T08
PRIMARY KNEE
MINIMAL INVASIVE

ENG

TIPSAN®

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We produce advanced systems *for you*

T08 PRIMARY KNEE MINIMAL INVASIVE

The T08 TIPSAN concept is based on 3 main features:

- It offers a compact, easy and well-designed product option that allows for an accurate, fast and repeatable surgical operation, while also providing several surgical options and intra-operative controls.
- Both the implant design and the product range are the result of an engineering study aimed at optimizing bone-implant surfaces.
- Components allow dimensions to be changed without compromising maximum metal - polyethylene contact surfaces.

1. Bone-sparing design: minimal condylar resections and posterior without the need for additional bone loss stabilized design
2. The anatomical design of the trochlea reduces the pressure on the patellar tendon and the risk of patellar dislocation. Optimizes patellar tracking
3. J-curved sagittal profile provides more natural knee kinematics, improves knee flexion and supports movement of the femoral component
4. Cemented and tibial extension stem options are available when greater stabilization is required

T08 PRIMARY KNEE MINIMAL INVASIVE

EXTENSION STEM

PATELLA COMPONENT

FEMORAL COMPONENT

Cruciate Retaining (CR)

Posterior Stabilized (PS)

TIBIAL UHMWPE INSERT

Fixed Insert Cruciate Retaining (CR)

Fixed Insert Posterior Stabilized (PS)

Mobil Insert Cruciate Retaining (CR)

Mobil Insert Posterior Stabilized (PS)

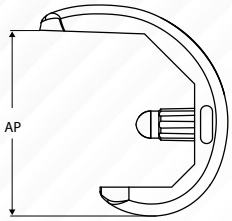
TIBIAL COMPONENT

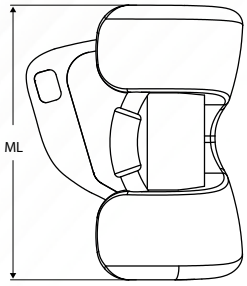
Fixed Tibial Component

Mobil Tibial Component

FEMORAL COMPONENT CRUCIATE RETAINING (CR)

- 6 Sizes, Left & Right
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cemented: 0.3 mm Deep Pockets





CoCrMo				
Size	Left	Right	AP	ML
0	10281023000	10281013000	46.61	60
1	10281023001	10281013001	50.13	64
2	10281023002	10281013002	54.57	68
3	10281023003	10281013003	57.88	72
4	10281023004	10281013004	61.31	76
5	10281023005	10281013005	66.10	80

FEMORAL COMPONENT POSTERIOR STABILIZED (PS)

- 6 Sizes, Left & Right
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cemented: 0.3 mm Deep Pockets

CoCrMo				
Size	Left	Right	AP	ML
0	10281363000	10281353000	46.61	60
1	10281363001	10281353001	50.13	64
2	10281363002	10281353002	54.57	68
3	10281363003	10281353003	57.88	72
4	10281363004	10281353004	61.31	76
5	10281363005	10281353005	66.10	80

FEMORAL COMPONENT CRUCIATE RETAINING (CR) CEMENTLESS

- 6 Sizes, Left & Right
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cementless: Hydroxyapatite Coating, Titanium Plasma Spray Coating

CoCrMo - Cementless				
Size	Left	Right	AP	ML
0	10281343000	10281333000	46.61	60
1	10281343001	10281333001	50.13	64
2	10281343002	10281333002	54.57	68
3	10281343003	10281333003	57.88	72
4	10281343004	10281333004	61.31	76
5	10281343005	10281333005	66.10	80

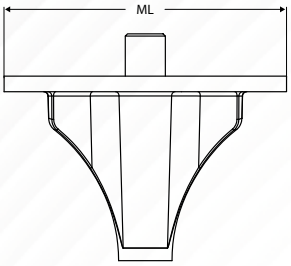
FEMORAL COMPONENT POSTERIOR STABILIZED (PS) CEMENTLESS

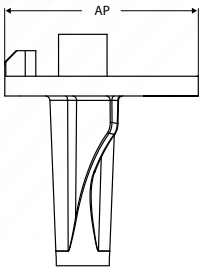
- 6 Sizes, Left & Right
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cementless: Hydroxyapatite Coating, Titanium Plasma Spray Coating

