MyKnee®

PATIENT MATCHED TECHNOLOGY
IN KNEE REPLACEMENT

DESIGNED FOR YOU BY YOU

Surgical Technique

Joint | Spine | Sports Med

Medacta International

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1. INTRODUCTION

This brochure describes the Surgical Technique to implant a GMK Total Knee System using the 3D Printed Patient Specific MyKnee instrumentation.

MyKnee is an accurate patient-specific cutting block which allows the surgeon to realise his pre-operative 3D planning, based on CT or MRI images of the patient's knee.

The bone resections are performed directly through the slots integrated on the MyKnee cutting blocks, according to the surgeon's preoperative planning.

1.1 INDICATIONS

MyKnee Cutting Blocks are intended to be used as anatomical cutting blocks specifically designed for a single patient to assist in the positioning of total knee replacement components intraoperatively and in guiding the marking of bone before cutting.

MyKnee Cutting Blocks are intended for use with GMK Total Knee System when the clinical evaluation complies with its cleared indications for use.

1.2 CONTRAINDICATIONS

Contraindications in using MyKnee instrumentation are the same as the situations when a total knee replacement is contraindicated. It is the surgeon's responsibility to verify that the patient is not allergic to the material of which the MyKnee cutting blocks are made (Polyamide PA12).

1.3 PREOPERATIVE PLANNING

The pre-operative planning is managed through the website https://myknee.medacta.com in cooperation between the surgeon and Medacta International.
Please contact Medacta International to gain access to the website.

The goal of the preoperative planning is to assess the surgical parameters regarding femoral and tibial implantation in order to manufacture dedicated single patient use cutting blocks.
Parameters are to be planned by the surgeon and include:

- Femoral implant size
- Tibial implant size
- Femoral resections
  - Posterior cut height, on both condyles (medial and lateral)
  - Distal cut height, on both condyles (medial and lateral)
- Femoral angles
  - Varus / valgus
  - Flexion / extension
- Femoral rotation
  - Internal / external rotation vs posterior condyles line and vs epicondylar axis
- Tibial resection
  - Proximal cut height related to both plateaux (medial and lateral)
- Tibial angles
  - Varus / valgus
  - Posterior slope.

CT or MRI imaging is used to create a tridimensional bone model of the specific patient knee anatomy. This bone replica is the model used to create the anatomical cutting blocks that can fit a patient's knee morphology without using any alignment jigs to position them.

NOTICE: Please refer to the official CT and MRI protocols available on the website myknee.medacta.com. Scanning taken with different protocols may lead to unusable images. Before using MyKnee procedures, every Radiological Center must be registered. Please contact Medacta International to register your Radiological Center.

NOTICE: Different combinations of MyKnee cutting blocks can be ordered (MyKnee MIS femoral with standard tibial cutting block and vice versa). For each cutting block type, the user should refer to the specific surgical technique.

CAUTION

Different MyKnee cutting blocks are available depending on the scanning technology used. The surgeon will receive a MyKnee Surgical Planning Report (ref.no. M 08.59) that indicates the surgical parameters, according to his default profile previously set by the surgeon on the MyKnee website (see picture on the next page). It is the surgeon's responsibility to validate the preliminary planning or set different parameters according to his own assessment. Both validation and changes in the planning must be communicated via the MyKnee website (see picture on the next page). After the planning is confirmed by the surgeon, MyKnee blocks are manufactured and delivered to the Hospital.

CAUTION

MyKnee cutting blocks can be supplied sterile or non-sterile (see pictures below). In case they are supplied non-sterile, it is the health care institution's responsibility to clean and sterilize them before use. Please read the "Note for sterilization" included at the end of this surgical technique.

1.

CAUTION

A full conventional metallic instrument set must be available and ready for the operation with the MyKnee.

NOTICE: In the surgical technique here after described, the resections are performed in the following order:

- Distal femoral resection
- Tibial resection
- A/P femoral resections and chamfers*

* The surgeon can change the resections' order according to his preferences**.
** Distal femoral resection must be done before the A/P femoral resections and chamfers.

CAUTION

Federal law (USA) restricts this device to sale by or on the order of physician.
Some specific instruments are fixed to the bone by means of dedicated pins. Before using the pins, ensure that they are intact and fully functional. BENT OR DEFECTIVE PINS CANNOT BE USED AND MUST BE REPLACED BY NEW ONES. When extracting pins it is important to avoid any bending. This results in axial alignment between the pin and the dedicated extractor. It is strongly recommended not to impact or hammer on any instruments unless otherwise specified in the surgical technique. For detailed instructions contact your local Medacta sales representative.

CAUTION

This case is based on CT data: "REMOVE FROM THE BONE THE CARTILAGE AND SOFT TISSUES COVERING THE CUTTING BLOCK CONTACT AREAS." All measurements shown are from the bone and do not include the thickness of the cartilage.

MyKnee | CT BASED RIGHT KNEE | REV.11 - 2021-11-25

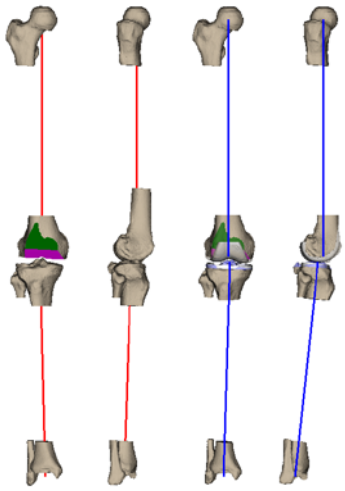
MyKnee Surgical Planning Report

CASE CODE	value
SURGEON	value
SURGERY DATE	value
SURGICAL APPROACH	value
PRODUCT	value
TIBIA BLOCK	value
FEMUR BLOCK	value

RIGHT TOTAL KNEE	**PRE-OP**	**POST-OP**
HKA *	value	value
aHKA **	value	value
Femoral Valgus	value	value
Tibial Varus	value	value
Tibia Posterior Slope	value	value
TEA vs PCA	value	value
Anterior Cortex vs FMA	value	value

IMPLANTS	**DEFAULT**	**CHANGED**	**USED**
Femoral Implant Size	value	value	
Tibial Implant Size	value	value	

LONG AXIS PRE OP **LONG AXIS POST OP**



CAUTION

This case is based on CT scan.
Remove from the bone the cartilage and the soft tissues covering the MyKnee block's contact points.
All the measurements shown are taken from bone and do not include the cartilage thickness.

*HKA is DICOM images derived, it is not weight-bearing and it includes cartilage wear

**aHKA is the arithmetic sum of medial proximal tibial angle (MPTA) and lateral distal femoral angle (LDFA)

FEMUR

CAUTION: the images below show the patella in full extension.

