

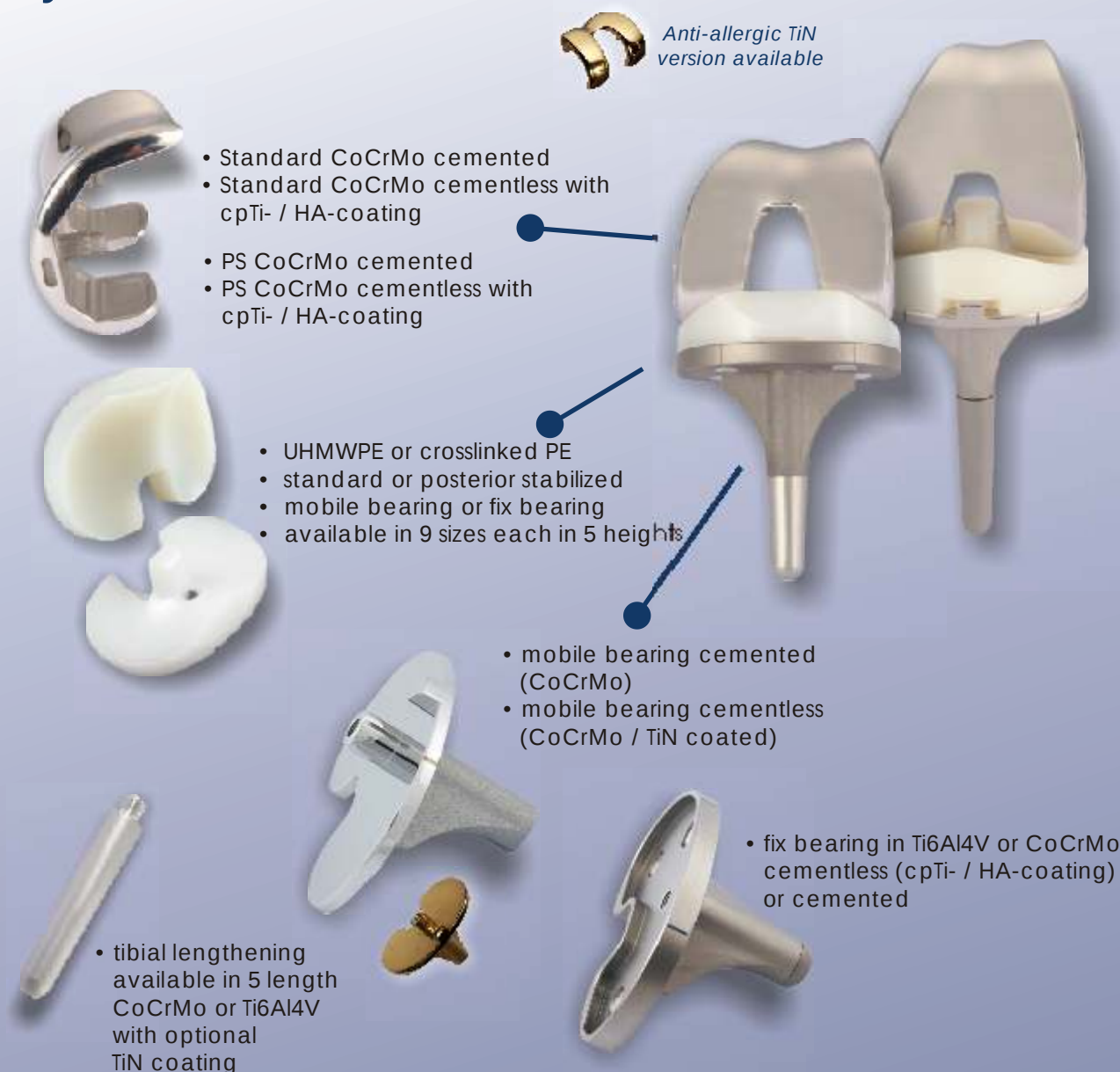


4+1 **Quadrofit** Total Knee System



Surgical Technique 4 in 1

System overview



Anti-allergic TiN
version available

- Standard CoCrMo cemented
- Standard CoCrMo cementless with cpTi- / HA-coating
- PS CoCrMo cemented
- PS CoCrMo cementless with cpTi- / HA-coating

- UHMWPE or crosslinked PE
- standard or posterior stabilized
- mobile bearing or fix bearing
- available in 9 sizes each in 5 heights

- mobile bearing cemented (CoCrMo)
- mobile bearing cementless (CoCrMo / TiN coated)

- fix bearing in Ti6Al4V or CoCrMo cementless (cpTi- / HA-coating) or cemented

- tibial lengthening available in 5 length CoCrMo or Ti6Al4V with optional TiN coating

Concept and history of development

The system was fundamentally re-optimized in the years 2004 to 2007 by detailed analysis of different implant models and further developments of previous versions.

The system has been implanted meanwhile more than 48,000 times and is used today in more than 20 countries worldwide.*

The femoral shield was anatomically optimized and made very thin-walled. In order to be able to fulfill a wide variety of customer requirements, the system has been supplemented / completed with numerous implant options, intermediate sizes and instrument variants.



- Wedges in 12 sizes in Ti6Al4V and with an optional TiN-coating available



- available in crosslinked or UHMWPE
- standard or resurfacing Version

* January 2018

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Using of Tibial Stage Intramedullary Cutting Guide

Entering on the place which is sticked by anterior cruciate ligament to the tibia with using the Drill for Total Knee System Ø10 mm (Ref:EE0651S100N).

Additional Info:

Use the Drill for Total Knee System Ø10 mm.

When drilling the tibia, could be also used for intramedullary entering the femoral canal.



Intramedular Rod for Tibia (Ref:EE0802S055N) and the Tibial Support (Ref:EE0851S125N) are settled as deep as possible into the tibia.

Tibial guide is inserted to the tibial support and besides screw is fixed by Screwdriver Ø3.5 mm (Ref:EE0401N065N).

Set the tibial slope at 0° by turning the frontal screw on the tibial guide.

90° Tibial Cutting Block (left/right) (Ref:EE1201N11..) is fixed on the tibial guide's peak point with using the fixation screw.

Insert the Telescope (Ref:EE0851S171N) into the tube of tibial guide.



Attention :

Ensure that the screw located into the Tibial Guide (Ref:EE0851S151N) is directly facing the center of the tibial plate (the junction of the internal third and two external thirds of the tibial tuberosity).

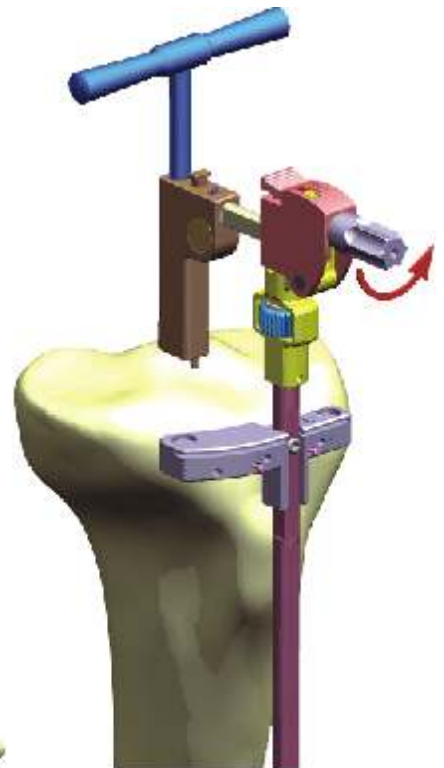
Setting The Tibial Slope

Adjust the posterior slope between 0° and 10° on the scale of the Tibial Guide (Ref:EE0851S151N) by turning the frontal screws of the guide anticlockwise.

Attention:

The tibial slope should be set before setting the height of the cut. An excessive slope could damage the tibial insertion of the posterior cruciate ligament.

Be sure that the extended telescopic rod and the lower extremity end of the rod are aligned with the center of ankle joint. (2. Metatarsal is taken as an reference)

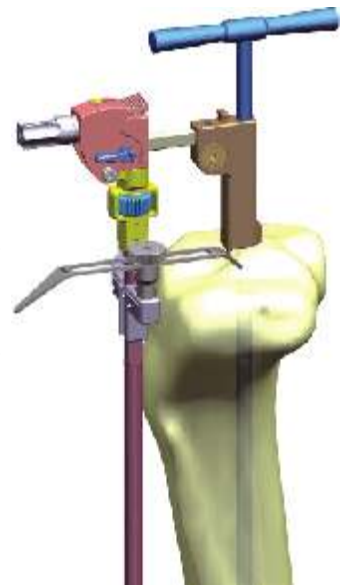
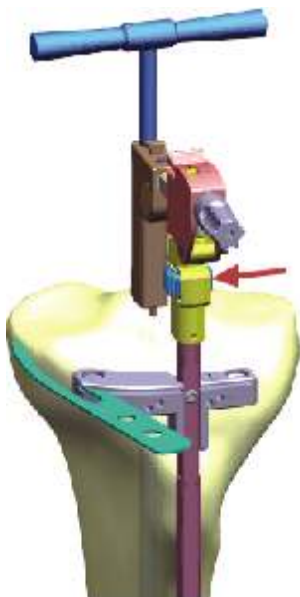


Setting The Level of The Cut

After tibial cutting block is placed; Tibial Stylus (Ref:EE0851S172N) is used for assessing cutting level. Aim is to make minimal cutting on the defected tibial condyle.

There are two setting options of tibial stylus:

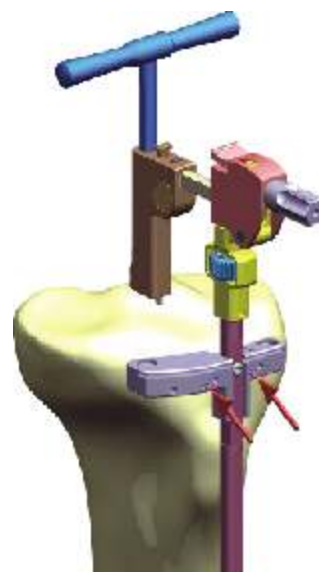
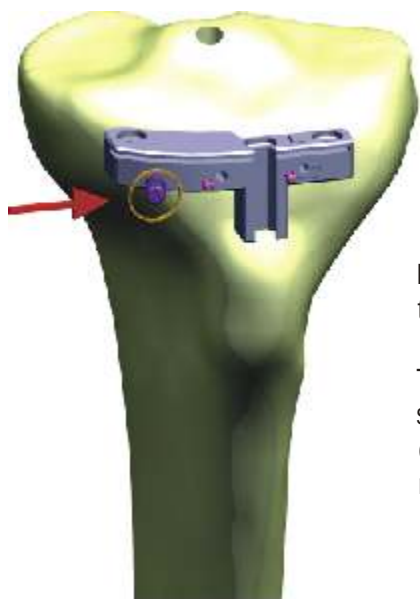
1. When the stylus is positioned from medial; making at the point of stylus should show 0 mm.
2. When the stylus is positioned from lateral; making at the point of stylus should show maximum 8 mm Cutting is able to made in 2 options.