CoCrMo - Cementless				
Size	Left	Right	AP	ML
0	10281383000	10281373000	46.61	60
1	10281383001	10281373001	50.13	64
2	10281383002	10281373002	54.57	68
3	10281383003	10281373003	57.88	72
4	10281383004	10281373004	61.31	76
5	10281383005	10281373005	66.10	80

FIXED TIBIAL COMPONENT

- 6 Sizes
- Symmetric
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cemented: 0.3 mm Deep Pockets





CoCrMo				
Size		ML	AP	Height
0	10253613000	41.90	63.50	51
1	10253613001	44.50	67.50	51
2	10253613002	47.20	71.50	54
3	10253613003	49.80	75.50	54
4	10253613004	52.50	79.50	57
5	10253613005	55.20	83.50	57

MOBIL TIBIAL COMPONENT

- 6 Sizes
- Symmetric
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cemented: 0.3 mm Deep Pockets

CoCrMo				
Size		ML	AP	Height
0	10282613000	41.90	63.50	51
1	10282613001	44.50	67.50	51
2	10282613002	47.20	71.50	54
3	10282613003	49.80	75.50	54
4	10282613004	52.50	79.50	57
5	10282613005	55.20	83.50	57

FIXED TIBIAL COMPONENT CEMENTLESS

- 6 Sizes
- Symmetric
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cementless: Hydroxyapatite Coating, Titanium Plasma Spray Coating
- Cementless: 4 Screws Holes (not required with cement): Ø6.5 mm

CoCrMo - Cementless				
Size		ML	AP	Height
0	10253613100	41.90	63.50	51
1	10253613101	44.50	67.50	51
2	10253613102	47.20	71.50	54
3	10253613103	49.80	75.50	54
4	10253613104	52.50	79.50	57
5	10253613105	55.20	83.50	57

MOBIL TIBIAL COMPONENT CEMENTLESS

- 6 Sizes
- Symmetric
- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Cementless: Hydroxyapatite Coating, Titanium Plasma Spray Coating

300 mag.

CoCrMo - Cementless				
Size		ML	AP	Height
0	10282653000	41.90	63.50	51
1	10282653001	44.50	67.50	51
2	10282653002	47.20	71.50	54
3	10282653003	49.80	75.50	54
4	10282653004	52.50	79.50	57
5	10282653005	55.20	83.50	57

FIXED INSERT
CRUCIATE RETAINING (CR)

- UHMWPE High Crosslink
- 135° Flexion
- Increased Anterior and Posterior Edges
- No Movement On Fixed Design
- 6 Size Options
- 5 Different Thickness Sizes Are Available

UHMWPE High Crosslinked							
Size	Thickness					Width	Length
	8	10	12	15	18		
0	10281517008	10281517010	10281517012	10281517015	10281517018	63,5	41,9
1	10281517108	10281517110	10281517112	10281517115	10281517118	67,5	44,5
2	10281517208	10281517210	10281517212	10281517215	10281517218	71,5	47,2
3	10281517308	10281517310	10281517312	10281517315	10281517318	75,5	49,8
4	10281517408	10281517410	10281517412	10281517415	10281517418	79,5	52,5
5	10281517508	10281517510	10281517512	10281517515	10281517518	83,5	55,2

FIXED INSERT
POSTERIOR STABILIZED (PS)

- UHMWPE High Crosslink
- 135° Flexion
- Increased Anterior and Posterior Edges
- No Movement On Fixed Design
- 6 Size Options
- 5 Different Thickness Sizes Are Available

UHMWPE High Crosslinked							
Size	Thickness					Width	Length
	8	10	12	15	18		
0	10281557008	10281557010	10281557012	10281557015	10281557018	63,5	41,9
1	10281557108	10281557110	10281557112	10281557115	10281557118	67,5	44,5
2	10281557208	10281557210	10281557212	10281557215	10281557218	71,5	47,2
3	10281557308	10281557310	10281557312	10281557315	10281557318	75,5	49,8
4	10281557408	10281557410	10281557412	10281557415	10281557418	79,5	52,5
5	10281557508	10281557510	10281557512	10281557515	10281557518	83,5	55,2

MOBILE INSERT
CRUCIATE RETAINING (CR)

- UHMWPE High Crosslink
- 135° Flexion
- Increased Anterior and Posterior Edges
- 15° Right / Left Movement On Mobile Design
- 6 Size Options
- 5 Different Thickness Sizes Are Available