L M

L M

P

A L M

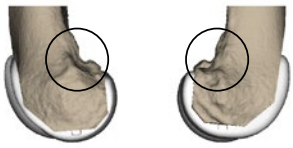
FEMORAL RESECTIONS [mm]	**DEFAULT**	**CHANGED**	**MEASURED**
Lateral Distal Cut	value	value	
Medial Distal CUt	value	value	
Lateral Posterior Cut	value	value	
Medial Posterior Cut	value	value	

FEMORAL ANGLES [deg]	**DEFAULT**	**CHANGED**
Valgus	value	value
Flexion vs FMA	value	value

ROTATION [deg]	**DEFAULT**	**CHANGED**
Ext. Rotation vs PCA	value	value

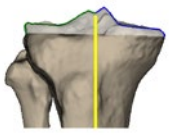
CAUTION

Accurately clear the posterior condyles from any osteophytes and oberhanging bone.

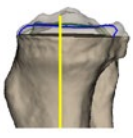


M L

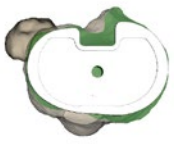
TIBIA



L M A



P L



M

TIBIAL RESECTION [mm]	**DEFAULT**	**CHANGED**	**MEASURED**
Lateral Tibial Cut	value		
Medial Tibial Cut	value	value	

TIBIAL ANGLES [deg]	**DEFAULT**	**CHANGED**
Varus	value	value
Posterior Slope	value	value

COMMENTS

myknee@medacta.ch **CONFIDENTIAL** M08.59 rev.8

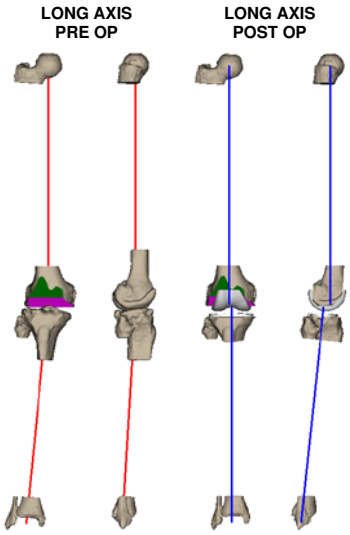
MyKnee | MRI BASED RIGHT KNEE | REV. 0 - 2021-12-03

MyKnee Surgical Planning Report

CASE CODE	value
SURGEON	value
SURGERY DATE	value
SURGICAL APPROACH	value
PRODUCT	value
TIBIA BLOCK	value
FEMUR BLOCK	value

RIGHT TOTAL KNEE	PRE-OP	POST-OP
HKA *	value	value
aHKA **	value	value
Femoral Valgus	value	value
Tibial Varus	value	value
Tibia Posterior Slope	value	value
TEA vs PCA	value	value
Anterior Cortex vs FMA	value	value

IMPLANTS	DEFAULT	CHANGED	USED
Femoral Implant Size	value	value	
Tibial Implant Size	value	value	



*HKA is DICOM images derived, it is not weight-bearing and it includes cartilage wear

**aHKA is the arithmetic sum of medial proximal tibial angle (MPTA) and lateral distal femoral angle (LDFA)

FEMUR

CAUTION: the images below show the patella in full extension.

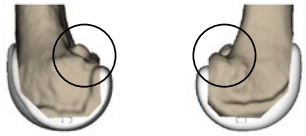
FEMORAL RESECTIONS [mm]	DEFAULT	CHANGED	MEASURED
Lateral Distal Cut	value	value	
Medial Distal CUt	value	value	
Lateral Posterior Cut	value	value	
Medial Posterior Cut	value	value	

FEMORAL ANGLES [deg]	DEFAULT	CHANGED
Varus	value	value
Flexion vs FMA	value	value

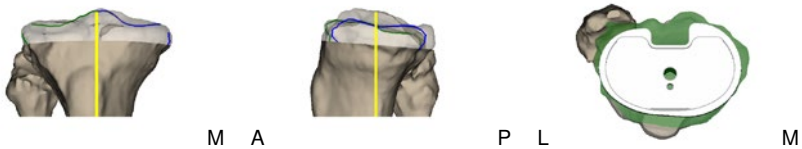
ROTATION [deg]	DEFAULT	CHANGED
Ext. Rotation vs TEA	value	value

CAUTION

Accurately clear the posterior condyles from any osteophytes and oberhanging bone.



TIBIA



TIBIAL RESECTION [mm]	DEFAULT	CHANGED	MEASURED
Lateral Tibial Cut	value	value	
Medial Tibial Cut	value	value	

TIBIAL ANGLES [deg]	DEFAULT	CHANGED
Varus	value	value
Posterior Slope	value	value

COMMENTS

1.4 SURGICAL APPROACH

The most commonly used surgical approach is the medial parapatellar approach. Other approaches may be used depending on the surgeon's practice.

CAUTION
Do not remove any osteophytes from the tibia or from the femur, in order not to alter the bony references of the MyKnee anatomical cutting blocks.

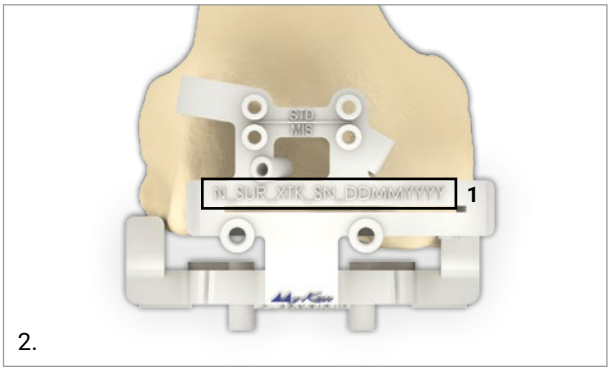
CAUTION
A lateral parapatellar approach may be indicated for some patients. Different MyKnee cutting blocks are available depending whether a medial or lateral surgical approach is used. The surgeon must indicate in the surgery planning which kind of surgical approach will be used.

2. DISTAL FEMORAL RESECTION

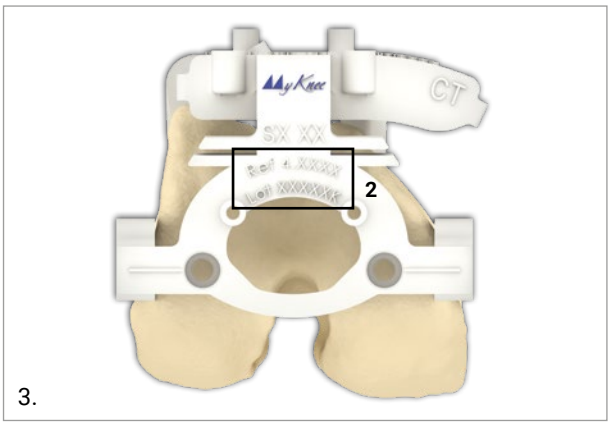
2.1 DISTAL CUTTING BLOCK POSITIONING

Each MyKnee distal cutting block displays the following information:

- 1 - patient ID
- 2 - cutting block reference and lot number.



2.



3.