Additionally be ensured that a sufficient cut of the contra-lateral compartment with the assistance of the Blade Runner (Ref:EE0851S173N) is made. If necessary use the micro-meter adjustment screw to adjust the level of the cut.

After determining the cutting level on the tibial cutting block, holes are drilled with Drill for Total Knee System Ø3.0 (Ref:EE0651S032N) and fixed by pin for Total Knee System Ø3.0 mm Tibial guide fixation screw is released.

Note: Screw pins are available on request.



Intramedullary rod is withdrawn and then tibial guide and following the tibial support are removed.

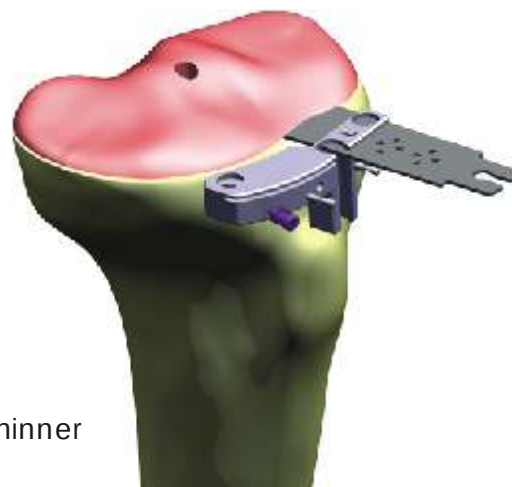
Tibial cutting block when in contact with the tibia is placed by sliding on the two pins. After tibial cutting guide's other fixing hole is drilled by Ø3.0 mm Drill Bit fixed by pins for Total Knee System Ø3.0 mm (Ref:EE0652N255N)

The tibial plateau cutting is performed.

During extension and flexion gap control, against the possibility of an additional 2 mm cut; tibial cutting block is removed but fixation pin should be kept on the tibial bone.

Attention:

Saw Blade for cutting should have a 1.2 mm thickness. A thinner blade causes improper cutting.



Using of The Tibial Extramedullary Alignment Guide

Assembling of The Upper Part

Tibial cutting block is settled on the tibial guide's peak point. It is fixed by fixation screw that is on the tibial Guide.

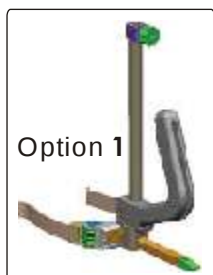
After that tibial guide is inserted into the tibial support and screw on the right side is fixed by Ø3.5mm screwdriver.

Tibial slope is set at 0° by turning the frontal screw on the tibial guide.

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Assembling of The Lower Part

Tibial Guide Attachment (Ref:EE0851S152N) Tibial Guide - Malleolar Pincer (Ref:EE0851S153N) and Tibial Guide - Malleolar Pincer Attachment (Ref:EE0851S154N) are mounted with taking 0 mm as reference.

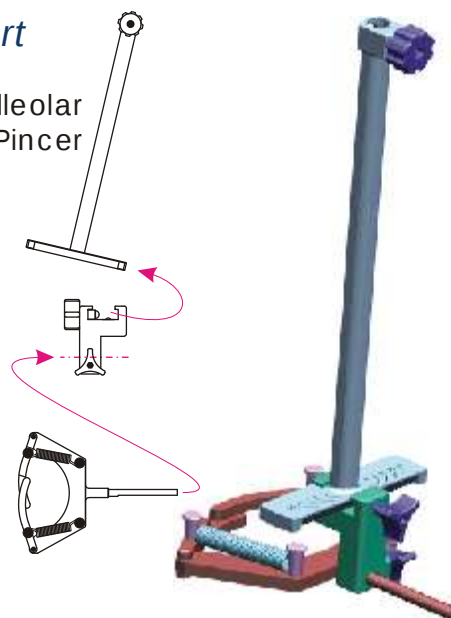


Option 1

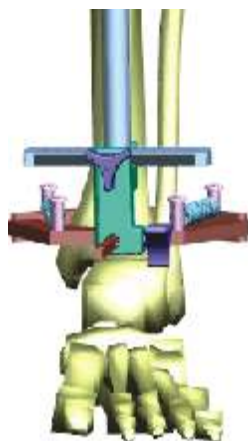
Option 2



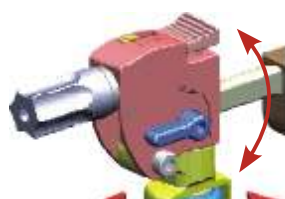
Positioning of The Guide



After lower and upper parts of extramedullary is assembled; Tibial Guide - Malleolar Pincer (Ref:EE0851S153N) is positioned in the center of distal ankle joint.



Tibial guide is settled in the Tibial Guide Attachment (Ref:EE0851S152N), it is positioned as 2. Metatarsal bone taken as a reference. The lower and upper sides of extramedullary guide are set to move into each other.



Tibial support is hammered with using pin Holder Pliers (Ref:EE0110S051N). The upper part of tibial guide is approached to the tibial support as like tibial cutting guide is located at 5 mm from tibial epiphysis and fixed by Ø3.5 mm screwdriver from screw which is on the side of guide.

Setting The Tibial Slope



Additional Info:

Tibial slope can be set according to patient's anatomy by moving the lower part of the extramedullary guide.

Attention:

The tibial slope should be set up before setting the level of the cut. Until the correct position of the tibial cutting block is determined; the upper and lower part of the tibial apparatus should be set to move into each other.

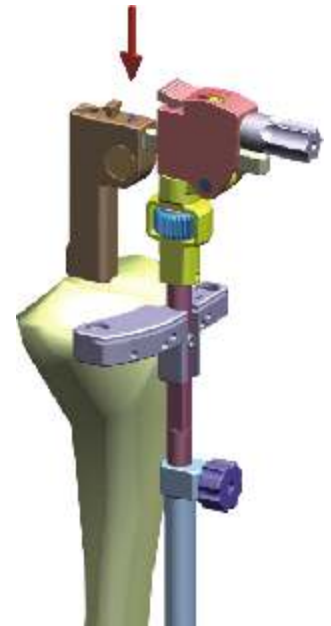
The choice of an excessive slope could damage the tibial insertion of the posterior cruciate ligament.

For this topic see also our product brochure and actual publications mentioned there.

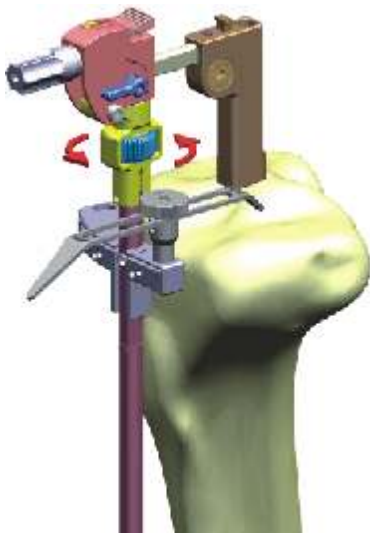
Setting The Rotation

The control of the rotation of the positioned tibial guide can be done by taking the fixation screw as reference for the center of the guide. The screw should face the center of the tibia.

The additional lower part which is positioned towards to the center of ankle joint should be checked. After the certainty that Intramedullary guide is in correct position, tibial support can now be hammered from the slot of its center with pins and fixed in the tibial surface.



Setting The Level of The Cut



After tibial cutting block is placed; Tibial Stylus (Ref:EE0851S172N) is used for assessing cutting level. Aim is to make minimal cutting on the defected tibial condyle. There are two setting options of tibial stylus:

1. When the stylus is positioned from medial; marking at the point of stylus should show 0 mm.
2. When the stylus is positioned from lateral; marking at the point of stylus should show maximum 8 mm.

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Ensure a sufficient cut of the contro-lateral compartment with the assistance of the Blade Runner (Ref:EE0851S173N). If necessary use the micrometer adjustment screw to adjust the level of the cut. After determinng the cutting level; 2 holes which are placed on the left and right bottom side of tibial cutting block; are drilled with Ø3.0 drill bit after that fixed with pin for Total Knee System Ø3.0 mm (Ref:EE0652N570N). Tibial guide fixation screw is released.

Attention:

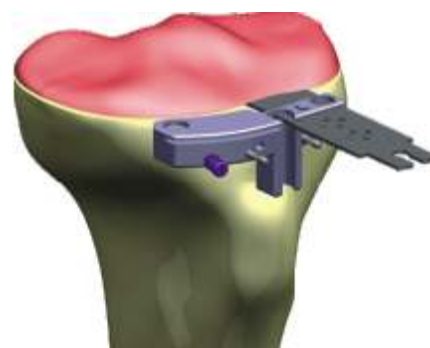
While tibial guide and extramedullary guide is being removed ensure that tibial cutting block is not moving.



Tibial cutting block when in contact with the tibia is placed by sliding on the two pins. After that tibial cutting guide's other fixing hole is drilled by Ø3.0 mm fixed by pin for Total Knee System Ø3.0 mm (Ref:EE0652N255N).

Tibial Cutting

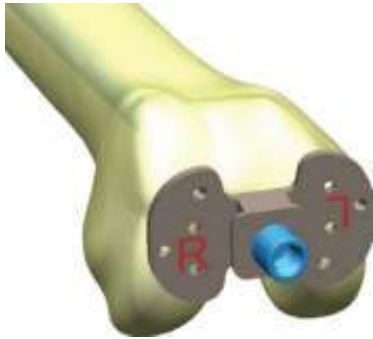
The tibial plateau cutting is performed using 1.2 mm sawblade.



During extension and flexion gap control; against the possibility of an additional 2 mm cut; tibial cutting block is removed, but fixation pins should be kept on the tibial bone.

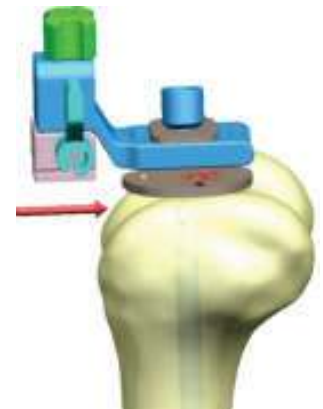
Femoral Distal Cutting Application (4in1)

The knee operation is positioned as 90°. Axis of the femur is drilled by Ø10 mm drill from front of the femoral insertion of the posterior cruciate ligament.