UHMWPE High Crosslinked							
Size	Thickness					Width	Length
	8	10	12	15	18		
0	10282517008	10282517010	10282517012	10282517015	10282517018	63,5	41,9
1	10282517108	10282517110	10282517112	10282517115	10282517118	67,5	44,5
2	10282517208	10282517210	10282517212	10282517215	10282517218	71,5	47,2
3	10282517308	10282517310	10282517312	10282517315	10282517318	75,5	49,8
4	10282517408	10282517410	10282517412	10282517415	10282517418	79,5	52,5
5	10282517508	10282517510	10282517512	10282517515	10282517518	83,5	55,2

MOBIL INSERT
POSTERIOR STABILIZED (PS)

- UHMWPE High Crosslink
- 135° Flexion
- Increased Anterior and Posterior Edges
- 15° Right / Left Movement On Mobile Design
- 6 Size Options
- 5 Different Thickness Sizes Are Available

UHMWPE High Crosslinked							
Size	Thickness					Width	Length
	8	10	12	15	18		
0	10282557008	10282557010	10282557012	10282557015	10282557018	63,5	41,9
1	10282557108	10282557110	10282557112	10282557115	10282557118	67,5	44,5
2	10282557208	10282557210	10282557212	10282557215	10282557218	71,5	47,2
3	10282557308	10282557310	10282557312	10282557315	10282557318	75,5	49,8
4	10282557408	10282557410	10282557412	10282557415	10282557418	79,5	52,5
5	10282557508	10282557510	10282557512	10282557515	10282557518	83,5	55,2

EXTENSION STEM

- Cobalt-Chrome (CoCrMo ISO 5832-4)
- Extension stem connection : Ø12 mm; 2 Lengths: 25, 50 mm

CoCrMo		
Length	**Diameter**	**Code**
25 mm	Ø12 mm	10282913025
50 mm	Ø12 mm	10282913050

PATELLA COMPONENT

Patella Component

Re-Surfacing
Patella Component

- Symmetric Shape, One Central Fixation Peg Or 3 Fixation Peg
- 5 or 6 sizes
- Machined Ultra High Molecular Weight Polyethylene (UHMWPE ISO 5834-2)
- Cemented

UHMWPE High Crosslinked			
Size	**Thickness**	**Diameter**	**Patella Component**
0	7	20	10281717000
1	7.5	24	10281717001
2	8	28	10281717002
3	8.5	32	10281717003
4	11	36	10281717004

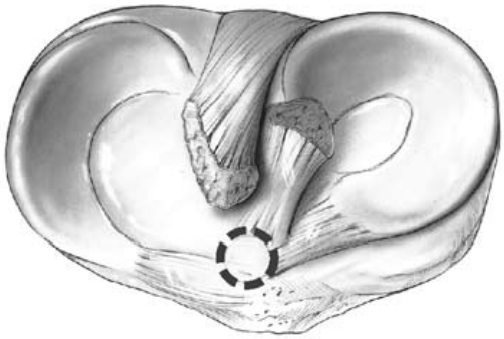
UHMWPE High Crosslinked			
Size	**Thickness**	**Diameter**	**Re-Surfacing Patella Component**
0	7.8	30	10281737000
1	8.5	33	10281737001
2	9	36	10281737002
3	9.4	39	10281737003
4	10	42	10281737004
5	10.4	45	10281737005

T08 PRIMARY KNEE MINIMAL INVASIVE

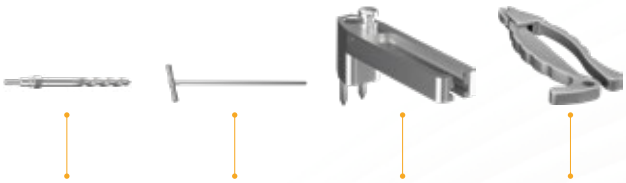
Surgical Technique

Tibia Intramedullary Application Technique

Bring the Tibial Retractor forward to highlight the tibial plateau. Use it correctly. This device prevents neurovascular damage subperiosteally to the posterior cortex of the tibia should be placed with caution. patella Use the Patella Retractor to retract laterally. use it.



Tibia intramedullary canal drilling procedure T07 drill Ø10 mm from where the anterior cruciate ligament attaches It is done with.