Before starting the surgery, please check the accuracy of the patient specific data.
Example of patient ID: N_SUR_XTK_SN_DDMMYYYY

- N = first letter of patient's given name
- SUR = first three letters of patient's family name
- XTK (GMK Primary) = side operated, left (LTK) or right (RTK)
  XSK (GMK Sphere) = side operated, left (LSK) or right (RSK)
- SN = surgeon's given and family name first letters
- DDMMYYYY = patient's birth date
  (DD=day, MM=month, YYYY=year).

CAUTION
If the cutting block does not clearly indicate the patient identification string, it MUST NOT be used for the surgery. In such a case please contact immediately Medacta staff.

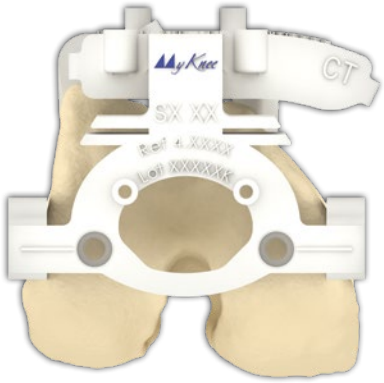
CAUTION
Do not use MyKnee cutting blocks on a patient for whom the pre-operative planning has not been carried out. A MyKnee cutting block used on a different patient will lead to unpredictable total knee replacement outcomes.

CAUTION
Do not remove any osteophytes from or around the trochlear groove before positioning the femoral cutting block on the bone.

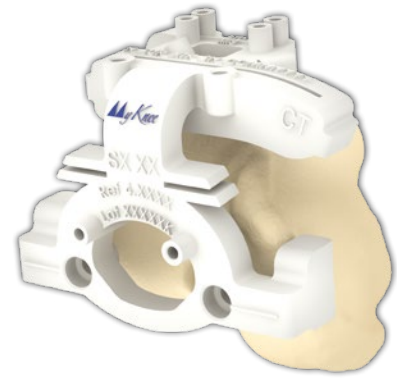
Before use, ensure that the MyKnee femoral cutting block is intact and in good working order, by visually inspecting the block. A 3D bone model of the patient's femoral bone may be supplied with the MyKnee femoral cutting block. Matching the cutting block with the 3D bone model allows for an additional check of the cutting block integrity before use. The 3D bone model can be supplied sterile or non-sterile. In case it is supplied non-sterile, it must be sterilized by the health care institution (please read the "Note for sterilization" included at the end of this surgical technique).

The 3D femoral bone model allows to accurately simulate the correct positioning of the MyKnee femoral cutting block and to verify, by using the angel wing, the resection level, as the planned femoral resection level is marked on the bone model.

The block has to be positioned manually on the distal femur. Considering the anatomical shape of the block, only one orientation is allowed. The correct placement corresponds to the maximum stability position of the block.

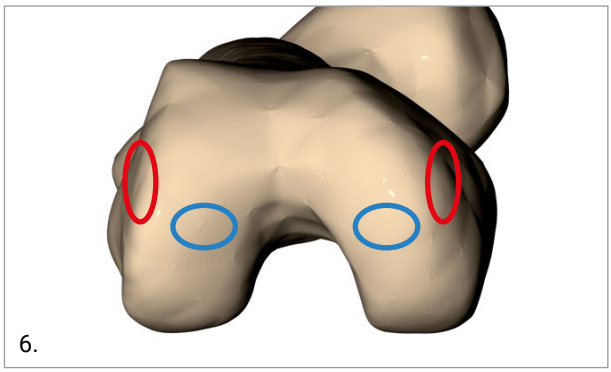


4.



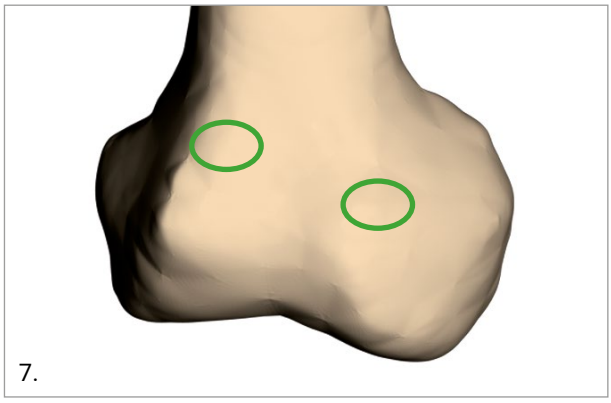
5.

To ensure the maximum stability, verify that the points of contact between the MyKnee distal cutting block and the femur are respected. If bone models are available ensure that the contact points between MyKnee block and bone are in the position of the areas marked on the bone model. CT based and MRI based cutting blocks use different contact areas.



6.

○ CT-based cutting blocks contact area
○ MRI-based cutting blocks contact area



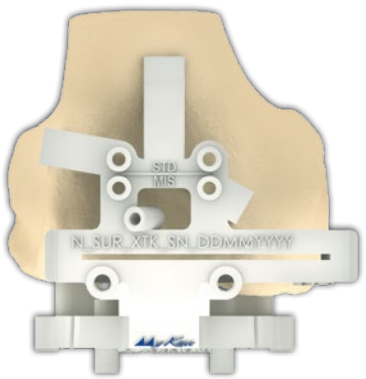
7.

○ CT- and MRI-based cutting blocks contact area

CAUTION
Before positioning the MyKnee distal cutting block, remove the soft tissues from the femur without damaging the osteophytes.

CAUTION
When using CT based MyKnee distal cutting block, the cartilage and soft tissues covering the cutting block contact areas (see figures above) must be removed from the bone with the help of an electric cutter in order to obtain the most stable position of the cutting block. The cutting block contact areas can be easily identified on the bone model, if provided.

CAUTION
When using MRI-based MyKnee STD or CT-based MyKnee STD stylus distal cutting block, make sure that the anterior palpator is in contact with the femoral anterior cortex.

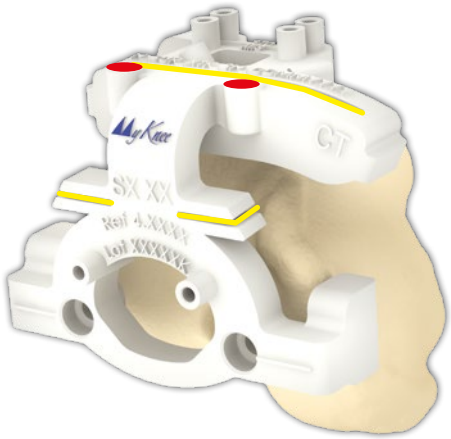


8.

CAUTION
An inaccurate positioning may lead to cutting parameters not in line with the planning.

Once the cutting guide has been properly arranged on the femur, the cut parameters are automatically set for the knee undergoing surgery according to the pre-operative planning (see § 1.3).

TIP
The telescopic alignment rod can be connected to the cutting block (see red holes in the figure below) to help the identification of the right position on the patient bone. A visual check on the distal and anterior cut level can be carried out using the angel wing (see yellow slots in the figure below).



9.

- Slots for cut check
- Telescopic alignment rod holes

CAUTION
Check the varus/valgus with the telescopic alignment rod only after positioning the MyKnee cutting block (do not use the telescopic rod to position the MyKnee block).