Distal Femur Guide for compact knee system (Ref: EE0802S07xN) is used according to Varus/ valgus angle as 0° / 3° / 5° / 6° / 9° right and left. Mount Femur Guide and Intramedullary Rod (Ref: EE0802S056N) until they touch to femur distal.

Then mount Distal Femur Guide with Femoral Distal Cutting Guide Attachment for Compact knee system (Ref: EE0860S001N) as follows.

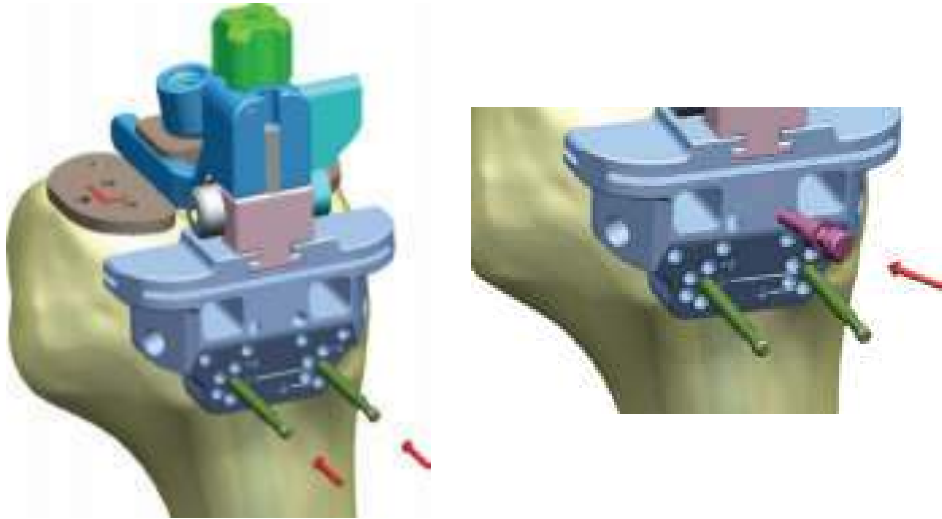


Mount Femur Distal Cutting Block for Compact knee system (Ref: EE0859S001N) with Femur Distal Cutting Guide Attachment. Ensure fixation by turning the clamping arm next to the Femur Distal Cutting Guide Attachment counterclockwise. In order to adjust the Femur Distal Cutting Guide attachment, turn the thumb wheel on the cutting guide counterclockwise until the cutting block is included in the defect area. Make sure to cut it at a sufficient level by using the Blade runner (Ref: EE0851S173N).

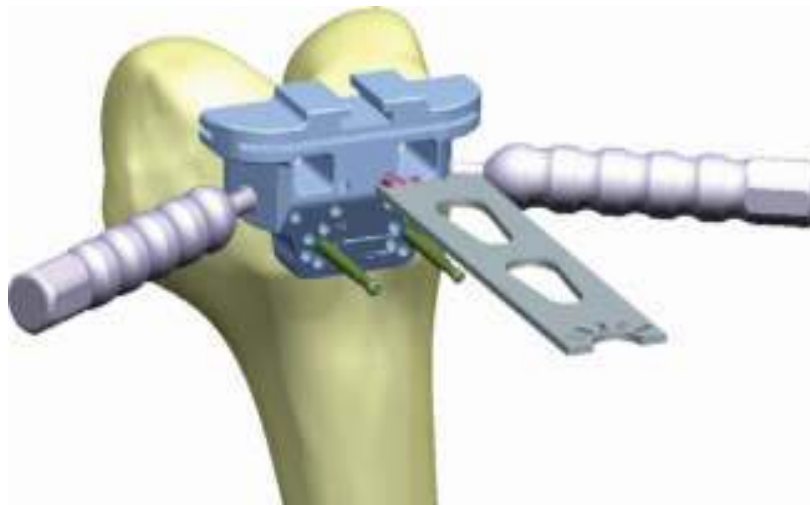
After the cut level is determined, make holes with Drill / Ø 3,0 (Ref: EE0651S032N) through No. 0 hole marked on the distal cut block.



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The cutting block is pinned on the reference hole by using the nail / Ø3,2x70 (Ref: EE0652N570N). The femur is fixed with pins Ø3x55 (Ref: EE0652N255N) by using angled holes in the right and left of the distal cutting block. Pin holder pliers (Ref: EE0110S051N) are used for nailing the pins.



If needed, the femur cutting block stabilization attachment for compact knee system (Ref: EE0852S013N) may be used. Once fixed, the femur distal cut adjustment apparatus and femur distal guide are removed.

The femur distal cut is performed with a 1.2 mm saw blade.

Preparation of Femur Anterior Size Gauge

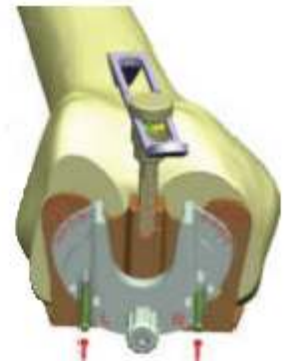
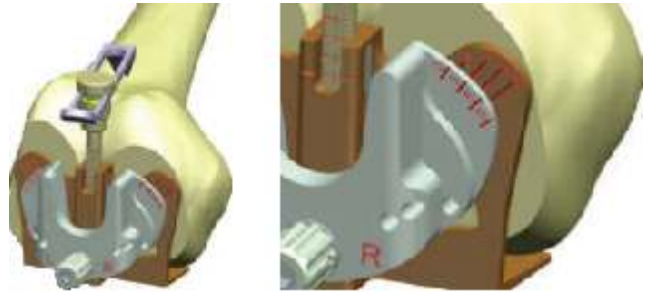
After the femur distal cutting is completed, place the femur anterior size gauge (Ref: EE0852S016N) in such a way to have contact with the femur distal and posterior condyle to determine the femur size measurement.

Pin / Ø3,2x70 (Ref: EE0652N570N) is driven. Once the size measurement is determined, remove the Femur anterior gauge.

Loosen the thumb wheel on the femur anterior size gauge and select the external rotation as 0° / 3° / 6° and 9° according to right and left bone. 3° external rotation is applied in general.

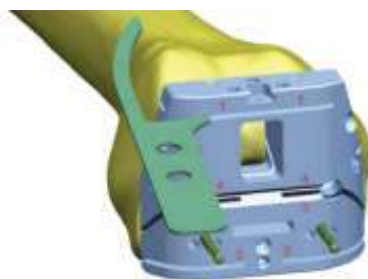
The measurement is performed by contacting to the highest point of the femur cortex with the stylus on the femur anterior size gauge.

Pin / Ø3,2x70 (Ref: EE0652N570N) is driven. Once the size measurement is determined, remove the Femur anterior gauge.



Other steps of Femur Cuts

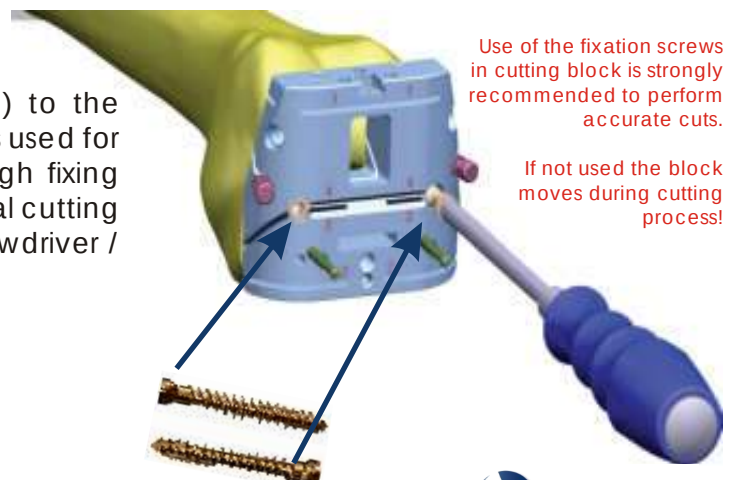
Insert the Femoral Cutting Block (Ref: EE1202N00xN) in compliance with the defined measurement until they contact with the femur distal plateau over the reference pins. The femur cutting block holder (Ref: EE0142S001N) is used for this step.



Check the cut level through the Blade Runner (Ref: EE0851S173N) over the femur cutting block slots. Make sure that the cut line doesn't slip into the femur cortex.



It's driven with pins Ø3x55 (Ref: EE0652N255N) to the femur. The Nail holder pliers (Ref: EE0110S051N) is used for nailing. Then, fixing is done by screwing through fixing holes on the femur cut block by means of Femoral cutting block fixing screws (Ref: EE0858S005N) and Screwdriver / 3.5 (Ref: EE0401N065N).



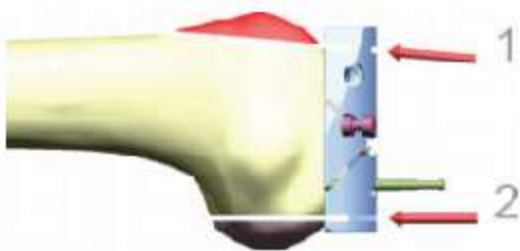
Use of the fixation screws in cutting block is strongly recommended to perform accurate cuts.

If not used the block moves during cutting process!

Surgical technique 4 in 1

After the femur cutting block is fixed, cut is performed with the 1.2 mm blade in the following order. In cases where the fixation of the femur cut block is not sufficient, the femur cutting block stabilization attachment (Ref: EE0852S013N) can be used.

1. Anterior
2. Posterior
3. Anterior Chamfer
4. Posterior Chamfer

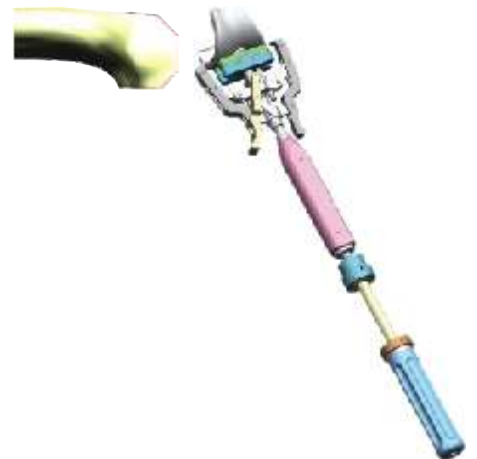


Inserting of the Femoral Test Component

For the Standard Implants:

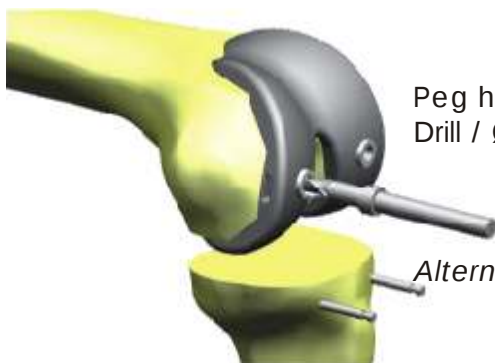
Femoral Component Test (Ref:EE0856NxxxN) is assembled to Femoral Component Impactor (Ref:EE0852S105N).