T07
Drill Ø10

T07
İntramedüller
Rod / Tibia

Tibia Guide
Intramedüller
Support Piece

T07 B40
Nail Gripping
Pliers

Note: T07 drill Ø10 mm used in Tibia intramedullary drilling femur distal plateau in intramedullary canal drilling process is used.

Tibia Intramedullary Guide Preparation

Tibia guide with intramedullary support piece T07 Intramedullary rod is inserted into the medullar canal of the tibia. Push it all the way to the deepest part. Afterwards, the nail holder hold the support piece with pliers and remove the tibia plateau. It is driven into contact with the surface.

Caution: Tibia Intramedullary Guide and Support piece screw directly into the center of the tibial plate Make sure you look at the internal 1/3 of the tibia tuberosity and intersection point of the external 2/3.)

Adjusting Tibia Incline

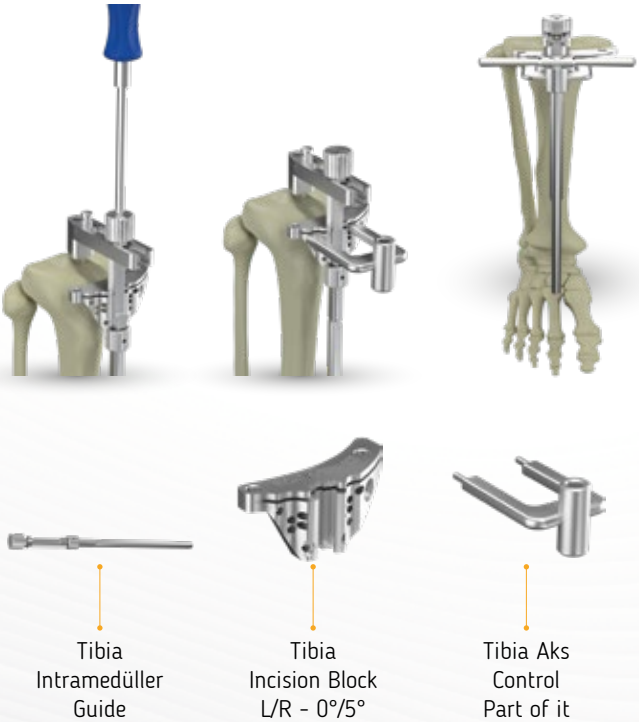
There are 2 options for tibia posterior slope: The incision block is 0° and 5°. Selected tibial incision block tibial will determine the posterior slope of the resection. tibia incision blog 0°, setting on the tibia intramedullary guide shaft install over the setting piece and dovetail up the slide direction, rotate the setting piece to dovetail upwards
Move it closer to the sled.

Caution: Make the tibia incision block with the tibia intramedullary guide. While assembling; between the setting piece and the dovetail channel Make sure there is enough space for the tibia incision to pass the block.

Mounted Tibia incision block and Tibia intramedullary The guide is attached to the T channel in the Tibia support piece. Tibia intramedullary guide, tibia support piece T smoothly in the mediolateral direction through the canal Push it until it is positioned and insert the tibia intramedullary guide. Lightly tighten the nut on it.

Tibia axis to check varus, valgus alignment Attach the control piece to the tibia incision block. later T07 Intramedullary Rod to tibia axis control piece insert and varus valgus alignment to the second toe on the tibia intramedullary rod when provided tighten the nut.

Attention: T07 tip of intramedullary rod Ankle Make sure it is aligned with the center of the joint. (The 2nd metatarsal of the foot is taken as reference.)



Tibia Intramedüller Guide

Tibia Incision Block L/R - 0°/5°

Tibia Aks Control Part of it

ADJUSTING THE CUT LEVEL

Tibia incision block, tibia stylus, defect in the tibia plateau It is attached from the medial or lateral side depending on the situation.

When the stylus is positioned medially, the stylus tip marking should show 0 mm. stylus from lateral When positioned, the marking on the stylus tip is 8 It should be mm. Max. in both options. 8 mm cutting is done

Additionally, with the help of T07 Control Sheet Metal, contralateral Make sure that the compartment will be cut to a sufficient level. is done. Micrometric adjustment screw when necessary The cutting level to be made can be changed with the help of it.

After the cutting level is determined; Tibia incision block Nail / Ø3.2 x 70 is hammered from the place marked 0. If necessary, a drill can be used thanks to the special form on the nail tips. Nail can be driven by drilling method such as.