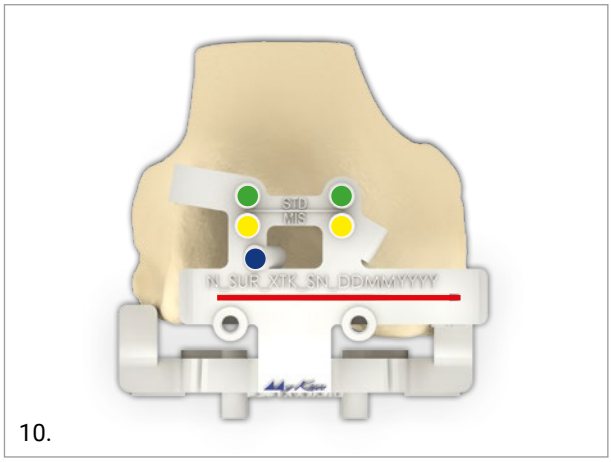
2.2 FIXING THE DISTAL CUTTING BLOCK ON THE FEMUR

Once the positioning is deemed satisfactory, the distal cutting block can be fixed on the femur as shown in the picture below by use of standard 3.2 mm diameter pins.

NOTICE: To guarantee a stable fixation two parallel pins plus an oblique one must be used.

Two configurations are allowed, depending on the conventional instrumentation used:

- Standard instrumentation
- MIS instrumentation.



10.

Standard instrumentation:

- Standard block parallel pins holes
- Oblique pin hole
- Saw blade slot

MIS instrumentation:

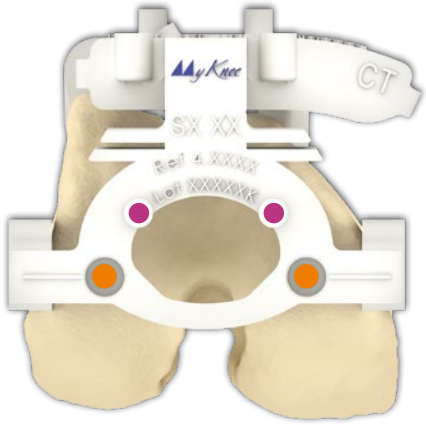
- MIS block parallel pins holes
- Oblique pin hole
- Saw blade slot

CAUTION
Do not alter the cutting block position while drilling to create holes for pins in order to avoid any guide misalignment.

2.3 PREPARING THE 4IN1 CUTTING BLOCK FIXATION HOLES

Before removing the MyKnee distal block, prepare the holes for the 4in1 cutting block fixation using the dedicated drills. Two alternative options are available:

- Anterior reference parallel pins
- Posterior reference parallel pegs



11.

CAUTION
Do not alter the cutting block position while drilling to create holes for pins in order to avoid any guide misalignment.

2.4 PERFORMING THE DISTAL RESECTION

Visually double check the cut height by means of the standard angle wing prior to cutting. Then perform the distal resection using a blade up to 1.27 mm thick.

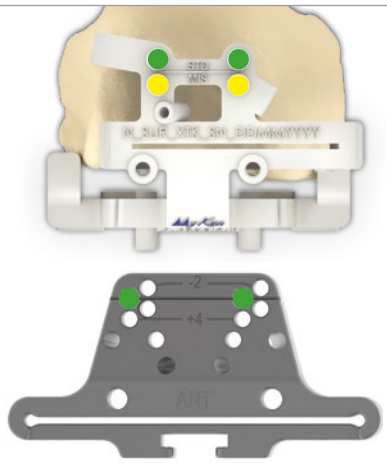
NOTICE: To guarantee stable fixation two parallel pins plus an oblique pin must be used.

CAUTION
Use physiological solution to cool the guide during the resection.

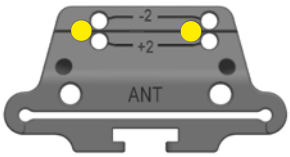
CAUTION
After the resection has been done, accurately rinse the joint before positioning both the trial and final implant.

After the distal resection has been done, remove the MyKnee cutting block from the femur. Remove both oblique and parallel pins. In case a recut is necessary, position the corresponding conventional distal cutting block on the parallel pins.

The picture below shows the correspondence between MyKnee distal cutting block pins row and conventional distal cutting block pins holes.

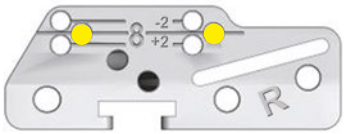


Standard distal slotted cutting block (Ref. 02.07.10.4574)



MIS distal slotted cutting block (Ref. 02.12.10.0489)

Standard distal cutting block (Ref. 02.07.10.0127)



MIS distal cutting block (Ref. 2.618)

12.

CAUTION
If the holes for pins do not correspond to the ones on the conventional cutting blocks, a complete back up conventional instruments set must be available in the operative room to conclude surgery.

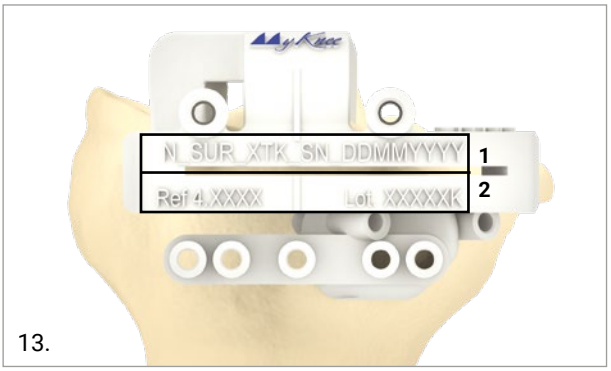
To perform a distal recut, follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

3. TIBIAL RESECTION

3.1 TIBIAL CUTTING BLOCK POSITIONING

Each MyKnee tibial cutting block displays the following information:

- 1 - patient ID
- 2 - cutting block reference and lot number.



13.

Before starting the surgery, check the accuracy of the patient specific data.
Example of patient ID: N_SUR_XTK_SN_DDMMYYYY

- N = first letter of patient's given name
- SUR = first three letters of patient's family name
- XTK (GMK Primary) = side operated, left (LTK) or right (RTK)
  XSK (GMK Sphere) = side operated, left (LSK) or right (RSK)
- SN = surgeon's given and family name first letters
- DDMMYYYY = patient's date of birth
  (DD=day, MM=month, YYYY=year).

CAUTION
If the cutting block does not clearly indicate the patient identification string, it MUST not be used for the surgery. In such a case please contact immediately Medacta staff.

CAUTION
Do not use MyKnee cutting blocks on a patient for whom the pre-operative planning has not been carried out. A MyKnee cutting block used on a different patient will lead to unpredictable total knee replacement outcomes.

CAUTION
Do not remove any osteophytes from the tibial bone.