Femoral component test is hammered to femoral by hammering with Slide hammer (Ref:EE0852S032N).



For the Posterior Stabilized Implants:

Posterior Stabilization Shaft for femoral component test (Ref:EE0856N010N) is placed on the Femoral Component Test (Ref:EE0856NxxxN) after that is assembled to Slide hammer for total knee system (Ref:EE0852S032N).



Peg holes are drilled on femoral component test by Drill / Ø7 mm. (Ref: EE0651S070N).

Alternatively: perform this step after trial reduction.

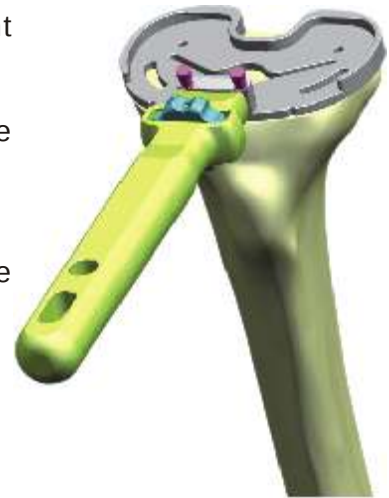
Determining of the Tibial Component

Suitable component test is chosen by using Tibial Component Test for Total Knee System (Ref:EE0851S00xN).

2 Pcs of pins for Total Knee System Ø2.5 mm (Ref: EE0652N240N) are driven into anterior positioned holes.

Additional Info:

In order to pre-determine the size of tibial insert measure the cutted part of tibial bone.

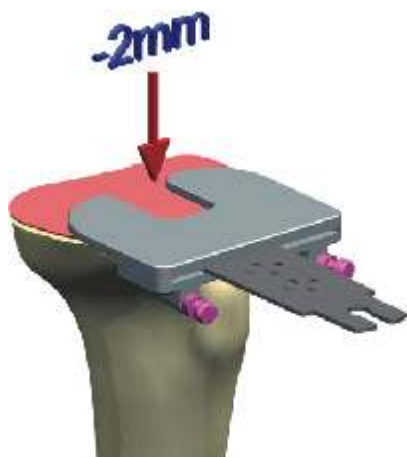
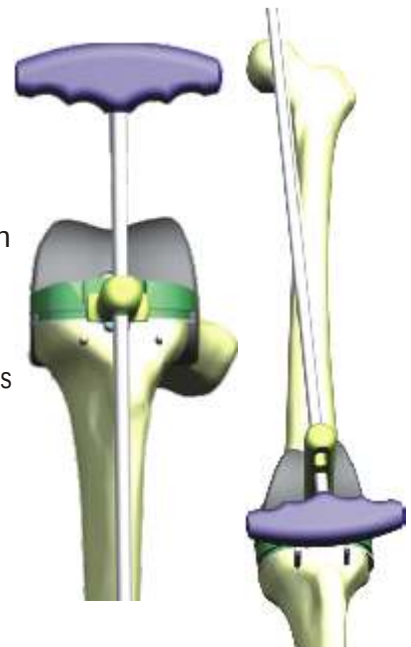


Suitable size of tibial insert test is placed and Tibial Component Test Handle (Ref:EE0851S010N) is assembled to the tibia component test.

Fixed femoral component test, femoral and tibial's gap of flexion and extension is controlled.

Attention :

If flexion and extension is suitable, flexion of tibial cutting guide is removed and continue the tibial preparation.



When gap of flexion and extension is not sufficient, tibial test component and tibial test insert are removed. Tibia Plateau Cutting Guide 2 mm (Ref:EE1201N122N) is placed on fixation pins of cutting block and 2 mm additional cut is made. Controlling of flexion and extension are re-done.

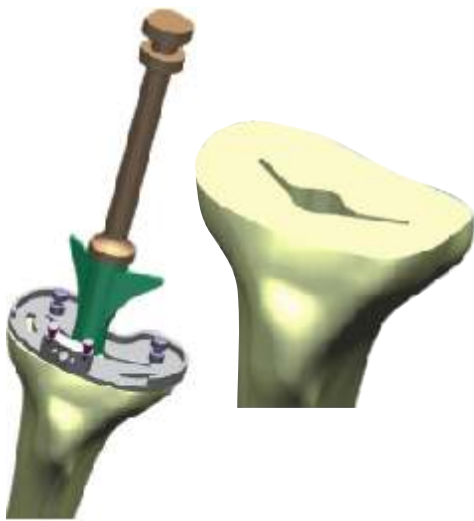
Surgical technique 4 in 1

If all stages are sufficient, tibial test insert is removed from tibial test component. 2 pcs of pins Ø2.5 mm (Ref:EE0652N140N) are driven into the posterior positioned holes for ensuring that tibial test component is in correct position; protecting the lateral slip could be occurred during the punching of the wing shaped slot and Barrel (Ref:EE0851S015N) is assembled.

Drilling is made by Drill/ Ø10 mm (Ref:EE0651S100N).

Attention :

If Tibial Stem (Ref: EB5391T0..) is not used, perform drilling up to first line on the drill. If Tibial Stem is used, perform drilling up to suitable line.



After drilling, the MB Punch Handle Attachment (Ref:EE0862S033N), the Puncher (Ref:EE0852S04xN) and the Slide hammer (Ref:EE0852S032N) are assembled together to create the frame of the wing shaped slot.

When adding an tibial stem after using the puncher itself, selected the tibial test stem is screwed to the end of the puncher and the whole unit is placed through the tibial component test to prepare necessary spot for implanting tibial stem. Tibial trial insert can be placed on the tibial component without removing placed puncher on tibial trial component for testing.



Tibial Baseplate



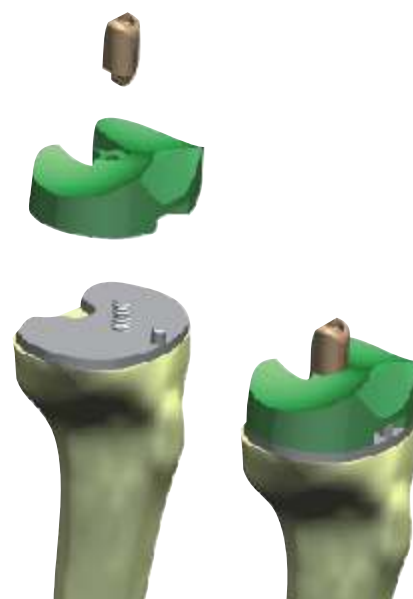
Depending on bone stock, intended lengthening could be achieved by 25 and 50 mm Tibial Stem is screwed to tibial component. Other sizes on request.

Assembly Of The Standard And PS Mobile Trial Inserts

End of the tibial preparation process if mobile knee system is used; after Medullary channel is reamed, Tibial Component Test (Ref:EE0851S00xN) is removed and MB Tibial Component Test (Ref:EE0861S00xN) is settled on its place.

For Mobile Standard System MB - Tibial Insert Test (Ref:EE0861S00xN)

For Mobile PS System after Posterior Stabilization attachment for Tibial Insert Test (Ref:EE0851N805N) is placed on MB Tibial Test Insert (Ref:EE0851S00xN), and they are settled on Mobile Bearing Tibial Component (Ref:EE0861S00xN).



Converting of Femoral to Posterior Stabilizier

1 cm notchplasty at the gap of 2 condyles by Notching Instrument (Ref:EE0852S004N), loosening bone is ensured as minimal. In this way posterior cruciate ligament is cutted. Tibial trial insert posterior stabilization attachment is ensured accordance with femoral component. Other instruments are optional available for this step.



Patella Stage Resurfacing Technique of Patella

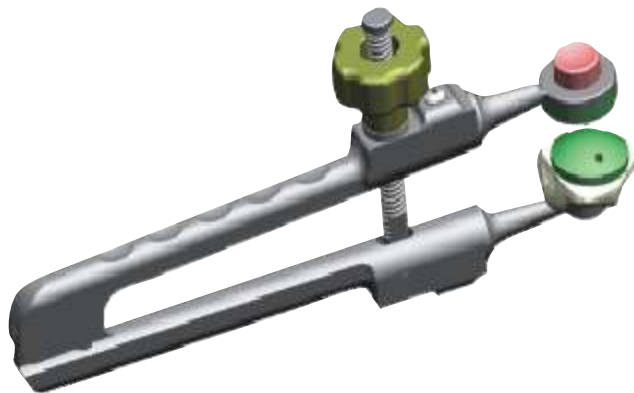
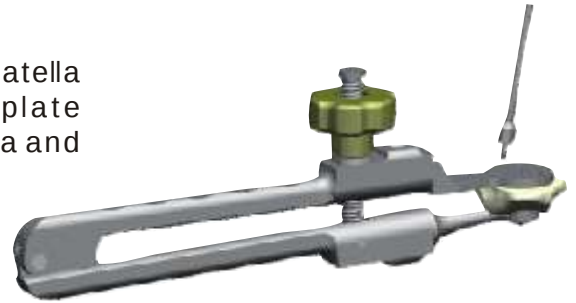
Patella Cutting Guide (Ref:EE0853N51xN) (Left/Right) is assembled into the Patella Clamp (Ref:EE0853N505N). After releasing the periphery of the patella carefully, Patella Cutting Guide is positioned in suitable cutting level by assistaning of the Patella Stylus (Ref:EE0853N561N), Patella Clamp is firmly locked.

Patella cut is performed through the slots of the cutting guide.



Surgical technique 4 in 1

After cut is completed; patella clamp is released and patella cutting attachment is removed. Drilling Template (Ref:EE0853N528N) is placed on the cutted part of patella and drilled by Ø5 mm drill.



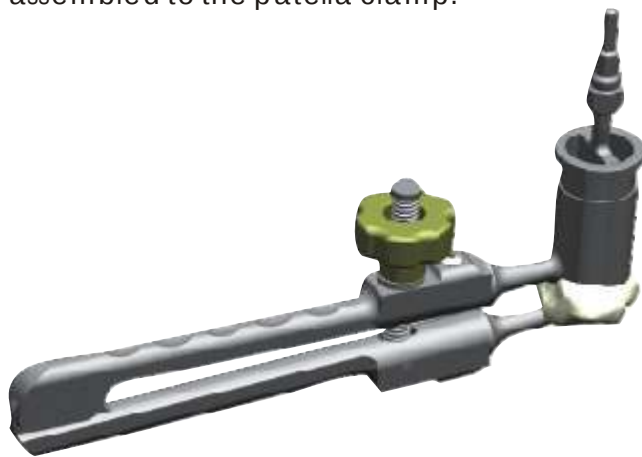
Patella Drilling Template is removed from the patella clamp.

