augments – Posterior, Macro-Sizes

cemented

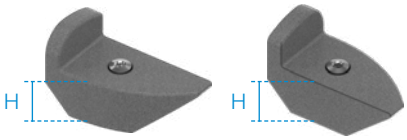


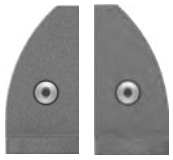
REF MAT Tilastan*	Size	Side	Height mm
880-319/11#	9-10	Medial-Right/Lateral-Left	5
880-319/12#	9-10	Medial-Right/Lateral-Left	10
880-319/21#	9-10	Lateral-Right/Medial-Left	5
880-319/22#	9-10	Lateral-Right/Medial-Left	10

* Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee Femoral Augments – L-Shaped, Micro-Sizes

cemented

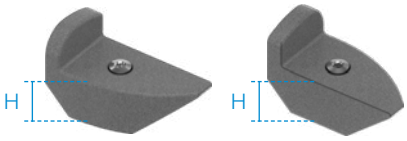


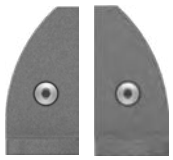


REF MAT Tilastan*	Size	Side	Height mm
880-320/12#	0	Medial-Right/Lateral-Left	10
880-320/22#	0	Lateral-Right/Medial-Left	10
880-321/12#	1-2	Medial-Right/Lateral-Left	10
880-321/22#	1-2	Lateral-Right/Medial-Left	10

LinkSymphoKnee Femoral Augments – L-Shaped

cemented

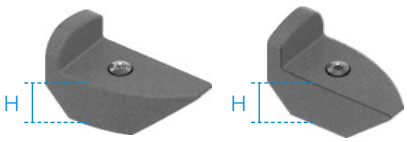


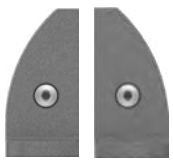


REF MAT Tilastan*	Size	Side	Height mm
880-323/13	3-4	Medial-Right/Lateral-Left	15
880-323/23	3-4	Lateral-Right/Medial-Left	15
880-325/13	5-6	Medial-Right/Lateral-Left	15
880-325/23	5-6	Lateral-Right/Medial-Left	15
880-327/13	7-8	Medial-Right/Lateral-Left	15
880-327/23	7-8	Lateral-Right/Medial-Left	15

LinkSymphoKnee Femoral Augments – L-Shaped, Macro-Sizes

cemented





REF MAT Tilastan*	Size	Side	Height mm
880-329/13#	9-10	Medial-Right/Lateral-Left	15
880-329/23#	9-10	Lateral-Right/Medial-Left	15

* Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee Tibial Augments – Micro-Sizes

cemented

REF MAT Tilastan*	Size	Side	Height mm
880-331/11#	1-2	Medial-Right/Lateral-Left	5
880-331/12#	1-2	Medial-Right/Lateral-Left	10
880-331/13#	1-2	Medial-Right/Lateral-Left	15
880-331/21#	1-2	Lateral-Right/Medial-Left	5
880-331/22#	1-2	Lateral-Right/Medial-Left	10
880-331/23#	1-2	Lateral-Right/Medial-Left	15

LinkSymphoKnee Tibial Augments

cemented

REF MAT Tilastan*	Size	Side	Height mm
880-333/11	3-4	Medial-Right/Lateral-Left	5
880-333/12	3-4	Medial-Right/Lateral-Left	10
880-333/13	3-4	Medial-Right/Lateral-Left	15
880-333/21	3-4	Lateral-Right/Medial-Left	5
880-333/22	3-4	Lateral-Right/Medial-Left	10
880-333/23	3-4	Lateral-Right/Medial-Left	15
880-335/11	5-6	Medial-Right/Lateral-Left	5
880-335/12	5-6	Medial-Right/Lateral-Left	10
880-335/13	5-6	Medial-Right/Lateral-Left	15
880-335/21	5-6	Lateral-Right/Medial-Left	5
880-335/22	5-6	Lateral-Right/Medial-Left	10
880-335/23	5-6	Lateral-Right/Medial-Left	15
880-337/11	7-8	Medial-Right/Lateral-Left	5
880-337/12	7-8	Medial-Right/Lateral-Left	10
880-337/13	7-8	Medial-Right/Lateral-Left	15
880-337/21	7-8	Lateral-Right/Medial-Left	5
880-337/22	7-8	Lateral-Right/Medial-Left	10
880-337/23	7-8	Lateral-Right/Medial-Left	15

LinkSymphoKnee Tibial Augments – Macro-Sizes

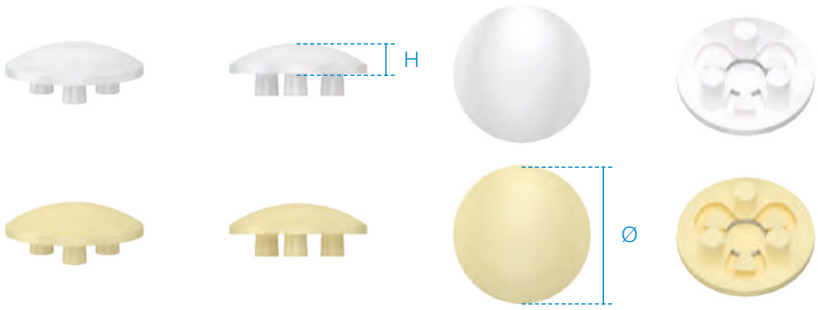
cemented

REF MAT Tilastan*	Size	Side	Height mm
880-339/11#	9-10	Medial-Right/Lateral-Left	5
880-339/12#	9-10	Medial-Right/Lateral-Left	10
880-339/13#	9-10	Medial-Right/Lateral-Left	15
880-339/21#	9-10	Lateral-Right/Medial-Left	5
880-339/22#	9-10	Lateral-Right/Medial-Left	10
880-339/23#	9-10	Lateral-Right/Medial-Left	15

* Tilastan = Ti6Al4V
# Upon request

LinkSymphoKnee Patella Components – 3-peg

cemented



REF MAT UHMWPE	REF MAT E-Dur*	Ø mm	Height (H) mm
880-501/25	880-511/25	25	6
880-501/28	880-511/28	28	6
880-501/31	880-511/31	31	7
880-501/34	880-511/34	34	8
880-501/37	880-511/37	37	9
880-501/40	880-511/40	40	10

* E-Dur = Highly crosslinked UHMWPE (X-Linked PE) with Vit-E

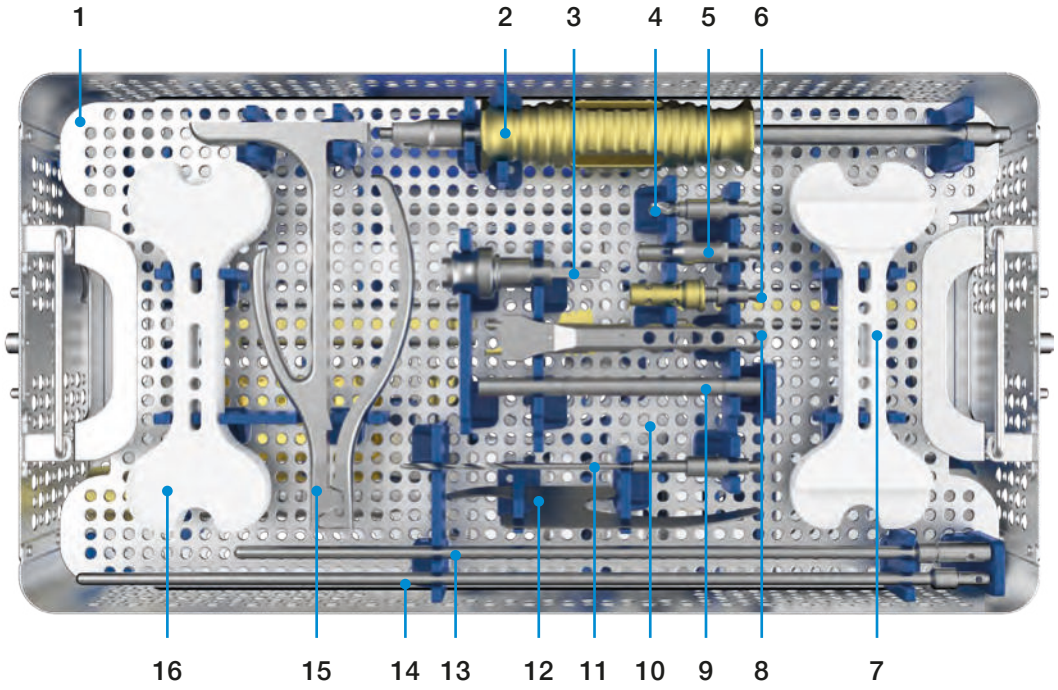
LinkSymphoKnee Instrument Sets: Overview

REF	CCK Instruments	CCK Basic Kit	CCK Micro-Sizes	CCK Macro-Sizes	CCK Wide-Sizes
881-001/00	General Instruments **– Blue feet**	X	X	X	X
881-005/10	CCK Articulating Surface Trials **– Yellow feet**	X	X	X	X
881-006/10	CCK Instruments & Trials **– Yellow feet**	X	X	X	X
881-007/10	CCK Preparation Instruments **– Yellow feet**	X	X	X	X
881-006/00	CCK Instruments & Trials Micro-Sizes **– Yellow feet**		X		
881-007/00	CCK Preparation Instruments Micro-Sizes **– Yellow feet**		X		
881-006/20	CCK Instruments & Trials Macro-Sizes **– Yellow feet**			X	
881-007/20	CCK Preparation Instruments Macro-Sizes **– Yellow feet**			X	
881-006/30	CCK Instruments & Trials Wide-Sizes **– Yellow feet**				X
	Additional Instrument Sets:				
881-008/00	Press-Fit Stem Reamers **– Yellow feet**				
881-008/10	Press-Fit Stem Trials **– Yellow feet**				
151-07/00	Ball Reamers & Trial Centralizers **– Green feet**				
151-08/00	Conical Cemented Stem Trials **– Yellow feet**				
151-09/00	Conical Cementless Stem Instruments & Trials, 128 mm **– Yellow feet**				
151-10/00	Conical Cementless Stem Instruments & Trials, 158 mm **– Yellow feet**				
151-11/00	Conical Cementless Stem Instruments & Trials, 188 mm **– Yellow feet**				
881-009/00	Patella Instruments & Trials **– Blue feet**				

LinkSymphoKnee Instruments upon request

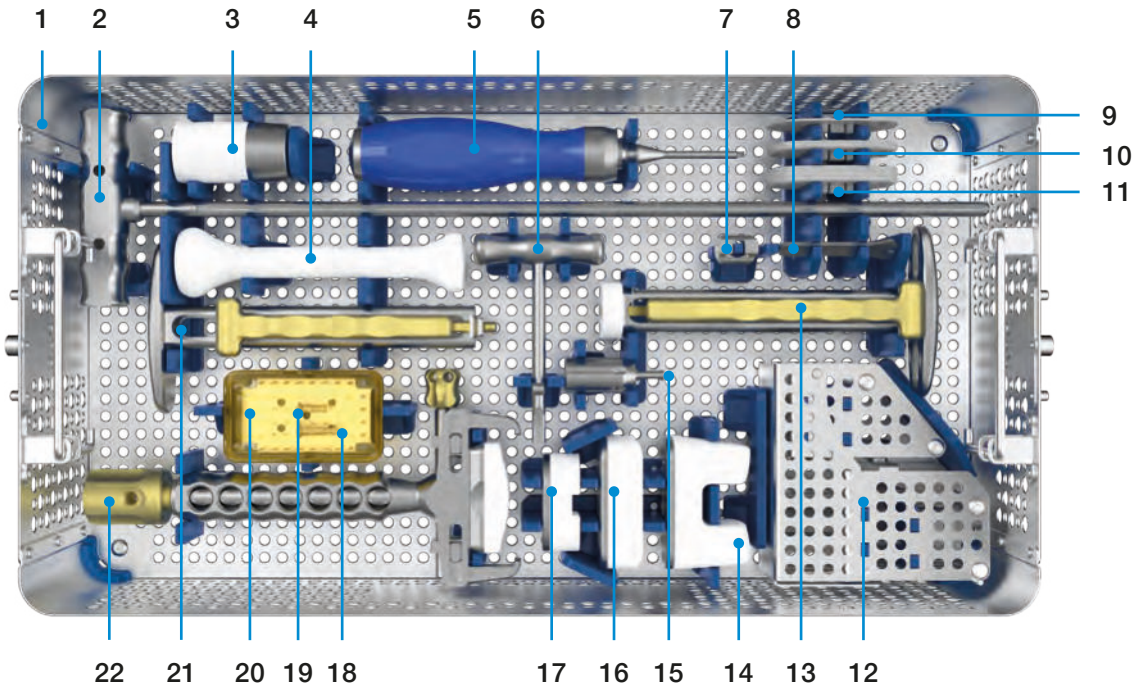
REF	Instruments upon request
445-126/65	Thread Pins, L = 65 mm, Ø 3.0 mm
445-126/95	Thread Pins, L = 95 mm, Ø 3.0 mm
445-127/35	Headed Thread Pins, L = 35 mm, Ø 3.0 mm
445-127/65	Headed Thread Pins, L = 65 mm, Ø 3.0 mm