Before use, ensure that the MyKnee tibial cutting block is intact and in good working order, by visually inspecting the block. A 3D bone model of the patient's femoral bone may be supplied with the MyKnee tibial cutting block. Matching the cutting block with the 3D bone model allows for an additional check of the cutting block integrity before use. The 3D bone model can be supplied sterile or non-sterile. If supplied non-sterile, it must be sterilized by the health care institution (please read the "Note for sterilization" included at the end of this surgical technique). The 3D tibial bone model allows to accurately simulate the correct positioning of the MyKnee tibial cutting block and to verify, by using the angel wing, the resection level, as the planned tibial resection level is marked on the bone model.

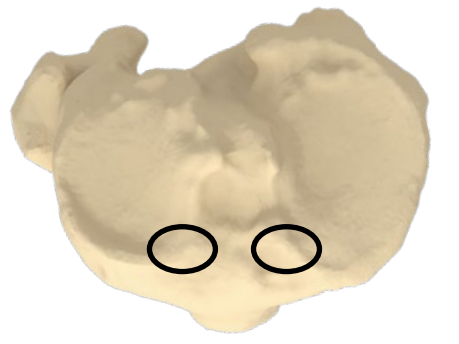
Check the correct fitting between the bone model and the tibial cutting block and, by using the angel wing, the tibial cut depth. The planned tibial resection level is marked on the bone model.

The block has to be positioned manually on the tibial plateaus.

14.

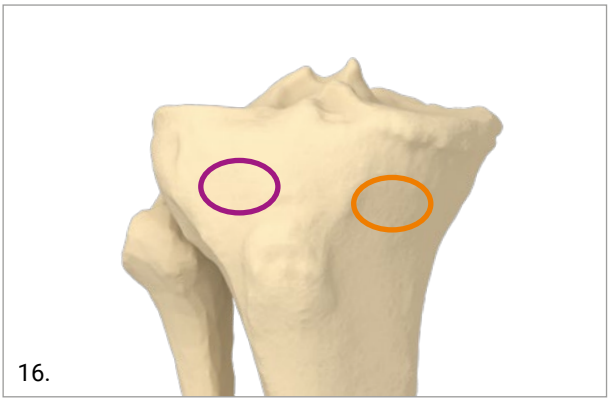
Considering the anatomical shape of the block, only one orientation is possible. The correct placement corresponds to the maximum stability position of the block.

To ensure the maximum stability, verify that the points of contact between the MyKnee tibial cutting block and the tibial bone are respected. If bone models are available ensure that the contact points between MyKnee block and bone are in the position of the areas marked on the bone model.



15.

○ CT- and MRI-based cutting blocks contact area



16.

○ Lateral approach contact area
○ Medial approach contact area

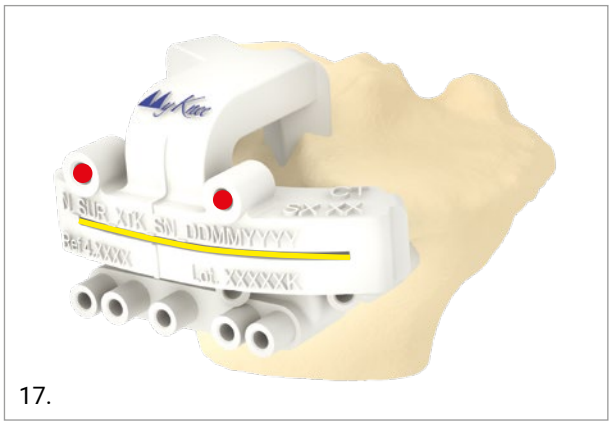
CAUTION
Before positioning the MyKnee tibial cutting block, remove the soft tissues from the tibia without damaging the osteophytes.

CAUTION
When using CT based MyKnee tibial cutting block, the cartilage and soft tissues covering the cutting block contact areas (see figures above) must be removed from the bone with the help of an electric cutter in order to obtain the most stable position of the cutting block. The cutting block contact areas can be easily identified on the bone model, if provided.

CAUTION
An inaccurate positioning may lead to cutting parameters not in line with the planning.

Once the cutting guide has been properly arranged on the tibia, cut parameters are automatically set for the knee undergoing surgery according to the pre-operative planning (see § 1.3).

TIP
The telescopic alignment rod can be connected to the cutting block (see red holes in the figure below) to help identify the correct position on the bone. A visual check on the cut level can be carried out using the angel wing (see yellow slot in the figure below). A visual check on the tibial slope can be carried out by inserting a pin in the guide without fixing it on the bone.



17.

● Saw blade slot
● Telescopic alignment rod holes

CAUTION
Check the tibial varus/valgus with the telescopic alignment rod only after positioning the MyKnee cutting block (do not use the telescopic rod to position the MyKnee block).

TIP
To enhance the intra-op evaluation of the planned tibial slope and implant position, a pin can be inserted into the central hole of the tibial block. The trajectory passing through this pin defines the A-P axis of the tibial base plate indicating its center. In addition, the pin is a helpful guide to check the planned tibial slope.

3.2 FIXING THE TIBIAL CUTTING BLOCK ON THE TIBIA

Once the tibial cutting block positioning is deemed satisfactory, it can be fixed on the tibia by use of standard 3.2 mm diameter pins as shown in the picture below.

NOTICE: To guarantee a stable fixation two parallel pins plus an oblique one must be used.

18.

- Standard block parallel pins holes
- Oblique pin holes
- Saw blade slot
- Tibia centre hole

CAUTION

Do not alter the cutting block position while drilling to create holes for pins in order to avoid any guide misalignment.

3.3 PERFORMING THE TIBIAL RESECTION

Once the tibial cutting block has been properly fixed to the tibia, visually double check the cut height by use of the standard angel wing before cutting. Then carry out the tibial resection using a blade 1.27 mm thick.

CAUTION

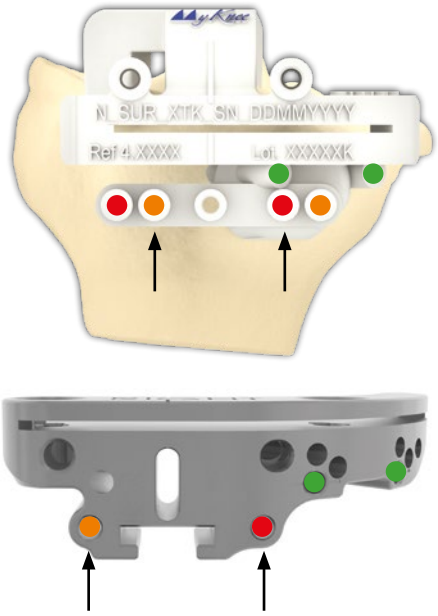
Use physiological solution to cool the guide during the resection.

CAUTION

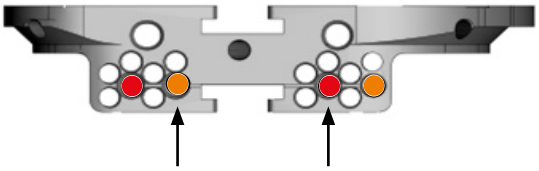
After the resection, rinse the joint before positioning both the trial and final implant.