Correct size is chosen from patella Patella Component Trial (Ref: EE0857N10xN) and positioned on the patella.

Inset Patella Technique

Patella size is determined by using different Barrel (Ref:EE0853N54xN) sizes.

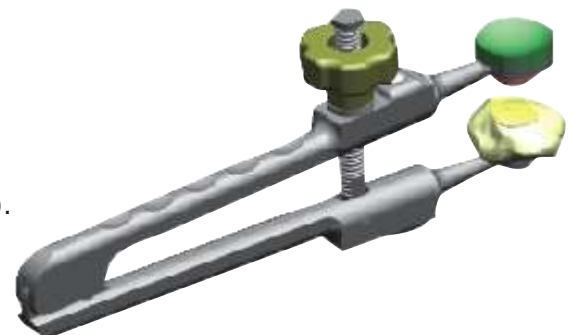
Patella Clamp Attachment with Pointed Jaw (Ref:EE0853N507N) and suitable size of Barrel are assembled to the patella clamp.



Ensure that Barrel is positioned on the right place. Suitable size reamer is placed in the Barrel and reamed till is contacted to upper part of Reamer.

If reamed holes are not enough, Barrel is removed, the depth can be reamed more.

Patella component Test is assembled with patella clamp.



Attention:

Surgical power tool should be operated after reamer is settled into the guide completely. To eliminate the risk of breaking the patella, reaming process should be performed as carefully, low speed and by closed patella clamp.

FAQ

The left / right tibial cutting blocks are not perfect for lateral approach to the knee joint. Is there another cutting block here?

For this approach, the left cutting block and vice versa can be taken on the right knee. Both blocks are designed for the same cut. The left-right versions exist only to pass the soft tissue better.

The left / right tibial cutting blocks can only be changed in level by 2 mm. Is there an alternative with more offset holes?

Yes, the latest versions contains 4 offset holes - ask for exchange

Are there other angle possible besides the angles 0°, 3°, 5°, 6° and 9° for the femoral axis alignment?

Yes, other angles are available on request!

When removing the pins on the femoral "Sizing Guide" the T-handle bothers me

here are two alternatives:

1) Select the short alignment rod with thread, this is available in standard instrumentation

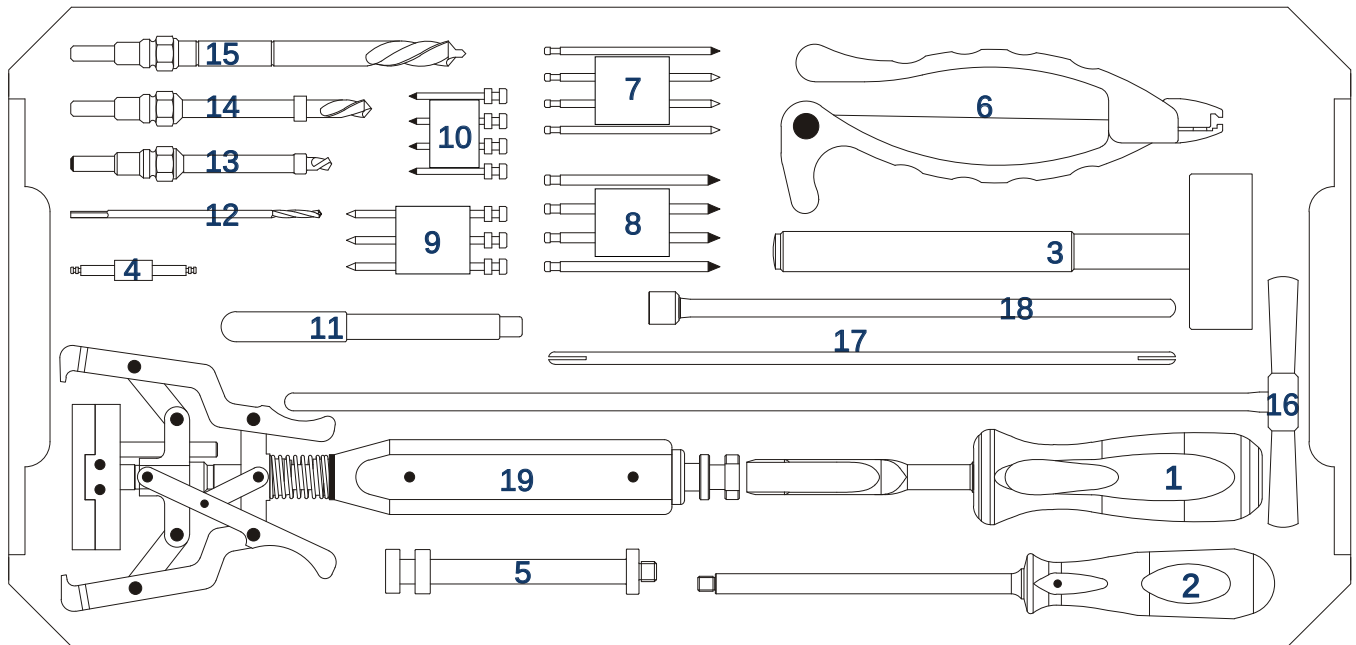
2) An alignment bar with removable handle is available on request

The cuts do not fit to implants or trials of femur, cutting is inaccurate!

Please use correct and sharp sawblade 1.2 mm

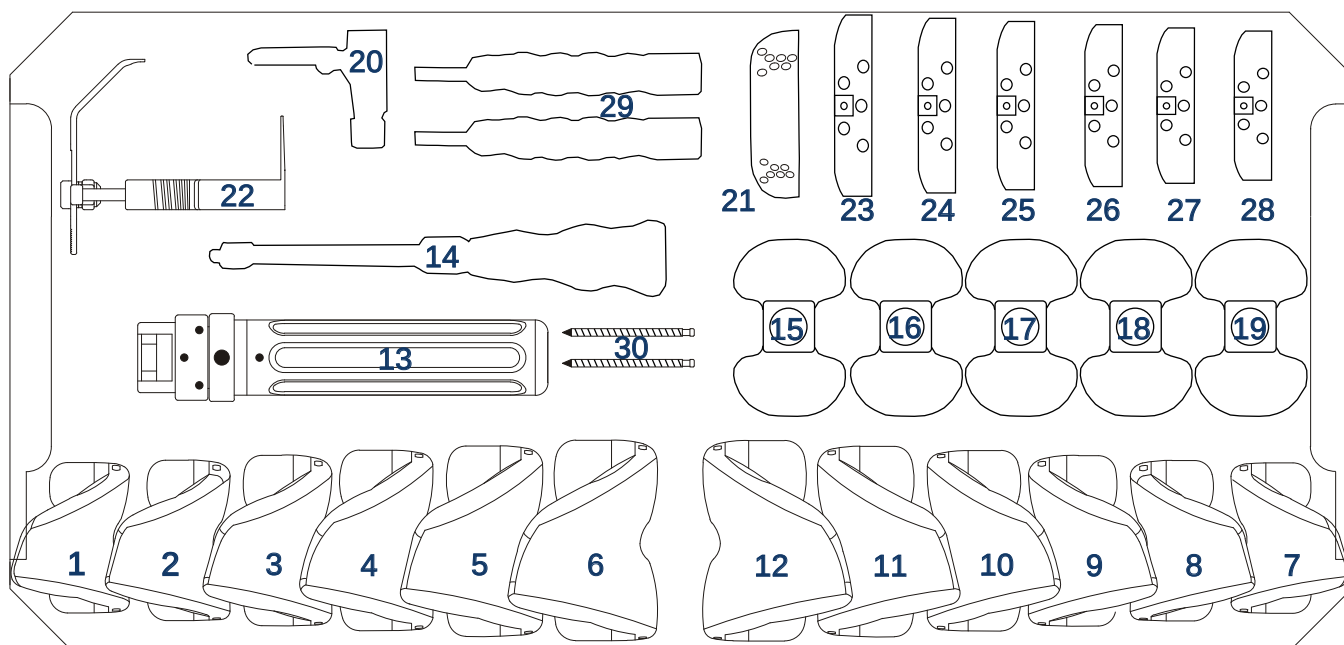
Please fix cutting blocks properly, especially the central screws in 4in1 block

Instruments



- | | |
|--|----------------------|
| 1 Notching instrument | Art.-Nr. EE0852S004N |
| 2 Femoral anterior sizing guide handle | Art.-Nr. EE0802N051N |
| 3 Universal Femoral component impactor | Art.-Nr. EE0715N005N |
| 4 Posterior stabilisation shaft for Femoral component test | Art.-Nr. EE0856N010N |
| 5 Punch handle | Art.-Nr. EE0852S033N |
| 6 Nail holder pliers | Art.-Nr. EE0110S051N |
| 7 Nail for total knee system / Ø 3,2 x 70 4pc. | Art.-Nr. EE0652N570N |
| 8 Nail for total knee system / Ø 4,0 x 70 4pc. | Art.-Nr. EE0652N670N |
| 9 Nail for total knee system / Ø 3,0 x 55 3pc. | Art.-Nr. EE0652N255N |
| 10 Nail for total knee system / Ø 2,5 x 40 4pc. | Art.-Nr. EE0652N240N |
| 11 Impactor pin for total knee system | Art.-Nr. EE0712S001N |
| 12 Drill for total knee system / Ø 3,0 | Art.-Nr. EE0651S032N |
| 13 Drill for total knee system / Ø 5,0 | Art.-Nr. EE0651S050N |
| 14 Drill for total knee system / Ø 7,0 | Art.-Nr. EE0651S070N |
| 15 Drill for total knee system / Ø 10,0 | Art.-Nr. EE0651S100N |
| 16 Intramedular rod for Tibia | Art.-Nr. EE0802S055N |
| 17 Telescope | Art.-Nr. EE0851S171N |
| 18 Intramedular rod for Femur | Art.-Nr. EE0802S056N |
| 19 Femoral component impactor | Art.-Nr. EE0852S105N |