T07 Intramedullary Rod is removed in an upward direction.

Tibia Guide Intramedullary Support Piece T07 B40 Nail The holder is held with pliers. Tibia Guide support piece with T07 moving hammer extractor by attaching the adapter removable

The setting piece in the tibia intramedullary guide is placed downwards. It is rotated in the direction and brought to the end of the pass. Removal procedure is carried out upwardly in the tibia intramedullary It is done up to the setting piece in the guide and then back. is pulled right.

Marking 0 on the tibia incision block with Nail / Ø3 x 55 through the hole in diagonal position underneath The tibia incision block is fixed by nailing.

Tibial plateau incision is made.

Tibia Stylus | Nail ø3.2 x 70 | Nail ø3.0 x 55 | T07 Blade Runner

TIBIA EXTRAMEDULLAR SURGICAL TECHNIQUE

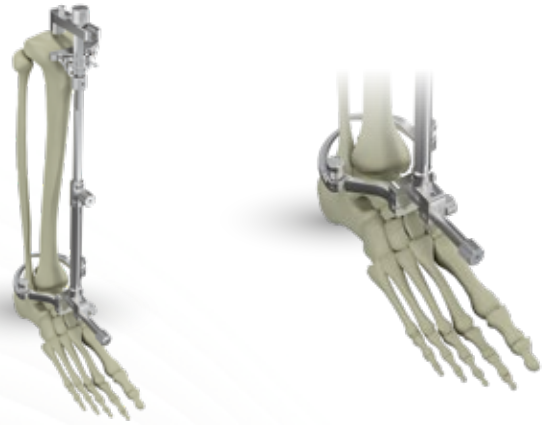
Preparation of tibia extraramedullary guide;

Tibia incision block 0°, on the tibia intramedullary guide shaft Insert it over the adjustment setting piece and through the dovetail slide. push it in the upward direction, rotate the setting piece in the upward direction Move the dovetail closer to the sled.

Mounted Tibia incision block and Tibia intramedullary The guide is attached to the T channel in the Tibia support piece.

Attention: follow the tibia incision blog with the tibia inramedullary guide. While assembling; between the setting piece and the dovetail channel Make sure there is enough space for the tibia incision to pass the block.

Assemble the distal tibia body with the tibia ankle clamp.



Assembled Tibia ankle clamp, Tibia distal Assemble Tibia intramedullary guide with trunk, Telescopic Adjust the bar to the approximate length of the tibia on the torso Tighten the screw slightly. Open the tibia ankle clamps. Insert the ankle proximal to the malleolus and at the ankle Loosen the screw that provides mediolateral adjustment.

Lower and upper in the extramedullary application phase After the assembly of the part; Tibia ankle clamp, Tibia distal body to center of ankle joint is positioned to come. Tibia support piece Center the pointed pin meiolaterally into the tibia bone.

T07 B40 Nail Holder Hold the nailing process by holding it with pliers. do it. Midpoint between medial and lateral malleoli It should be placed approximately 5mm-10mm medially. The tip should point towards the second finger. Proper mediolateral Once the position is achieved, remove the Ankle Clamp. Tighten the scre secure.

In the sagittal plane, the tibia mounting axis is both proximal using the slide settings at both distal ends with the mounting axis parallel to the anterior tibial shaft Then tighten the screw for both adjustments.

Note: Tibia to check varus, valgus alignment Attach the axle control piece to the tibia incision block. later Insert the T07 Intramedullary Rod into the tibia axis control piece and varus valgus alignment of the second toe on the tibia intramedullary rod when provided tighten the nut.

Tibia
Intramedüller
Guide

Tibia
Incision Block
L / R - 0° / 5°

ADJUSTING THE TIBIA INCLINE

There are 2 options for tibia posterior slope: tibia incision. block is 0° and 5°.

The selected tibial incision block is posterior to the tibial resection. will determine its slope.

The slope of the tibia depends on the anatomy of the patient, It can also be adjusted by moving the bottom part of the guide.

! *Caution: Before determining the level of the cut, consider the slope of the tibia. should be determined. Final positioning of the tibial incision block until determined; The lower and upper parts of the tibia apparatus are It should be adjusted so that it can move freely between the A slope greater than it should be; posterior cruciate ligament tibia may damage the insertion.*

After adjusting the tibia slope, varus, valgus tibial axis control piece to check alignment Attach the tibia to the incision block. Then T07 Intramedullary Insert the rod into the tibia axle control piece, the end of the rod It should show the second toe.