881-001/00 General Instruments – Blue feet



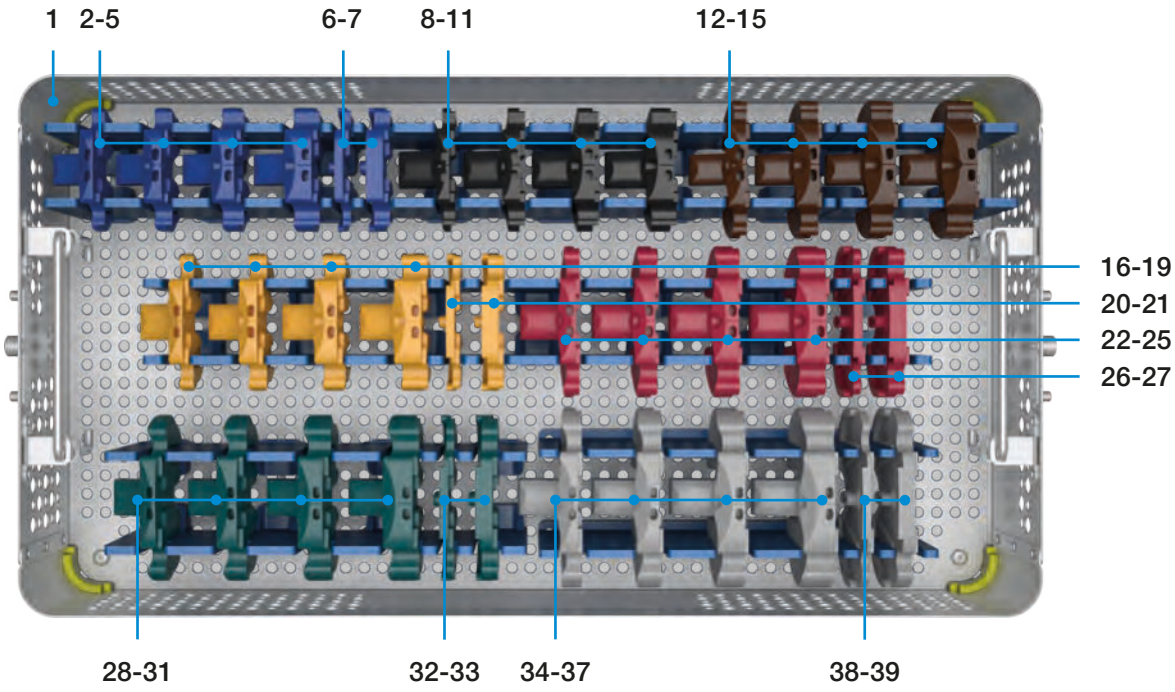
			Qty.
1	881-010/00	**LinkSymphoKnee General Instruments Tray** – Upper Tray	1
2	445-206/00	**Slaphammer**	1
3	16-3283/01	**Adapter,** Hudson/Jakobs Fitting (E)	1
4	881-012/00	**Universal Drill,** Hudson Fitting	1
5	445-122/00	**Power Driver,** Hudson Fitting	1
6	445-122/10	**Power Driver with snap lock,** Hudson Fitting	1
7	881-011/02	**Spacer 4-in-1 Cut, Flexion,** H = 10-12 mm	1
8	445-112/00	**Handle,** Quick Connect	1
9	445-121/00	**Pin Inserter,** universal	1
10	319-505/00B	**Step Drill,** with Hudson Fitting (B)	1
11	15-2040/02B	**Twist Drill 3 mm,** Hudson Fitting (B)	1
12	317-802/53	**Cutting Template**	1
13	445-113/10	**Alignment Rod,** extramedullary, short	1
14	445-113/20	**Alignment Rod,** extramedullary, long	1
15	445-120/00	**Pin Inserter/Extractor,** universal	1
16	881-010/02	**Spacer Flexion/Extension**, H = 10-12 mm	1

881-001/00 General Instruments – Blue feet



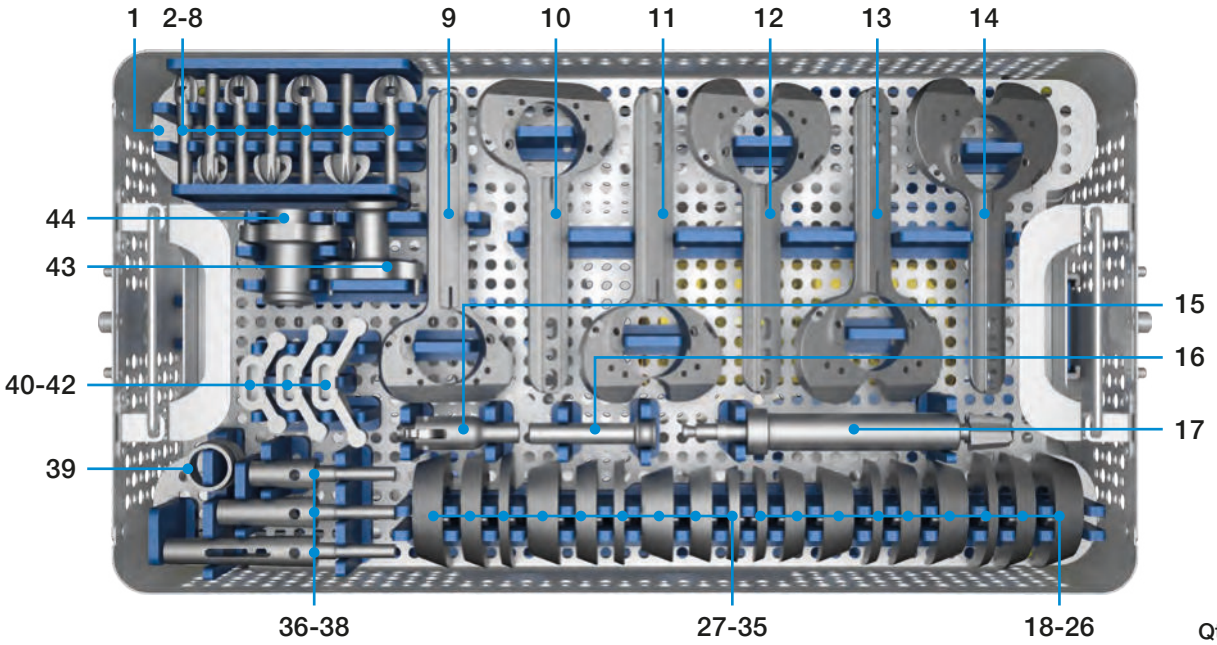
			Qty.
1	881-010/00	**LinkSymphoKnee General Instruments Tray** – Lower Tray	1
2	445-101/00	**Intramedullary Rod,** Ø 8.0 mm	1
3	881-040/99	**Tibial/Femoral Coupling Base Tip**	1
4	881-040/01	**Articulating Surface Impactor**	1
5	15-2545	**Torque Wrench,** hex 2.5 mm	1
6	881-019/00	**Articulating Surface Extractor**	1
7	881-043/00	**Tibial Extractor Tip**	1
8	151-131/00	**Screwdriver for Cone Adapter**	1
9	881-019/01	**Shim, Spacer,** H = 1 mm	1
10	881-019/04	**Shim, Spacer,** H = 4 mm	1
11	881-019/08	**Shim, Spacer,** H = 8 mm	1
12	445-123/00	**Pin Box**	1
	445-124/65	**Drill Pin,** L = 65 mm, Ø 3.0 mm	4
	445-124/95	**Drill Pin,** L = 95 mm, Ø 3.0 mm	4
	445-125/35	**Drill Pin,** Headed, L = 35 mm, Ø 3.0 mm	4
	445-125/65	**Drill Pin,** Headed, L = 65 mm, Ø 3.0 mm	4
	445-128/25	**Bone Nail,** L = 25 mm, Ø 3.0 mm	4
	445-128/35	**Bone Nail,** L = 35 mm, Ø 3.0 mm	4
	445-128/65	**Bone Nail,** L = 65 mm, Ø 3.0 mm	4
13	881-042/00	**Tibial Inserter**	1
14	881-042/90	**Tibial Impactor Tip**, All Poly	1
15	151-132/00	**Modular Extractor Tip**	1
16	881-041/99	**Femoral Impactor Tip**	1
17	881-042/99	**Tibial Impactor Tip**	1
18	881-053/00	**Locking Screw Tibial Plateau,** long	1
19	881-052/00	**Locking Screw Tibial Plateau,** short	1
20	319-601/30	**Sterilizing Box,** small	1
21	445-207/00	**Handle,** Impactor/Extractor	1
22	881-041/00	**Femoral Inserter/Extractor**	1

881-005/10 CCK Articulating Surface Trials – Yellow feet



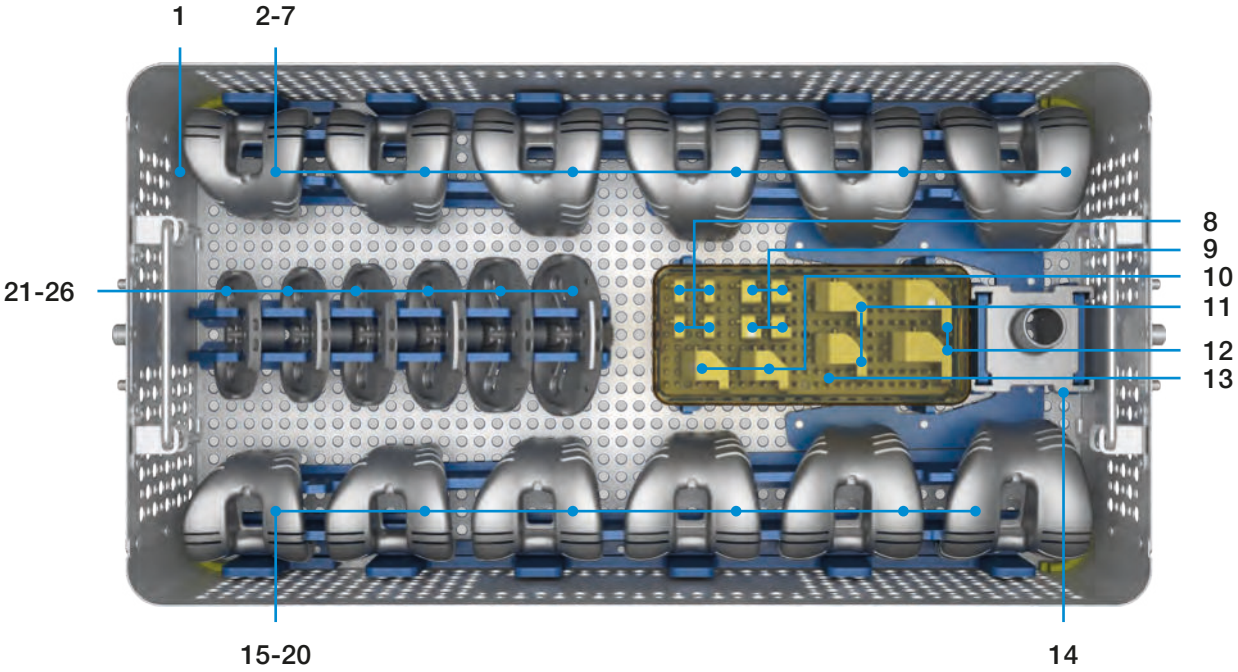
			Qty.
1	881-050/10	**LinkSymphoKnee CCK Articulating Surface Trials Tray**	1
2	881-251/10	**Trial Plateau, CCK,** Size 1-2, H = 10 mm	1
3	881-251/12	**Trial Plateau, CCK,** Size 1-2, H = 12 mm	1
4	881-251/14	**Trial Plateau, CCK,** Size 1-2, H = 14 mm	1
5	881-251/16	**Trial Plateau, CCK,** Size 1-2, H = 16 mm	1
6	881-220/41	**Shim, Trial Plateau,** H = +4 mm, Size 1-2	1
7	881-250/81	**Shim, Trial Plateau, CCK,** H = +8 mm, Size 1-2	1
8	881-252/10	**Trial Plateau, CCK,** Size 1-2up, H = 10 mm	1
9	881-252/12	**Trial Plateau, CCK,** Size 1-2up, H = 12 mm	1
10	881-252/14	**Trial Plateau, CCK,** Size 1-2up, H = 14 mm	1
11	881-252/16	**Trial Plateau, CCK,** Size 1-2up, H = 16 mm	1
12	881-254/10	**Trial Plateau, CCK,** Size 3-4down, H = 10 mm	1
13	881-254/12	**Trial Plateau, CCK,** Size 3-4down, H = 12 mm	1
14	881-254/14	**Trial Plateau, CCK,** Size 3-4down, H = 14 mm	1
15	881-254/16	**Trial Plateau, CCK,** Size 3-4down, H = 16 mm	1
16	881-253/10	**Trial Plateau, CCK,** Size 3-4, H = 10 mm	1
17	881-253/12	**Trial Plateau, CCK,** Size 3-4, H = 12 mm	1
18	881-253/14	**Trial Plateau, CCK,** Size 3-4, H = 14 mm	1
19	881-253/16	**Trial Plateau, CCK,** Size 3-4, H = 16 mm	1
20	881-220/43	**Shim, Trial Plateau,** H= +4 mm, Size 3-4	1
21	881-250/83	**Shim, Trial Plateau, CCK,** H = +8 mm, Size 3-4	1
22	881-255/10	**Trial Plateau, CCK,** Size 5-6, H = 10 mm	1
23	881-255/12	**Trial Plateau, CCK,** Size 5-6, H = 12 mm	1
24	881-255/14	**Trial Plateau, CCK,** Size 5-6, H = 14 mm	1
25	881-255/16	**Trial Plateau, CCK,** Size 5-6, H = 16 mm	1
26	881-220/45	**Shim, Trial Plateau,** H = +4 mm, Size 5-6	1
27	881-250/85	**Shim, Trial Plateau, CCK,** H = +8 mm, Size 5-6	1
28	881-257/10	**Trial Plateau, CCK,** Size 7-8, H = 10 mm	1
29	881-257/12	**Trial Plateau, CCK,** Size 7-8, H = 12 mm	1
30	881-257/14	**Trial Plateau, CCK,** Size 7-8, H = 14 mm	1
31	881-257/16	**Trial Plateau, CCK,** Size 7-8, H = 16 mm	1
32	881-220/47	**Shim, Trial Plateau,** H = +4 mm, Size 7-8	1
33	881-250/87	**Shim, Trial Plateau, CCK,** H = +8 mm, Size 7-8	1
34	881-259/10	**Trial Plateau, CCK,** Size 9-10, H = 10 mm	1
35	881-259/12	**Trial Plateau, CCK,** Size 9-10, H = 12 mm	1
36	881-259/14	**Trial Plateau, CCK,** Size 9-10, H = 14 mm	1
37	881-259/16	**Trial Plateau, CCK,** Size 9-10, H = 16 mm	1
38	881-220/49	**Shim, Trial Plateau,** H = +4 mm, Size 9-10	1
39	881-250/89	**Shim, Trial Plateau, CCK,** H = +8 mm, Size 9-10	1