After the tibial cut has been done, remove the MyKnee cutting block from the tibia. Remove both oblique and parallel pins.

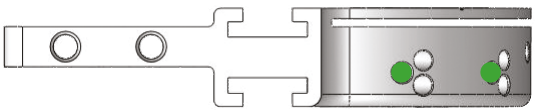
In the case a recut is necessary, position the corresponding conventional tibial cutting block on the parallel pins. The figure below shows the correspondence between MyKnee tibial cutting block pins holes and standard GMK tibial cutting block pins row.



Tibial slotted cutting block - Right
(Ref. 02.07.10.4542)



Standard tibial cutting block - Right
(Ref. 02.07.10.0113)



MIS tibial cutting block - Right
(Ref. 02.07.10.0290)

19.

CAUTION

If the holes for the pins do not correspond to the ones on the conventional cutting blocks, a complete back up conventional instruments set must be available in the operative room to conclude surgery.

To perform a tibial recut, follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

4. EXTENSION GAP CONTROL

Follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

5. ANTERIOR CUT, POSTERIOR CUT AND CHAMFERS

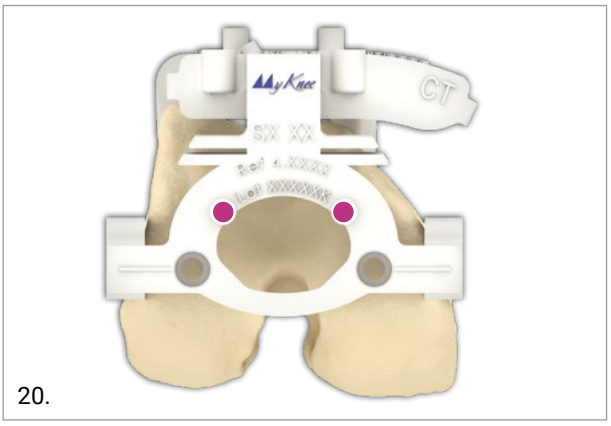
To perform the anterior, posterior and chamfer resections the conventional 4in1 cutting block of the planned femoral size is required (Ref.nos. 02.07.10.0201-6, 02.07.10.9787, 02.07.10.2001-6, 02.07.10.3001-7 and 02.07.10.3011-6).

Two methods are available to fix that block on the femur:

- Anterior reference
- Posterior reference

5.1 ANTERIOR REFERENCE

After the MyKnee distal block has been removed from the femur, position the anterior referenced parallel pins in the corresponding holes (purple) using the dedicated pin impactor and slide the predetermined 4in1 cutting block on the femur. Be careful to slide the block on the corresponding zero reference line indicated on the 4in1 cutting block.



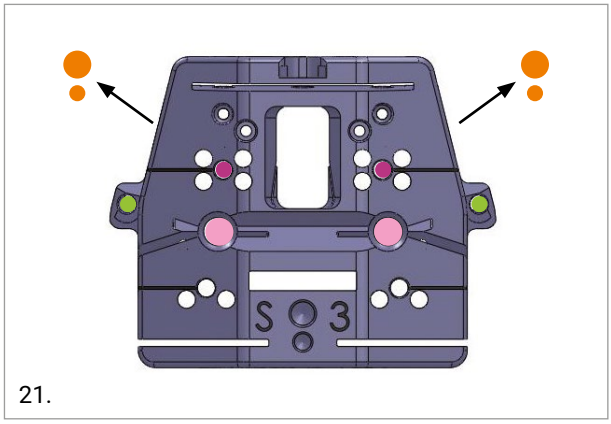
20.

Anterior reference pin holes

CAUTION

If the holes for pins do not correspond to the ones on the conventional cutting blocks, a complete back up conventional instruments set must be available in the operative room to conclude surgery.

Further stabilization can be obtained as indicated in the figure below.



21.

4in1 cutting blocks holes ref. 02.07.10.0201-6, 02.07.10.9787, 02.07.10.2001-6, 02.07.10.3001-7 and 02.07.10.3011-6

- Parallel positioning holes (Anterior Referencing)
- Oblique fixation holes
- Handle holes
- Cancellous bone screws holes

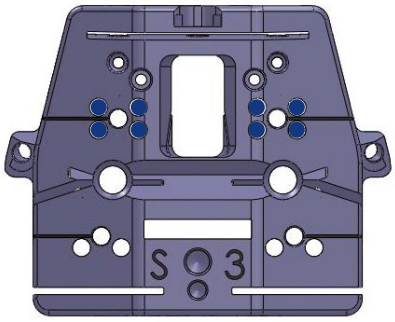
Once the 4in1 cutting block has been properly fixed to the femur, visually double check the cut height by use of the standard angel wing before cutting.

Check the correct femoral external rotation of the 4in1 cutting block, using the rotation guide (horse-shoe).

To perform the cuts, follow the same procedure as of the Bone Referencing technique (ref.no.99.26.12ICUS).

TIP
The anterior reference method allows for correction of the 4in1 cutting block position.

To correct the position move the block on to a different parallel pin row as indicated in picture below.



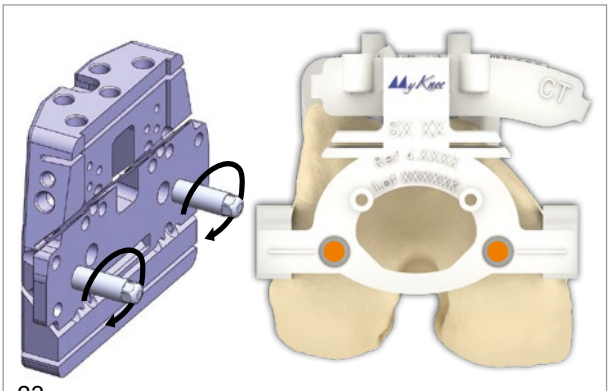
22.

4in1 cutting block holes ref. 02.07.10.0201-6, 02.07.10.9787, 02.07.10.2001-6, 02.07.10.3001-7 and 02.07.10.3011-6:

● Parallel +2/-2 mm repositioning holes (Anterior Referencing)

5.2 POSTERIOR REFERENCE

After the MyKnee distal block has been removed from the femur, screw the posterior reference pegs to the 4in1 cutting block of the correct size and position the guide to the distal resection respecting the corresponding pre-drilled holes (orange).



23.

CAUTION
If the holes for the pegs do not correspond to the ones on the conventional cutting blocks, a complete back up conventional instruments set must be available in the operative room to conclude surgery.

NOTICE: The position of the 4 in 1 pegs DO NOT CORRESPOND to the position of the pegs of the femoral component. The holes for the final femoral component are prepared through the trial femoral component.

CAUTION
The posterior reference method DOES NOT allow the correction of the 4in1 cutting block position.

Once the 4in1 cutting block has been properly fixed to the femur, visually double check the cut height by mean of the standard angel wing before cutting.
Check the correct femoral external rotation of the 4in1 cutting block, using the rotation guide (horse-shoe).
To perform the cuts, follow the same procedure as described in the Bone Referencing technique (ref. no.99.26.12ICUS).