T07 Intramedüller Rod / Tibia

Tibia Intramedüller Guide

Tibia Incision Block L / R - 0° / 5°

Tibia Aks Control Part

ADJUSTING THE TIBIA CUT LEVEL

Tibia incision block, tibia stylus, defect in the tibia plateau It is attached from the medial or lateral side depending on the situation. When the stylus is positioned medially, the stylus tip marking should show 0 mm. stylus from lateral When positioned, the marking on the stylus tip is 8 It should be mm. Max. in both options. 8 mm cutting is done

Additionally, with the help of T07 Control Plate, contralateral Make sure that the compartment will be cut to a sufficient level. is done. Micrometric adjustment screw when necessary The cutting level to be made can be changed with the help of it.

TIBIA CUTTING

After the cutting level is determined;
Nail from the place marked 0 on the tibia incision block Ø3.2x70 is nailed. If necessary, special form on the nail tips Thanks to this, nails can be driven by drilling method such as a drill.

The tibia ankle clamp is opened, the tibia is placed on the distal body. screws are loosened.

Tibia Guide Intramedullary Support Piece T07 B40 Nail Holding Pliers are held, Tibia is in the intramedullary guide The setting piece located in the pass is rotated downwards. is brought to the end. Subtraction is in the upward direction tibia is carried out up to the setting piece in the intramedullary guide It is then pulled backwards.

Marking 0 on the tibia incision block with Nail / Ø3 x 55 through the hole in the diagonal position underneath The tibia incision block is fixed by nailing. Tibia incision if necessary 2 pieces in diagonal position at the bottom of the block Additional nails can be driven through the hole to secure it.

Caution: Tibia guide and extramedullary application parts Displacement of the tibia incision block during removal Care should be taken not to play with it.

NOTE: In overweight patients, before cutting the tibia, mediolateral alternative tibia to facilitate approach There is an extramedullary guide.

Tibial plateau incision is made.

FEMUR DISTAL INCISION SURGICAL TECHNIQUE

The knee to be operated on is brought to a 90-degree angle. T07 Posterior cross of femoral axis using drill Ø10 mm It is pierced through the femoral insertion in front of the ligament.

4+1 System Femur Distal Guide 0°/3°/5°/6°/9° right and It is used on the left side, suitable for varus valgus angle. with T07 Intramedullary Femoral Rod into the distal femur Install until contact.

Then, 4+1 system Femur Distal incision adjustment apparatus Mount the 4+1 Femur Distal Guide as shown below.

4+1 System Femur Distal Cutting Block 4+1 system Femur Mount with the Incision Adjustment apparatus.

Located on the femur distal incision adjustment apparatus Press the clamping lever downwards and fix it. provide. Femur to adjust the distal femur incision Turn the setting piece on the distal incision adjustment apparatus clockwise. Conversely, Distal Femur incision block allows the defective area to be cut. Turn until incorporated.

Check the incision level with the help of T07 control sheet. do it. Make sure it will be cut sufficiently. incision After the level is determined, on the distal incision block Nails Ø3.2x70 through marked holes number 0 hit with. If necessary, thanks to the special form on the nail tips Nails can be driven in using a drilling method such as a drill.

Angled angles on the right and left of the femur distal incision block It is fixed with T07 Nail Ø3x55 using holes. Nail T07 B40 Nail Holding Pliers are used for fastening.

4+1 system femur incision blog if needed holder can be used. Femur after fixation The distal incision adjustment apparatus and the distal femur guide are removed. The distal femur incision is made with a 1.2 mm blade.

T07
Drill Ø10

T07
Intramedüller
Rod / Femur

4+1 sistem
femur distal
guide X°

4+1 sistem
femur distal
incision adjustment
device

4+1 sistem
femur distal
incision blog

T07
Blade
Runner

PREPARATION OF FEMUR ANTERIOR SIZE MEASUREMENT

After the distal femur incision is completed, the femur is Femur Anterior Size Gauge for determining measurement will contact the distal femur and posterior condyle place it as follows.

Compression on femur anterior size gauge Loosen the setting piece and adjust the appropriate external fit according to the right or left bone. Select rotation 0°/3°/6° and 9°. Generally 3° external rotation is applied. Femur anterior size with stylus on the gauge by contacting the highest point of the femoral cortex measurement is made. T07 nail Ø3.2x70 is driven.