881-006/10 CCK Instruments & Trials – Yellow feet



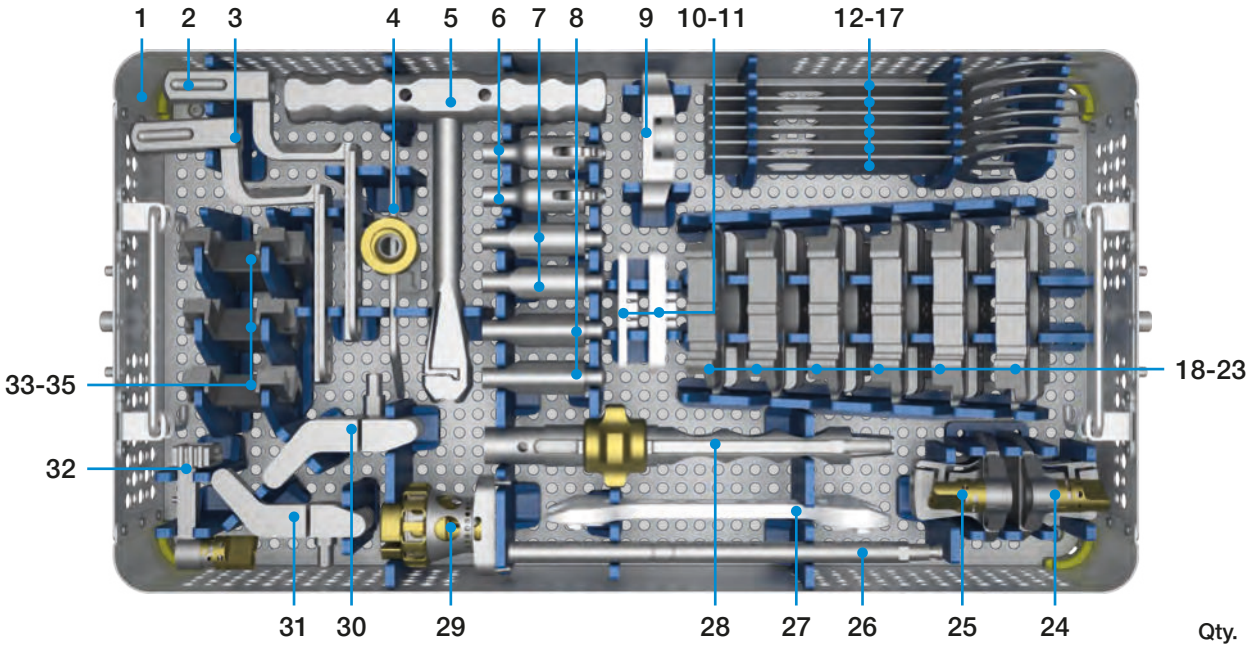
			Qty.
1	881-060/10	**LinkSymphoKnee CCK Instruments & Trials Tray** – Upper Tray	1
2	151-050/12	**50 mm Trial Stem Conical Cemented** with Ø 12 mm Centralizer	1
3	151-050/14	**50 mm Trial Stem Conical Cemented** with Ø 14 mm Centralizer	1
4	151-050/16	**50 mm Trial Stem Conical Cemented** with Ø 16 mm Centralizer	1
5	151-050/18	**50 mm Trial Stem Conical Cemented** with Ø 18 mm Centralizer	1
6	151-050/20	**50 mm Trial Stem Conical Cemented** with Ø 20 mm Centralizer	1
7	151-050/22	**50 mm Trial Stem Conical Cemented** with Ø 22 mm Centralizer	1
8	151-050/24	**50 mm Trial Stem Conical Cemented** with Ø 24 mm Centralizer	1
9	881-285/30	**Tibial Preparation Plate, CCK,** Size 3	1
10	881-285/40	**Tibial Preparation Plate, CCK,** Size 4	1
11	881-285/50	**Tibial Preparation Plate, CCK,** Size 5	1
12	881-285/60	**Tibial Preparation Plate, CCK,** Size 6	1
13	881-285/70	**Tibial Preparation Plate, CCK,** Size 7	1
14	881-285/80	**Tibial Preparation Plate, CCK,** Size 8	1
15	151-501/00	**Neutral Stem Adapter**	1
16	881-070/08	**Sleeve, Assignment for Intramedullary Rod,** Ø 8 mm	1
17	881-067/17	**Tapered Reamer, CCK,** Hudson Fitting	1
18	881-333/11	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 3-4, H = 5 mm	1
19	881-333/12	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 3-4, H = 10 mm	1
20	881-333/13	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 3-4, H = 15 mm	1
21	881-335/11	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 5-6, H = 5 mm	1
22	881-335/12	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 5-6, H = 10 mm	1
23	881-335/13	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 5-6, H = 15 mm	1
24	881-337/11	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 7-8, H = 5 mm	1
25	881-337/12	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 7-8, H = 10 mm	1
26	881-337/13	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 7-8, H = 15 mm	1
27	881-333/21	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 3-4, H = 5 mm	1
28	881-333/22	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 3-4, H = 10 mm	1
29	881-333/23	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 3-4, H = 15 mm	1
30	881-335/21	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 5-6, H = 5 mm	1
31	881-335/22	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 5-6, H = 10 mm	1
32	881-335/23	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 5-6, H = 15 mm	1
33	881-337/21	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 7-8, H = 5 mm	1
34	881-337/22	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 7-8, H = 10 mm	1
35	881-337/23	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 7-8, H = 15 mm	1
36	151-080/15	**80 mm Trial Stem Conical Cemented,** Ø 15 mm	1
37	151-095/15	**95 mm Trial Stem Conical Cemented,** Ø 15 mm	1
38	151-120/15	**120 mm Trial Stem Conical Cemented,** Ø 15 mm	1
39	881-065/09	**Reamer Stopper, Offset**	1
40	881-275/34	**Tibial Keel Punch, CCK,** Size 3-4	1
41	881-275/56	**Tibial Keel Punch, CCK,** Size 5-6	1
42	881-275/78	**Tibial Keel Punch, CCK,** Size 7-8	1
43	881-055/00	**Neutral Alignment Guide, CCK,** 0 mm offset	1
44	881-065/00	**Tibial Reamer Guide, CCK**	1

881-006/10 CCK Instruments & Trials – Yellow feet



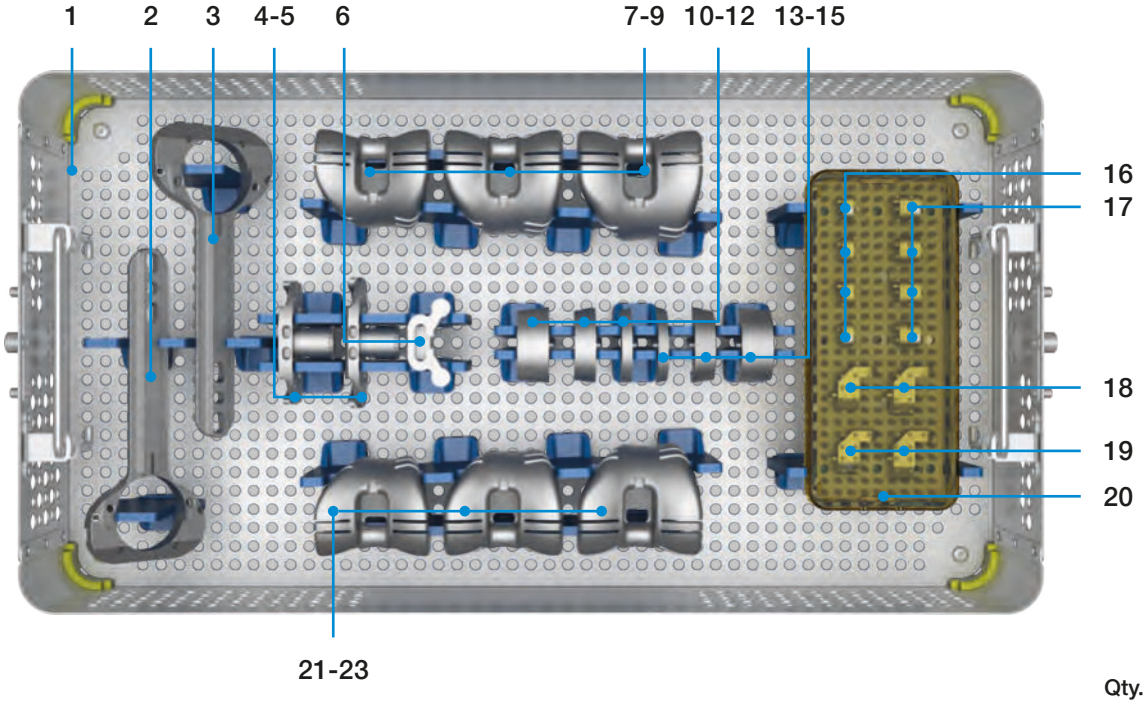
			Qty.
1	881-060/10	**LinkSymphoKnee CCK Instruments & Trials Tray** – Lower Tray	1
2	881-150/30	**Femoral Trial, CCK,** right, Size 3	1
3	881-150/40	**Femoral Trial, CCK,** right, Size 4	1
4	881-150/50	**Femoral Trial, CCK,** right, Size 5	1
5	881-150/60	**Femoral Trial, CCK,** right, Size 6	1
6	881-150/70	**Femoral Trial, CCK,** right, Size 7	1
7	881-150/80	**Femoral Trial, CCK,** right, Size 8	1
8	881-302/91	**Femoral Trial Augment,** H = 5 mm	4
9	881-302/92	**Femoral Trial Augment,** H = 10 mm	4
10	881-323/93	**Femoral Trial Augment, L-Shaped,** Size 3-4, H = 15 mm	2
11	881-325/93	**Femoral Trial Augment, L-Shaped,** Size 5-6, H = 15 mm	2
12	881-327/93	**Femoral Trial Augment, L-Shaped,** Size 7-8, H = 15 mm	2
13	319-603/30	**Sterilizing Box,** medium high	1
14	881-116/00	**Reamer Guide, Femoral Box, CCK**	1
15	881-151/30	**Femoral Trial, CCK,** left, Size 3	1
16	881-151/40	**Femoral Trial, CCK,** left, Size 4	1
17	881-151/50	**Femoral Trial, CCK,** left, Size 5	1
18	881-151/60	**Femoral Trial, CCK,** left, Size 6	1
19	881-151/70	**Femoral Trial, CCK,** left, Size 7	1
20	881-151/80	**Femoral Trial, CCK,** left, Size 8	1
21	881-258/30	**Tibial Trial Component, CCK,** Size 3	1
22	881-258/40	**Tibial Trial Component, CCK,** Size 4	1
23	881-258/50	**Tibial Trial Component, CCK,** Size 5	1
24	881-258/60	**Tibial Trial Component, CCK,** Size 6	1
25	881-258/70	**Tibial Trial Component, CCK,** Size 7	1
26	881-258/80	**Tibial Trial Component, CCK,** Size 8	1

881-007/10 CCK Preparation Instruments – Yellow feet



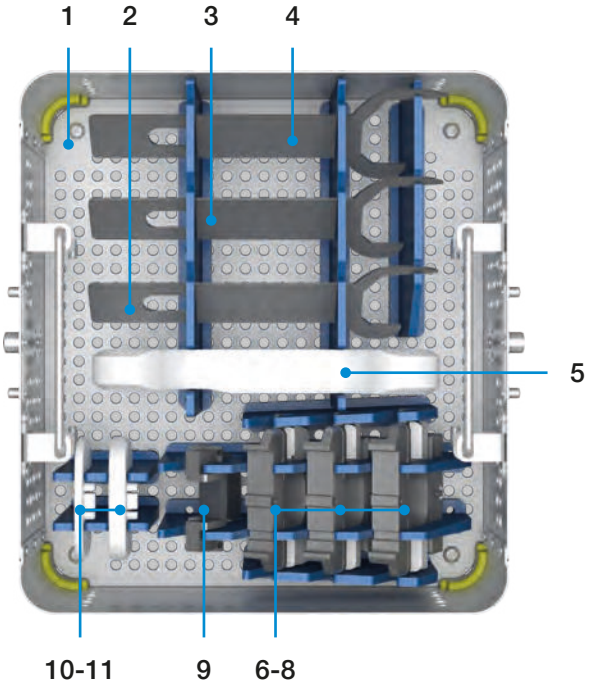
			Qty.
1	881-070/10	**LinkSymphoKnee CCK Preparation Instruments Tray**	1
2	151-201/00	**Tibial Guide, Intramedullary,** 0°	1
3	881-059/00	**Tibial Guide, Intramedullary,** 3°, CCK	1
4	445-111/00	**Stylus,** adjustable	1
5	15-6053/00	**T-Handle**	1
6	151-501/00	**Neutral Stem Adapter**	2
7	151-803/03	**3 mm Offset Adapter**	2
8	151-806/06	**6 mm Offset Adapter**	2
9	881-159/00	**Femoral Cutting Block, CCK,** Distal Cut	1
10	881-013/16	**Shim,** Spacer 4-in-1 Cut CCK, Flexion, H = 4 mm	1
11	881-013/20	**Shim,** Spacer 4-in-1 Cut CCK, Flexion, H = 8 mm	1
12	881-105/30	**Femoral Sizer, Template,** Size 3, CCK	1
13	881-105/40	**Femoral Sizer, Template,** Size 4, CCK	1
14	881-105/50	**Femoral Sizer, Template,** Size 5, CCK	1
15	881-105/60	**Femoral Sizer, Template,** Size 6, CCK	1
16	881-105/70	**Femoral Sizer, Template,** Size 7, CCK	1
17	881-105/80	**Femoral Sizer, Template,** Size 8, CCK	1
18	881-115/30	**Femoral Cutting Block, CCK,** 4-in-1 Cut, Size 3	1
19	881-115/40	**Femoral Cutting Block, CCK,** 4-in-1 Cut, Size 4	1
20	881-115/50	**Femoral Cutting Block, CCK,** 4-in-1 Cut, Size 5	1
21	881-115/60	**Femoral Cutting Block, CCK,** 4-in-1 Cut, Size 6	1
22	881-115/70	**Femoral Cutting Block, CCK,** 4-in-1 Cut, Size 7	1
23	881-115/80	**Femoral Cutting Block, CCK,** 4-in-1 Cut, Size 8	1
24	881-050/06	**Femoral Alignment Guide, CCK,** Varus/Valgus Adjustment 6°, right	1
25	881-051/06	**Femoral Alignment Guide, CCK,** Varus/Valgus Adjustment 6°, left	1
26	881-056/00	**Trial Stem Rod,** Intramedullary	1
27	881-013/00	**Spacer 4-in-1 Cut, CCK,** Flexion, H = 10-12 mm	1
28	151-144/00	**Extractor for Modular Stems/Offset Stems**	1
29	881-099/00	**Offset Selector, CCK**	1
30	151-204/00	**Tibial Cutting Block,** right	1
31	151-203/00	**Tibial Cutting Block,** left	1
32	151-202/00	**Tibial Guide Connector**	1
33	881-114/34	**Femoral Box Guide, CCK,** Size 3-4	1
34	881-114/56	**Femoral Box Guide, CCK,** Size 5-6	1
35	881-114/78	**Femoral Box Guide, CCK,** Size 7-8	1