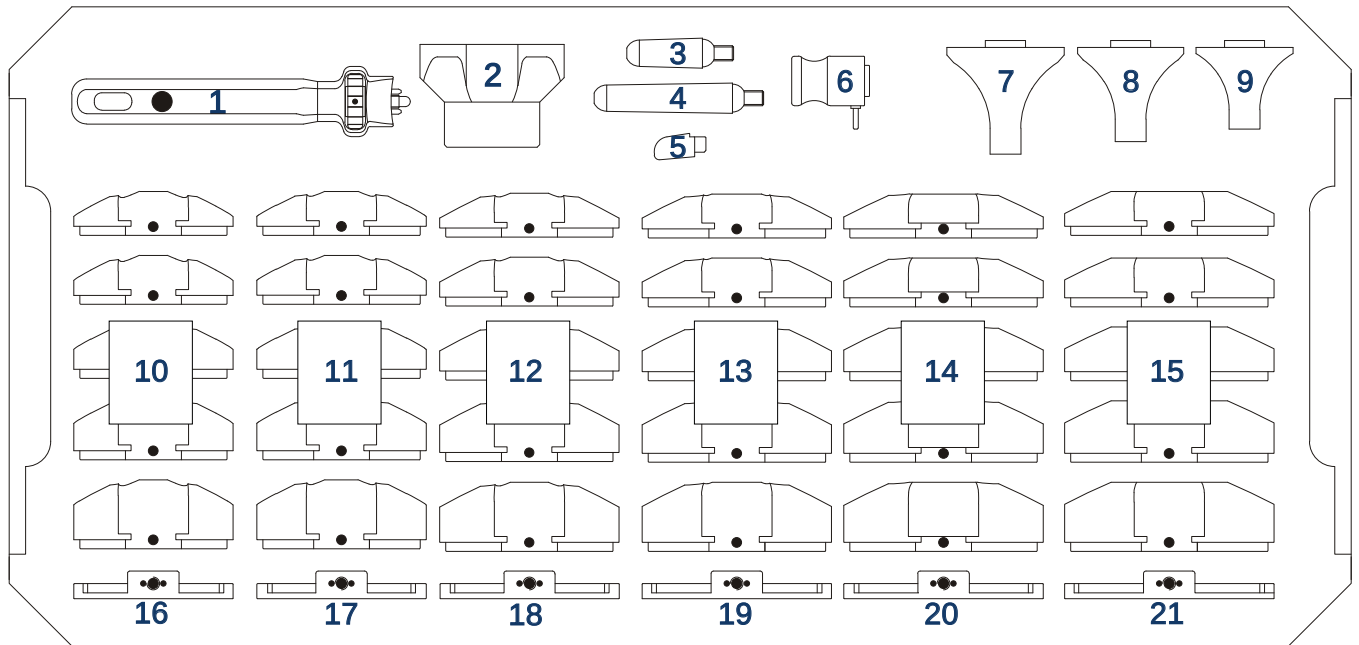
Tray overview Basic Instruments



- | | |
|--|----------------------|
| 1 Femoral component test / right - 0 | Art.-Nr. EE0856N100N |
| 2 Femoral component test / right - 1 | Art.-Nr. EE0856N101N |
| 3 Femoral component test / right - 2 | Art.-Nr. EE0856N102N |
| 4 Femoral component test / right - 3 | Art.-Nr. EE0856N103N |
| 5 Femoral component test / right - 4 | Art.-Nr. EE0856N104N |
| 6 Femoral component test / right - 5 | Art.-Nr. EE0856N105N |
| 7 Femoral component test / left - 0 | Art.-Nr. EE0856N200N |
| 8 Femoral component test / left - 1 | Art.-Nr. EE0856N201N |
| 9 Femoral component test / left - 2 | Art.-Nr. EE0856N202N |
| 10 Femoral component test / left - 3 | Art.-Nr. EE0856N203N |
| 11 Femoral component test / left - 4 | Art.-Nr. EE0856N204N |
| 12 Femoral component test / left - 5 | Art.-Nr. EE0856N205N |
| 13 Slide hammer for total knee system | Art.-Nr. EE0852S032N |
| 14 Cutting block holder for compact knee system | Art.-Nr. EE0142S001N |
| 15 Distal femur guide for compact knee system / 9° | Art.-Nr. EE0802S079N |
| 16 Distal femur guide for compact knee system / 6° | Art.-Nr. EE0802S076N |
| 17 Distal femur guide for compact knee system / 5° | Art.-Nr. EE0802S075N |
| 18 Distal femur guide for compact knee system / 3° | Art.-Nr. EE0802S073N |
| 19 Distal femur guide for compact knee system / 0° | Art.-Nr. EE0802S070N |
| 20 Femoral Distal Cutting Guide Attachment for compact knee system | Art.-Nr. EE0860S001N |
| 21 Femoral distal cutting block for compact knee system | Art.-Nr. EE0859S001N |
| 22 Anterior size gauge for compact knee system | Art.-Nr. EE0852S016N |
| 23 Femoral cutting block for compact knee system / 5 | Art.-Nr. EE1202N005N |
| 24 Femoral cutting block for compact knee system / 4 | Art.-Nr. EE1202N004N |
| 25 Femoral cutting block for compact knee system / 3 | Art.-Nr. EE1202N003N |
| 26 Femoral cutting block for compact knee system / 2 | Art.-Nr. EE1202N002N |
| 27 Femoral cutting block for compact knee system / 1 | Art.-Nr. EE1202N001N |
| 28 Femoral cutting block for compact knee system / 0 | Art.-Nr. EE1202N000N |
| 29 Cutting block stabilization attachment for compact knee system (2pc.) | Art.-Nr. EE0852S013N |
| 30 Femoral cutting block fixing screws for compact knee system (4pc.) | Art.-Nr. EE0858S005N |

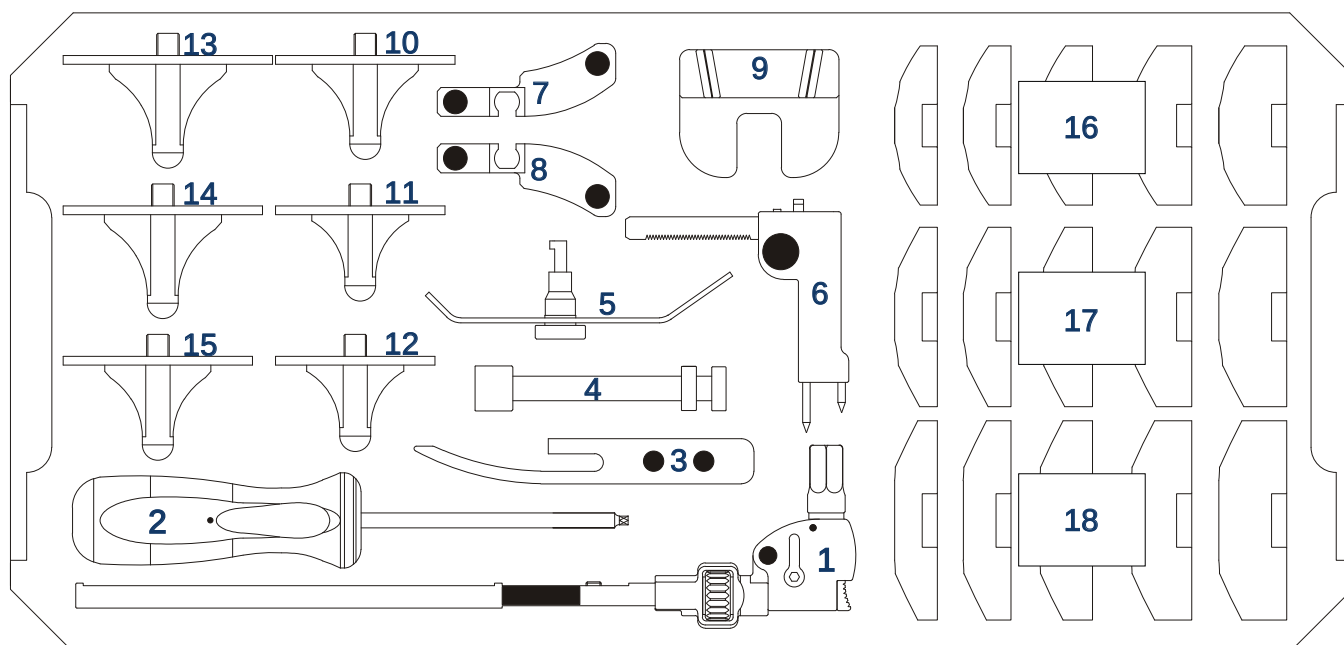
Tray overview Femur

Instruments



1 Tibial test handle	EE0851S010N	13 Tibial Insert Test / 3-8	EE0855N308N
2 Tibial impactor	EE0851S205N	Tibial Insert Test / 3-10	EE0855N310N
3 Tibial stem test 25	EE0851S325N	Tibial Insert Test / 3-12	EE0855N312N
4 Tibial stem test 50	EE0851S350N	Tibial Insert Test / 3-15	EE0855N315N
5 PS attachment	EE0851N805N	Tibial Insert Test / 3-18	EE0855N318N
6 Barrel	EE0851S015N	14 Tibial Insert Test / 4-8	EE0855N408N
7 Puncher / 4-5	EE0852S045N	Tibial Insert Test / 4-10	EE0855N410N
8 Puncher / 2-3	EE0852S043N	Tibial Insert Test / 4-12	EE0855N412N
9 Puncher / 0-1	EE0852S041N	Tibial Insert Test / 4-15	EE0855N415N
10 Tibial Insert Test / 0-8	EE0855N008N	Tibial Insert Test / 4-18	EE0855N418N
Tibial Insert Test / 0-10	EE0855N010N	15 Tibial Insert Test / 5-8	EE0855N508N
Tibial Insert Test / 0-12	EE0855N012N	Tibial Insert Test / 5-10	EE0855N510N
Tibial Insert Test / 0-15	EE0855N015N	Tibial Insert Test / 5-12	EE0855N512N
Tibial Insert Test / 0-18	EE0855N018N	Tibial Insert Test / 5-15	EE0855N515N
11 Tibial Insert Test / 1-8	EE0855N108N	Tibial Insert Test / 5-18	EE0855N518N
Tibial Insert Test / 1-10	EE0855N110N	16 Tibial test 0	EE0851S000N
Tibial Insert Test / 1-12	EE0855N112N	17 Tibial test 1	EE0851S001N
Tibial Insert Test / 1-15	EE0855N115N	18 Tibial test 2	EE0851S002N
Tibial Insert Test / 1-18	EE0855N118N	19 Tibial test 3	EE0851S003N
12 Tibial Insert Test / 2-8	EE0855N208N	20 Tibial test 4	EE0851S004N
Tibial Insert Test / 2-10	EE0855N210N	21 Tibial test 5	EE0851S005N
Tibial Insert Test / 2-12	EE0855N212N		
Tibial Insert Test / 2-15	EE0855N215N		
Tibial Insert Test / 2-18	EE0855N218N		