6. FEMORAL FINISHING

Follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

7. TIBIAL FINISHING

Follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

8. PATELLA

Follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

9. TRIALS

Follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

10. SELECTION OF THE PROSTHETICS COMPONENTS - SIZE MATCHING

Follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

11. FINAL IMPLANTS

Follow the same procedure as described in the Bone Referencing technique (ref.no.99.26.12ICUS).

12. MYKNEE CUTTING BLOCK VERSIONS

The following table summarizes all the available MyKnee cutting blocks versions, depending on the surgical approach (medial or lateral), the imaging technology (CT based or MRI based) and the knee undergoing surgery (left or right). The references are divided into non-sterile version and sterile version.

CT MEDIAL APPROACH

Description	NON-STERILE Reference N.	STERILE Reference N.
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 1	4.1011	4.1011S
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 2	4.1012	4.1012S
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 3	4.1013	4.1013S
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 4	4.1014	4.1014S
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 5	4.1015	4.1015S
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 6	4.1016	4.1016S
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 7	4.1017	4.1017S
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 1+	4.1011M	4.1011SM
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 2+	4.1012M	4.1012SM
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 3+	4.1013M	4.1013SM
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 4+	4.1014M	4.1014SM
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 5+	4.1015M	4.1015SM
MyKnee Femur Distal Cutting Block - CT - Left Medial - Size 6+	4.1016M	4.1016SM
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 1	4.1021	4.1021S
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 2	4.1022	4.1022S
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 3	4.1023	4.1023S
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 4	4.1024	4.1024S
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 5	4.1025	4.1025S
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 6	4.1026	4.1026S
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 7	4.1027	4.1027S
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 1+	4.1021M	4.1021SM
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 2+	4.1022M	4.1022SM
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 3+	4.1023M	4.1023SM
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 4+	4.1024M	4.1024SM
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 5+	4.1025M	4.1025SM
MyKnee Femur Distal Cutting Block - CT - Right Medial - Size 6+	4.1026M	4.1026SM
MyKnee Tibial Cutting Block - CT - Left Medial - Size 1	4.1031	4.1031S
MyKnee Tibial Cutting Block - CT - Left Medial - Size 2	4.1032	4.1032S
MyKnee Tibial Cutting Block - CT - Left Medial - Size 3	4.1033	4.1033S
MyKnee Tibial Cutting Block - CT - Left Medial - Size 4	4.1034	4.1034S
MyKnee Tibial Cutting Block - CT - Left Medial - Size 5	4.1035	4.1035S
MyKnee Tibial Cutting Block - CT - Left Medial - Size 6	4.1036	4.1036S
MyKnee Tibial Cutting Block - CT - Right Medial - Size 1	4.1041	4.1041S
MyKnee Tibial Cutting Block - CT - Right Medial - Size 2	4.1042	4.1042S
MyKnee Tibial Cutting Block - CT - Right Medial - Size 3	4.1043	4.1043S
MyKnee Tibial Cutting Block - CT - Right Medial - Size 4	4.1044	4.1044S
MyKnee Tibial Cutting Block - CT - Right Medial - Size 5	4.1045	4.1045S
MyKnee Tibial Cutting Block - CT - Right Medial - Size 6	4.1046	4.1046S

Description	NON-STERILE Reference N.	STERILE Reference N.
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#1	4.1711	4.1711S
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#1+	4.1711M	4.1711SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#2	4.1712	4.1712S
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#2+	4.1712M	4.1712SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#3	4.1713	4.1713S
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#3+	4.1713M	4.1713SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#4	4.1714	4.1714S
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#4+	4.1714M	4.1714SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#5	4.1715	4.1715S
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#5+	4.1715M	4.1715SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#6	4.1716	4.1716S
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#6+	4.1716M	4.1716SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LM-#7	4.1717	4.1717S
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#1	4.1721	4.1721S
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#1+	4.1721M	4.1721SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#2	4.1722	4.1722S
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#2+	4.1722M	4.1722SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#3	4.1723	4.1723S
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#3+	4.1723M	4.1723SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#4	4.1724	4.1724S
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#4+	4.1724M	4.1724SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#5	4.1725	4.1725S
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#5+	4.1725M	4.1725SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#6	4.1726	4.1726S
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#6+	4.1726M	4.1726SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RM-#7	4.1727	4.1727S

CT LATERAL APPROACH

Description	NON-STERILE Reference N.	STERILE Reference N.
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 1	4.1061	4.1061S
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 2	4.1062	4.1062S
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 3	4.1063	4.1063S
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 4	4.1064	4.1064S
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 5	4.1065	4.1065S
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 6	4.1066	4.1066S
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 7	4.1067	4.1067S
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 1+	4.1061M	4.1061SM
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 2+	4.1062M	4.1062SM
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 3+	4.1063M	4.1063SM
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 4+	4.1064M	4.1064SM
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 5+	4.1065M	4.1065SM
MyKnee Femur Distal Cutting Block - CT - Left Lateral - Size 6+	4.1066M	4.1066SM
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 1	4.1071	4.1071S
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 2	4.1072	4.1072S
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 3	4.1073	4.1073S
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 4	4.1074	4.1074S
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 5	4.1075	4.1075S
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 6	4.1076	4.1076S
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 7	4.1077	4.1077S
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 1+	4.1071M	4.1071SM
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 2+	4.1072M	4.1072SM
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 3+	4.1073M	4.1073SM
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 4+	4.1074M	4.1074SM
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 5+	4.1075M	4.1075SM
MyKnee Femur Distal Cutting Block - CT - Right Lateral - Size 6+	4.1076M	4.1076SM
MyKnee Tibial Cutting Block - CT - Left Lateral - Size 1	4.1081	4.1081S
MyKnee Tibial Cutting Block - CT - Left Lateral - Size 2	4.1082	4.1082S
MyKnee Tibial Cutting Block - CT - Left Lateral - Size 3	4.1083	4.1083S
MyKnee Tibial Cutting Block - CT - Left Lateral - Size 4	4.1084	4.1084S
MyKnee Tibial Cutting Block - CT - Left Lateral - Size 5	4.1085	4.1085S
MyKnee Tibial Cutting Block - CT - Left Lateral - Size 6	4.1086	4.1086S
MyKnee Tibial Cutting Block - CT - Right Lateral - Size 1	4.1091	4.1091S
MyKnee Tibial Cutting Block - CT - Right Lateral - Size 2	4.1092	4.1092S
MyKnee Tibial Cutting Block - CT - Right Lateral - Size 3	4.1093	4.1093S
MyKnee Tibial Cutting Block - CT - Right Lateral - Size 4	4.1094	4.1094S
MyKnee Tibial Cutting Block - CT - Right Lateral - Size 5	4.1095	4.1095S
MyKnee Tibial Cutting Block - CT - Right Lateral - Size 6	4.1096	4.1096S