881-006/00 CCK Instruments & Trials Micro-Sizes – Yellow feet



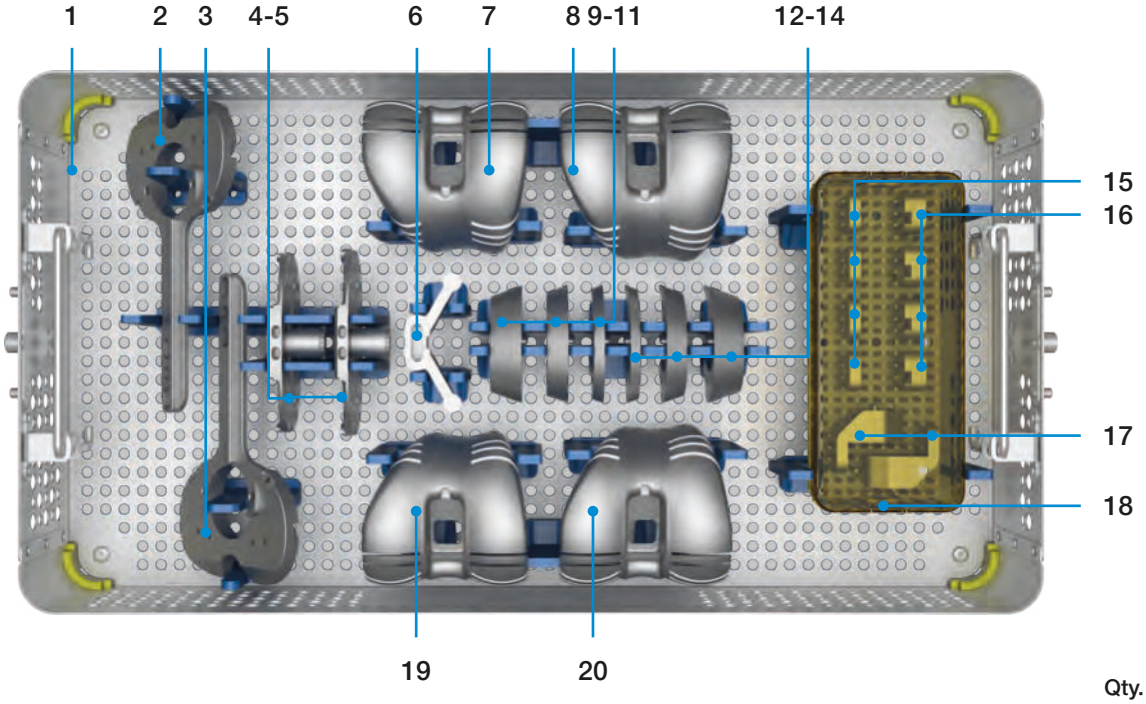
			Qty.
1	881-060/00	**LinkSymphoKnee CCK Instruments & Trials Micro-Sizes Tray**	1
2	881-285/10	**Tibial Preparation Plate, CCK,** Size 1	1
3	881-285/20	**Tibial Preparation Plate, CCK,** Size 2	1
4	881-258/10	**Tibial Trial Component, CCK,** Size 1	1
5	881-258/20	**Tibial Trial Component, CCK**, Size 2	1
6	881-275/12	**Tibial Keel Punch, CCK,** Size 1-2	1
7	881-150/00	**Femoral Trial, CCK,** right, Size 0	1
8	881-150/10	**Femoral Trial, CCK,** right, Size 1	1
9	881-150/20	**Femoral Trial, CCK,** right, Size 2	1
10	881-331/11	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 1-2, H = 5 mm	1
11	881-331/12	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 1-2, H = 10 mm	1
12	881-331/13	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 1-2, H = 15 mm	1
13	881-331/21	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 1-2, H = 5 mm	1
14	881-331/22	**Tibial Trial Augment, Lateral-Right/Lateral-Left,** Size 1-2, H = 10 mm	1
15	881-331/23	**Tibial Trial Augment, Lateral-Right/Lateral-Left,** Size 1-2, H = 15 mm	1
16	881-301/91	**Femoral Trial Augment, Micro-Sizes,** H = 5 mm	4
17	881-301/92	**Femoral Trial Augment, Micro-Sizes,** H = 10 mm	4
18	881-320/92	**Femoral Trial Augment, L-Shaped,** Size 0, H = 10 mm	2
19	881-321/92	**Femoral Trial Augment, L-Shaped,** Size 1-2, H = 10 mm	2
20	319-603/30	**Sterilizing Box,** medium high	1
21	881-151/00	**Femoral Trial, CCK,** left, Size 0	1
22	881-151/10	**Femoral Trial, CCK,** left, Size 1	1
23	881-151/20	**Femoral Trial, CCK,** left, Size 2	1

881-007/00 CCK Preparation Instruments Micro-Sizes – Yellow feet



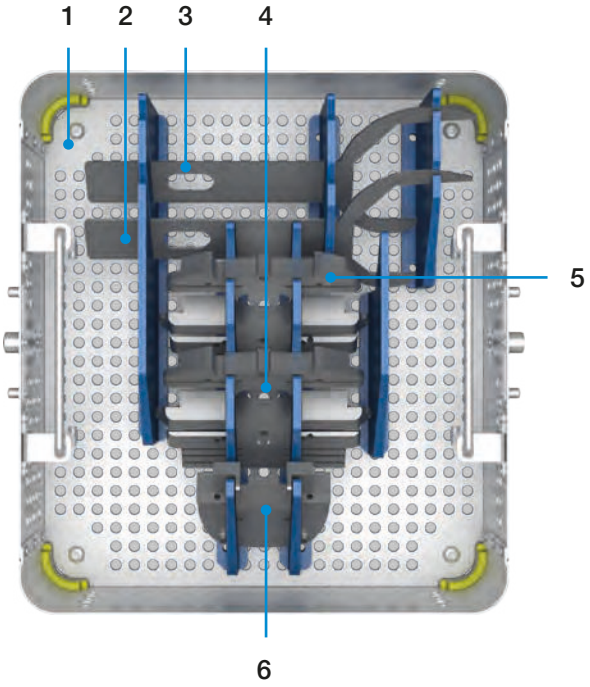
			Qty.
1	881-070/00	**LinkSymphoKnee CCK Preparation Instruments Micro-Sizes Tray**	1
2	881-105/00	**Femoral Sizer, Template,** Size 0, CCK	1
3	881-105/10	**Femoral Sizer, Template,** Size 1, CCK	1
4	881-105/20	**Femoral Sizer, Template,** Size 2, CCK	1
5	881-010/01	**Spacer, Micro-Sizes, Flexion/ Extension,** H = 10-12 mm	1
6	881-115/00	**Femoral Cutting Block, CCK, 4-in-1 Cut,** Size 0	1
7	881-115/10	**Femoral Cutting Block, CCK, 4-in-1 Cut,** Size 1	1
8	881-115/20	**Femoral Cutting Block, CCK, 4-in-1 Cut,** Size 2	1
9	881-114/02	**Femoral Box Guide, CCK,** Size 0-1-2	1
10	881-019/94	**Shim, Spacer,** H = 4 mm, Micro-Sizes	1
11	881-019/98	**Shim, Spacer,** H = 8 mm, Micro-Sizes	1

881-006/20 CCK Instruments & Trials Macro-Sizes – Yellow feet



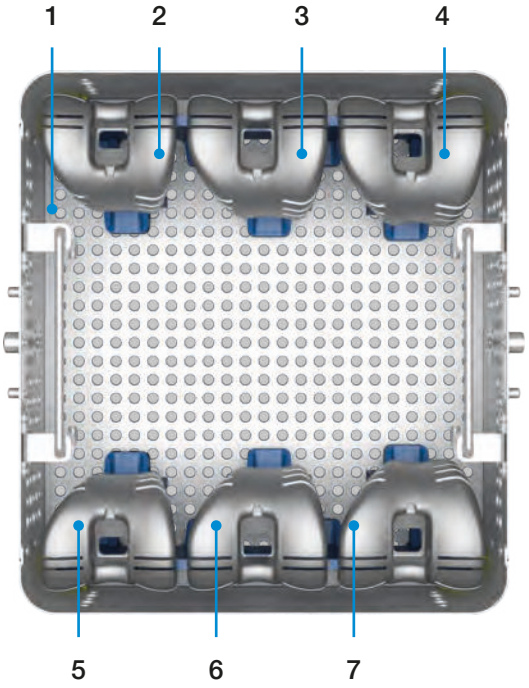
			Qty.
1	881-060/20	**LinkSymphoKnee CCK Instruments & Trials Macro-Sizes Tray**	1
2	881-285/90	**Tibial Preparation Plate, CCK,** Size 9	1
3	881-285/X0	**Tibial Preparation Plate, CCK,** Size 10	1
4	881-258/90	**Tibial Trial Component, CCK,** Size 9	1
5	881-258/X0	**Tibial Trial Component, CCK,** Size 10	1
6	881-275/9X	**Tibial Keel Punch, CCK,** Size 9-10	1
7	881-150/90	**Femoral Trial, CCK,** right, Size 9	1
8	881-150/X0	**Femoral Trial, CCK,** right, Size 10	1
9	881-339/11	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 9-10, H = 5 mm	1
10	881-339/12	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 9-10, H = 10 mm	1
11	881-339/13	**Tibial Trial Augment, Medial-Right/Lateral-Left,** Size 9-10, H = 15 mm	1
12	881-339/21	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 9-10, H = 5 mm	1
13	881-339/22	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 9-10, H = 10 mm	1
14	881-339/23	**Tibial Trial Augment, Lateral-Right/Medial-Left,** Size 9-10, H = 15 mm	1
15	881-303/91	**Femoral Trial Augment,** Macro-Sizes, H = 5 mm	4
16	881-303/92	**Femoral Trial Augment,** Macro-Sizes, H = 10 mm	4
17	881-329/93	**Femoral Trial Augment, L-Shaped,** Size 9-10, H = 15 mm	2
18	319-603/30	**Sterilizing Box,** medium high	1
19	881-151/90	**Femoral Trial, CCK,** left, Size 9	1
20	881-151/X0	**Femoral Trial, CCK,** left, Size 10	1

881-007/20 CCK Preparation Instruments Macro-Sizes – Yellow feet



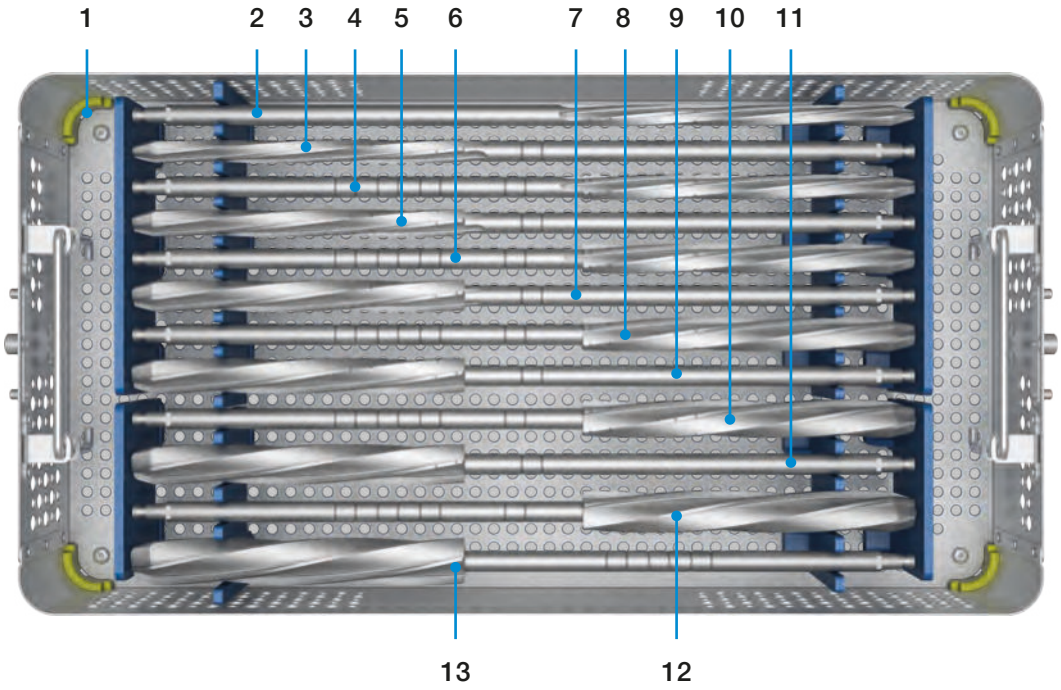
			Qty.
1	881-070/20	**LinkSymphoKnee CCK Preparation Instruments Macro-Sizes Tray**	1
2	881-105/90	**Femoral Sizer, Template,** Size 9, CCK	1
3	881-105/X0	**Femoral Sizer, Template,** Size 10, CCK	1
4	881-115/90	**Femoral Cutting Block, CCK, 4-in-1 Cut,** Size 9	1
5	881-115/X0	**Femoral Cutting Block, CCK, 4-in-1 Cut,** Size 10	1
6	881-114/9X	**Femoral Box Guide, CCK,** Size 9-10	1