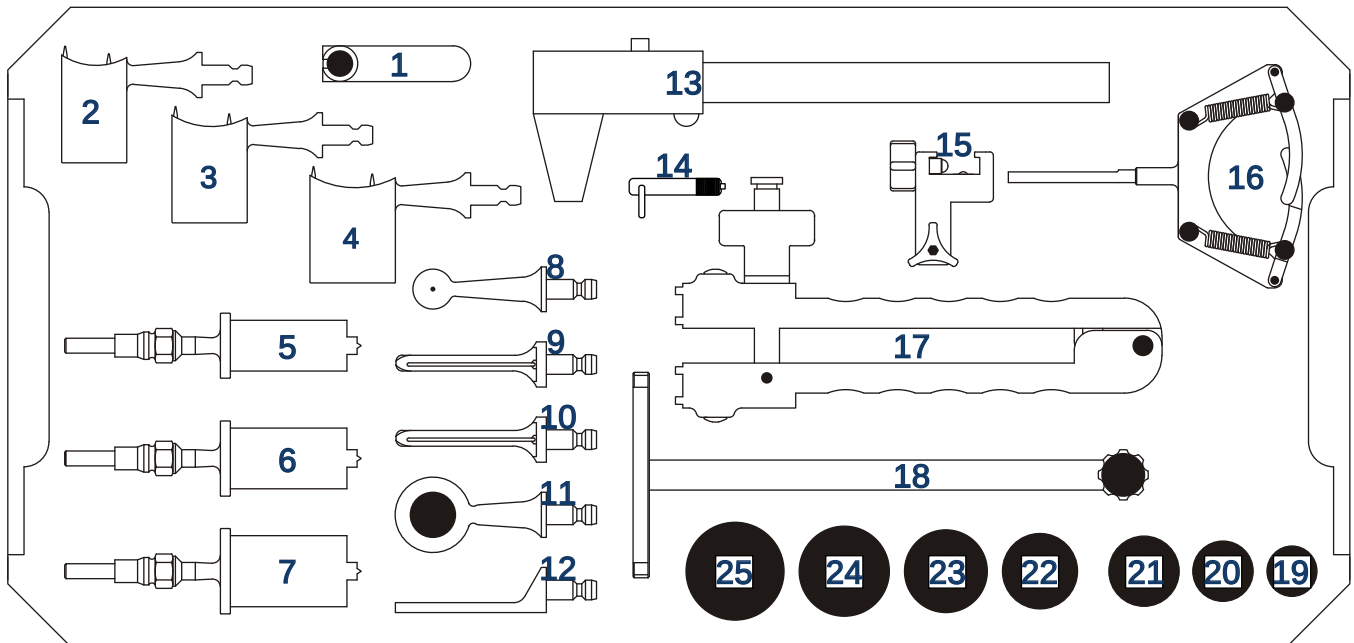
Tray overview Tibia (fix)



- | | |
|---|----------------------|
| 1 Tibial guide | Art.-Nr. EE0851S151N |
| 2 Screwdriver for total knee system / 3,5 | Art.-Nr. EE0401N065N |
| 3 Blade runner | Art.-Nr. EE0851S173N |
| 4 Mb punch handle attachment | Art.-Nr. EE0862S033N |
| 5 Tibial stylus | Art.-Nr. EE0851S172N |
| 6 Tibial support | Art.-Nr. EE0851S125N |
| 7 90° Tibial cutting guide / left | Art.-Nr. EE1201N112N |
| 8 90° Tibial cutting guide / right | Art.-Nr. EE1201N111N |
| 9 Tibial Plateau cutting guide / 2mm | Art.-Nr. EE1201N122N |
| 10 Mb Tibial component test / 0 | Art.-Nr. EE0861S000N |
| 11 Mb Tibial component test / 1 | Art.-Nr. EE0861S001N |
| 12 Mb Tibial component test / 2 | Art.-Nr. EE0861S002N |
| 13 Mb Tibial component test / 3 | Art.-Nr. EE0861S003N |
| 14 Mb Tibial component test / 4 | Art.-Nr. EE0861S004N |
| 15 Mb Tibial component test / 5 | Art.-Nr. EE0861S005N |
| 16 Mb Tibial Insert test / 0-8 | Art.-Nr. EE0861N008N |
| Mb Tibial Insert test / 0-10 | Art.-Nr. EE0861N010N |
| Mb Tibial Insert test / 0-12 | Art.-Nr. EE0861N012N |
| Mb Tibial Insert test / 0-15 | Art.-Nr. EE0861N015N |
| Mb Tibial Insert test / 0-18 | Art.-Nr. EE0861N018N |
| 17 Mb Tibial Insert test / 2-8 | Art.-Nr. EE0861N208N |
| Mb Tibial Insert test / 2-10 | Art.-Nr. EE0861N210N |
| Mb Tibial Insert test / 2-12 | Art.-Nr. EE0861N212N |
| Mb Tibial Insert test / 2-15 | Art.-Nr. EE0861N215N |
| Mb Tibial Insert test / 2-18 | Art.-Nr. NN0861N218N |
| 18 Mb Tibial Insert test / 4-8 | Art.-Nr. EE0861N408N |
| Mb Tibial Insert test / 4-10 | Art.-Nr. EE0861N410N |
| Mb Tibial Insert test / 4-12 | Art.-Nr. EE0861N412N |
| Mb Tibial Insert test / 4-15 | Art.-Nr. EE0861N415N |
| Mb Tibial Insert test / 4-18 | Art.-Nr. EE0861N418N |

Tibia (mob.)

Instruments



- 1** Patella Stylus
- 2** Barrel for Patella Clamp / 0
- 3** Barrel for Patella Clamp / 1
- 4** Barrel for Patella Clamp / 2
- 5** Patella Reamer / 0
- 6** Patella Reamer / 1
- 7** Patella Reamer / 2
- 8** Patella Clamp Attachment with pointed jaw
- 9** Patella cutting guide / right
- 10** Patella cutting guide / left
- 11** Patella pressurizing jaw
- 12** Drilling template
- 13** Calliper Gauge
- 14** Tibial guide malleoler pincer
- 15** Tibial guide malleoler pincer
- 16** Tibial guide malleoler pincer attachment
- 17** Patella Clamp
- 18** Tibial guice attachment
- 19** Patella component test / 0
- 20** Patella component test / 1
- 21** Patella component test / 2
- 22** Re-surfacing Patella component test / 0
- 23** Re-surfacing Patella component test / 1
- 24** Re-surfacing Patella component test / 2
- 25** Re-surfacing Patella component test / 3

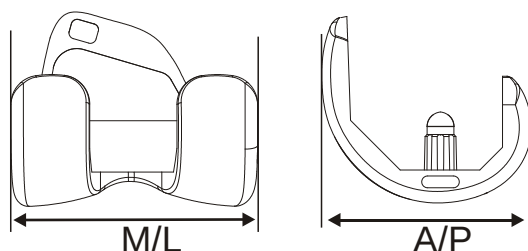
- Art.-Nr. EE0853N561N
- Art.-Nr. EE0853N540N
- Art.-Nr. EE0853N541N
- Art.-Nr. EE0853N542N
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- Art.-Nr. EE0853N551N
- Art.-Nr. EE0853N552N
- Art.-Nr. EE0853N507N
- Art.-Nr. EE0853N511N
- Art.-Nr. EE0853N512N
- Art.-Nr. EE0853N525N
- Art.-Nr. EE0853N528N
- Art.-Nr. EE0853S005N
- Art.-Nr. EE0851S153N
- Art.-Nr. EE0851S153N
- Art.-Nr. EE0851S154N
- Art.-Nr. EE0853N505N
- Art.-Nr. EE0851S152N
- Art.-Nr. EE0857N100N
- Art.-Nr. EE0857N101N
- Art.-Nr. EE0857N102N
- Art.-Nr. EE0857N200N
- Art.-Nr. EE0857N201N
- Art.-Nr. EE0857N202N
- Art.-Nr. EE0857N203N

Tray overview Patella

Femoral Component*

Material:

- CoCrMo alloy according to ASTM F75 - ISO 5832/4



Size	M/L in mm	A/P in mm
0	60	52
1	64	55
2	68	59
3	72	63
4	76	67
5	80	71

Quadrofit Standard Cemented Femoral Component (Sterile)		
CoCr		Size
Right	Left	
EB8101C000S	EB8102C000S	0
EB8101C001S	EB8102C001S	1
EB8101C002S	EB8102C002S	2
EB8101C003S	EB8102C003S	3
EB8101C004S	EB8102C004S	4
EB8101C005S	EB8102C005S	5

Quadrofit Posterior Stabilized Cemented Femoral Component (Sterile)		
CoCr		Size
Right	Left	
EB8121C000S	EB8122C000S	0
EB8121C001S	EB8122C001S	1
EB8121C002S	EB8122C002S	2
EB8121C003S	EB8122C003S	3
EB8121C004S	EB8122C004S	4
EB8121C005S	EB8122C005S	5



*Anti allergic TiN
version available*



Quadrofit Standard Cementless Femoral Component (Sterile) / Ti+Ha Coated		
CoCr		Size
Right	Left	
EB8131C000S	EB8132C000S	0
EB8131C001S	EB8132C001S	1
EB8131C002S	EB8132C002S	2
EB8131C003S	EB8132C003S	3
EB8131C004S	EB8132C004S	4
EB8131C005S	EB8132C005S	5

Quadrofit Posterior Stabilized Cementless Femoral Component (Sterile) / Ti+Ha Coated		
CoCr		Size
Right	Left	
EB8135C000S	EB8136C000S	0
EB8135C001S	EB8136C001S	1
EB8135C002S	EB8136C002S	2
EB8135C003S	EB8136C003S	3
EB8135C004S	EB8136C004S	4
EB8135C005S	EB8136C005S	5

*6 standard sizes and 6 extra sizes on request

Tibial Insert

Material:

Cross-Linked PE (Cross-Linked Ultra High Molecular Weight Polyethylene) or standard UHMW-PE according to ISO 5834/1-2 standard.