After the size measurement is determined, Femur Anterior Size Take out the gauge.

4+1 sistem femur anterior size meter

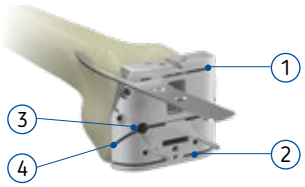
CONTINUATION OF FEMUR INCISIONS

Reference the 4+1 incision block suitable for the specified size. until it contacts the distal plateau of the femur over the nails. Push it until 4+1 femur incision block holder for this procedure is used.

Through femur incision block channels with T07 control sheet Check the cut level. Cutting into the femoral cortex Make sure it is not aligned.

T07 nail is driven into the femur with Ø3x55. T07 for nailing B40 nail holder pliers are used. Later, 4+1 femur incision block fixing screw Ø5 T07 screwdriver 3.5 aid through the fixation holes on the femur incision block. Fixing is done by screwing.

After the femur incision block is fixed, it is cut with a 1.2 mm blade. The cutting process is done in the order specified below. femur In a situation where fixation of the incision block is not sufficient The femoral incision block fixation arm can be used.



1	2	3	4
Anterior	Posterior	Anterior Chamfer	Posterior Chamfer

Attention: After the Anterior and Posterior incisions are made 4+1 femur incision block fixing screw Ø5, T07 screwdriver 3.5 It is dismantled with the help of

Anterior Chamfer and Posterior Chamfer incisions are made The femur incision is completed.

4+1 sistem femur incision blog / X

4+1 sistem femur incision block fixing screw / ø5

T07 screwdriver 3,5

KNEE GAP MEASUREMENT

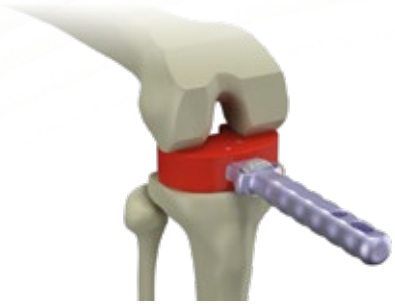
T07 test medical with T08 gap measurement test Assemble the component holder. knee flexion In the position, carry out the T08 clearance measurement test accordingly. position the size of the tibia insert you will use determines the thickness. Make a note of the determined size thickness. do it. Then T08 gap in extension position Check the measurement test by inserting it into the knee spacer.

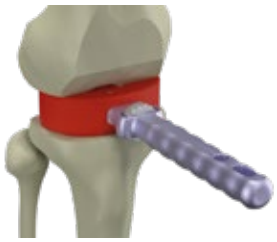
The cut of the tibia is used to determine the thickness of the tibia insert. The thickness of the section is measured with a caliper and verifiable.

NOTE: Avoid overlaps that will overfill the joint.

T08
clearance measurement
test / xx

T07 test tibial
component
holder





PLACEMENT OF THE FEMUR TEST COMPONENT

In the T08 bond preserving system; T08 femur testing component The T07 femur component is mounted on the driver.

In the T08 bond-cutting system; T08 femur testing component posterior stabilization shaft, T08 femur test component T07 femoral component after placement on It is mounted on the driver. T07 mobile hammer - extractor The femur test component is nailed to the femur using The femur is larger than the holes on the test component. Then, peg holes are opened with a T07 drill Ø7 mm.

T08
Test Femoral
Component

T07 Femoral
Component
Driver

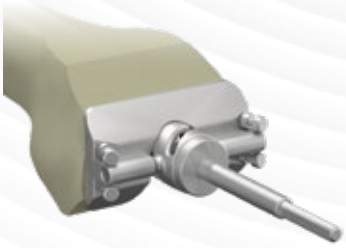
T08 Test
Femoral
Component
Posterior
Stabilization
Shaft

T07
Movable
Hammer
Extractor

T07
Drill / Ø7

POSTERIOR STABILIZER OF THE FEMUR (LIGATION CUTTING) 1ST METHOD TO MAKE IT HAPPEN

Physician will be performed according to the doctor's decision. For Notch unloading process, suitable femur The ligating guide is positioned on the distal femur. Pin located on the sides of the femur disconnecting guide It is fixed with Ø 3x55 nails through the holes.