881-006/30 CCK Instruments & Trials Wide-Sizes – Yellow feet



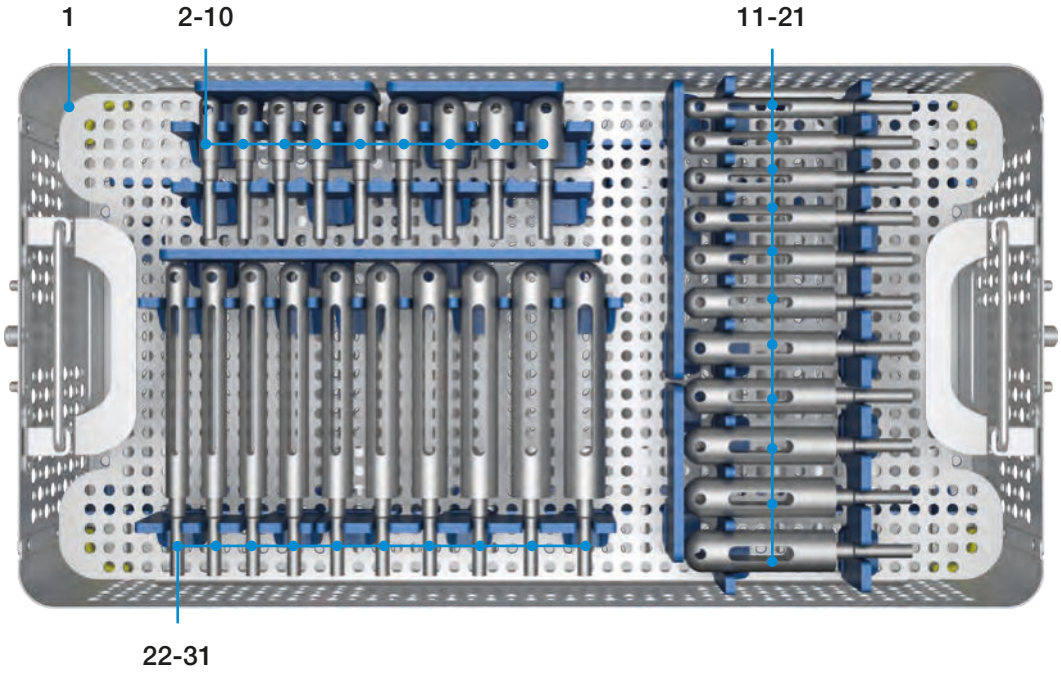
			Qty.
1	881-060/30	**LinkSymphoKnee CCK Instruments & Trials Wide-Sizes Tray**	1
2	881-150/35	**Femoral Trial, CCK,** right, Size 3+	1
3	881-150/45	**Femoral Trial, CCK,** right, Size 4+	1
4	881-150/55	**Femoral Trial, CCK,** right, Size 5+	1
5	881-151/35	**Femoral Trial, CCK,** left, Size 3+	1
6	881-151/45	**Femoral Trial, CCK,** left, Size 4+	1
7	881-151/55	**Femoral Trial, CCK,** left, Size 5+	1

881-008/00 Press-Fit Stem Reamers – Yellow feet



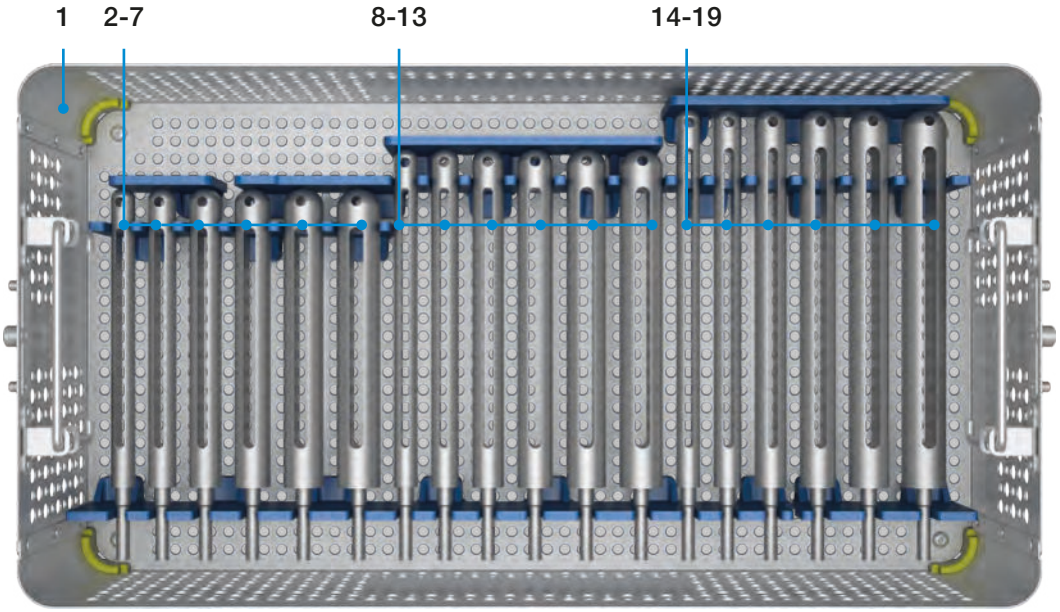
			Qty.
1	881-080/00	LinkSymphoKnee Press-Fit Stem Reamers	1
2	881-069/10	Reamer, cementless, cylindrical, Ø 10 mm	1
3	881-069/11	Reamer, cementless, cylindrical, Ø 11 mm	1
4	881-069/12	Reamer, cementless, cylindrical, Ø 12 mm	1
5	881-069/13	Reamer, cementless, cylindrical, Ø 13 mm	1
6	881-069/14	Reamer, cementless, cylindrical, Ø 14 mm	1
7	881-069/15	Reamer, cementless, cylindrical, Ø 15 mm	1
8	881-069/16	Reamer, cementless, cylindrical, Ø 16 mm	1
9	881-069/17	Reamer, cementless, cylindrical, Ø 17 mm	1
10	881-069/18	Reamer, cementless, cylindrical, Ø 18 mm	1
11	881-069/19	Reamer, cementless, cylindrical, Ø 19 mm	1
12	881-069/20	Reamer, cementless, cylindrical, Ø 20 mm	1
13	881-069/22	Reamer, cementless, cylindrical, Ø 22 mm	1

881-008/10 Press-Fit Stem Trials – Yellow feet



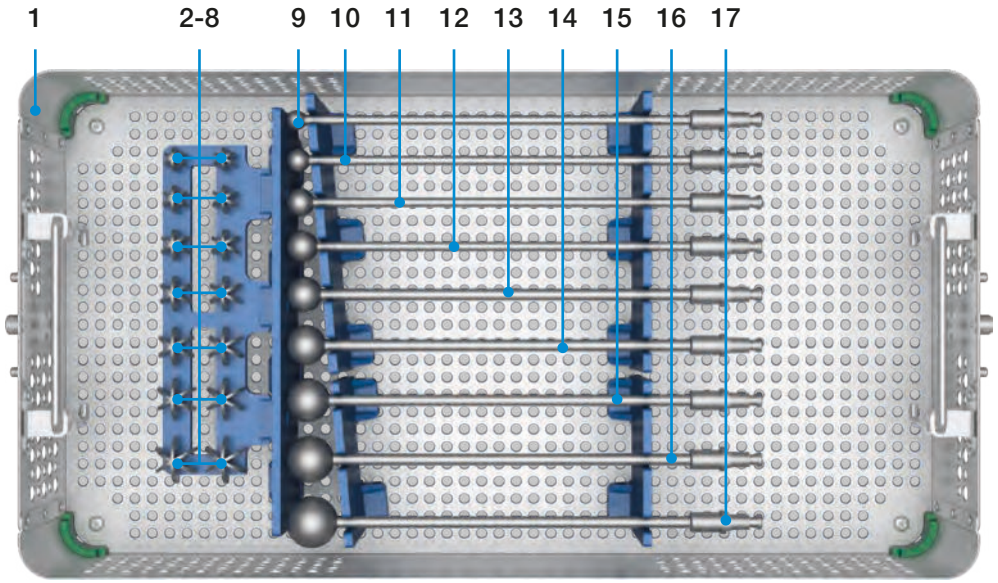
			Qty.
1	881-080/10	**LinkSymphoKnee Press-Fit Stem Trials** – Upper Tray	1
2	151-780/10	**Trial Stem, cementless, cylindrical,** Ø 10 mm, Stem.L 80 mm	1
3	151-780/11	**Trial Stem, cementless, cylindrical,** Ø 11 mm, Stem.L 80 mm	1
4	151-780/12	**Trial Stem, cementless, cylindrical,** Ø 12 mm, Stem.L 80 mm	1
5	151-780/13	**Trial Stem, cementless, cylindrical,** Ø 13 mm, Stem.L 80 mm	1
6	151-780/14	**Trial Stem, cementless, cylindrical,** Ø 14 mm, Stem.L 80 mm	1
7	151-780/15	**Trial Stem, cementless, cylindrical,** Ø 15 mm, Stem.L 80 mm	1
8	151-780/16	**Trial Stem, cementless, cylindrical,** Ø 16 mm, Stem.L 80 mm	1
9	151-780/17	**Trial Stem, cementless, cylindrical,** Ø 17 mm, Stem.L 80 mm	1
10	151-780/18	**Trial Stem, cementless, cylindrical,** Ø 18 mm, Stem.L 80 mm	1
11	151-712/10	**Trial Stem, cementless, cylindrical,** Ø 10 mm, Stem.L 120 mm	1
12	151-712/11	**Trial Stem, cementless, cylindrical,** Ø 11 mm, Stem.L 120 mm	1
13	151-712/12	**Trial Stem, cementless, cylindrical,** Ø 12 mm, Stem.L 120 mm	1
14	151-712/13	**Trial Stem, cementless, cylindrical,** Ø 13 mm, Stem.L 120 mm	1
15	151-712/14	**Trial Stem, cementless, cylindrical,** Ø 14 mm, Stem.L 120 mm	1
16	151-712/15	**Trial Stem, cementless, cylindrical,** Ø 15 mm, Stem.L 120 mm	1
17	151-712/16	**Trial Stem, cementless, cylindrical,** Ø 16 mm, Stem.L 120 mm	1
18	151-712/17	**Trial Stem, cementless, cylindrical,** Ø 17 mm, Stem.L 120 mm	1
19	151-712/18	**Trial Stem, cementless, cylindrical,** Ø 18 mm, Stem.L 120 mm	1
20	151-712/19	**Trial Stem, cementless, cylindrical,** Ø 19 mm, Stem.L 120 mm	1
21	151-712/20	**Trial Stem, cementless, cylindrical,** Ø 20 mm, Stem.L 120 mm	1
22	151-716/11	**Trial Stem, cementless, cylindrical,** Ø 11 mm, Stem.L 160 mm	1
23	151-716/12	**Trial Stem, cementless, cylindrical,** Ø 12 mm, Stem.L 160 mm	1
24	151-716/13	**Trial Stem, cementless, cylindrical,** Ø 13 mm, Stem.L 160 mm	1
25	151-716/14	**Trial Stem, cementless, cylindrical,** Ø 14 mm, Stem.L 160 mm	1
26	151-716/15	**Trial Stem, cementless, cylindrical,** Ø 15 mm, Stem.L 160 mm	1
27	151-716/16	**Trial Stem, cementless, cylindrical,** Ø 16 mm, Stem.L 160 mm	1
28	151-716/17	**Trial Stem, cementless, cylindrical,** Ø 17 mm, Stem.L 160 mm	1
29	151-716/18	**Trial Stem, cementless, cylindrical,** Ø 18 mm, Stem.L 160 mm	1
30	151-716/19	**Trial Stem, cementless, cylindrical,** Ø 19 mm, Stem.L 160 mm	1
31	151-716/20	**Trial Stem, cementless, cylindrical,** Ø 20 mm, Stem.L 160 mm	1

881-008/10 Press-Fit Stem Trials – Yellow feet



			Qty.
1	881-080/10	**LinkSymphoKnee Press-Fit Stem Trials** – Lower Tray	1
2	151-720/12	**Trial Stem, cementless, cylindrical,** Ø 12 mm, Stem.L 200 mm	1
3	151-720/14	**Trial Stem, cementless, cylindrical,** Ø 14 mm, Stem.L 200 mm	1
4	151-720/16	**Trial Stem, cementless, cylindrical,** Ø 16 mm, Stem.L 200 mm	1
5	151-720/18	**Trial Stem, cementless, cylindrical,** Ø 18 mm, Stem.L 200 mm	1
6	151-720/20	**Trial Stem, cementless, cylindrical,** Ø 20 mm, Stem.L 200 mm	1
7	151-720/22	**Trial Stem, cementless, cylindrical,** Ø 22 mm, Stem.L 200 mm	1
8	151-722/12	**Trial Stem, cementless, cylindrical,** Ø 12 mm, Stem.L 220 mm	1
9	151-722/14	**Trial Stem, cementless, cylindrical,** Ø 14 mm, Stem.L 220 mm	1
10	151-722/16	**Trial Stem, cementless, cylindrical,** Ø 16 mm, Stem.L 220 mm	1
11	151-722/18	**Trial Stem, cementless, cylindrical,** Ø 18 mm, Stem.L 220 mm	1
12	151-722/20	**Trial Stem, cementless, cylindrical,** Ø 20 mm, Stem.L 220 mm	1
13	151-722/22	**Trial Stem, cementless, cylindrical,** Ø 22 mm, Stem.L 220 mm	1
14	151-724/12	**Trial Stem, cementless, cylindrical,** Ø 12 mm, Stem.L 240 mm	1
15	151-724/14	**Trial Stem, cementless, cylindrical,** Ø 14 mm, Stem.L 240 mm	1
16	151-724/16	**Trial Stem, cementless, cylindrical,** Ø 16 mm, Stem.L 240 mm	1
17	151-724/18	**Trial Stem, cementless, cylindrical,** Ø 18 mm, Stem.L 240 mm	1
18	151-724/20	**Trial Stem, cementless, cylindrical,** Ø 20 mm, Stem.L 240 mm	1
19	151-724/22	**Trial Stem, cementless, cylindrical,** Ø 22 mm, Stem.L 240 mm	1