Quadrofit Standard Tibial Insert (Sterile) / PE-UHMW Cross *						
linked Ref.Number						Thickness
0	1	2	3	4	5	
EB8151U008S	EB8151U108S	EB8151U208S	EB8151U308S	EB8151U408S	EB8151U508S	8
EB8151U010S	EB8151U110S	EB8151U210S	EB8151U310S	EB8151U410S	EB8151U510S	10
EB8151U012S	EB8151U112S	EB8151U212S	EB8151U312S	EB8151U412S	EB8151U512S	12
EB8151U015S	EB8151U115S	EB8151U215S	EB8151U315S	EB8151U415S	EB8151U515S	15
EB8151U018S	EB8151U118S	EB8151U218S	EB8151U318S	EB8151U418S	EB8151U518S	18

Quadrofit Posterior Stabilized Tibial Insert (Sterile) / PE-UHMW Cross *						
linked Ref.Number						Thickness
0	1	2	3	4	5	
EB8155U008S	EB8155U108S	EB8155U208S	EB8155U308S	EB8155U408S	EB8155U508S	8
EB8155U010S	EB8155U110S	EB8155U210S	EB8155U310S	EB8155U410S	EB8155U510S	10
EB8155U012S	EB8155U112S	EB8155U212S	EB8155U312S	EB8155U412S	EB8155U512S	12
EB8155U015S	EB8155U115S	EB8155U215S	EB8155U315S	EB8155U415S	EB8155U515S	15
EB8155U018S	EB8155U118S	EB8155U218S	EB8155U318S	EB8155U418S	EB8155U518S	18



Quadrofit MB Standard Tibial Insert (Sterile) / PE-UHMW Cross linked **			
Ref.Number			Thickness
0	2	4	
EB8251U008S	EB8251U208S	EB8251U408S	8
EB8251U010S	EB8251U210S	EB8251U410S	10
EB8251U012S	EB8251U212S	EB8251U412S	12
EB8251U015S	EB8251U215S	EB8251U415S	15
EB8251U018S	EB8251U218S	EB8251U418S	18



Quadrofit MB Posterior Stabilized Standard Tibial Insert (Sterile) / PE-UHMW Cross linked **			
Ref.Number			Thickness
0	2	4	
EB8255U008S	EB8255U208S	EB8255U408S	8
EB8255U010S	EB8255U210S	EB8255U410S	10
EB8255U012S	EB8255U212S	EB8255U412S	12
EB8255U015S	EB8255U215S	EB8255U415S	15
EB8255U018S	EB8255U218S	EB8255U418S	18

*6 standard sizes and 6 extra sizes on request

**3 sizes fits all sizes including extra sizes

Tibial Component*

Material:

- Co CrMo alloy according to ASTM F75 - ISO 5832/4
- Ti6Al4V ELI alloy according to ASTM F136 - ISO 5832/3



Size	M/L in mm	A/P in mm
0	64	42
1	68	44,5
2	72	47,5
3	76	50
4	80	52,5
5	84	55,5

Quadrofit Standard Cemented Tibial Component (Sterile)		
Ref.Number		Size
Ti	CoCr	
EB5361T000S	EB5361C000S	0
EB5361T001S	EB5361C001S	1
EB5361T002S	EB5361C002S	2
EB5361T003S	EB5361C003S	3
EB5361T004S	EB5361C004S	4
EB5361T005S	EB5361C005S	5



Quadrofit Standard Cementless Tibial Component (Sterile) / Ti+Ha Coated		
Ref.Number		Size
Ti	CoCr	
EB5362T000S	EB5362C000S	0
EB5362T001S	EB5362C001S	1
EB5362T002S	EB5362C002S	2
EB5362T003S	EB5362C003S	3
EB5362T004S	EB5362C004S	4
EB5362T005S	EB5362C005S	5

Quadrofit MB Cemented Tibial Component (Sterile)			
Ref.Number			Size
Ti	CoCr	Tin Coated	
EB8261T000S	EB8261C000S	EB8263C000S	0
EB8261T001S	EB8261C001S	EB8263C001S	1
EB8261T002S	EB8261C002S	EB8263C002S	2
EB8261T003S	EB8261C003S	EB8263C003S	3
EB8261T004S	EB8261C004S	EB8263C004S	4
EB8261T005S	EB8261C005S	EB8263C005S	5



Quadrofit MB Cementless Tibial Component (Sterile) / Ti+Ha Coated		
Ref.Number		Size
Ti	CoCr	
EB8262T000S	EB8262C000S	0
EB8262T001S	EB8262C001S	1
EB8262T002S	EB8262C002S	2
EB8262T003S	EB8262C003S	3
EB8262T004S	EB8262C004S	4
EB8262T005S	EB8262C005S	5

*6 standard sizes and 6 extra sizes on request

Patella Component

Quadrofit Insert Patella Component (Sterile) PE-UHMW Cross linked	
Ref.Number	Size
EB8171U000S	0
EB8171U001S	1
EB8171U002S	2



Quadrofit ReSurfacing Patella Component (Sterile) PE-UHMW Cross linked	
Ref.Number	Size
EB8173U000S	0
EB8173U001S	1
EB8173U002S	2
EB8173U003S	3



Tibial Stem

Quadrofit Tibial Stem(Sterile)				
Ref.Number				Size
CoCr	CoCrMo / TiN coated	Ti	Ti / TiN coated	
EB8291C025S	EB8292C025S	EB5391T025S	EB5392T025S	25
EB8291C035S	EB8292C035S	EB5391T035S	EB5392T035S	35 *
EB8291C050S	EB8292C050S	EB5391T050S	EB5392T050S	50
EB8291C080S	EB8292C080S	EB5391T080S	EB5392T080S	80 *
EB8291C100S	EB8292C100S	EB5391T100S	EB5392T100S	100 *



Half spacer (wedges)

Ti 5mm	Ti / TiN 5mm	Ti 10mm	Ti / TiN 10mm	Ti 15mm	Ti / TiN 15mm	Size
EB5365T013S	EB5366T013S	EB5367T013S	EB5368T013S	EB5375T013S	EB5376T013S	-1 *
EB5365T014S	EB5366T014S	EB5367T014S	EB5368T014S	EB5375T014S	EB5376T014S	-0.5 *
EB5365T000S	EB5366T000S	EB5367T000S	EB5368T000S	EB5375T000S	EB5376T000S	0
EB5365T015S	EB5366T015S	EB5367T015S	EB5368T015S	EB5375T015S	EB5376T015S	0.5 *
EB5365T001S	EB5366T001S	EB5367T001S	EB5368T001S	EB5375T001S	EB5376T001S	1
EB5365T016S	EB5366T016S	EB5367T016S	EB5368T016S	EB5375T016S	EB5376T016S	1.5 *
EB5365T002S	EB5366T002S	EB5367T002S	EB5368T002S	EB5375T002S	EB5376T002S	2
EB5365T017S	EB5366T017S	EB5367T017S	EB5368T017S	EB5375T017S	EB5376T017S	2.5 *
EB5365T003S	EB5366T003S	EB5367T003S	EB5368T003S	EB5375T003S	EB5376T003S	3
EB5365T018S	EB5366T018S	EB5367T018S	EB5368T018S	EB5375T018S	EB5376T018S	3.5 *
EB5365T004S	EB5366T004S	EB5367T004S	EB5368T004S	EB5375T004S	EB5376T004S	4
EB5365T005S	EB5366T005S	EB5367T005S	EB5368T005S	EB5375T005S	EB5376T005S	5

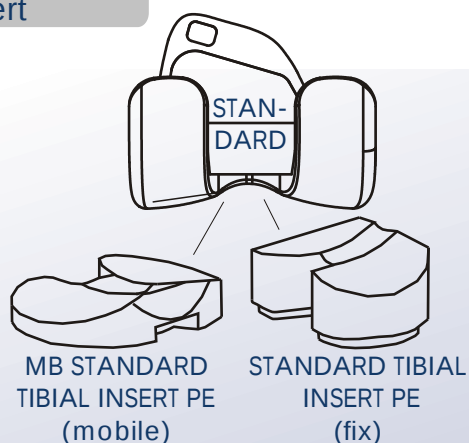
Use optional cutting block for the wedges



Combination chart sizes / implants

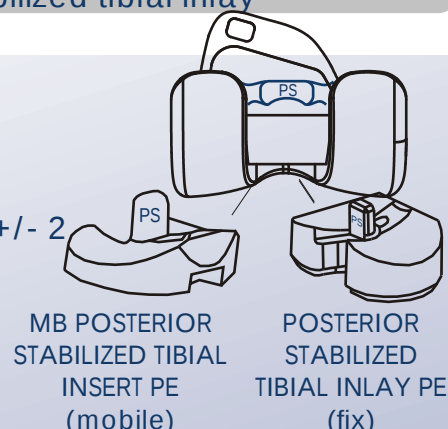
Standard femoral component
& standard tibial insert

Combination: +/- 2
sizes possible

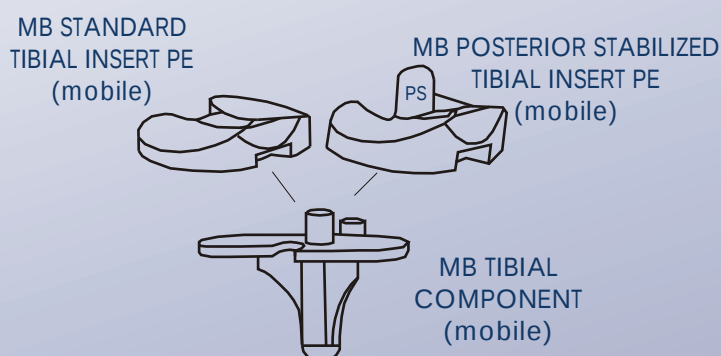


Femoral component posterior stabilized (PS)
+ posterior stabilized tibial inlay

Combination: +/- 2
sizes possible



Mobile tibial insert
+ MB (mobile) tibial component

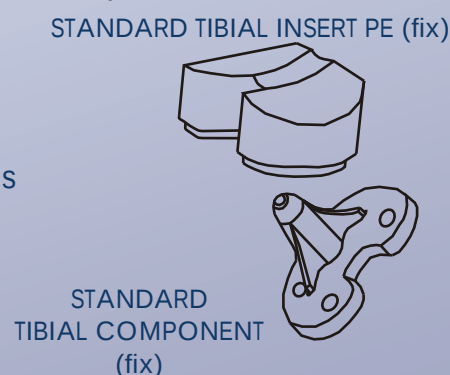


INSERT	0	0	(0)/2	(0)/2	(2)/4	(2)/4
TIBIAL COMPONENT	0	1	2	3	4	5

(Sizes in brackets are technically possible, but only recommended if it is required by femoral size)

Standard tibial insert (fixed)
+ standard tibial component

Combination:
only same sizes
possible

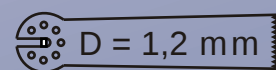


Additional fixation of insert with a screw

Some inserts, depending on their coupling degree and / or insert level, have an additional fixation by a screw. In this case, the screw is included in the package and shown on the pictograph. If there is no screw, none is necessary.



Recommended sawblade



Instrument trays / Options

Optional instruments

- Screw pins
- Screw pin adapter
- Pin extractor
- Opening awl
- Bone rasp
- removable T-handle
- Pin impactor
- 5-in-1 femoral preparation
- PS chisel
- Knee gap gauge
- PS-notch preparator
- ...

Contact us
for special requests!

Femurcontainer Tray 1 - Femur 4-in-1



Femurcontainer Tray 2 - Basic Instruments



Tibiacontainer Tray 1 - Tibia fix



Tibiacontainer Tray 2 - Tibia (MB) mobile



Tibiacontainer Tray 3 - Patella





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