Description	NON-STERILE Reference N.	STERILE Reference N.
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#1	4.1761	4.1761S
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#1+	4.1761M	4.1761SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#2	4.1762	4.1762S
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#2+	4.1762M	4.1762SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#3	4.1763	4.1763S
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#3+	4.1763M	4.1763SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#4	4.1764	4.1764S
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#4+	4.1764M	4.1764SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#5	4.1765	4.1765S
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#5+	4.1765M	4.1765SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#6	4.1766	4.1766S
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#6+	4.1766M	4.1766SM
MyKnee STYLUS FemDisCutBl-CT-GMK-LL-#7	4.1767	4.1767S
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#1	4.1771	4.1771S
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#1+	4.1771M	4.1771SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#2	4.1772	4.1772S
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#2+	4.1772M	4.1772SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#3	4.1773	4.1773S
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#3+	4.1773M	4.1773SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#4	4.1774	4.1774S
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#4+	4.1774M	4.1774SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#5	4.1775	4.1775S
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#5+	4.1775M	4.1775SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#6	4.1776	4.1776S
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#6+	4.1776M	4.1776SM
MyKnee STYLUS FemDisCutBl-CT-GMK-RL-#7	4.1777	4.1777S

MRI MEDIAL APPROACH

Description	NON-STERILE Reference N.	STERILE Reference N.
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 1	4.2011	4.2011S
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 2	4.2012	4.2012S
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 3	4.2013	4.2013S
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 4	4.2014	4.2014S
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 5	4.2015	4.2015S
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 6	4.2016	4.2016S
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 7	4.2017	4.2017S
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 1+	4.2011M	4.2011SM
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 2+	4.2012M	4.2012SM
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 3+	4.2013M	4.2013SM
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 4+	4.2014M	4.2014SM
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 5+	4.2015M	4.2015SM
MyKnee Femur Distal Cutting Block - MRI - Left Medial - Size 6+	4.2016M	4.2016SM
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 1	4.2021	4.2021S
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 2	4.2022	4.2022S
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 3	4.2023	4.2023S
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 4	4.2024	4.2024S
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 5	4.2025	4.2025S
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 6	4.2026	4.2026S
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 7	4.2027	4.2027S
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 1+	4.2021M	4.2021SM
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 2+	4.2022M	4.2022SM
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 3+	4.2023M	4.2023SM
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 4+	4.2024M	4.2024SM
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 5+	4.2025M	4.2025SM
MyKnee Femur Distal Cutting Block - MRI - Right Medial - Size 6+	4.2026M	4.2026SM
MyKnee Tibial Cutting Block - MRI - Left Medial - Size 1	4.2031	4.2031S
MyKnee Tibial Cutting Block - MRI - Left Medial - Size 2	4.2032	4.2032S
MyKnee Tibial Cutting Block - MRI - Left Medial - Size 3	4.2033	4.2033S
MyKnee Tibial Cutting Block - MRI - Left Medial - Size 4	4.2034	4.2034S
MyKnee Tibial Cutting Block - MRI - Left Medial - Size 5	4.2035	4.2035S
MyKnee Tibial Cutting Block - MRI - Left Medial - Size 6	4.2036	4.2036S
MyKnee Tibial Cutting Block - MRI - Right Medial - Size 1	4.2041	4.2041S
MyKnee Tibial Cutting Block - MRI - Right Medial - Size 2	4.2042	4.2042S
MyKnee Tibial Cutting Block - MRI - Right Medial - Size 3	4.2043	4.2043S
MyKnee Tibial Cutting Block - MRI - Right Medial - Size 4	4.2044	4.2044S
MyKnee Tibial Cutting Block - MRI - Right Medial - Size 5	4.2045	4.2045S
MyKnee Tibial Cutting Block - MRI - Right Medial - Size 6	4.2046	4.2046S

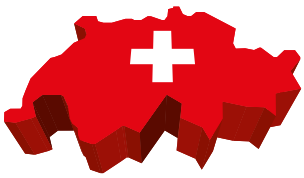
MRI LATERAL APPROACH

Description	NON-STERILE Reference N.	STERILE Reference N.
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 1	4.2061	4.2061S
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 2	4.2062	4.2062S
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 3	4.2063	4.2063S
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 4	4.2064	4.2064S
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 5	4.2065	4.2065S
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 6	4.2066	4.2066S
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 7	4.2067	4.2067S
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 1+	4.2061M	4.2061SM
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 2+	4.2062M	4.2062SM
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 3+	4.2063M	4.2063SM
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 4+	4.2064M	4.2064SM
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 5+	4.2065M	4.2065SM
MyKnee Femur Distal Cutting Block - MRI - Left Lateral - Size 6+	4.2066M	4.2066SM
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 1	4.2071	4.2071S
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 2	4.2072	4.2072S
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 3	4.2073	4.2073S
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 4	4.2074	4.2074S
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 5	4.2075	4.2075S
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 6	4.2076	4.2076S
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 7	4.2077	4.2077S
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 1+	4.2071M	4.2071SM
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 2+	4.2072M	4.2072SM
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 3+	4.2073M	4.2073SM
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 4+	4.2074M	4.2074SM
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 5+	4.2075M	4.2075SM
MyKnee Femur Distal Cutting Block - MRI - Right Lateral - Size 6+	4.2076M	4.2076SM
MyKnee Tibial Cutting Block - MRI - Left Lateral - Size 1	4.2081	4.2081S
MyKnee Tibial Cutting Block - MRI - Left Lateral - Size 2	4.2082	4.2082S
MyKnee Tibial Cutting Block - MRI - Left Lateral - Size 3	4.2083	4.2083S
MyKnee Tibial Cutting Block - MRI - Left Lateral - Size 4	4.2084	4.2084S
MyKnee Tibial Cutting Block - MRI - Left Lateral - Size 5	4.2085	4.2085S
MyKnee Tibial Cutting Block - MRI - Left Lateral - Size 6	4.2086	4.2086S
MyKnee Tibial Cutting Block - MRI - Right Lateral - Size 1	4.2091	4.2091S
MyKnee Tibial Cutting Block - MRI - Right Lateral - Size 2	4.2092	4.2092S
MyKnee Tibial Cutting Block - MRI - Right Lateral - Size 3	4.2093	4.2093S
MyKnee Tibial Cutting Block - MRI - Right Lateral - Size 4	4.2094	4.2094S
MyKnee Tibial Cutting Block - MRI - Right Lateral - Size 5	4.2095	4.2095S
MyKnee Tibial Cutting Block - MRI - Right Lateral - Size 6	4.2096	4.2096S

Part numbers subject to change.

NOTE FOR STERILIZATION

In case the instrumentation is not sterile upon delivery, it must be cleaned before use and sterilized in an autoclave respecting the US regulations, directives where applicable and following the instructions for use of the autoclave manufacturer.
For detailed instructions please refer to the document “Recommendations for cleaning decontamination and sterilization of Medacta International reusable orthopedic devices” available at www.medacta.com.



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