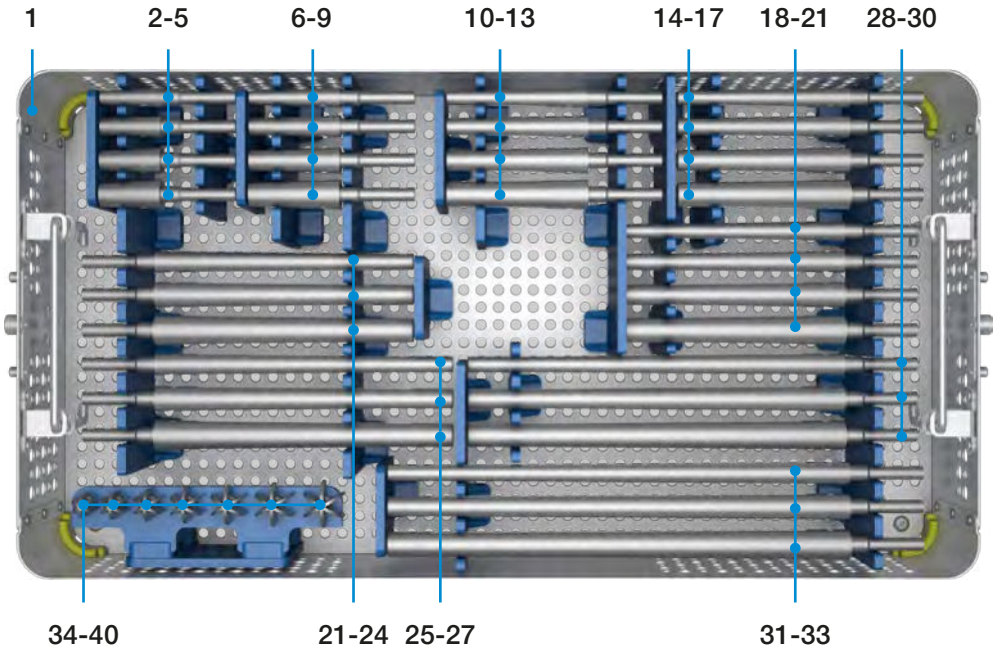
151-07/00 Ball Reamers & Trial Centralizers – Green feet



			Qty.
1	151-07/07	**Ball Reamers & Trial Centralizers Tray**	1
2	151-106/12	**Trial Centralizer,** 12 mm	2
3	151-106/14	**Trial Centralizer,** 14 mm	2
4	151-106/16	**Trial Centralizer,** 16 mm	2
5	151-106/18	**Trial Centralizer,** 18 mm	2
6	151-106/20	**Trial Centralizer,** 20 mm	2
7	151-106/22	**Trial Centralizer,** 22 mm	2
8	151-106/24	**Trial Centralizer,** 24 mm	2
9	15-1133/02B*	**Ball Reamer,** Total L = 250 mm, Ø 10 mm, Hudson Fitting (B)	1
10	15-1133/03B*	**Ball Reamer,** Total L = 250 mm, Ø 12 mm, Hudson Fitting (B)	1
11	15-1133/04B*	**Ball Reamer,** Total L = 250 mm, Ø 14 mm, Hudson Fitting (B)	1
12	15-1133/05B*	**Ball Reamer,** Total L = 250 mm, Ø 16 mm, Hudson Fitting (B)	1
13	15-1133/06B*	**Ball Reamer,** Total L = 250 mm, Ø 18 mm, Hudson Fitting (B)	1
14	15-1133/07B*	**Ball Reamer,** Total L = 250 mm, Ø 20 mm, Hudson Fitting (B)	1
15	15-1133/08B*	**Ball Reamer,** Total L = 250 mm, Ø 22 mm, Hudson Fitting (B)	1
16	15-1133/09B*	**Ball Reamer,** Total L = 250 mm, Ø 24 mm, Hudson Fitting (B)	1
17	15-1133/10B*	**Ball Reamer,** Total L = 250 mm, Ø 26 mm, Hudson Fitting (B)	1

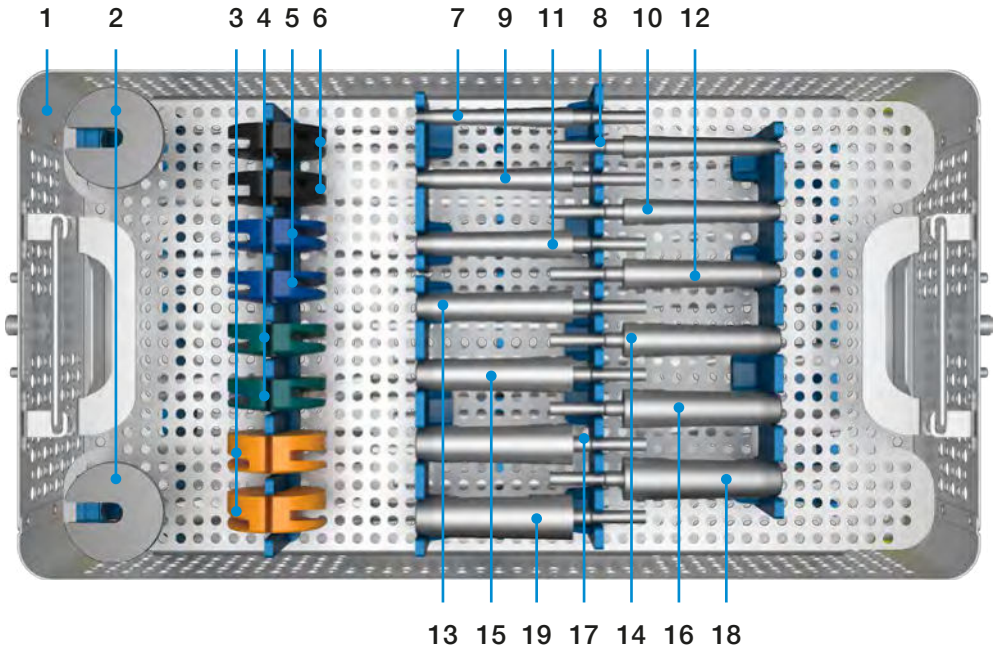
* Fitting optional

151-08/00 Conical Cemented Stem Trials – Yellow feet



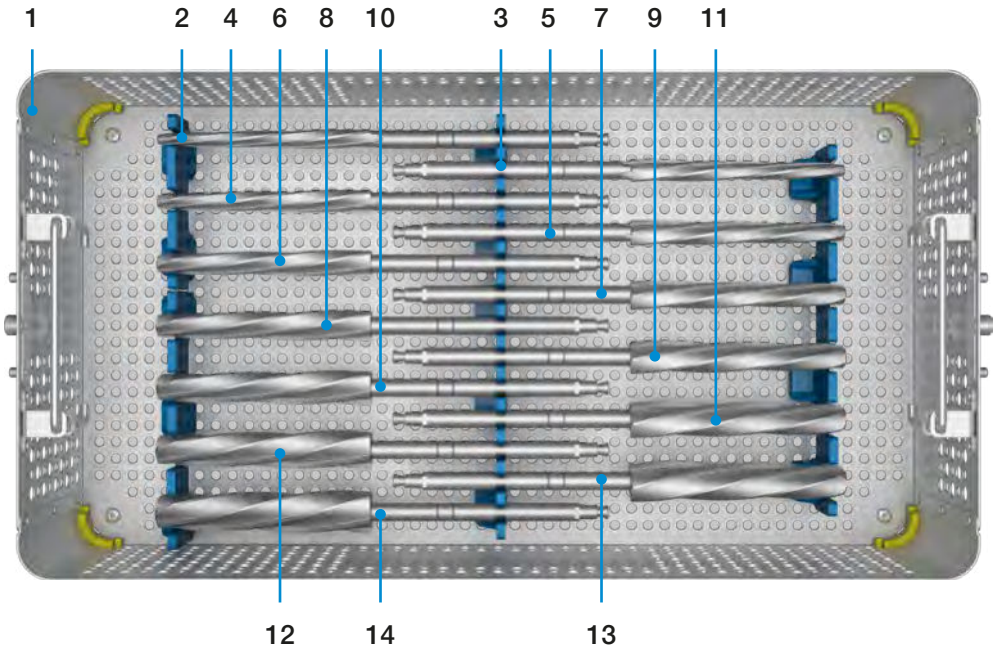
			Qty.
1	151-08/08	**Conical Cemented Stem Trials Tray**	1
2	151-080/10	**Trial Stem Conical Cemented,** Ø 10 mm, 80 mm	1
3	151-080/11	**Trial Stem Conical Cemented,** Ø 11 mm, 80 mm	1
4	151-080/13	**Trial Stem Conical Cemented,** Ø 13 mm, 80 mm	1
5	151-080/15	**Trial Stem Conical Cemented,** Ø 15 mm, 80 mm	1
6	151-095/10	**Trial Stem Conical Cemented,** Ø 10 mm, 95 mm	1
7	151-095/11	**Trial Stem Conical Cemented,** Ø 11 mm, 95 mm	1
8	151-095/13	**Trial Stem Conical Cemented,** Ø 13 mm, 95 mm	1
9	151-095/15	**Trial Stem Conical Cemented,** Ø 15 mm, 95 mm	1
10	151-120/10	**Trial Stem Conical Cemented,** Ø 10 mm, 120 mm	1
11	151-120/11	**Trial Stem Conical Cemented,** Ø 11 mm, 120 mm	1
12	151-120/13	**Trial Stem Conical Cemented,** Ø 13 mm, 120 mm	1
13	151-120/15	**Trial Stem Conical Cemented,** Ø 15 mm, 120 mm	1
14	151-135/10	**Trial Stem Conical Cemented,** Ø 10 mm, 135 mm	1
15	151-135/11	**Trial Stem Conical Cemented,** Ø 11 mm, 135 mm	1
16	151-135/13	**Trial Stem Conical Cemented,** Ø 13 mm, 135 mm	1
17	151-135/15	**Trial Stem Conical Cemented,** Ø 15 mm, 135 mm	1
18	151-160/10	**Trial Stem Conical Cemented,** Ø 10 mm, 160 mm	1
19	151-160/11	**Trial Stem Conical Cemented,** Ø 11 mm, 160 mm	1
20	151-160/13	**Trial Stem Conical Cemented,** Ø 13 mm, 160 mm	1
21	151-160/15	**Trial Stem Conical Cemented,** Ø 15 mm, 160 mm	1
22	151-180/11	**Trial Stem Conical Cemented,** Ø 11 mm, 180 mm	1
23	151-180/13	**Trial Stem Conical Cemented,** Ø 13 mm, 180 mm	1
24	151-180/15	**Trial Stem Conical Cemented,** Ø 15 mm, 180 mm	1
25	151-200/11	**Trial Stem Conical Cemented,** Ø 11 mm, 200 mm	1
26	151-200/13	**Trial Stem Conical Cemented,** Ø 13 mm, 200 mm	1
27	151-200/15	**Trial Stem Conical Cemented,** Ø 15 mm, 200 mm	1
28	151-240/11	**Trial Stem Conical Cemented,** Ø 11 mm, 240 mm	1
29	151-240/13	**Trial Stem Conical Cemented,** Ø 13 mm, 240 mm	1
30	151-240/15	**Trial Stem Conical Cemented,** Ø 15 mm, 240 mm	1
31	151-280/11	**Trial Stem Conical Cemented,** Ø 11 mm, 280 mm	1
32	151-280/13	**Trial Stem Conical Cemented,** Ø 13 mm, 280 mm	1
33	151-280/15	**Trial Stem Conical Cemented,** Ø 15 mm, 280 mm	1
34	151-050/12	**Trial Stem Conical Cemented,** Ø 11 mm with Ø 12 mm Centralizer, 50 mm	1
35	151-050/14	**Trial Stem Conical Cemented,** Ø 11 mm with Ø 14 mm Centralizer, 50 mm	1
36	151-050/16	**Trial Stem Conical Cemented,** Ø 11 mm with Ø 16 mm Centralizer, 50 mm	1
37	151-050/18	**Trial Stem Conical Cemented,** Ø 11 mm with Ø 18 mm Centralizer, 50 mm	1
38	151-050/20	**Trial Stem Conical Cemented,** Ø 11 mm with Ø 20 mm Centralizer, 50 mm	1
39	151-050/22	**Trial Stem Conical Cemented,** Ø 11 mm with Ø 22 mm Centralizer, 50 mm	1
40	151-050/24	**Trial Stem Conical Cemented,** Ø 11 mm with Ø 24 mm Centralizer, 50 mm	1

151-09/00 Conical Cementless Stem Instruments & Trials, 128 mm – Yellow feet



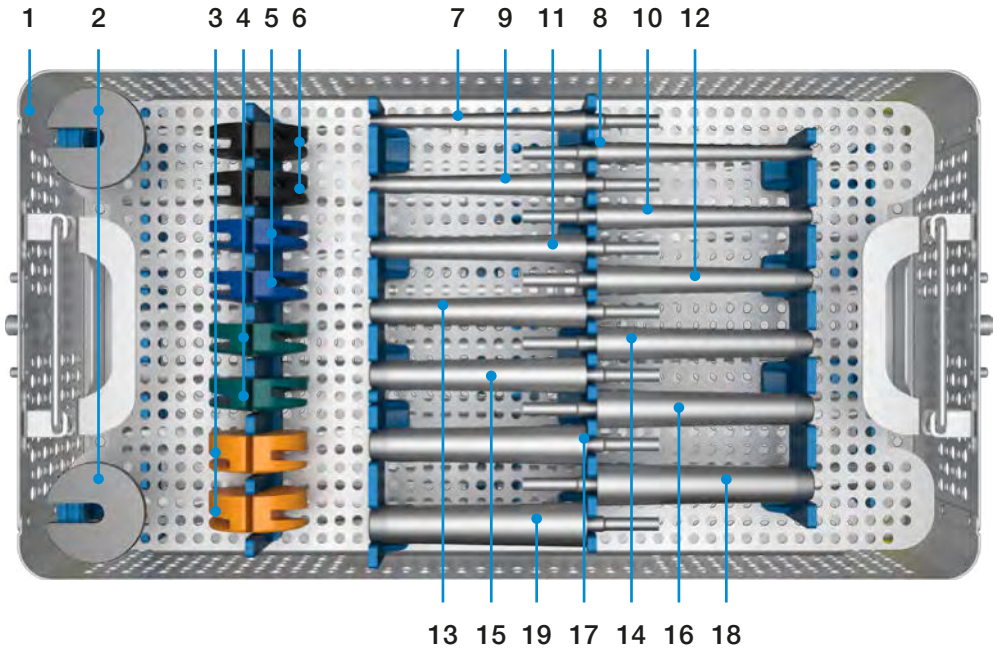
			Qty.
1	151-09/09	**Conical Cementless Stem Instruments & Trials, 128 mm Tray** – Upper Tray	1
2	151-718/00	**Reamer Stopper,** Tibia, XS-L	2
3	151-719/00	**Reamer Stopper,** Femur, XS	2
4	151-719/01	**Reamer Stopper,** Femur, S	2
5	151-719/02	**Reamer Stopper,** Femur, M	2
6	151-719/03	**Reamer Stopper,** Femur, L	2
7	151-100/12	**Trial Stem Conical, Cementless,** 128 mm, Ø 12 mm	1
8	151-100/13	**Trial Stem Conical, Cementless,** 128 mm, Ø 13 mm	1
9	151-100/14	**Trial Stem Conical, Cementless,** 128 mm, Ø 14 mm	1
10	151-100/15	**Trial Stem Conical, Cementless,** 128 mm, Ø 15 mm	1
11	151-100/16	**Trial Stem Conical, Cementless,** 128 mm, Ø 16 mm	1
12	151-100/17	**Trial Stem Conical, Cementless,** 128 mm, Ø 17 mm	1
13	151-100/18	**Trial Stem Conical, Cementless,** 128 mm, Ø 18 mm	1
14	151-100/19	**Trial Stem Conical, Cementless,** 128 mm, Ø 19 mm	1
15	151-100/20	**Trial Stem Conical, Cementless,** 128 mm, Ø 20 mm	1
16	151-100/21	**Trial Stem Conical, Cementless,** 128 mm, Ø 21 mm	1
17	151-100/22	**Trial Stem Conical, Cementless,** 128 mm, Ø 22 mm	1
18	151-100/23	**Trial Stem Conical, Cementless,** 128 mm, Ø 23 mm	1
19	151-100/24	**Trial Stem Conical, Cementless,** 128 mm, Ø 24 mm	1

151-09/00 Conical Cementless Stem Instruments & Trials, 128 mm – Yellow feet



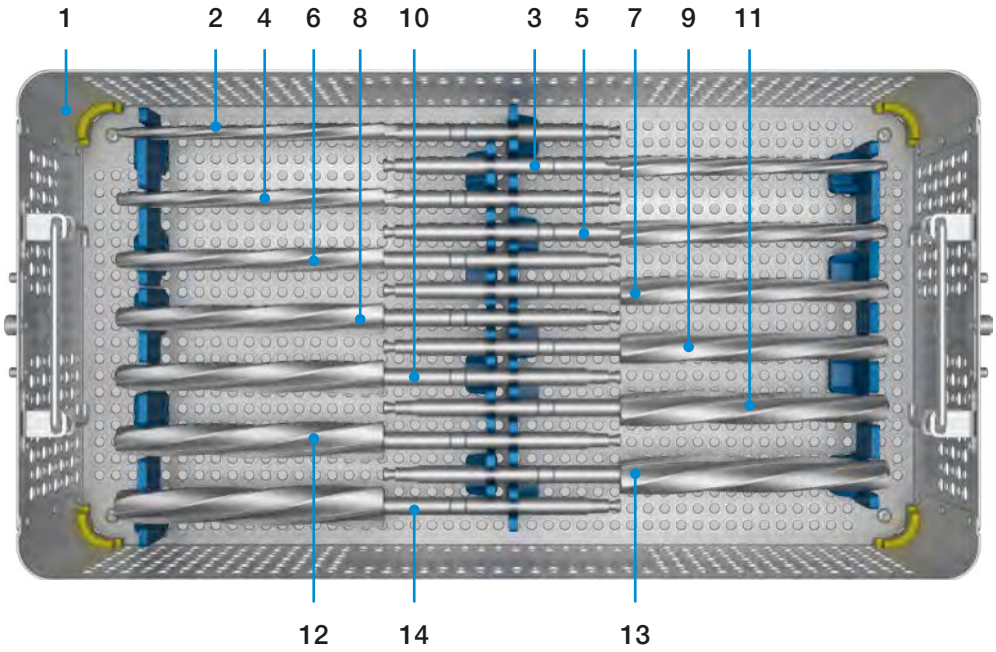
			Qty.
1	151-09/09	**Conical Cementless Stem Instruments & Trials, 128 mm Tray** – Lower Tray	1
2	151-610/12	**Reamer Conical,** 128 mm, Ø 12 mm	1
3	151-610/13	**Reamer Conical,** 128 mm, Ø 13 mm	1
4	151-610/14	**Reamer Conical,** 128 mm, Ø 14 mm	1
5	151-610/15	**Reamer Conical,** 128 mm, Ø 15 mm	1
6	151-610/16	**Reamer Conical,** 128 mm, Ø 16 mm	1
7	151-610/17	**Reamer Conical,** 128 mm, Ø 17 mm	1
8	151-610/18	**Reamer Conical,** 128 mm, Ø 18 mm	1
9	151-610/19	**Reamer Conical,** 128 mm, Ø 19 mm	1
10	151-610/20	**Reamer Conical,** 128 mm, Ø 20 mm	1
11	151-610/21	**Reamer Conical,** 128 mm, Ø 21 mm	1
12	151-610/22	**Reamer Conical,** 128 mm, Ø 22 mm	1
13	151-610/23	**Reamer Conical,** 128 mm, Ø 23 mm	1
14	151-610/24	**Reamer Conical,** 128 mm, Ø 24 mm	1

151-10/00 Conical Cementless Stem Instruments & Trials, 158 mm – Yellow feet



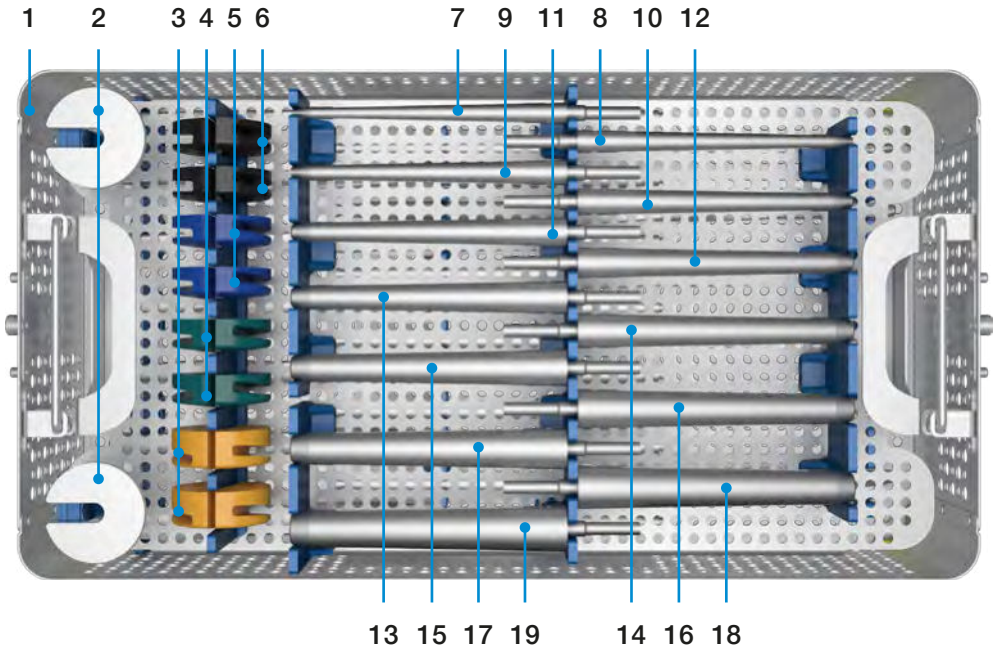
			Qty.
1	151-10/10	**Conical Cementless Stem Instruments & Trials, 158 mm Tray** – Upper Tray	1
2	151-718/00	**Reamer Stopper,** Tibia, XS-L	2
3	151-719/00	**Reamer Stopper,** Femur, XS	2
4	151-719/01	**Reamer Stopper,** Femur, S	2
5	151-719/02	**Reamer Stopper,** Femur, M	2
6	151-719/03	**Reamer Stopper,** Femur, L	2
7	151-130/12	**Trial Stem Conical, Cementless,** 158 mm, Ø 12 mm	1
8	151-130/13	**Trial Stem Conical, Cementless,** 158 mm, Ø 13 mm	1
9	151-130/14	**Trial Stem Conical, Cementless,** 158 mm, Ø 14 mm	1
10	151-130/15	**Trial Stem Conical, Cementless,** 158 mm, Ø 15 mm	1
11	151-130/16	**Trial Stem Conical, Cementless,** 158 mm, Ø 16 mm	1
12	151-130/17	**Trial Stem Conical, Cementless,** 158 mm, Ø 17 mm	1
13	151-130/18	**Trial Stem Conical, Cementless,** 158 mm, Ø 18 mm	1
14	151-130/19	**Trial Stem Conical, Cementless,** 158 mm, Ø 19 mm	1
15	151-130/20	**Trial Stem Conical, Cementless,** 158 mm, Ø 20 mm	1
16	151-130/21	**Trial Stem Conical, Cementless,** 158 mm, Ø 21 mm	1
17	151-130/22	**Trial Stem Conical, Cementless,** 158 mm, Ø 22 mm	1
18	151-130/23	**Trial Stem Conical, Cementless,** 158 mm, Ø 23 mm	1
19	151-130/24	**Trial Stem Conical, Cementless,** 158 mm, Ø 24 mm	1

151-10/00 Conical Cementless Stem Instruments & Trials, 158 mm – Yellow feet



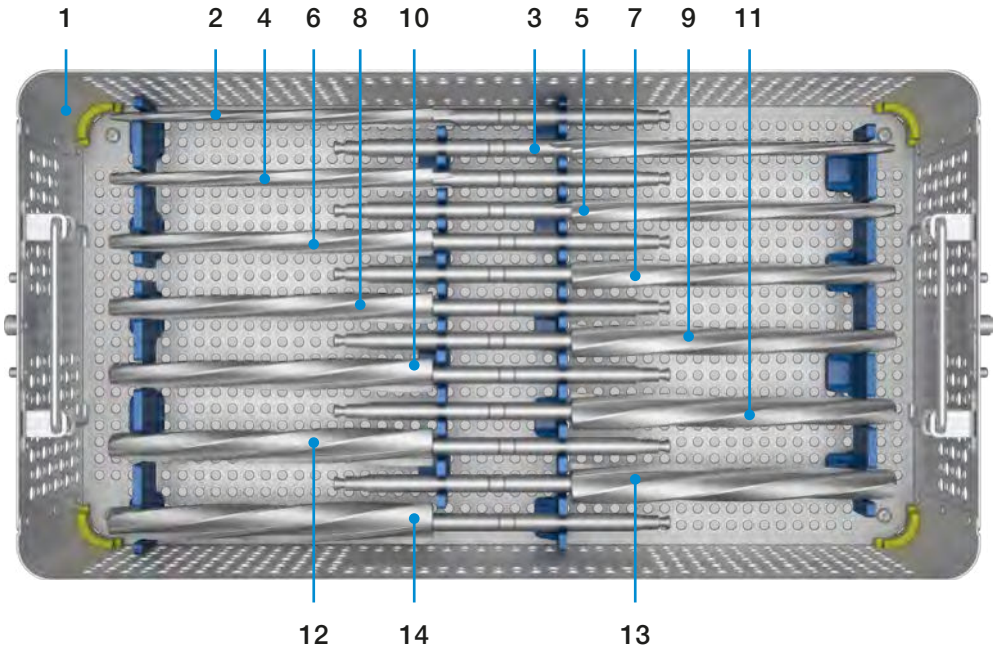
			Qty.
1	151-10/10	**Conical Cementless Stem Instruments & Trials, 158 mm Tray** – Lower Tray	1
2	151-613/12	**Reamer Conical,** 158 mm, Ø 12 mm	1
3	151-613/13	**Reamer Conical,** 158 mm, Ø 13 mm	1
4	151-613/14	**Reamer Conical,** 158 mm, Ø 14 mm	1
5	151-613/15	**Reamer Conical,** 158 mm, Ø 15 mm	1
6	151-613/16	**Reamer Conical,** 158 mm, Ø 16 mm	1
7	151-613/17	**Reamer Conical,** 158 mm, Ø 17 mm	1
8	151-613/18	**Reamer Conical,** 158 mm, Ø 18 mm	1
9	151-613/19	**Reamer Conical,** 158 mm, Ø 19 mm	1
10	151-613/20	**Reamer Conical,** 158 mm, Ø 20 mm	1
11	151-613/21	**Reamer Conical,** 158 mm, Ø 21 mm	1
12	151-613/22	**Reamer Conical,** 158 mm, Ø 22 mm	1
13	151-613/23	**Reamer Conical,** 158 mm, Ø 23 mm	1
14	151-613/24	**Reamer Conical,** 158 mm, Ø 24 mm	1

151-11/00 Conical Cementless Stem Instruments & Trials, 188 mm – Yellow feet



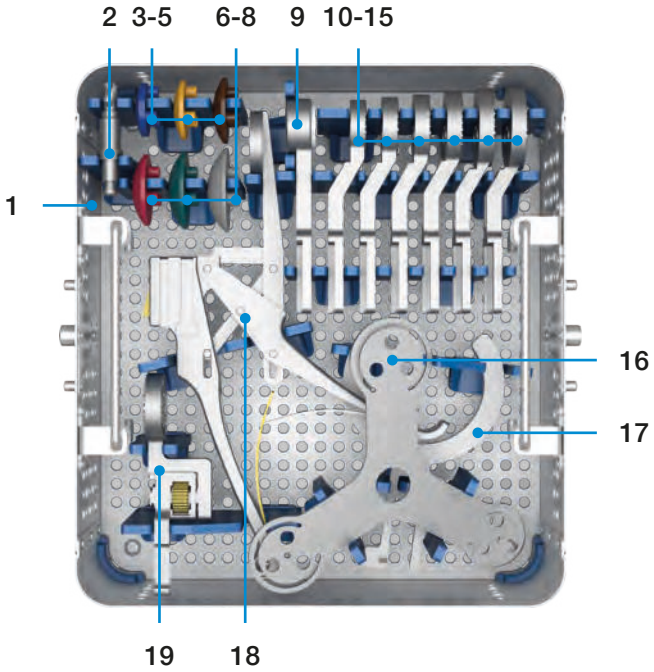
			Qty.
1	151-11/11	**Conical Cementless Stem Instruments & Trials, 188 mm Tray** – Upper Tray	1
2	151-718/00	**Reamer Stopper,** Tibia, XS-L	2
3	151-719/00	**Reamer Stopper,** Femur, XS	2
4	151-719/01	**Reamer Stopper,** Femur, S	2
5	151-719/02	**Reamer Stopper,** Femur, M	2
6	151-719/03	**Reamer Stopper,** Femur, L	2
7	151-160/12	**Trial Stem Conical, Cementless,** 188 mm, Ø 12 mm	1
8	151-016/13	**Trial Stem Conical, Cementless,** 188 mm, Ø 13 mm	1
9	151-160/14	**Trial Stem Conical, Cementless,** 188 mm, Ø 14 mm	1
10	151-016/15	**Trial Stem Conical, Cementless,** 188 mm, Ø 15 mm	1
11	151-160/16	**Trial Stem Conical, Cementless,** 188 mm, Ø 16 mm	1
12	151-160/17	**Trial Stem Conical, Cementless,** 188 mm, Ø 17 mm	1
13	151-160/18	**Trial Stem Conical, Cementless,** 188 mm, Ø 18 mm	1
14	151-160/19	**Trial Stem Conical, Cementless,** 188 mm, Ø 19 mm	1
15	151-160/20	**Trial Stem Conical, Cementless,** 188 mm, Ø 20 mm	1
16	151-160/21	**Trial Stem Conical, Cementless,** 188 mm, Ø 21 mm	1
17	151-160/22	**Trial Stem Conical, Cementless,** 188 mm, Ø 22 mm	1
18	151-160/23	**Trial Stem Conical, Cementless,** 188 mm, Ø 23 mm	1
19	151-160/24	**Trial Stem Conical, Cementless,** 188 mm, Ø 24 mm	1

151-11/00 Conical Cementless Stem Instruments & Trials, 188 mm – Yellow feet



			Qty.
1	151-11/11	**Conical Cementless Stem Instruments & Trials, 188 mm Tray** – Lower Tray	1
2	151-616/12	**Reamer Conical,** 188 mm, Ø 12 mm	1
3	151-616/13	**Reamer Conical,** 188 mm, Ø 13 mm	1
4	151-616/14	**Reamer Conical,** 188 mm, Ø 14 mm	1
5	151-616/15	**Reamer Conical,** 188 mm, Ø 15 mm	1
6	151-616/16	**Reamer Conical,** 188 mm, Ø 16 mm	1
7	151-616/17	**Reamer Conical,** 188 mm, Ø 17 mm	1
8	151-616/18	**Reamer Conical,** 188 mm, Ø 18 mm	1
9	151-616/19	**Reamer Conical,** 188 mm, Ø 19 mm	1
10	151-616/20	**Reamer Conical,** 188 mm, Ø 20 mm	1
11	151-616/21	**Reamer Conical,** 188 mm, Ø 21 mm	1
12	151-616/22	**Reamer Conical,** 188 mm, Ø 22 mm	1
13	151-616/23	**Reamer Conical,** 188 mm, Ø 23 mm	1
14	151-616/24	**Reamer Conical,** 188 mm, Ø 24 mm	1

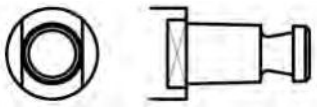
881-009/00 Patella Instruments & Trials – Blue feet



			Qty.
1	881-090/00	**LinkSymphoKnee Patella Instruments & Trials Tray**	1
2	881-012/00	**Universal Drill,** Hudson Fitting	1
3	881-501/25	**Patella Trial,** Ø 25 mm, H = 6 mm	1
4	881-501/28	**Patella Trial,** Ø 28 mm, H = 6 mm	1
5	881-501/31	**Patella Trial,** Ø 31 mm, H = 7 mm	1
6	881-501/34	**Patella Trial,** Ø 34 mm, H = 8 mm	1
7	881-501/37	**Patella Trial,** Ø 37 mm, H = 9 mm	1
8	881-501/40	**Patella Trial,** Ø 40 mm, H = 10 mm	1
9	445-904/00	**Patella Clamp,** Clamp Arm	1
10	881-511/25	**Patella Drill Guide,** Ø 25 mm	1
11	881-511/28	**Patella Drill Guide,** Ø 28 mm	1
12	881-511/31	**Patella Drill Guide,** Ø 31 mm	1
13	881-511/34	**Patella Drill Guide,** Ø 34 mm	1
14	881-511/37	**Patella Drill Guide,** Ø 37 mm	1
15	881-511/40	**Patella Drill Guide,** Ø 40 mm	1
16	881-509/00	**Patella Sizing Template**	1
17	445-903/00	**Patella Clamp,** Resection Guide	1
18	445-902/00	**Patella Clamp,** Handle	1
19	881-500/00	**Patella Depth Gauge**	1

Additional Instruments

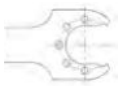
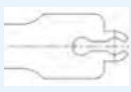
Hudson Fitting (B)
Standard tool connection.



Adapter for power tool chuck
Different adapters are available to ensure compatibility to allow various connections:

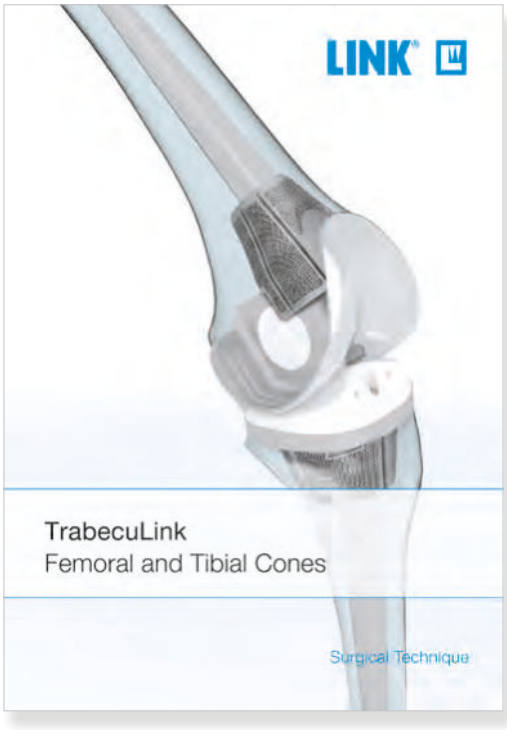
REF	Attachment	
16-3283/01	Jakobs Fitting (E)	
16-3284/00	AO Fitting (D)	
16-3285/00	Harris Fitting (C)	

Sawblades,
without offset teeth, 1.24 mm thick

Width (**A**) 25 mm	Width (**A**) 13 mm	Fitting	
317-654/10	317-656/10	Synthes	
317-654/11	317-656/11	Aesculap Combi	
317-654/13	317-656/13	Zimmer / Hall Combi	
317-654/14	317-656/14	Stryker System 4	

X-ray Templates

REF	**X-ray templates for LinkSymphoKnee CCK**
881-750/00	**To be used with LinkSymphoKnee CCK,** 110% actual size



For more information please register for our LINK Media Library (linkorthopaedics.com)

Specified Indications and Contraindications: *LinkSymphoKnee* System
LinkSymphoKnee Cruciate Retaining Fixed Bearing (CR FB)
Indications:
Any form of uni-, bi- or tricompartimental arthritis of the knee joint (e.g. primary degenerative arthritis, secondary arthritis resulting from rheumatoid arthritis, fracture, post-infection, gout, chondrocalcinosis and others)
Contraindications (absolute):
Acute and chronic infections, local and systemic, insofar as they may compromise the successful implantation
Moderate or severe instability or complete loss of the medial or lateral collateral ligament
Instability or loss of the posterior cruciate ligament
Any bone defect that will result in insufficient implant fixation (based on the fact, that using stems, bone grafts and metal bone substitutes like cones, a minimum bone stock for implant fixation cannot be defined)
Severe insufficiency or loss of extensor mechanism
Contraindications (relative):
Extension deficit >30°
Varus or valgus deformity >30°
Allergy to one of the implant materials
LinkSymphoKnee Posterior Stabilized Fixed Bearing and All-Poly (PS FB and PS All-Poly)
Indications:
Any form of uni-, bi- or tricompartimental arthritis of the knee joint (e.g. primary degenerative arthritis, secondary arthritis resulting from rheumatoid arthritis, fracture, post-infection, gout, chondrocalcinosis and others)
Contraindications (absolute):
Acute and chronic infections, local and systemic, insofar as they may compromise the successful implantation
Moderate or severe instability or complete loss of the medial or lateral collateral ligament
Any bone defect that will result in insufficient implant fixation (based on the fact, that using stems, bone grafts and metal bone substitutes like cones, a minimum bone stock for implant fixation cannot be defined)
Severe insufficiency or loss of extensor mechanism
Contraindications (relative):
Allergy to one of the implant materials
LinkSymphoKnee Posterior Stabilized Plus Fixed Bearing (PS+ FB)
Indications:
Any form of uni-, bi- or tricompartimental arthritis of the knee joint (e.g. primary degenerative arthritis, secondary arthritis resulting from rheumatoid arthritis, fracture, post-infection, gout, chondrocalcinosis and others)
Contraindications (absolute):
Acute and chronic infections, local and systemic, insofar as they may compromise the successful implantation
Severe instability or complete loss of the medial or lateral collateral ligament
Any bone defect that will result in insufficient implant fixation (based on the fact, that using stems, bone grafts and metal bone substitutes like cones, a minimum bone stock for implant fixation cannot be defined)
Severe insufficiency or loss of extensor mechanism
Contraindications (relative):
Situations in which an overall leg alignment will result, that is outside a range of 5° varus or valgus in reference to the mechanical axis. In such a situation the PS+ mechanism may fail over time as a result of the shear forces
Allergy to one of the implant materials
LinkSymphoKnee Condylar Constrained Knee Fixed Bearing (CCK FB)
Indications:
Predominantly to be used in cases where previous implants have failed. According to surgeons' assessment it also may be used for any form of uni-, bi- or tricompartimental arthritis of the knee joint (e.g. primary degenerative arthritis, secondary arthritis resulting from rheumatoid arthritis, fracture, post-infection, gout, chondrocalcinosis and others).
Contraindications (absolute):
Acute and chronic infections, local and systemic, insofar as they may compromise the successful implantation
Complete loss of the medial or lateral collateral ligament
Any bone defect that will result in insufficient implant fixation (based on the fact, that using stems, bone grafts and metal bone substitutes like cones, a minimum bone stock for implant fixation cannot be defined)
Severe insufficiency or loss of extensor mechanism
Contraindications (relative):
Situations in which an overall leg alignment will result, that is outside a range of 5° varus or valgus in reference to the mechanical axis. In such a situation the CC mechanism may fail over time as a result of the shear forces
Allergy to one of the implant materials

Implants with TiNbN-Coating

In contrast to all other implants an allergy against one of the implant materials is not a contraindication. Otherwise the above mentioned indications and contraindications depending on the design of the TiNbN-coated implants remain the same.

Please note:

These indications/contraindications refer to standard cases. The ultimate decision on whether or not an implant is suitable for a patient must be made by the surgeon based on his/her individual analysis and his/her experience.

Important Information

Please note the following regarding the use of our implants:

1. **Choosing the right implant is very important.**
   The size and shape of the human bone determines the size and shape of the implant and also limits the load capacity. Implants are not designed to withstand unlimited physical stress. Demands should not exceed normal functional loads.

2. **Correct handling of the implant is very important.**
   Under no circumstances should the shape of a finished implant be altered, as this shortens its life span. Our implants must not be combined with implants from other manufacturers. The instruments indicated in the Surgical Technique must be used to ensure safe implantation of the components.

3. **Implants must not be reused.**
   Implants are supplied sterile and are intended for single use only. Used implants must not be used again.

4. **After-treatment is also very important.**
   The patient must be informed of the limitations of the implant. The load capacity of an implant cannot compare with that of healthy bone!

5. **Unless otherwise indicated, implants are supplied in sterile packaging.**
   Note the following conditions for storage of packaged implants:
- Avoid extreme or sudden changes in temperature.
- Sterile implants in their original, intact protective packaging may be stored in permanent buildings up until the “Use by” date indicated on the packaging.
- They must not be exposed to frost, dampness or direct sunlight, or mechanical damage.
- Implants may be stored in their original packaging for up to 5 years after the date of manufacture. The “Use by” date is indicated on the product label.
- Do not use an implant if the packaging is damaged.

6. **Traceability is important.**
   Please use the documentation stickers provided to ensure traceability.

7. **Further information** on the material composition is available on request from the manufacturer.

Follow the instructions for use!

Waldemar Link GmbH & Co. KG, Hamburg

Waldemar Link GmbH & Co. KG

Barkhausenweg 10 · 22339 Hamburg · Germany
Phone +49 40 53995-0 · info@link-ortho.com
www.link-ortho.com