The femur is cut with the help of the reamer drill motor that cuts the femur posterior stabilized. Carving from the entrance hole on the top of the connecting guide The procedure is performed and the femur is rotated towards the condyles. rotation is done. In this way, notch unloading process is completed.

Femur tie cutting guide

Femur tie cutting reamer

DETERMINATION OF THE TIBIA COMPONENT

T07 tibia test component and T07 tibia test component using the holder; Proper size of tibial component is selected. Tibia anteriorly on the test component 2 pieces of T07 nails Ø2.5 into the two holes positioned mm is nailed. The designated tibia test insert is placed. T07 Tibia Test Component Holder tibia test component is mounted.

Femur and Tibia with the femur test component attached; Flexion ranges are checked. Tibia test insert, tibia test component if appropriate is removed from it. Tibia incision block reference nails is removed. If it is not suitable, the tibia test component is removed. by adjusting -2mm/-4mm over the tibia incision block Re-cutting is done. Flexion and extension control is performed again.

DETERMINATION OF THE TIBIA COMPONENT

Tibia testing ensures that the component is fully seated. providing and preparing the wing-shaped nest during; prevent lateral slippage posteriorly on the tibia test component for 2 T07 Nails Ø2.5 mm in two holes positioned driven and 4+1 system tibia Ø10 drill guide is mounted. Drilling with T07 drill / Ø10 mm is carried out.

! *Caution: Drilling process is not possible when T07 Tibia Shaft is not used. cases up to the first line on the drill bit, T07 Up to the second line in cases where Tibia Shaft will be used should be done.*

T07 Mobile Hammer after drilling - Extractor bit, T07 puncher and T07 Mobile Hammer - The extractor is assembled together and the wing-shaped outer is outlines are created.

In case an additional tibia shaft is added; chosen The test length should be screwed into the slot opener and the entire apparatus should be attached to the tibia. into the tibia test component to open the necessary path to the shaft. should be placed. Hammered on Tibia test component socket opener, by attaching the tibia test insert without disassembling Trial testing can be done.

T07 tibia test component

T07 test tibial component holder

4+1 system nail ø2,5x40

4+1 sistem tibia ø10 drill guide

T07 energetic hammer extractor tip

T07 puncher

TIBIA BASEPLATE

Where necessary; 25 and 50 mm T08 Tibia Shaft, tibia The desired extension can be achieved by screwing it to the component.

INSTALLING STANDARD AND MOBILE TEST INSERTS

Mobile knee system at the end of the tibia termination process If used, the Tibia canal is opened after the medulla canal is opened. The Test Component was removed and replaced with T08-mb test medical. component driver - extractor bit, t07 mobile driver extractor and T08 - MB Test Tibia Component assembly is done, then the tibia hammering process is performed.

For the Mobile Ligament Protecting knee system;
T08-mb test tibia insert, T07 Tibia Test Insert Posterior Assemble the Stabilization Part then T08 - MB Position over Tibia Test Component.

Attention: T08 femoral in Tibia component mobile app test component T08 femoral test component posterior Flexion and extension movements by attaching a stabilizer shaft should be done.

T08-mb test tibial component

T08-mb test tibia insert

T07 test tibia insert posterior stabilization part

POSTERIOR STABILIZER OF THE FEMUR (LIGATION CUTTING) FORMATION FROM THE SECOND DIRECTION

As an alternative to notch unloading of the femur; T07 Notchplasty of 1 cm between 2 condyles with Slot Opener This ensures that bone loss is minimized. This In this way, the posterior cruciate ligament is cut. on the tibia T07 tibia test insert posterior stabilization piece Movement compatibility is achieved with the femur component.

T07
Slot Opener

PATELLA APPLICATION TECHNIQUE

T07 patella incision guide, T07 patella holder mounted is done. Carefully release the periphery of the patella After releasing T07 patella incision with the help of stylus blocks are positioned at the appropriate cutting level and The gripper locks securely. The incision is through the guide channel The patella is cut. After the cutting is completed; The patella clamp is opened and the patella incision block is removed. is removed.

T07 patella hole template is cut out of patella It is placed on the surface and with the help of T07 drill Ø5 mm It is pierced with. T07 patella hole template, from patella clamp is removed. T08 Patella Test Accurate between components The size is selected and positioned on the patella.

T07
Patella incision guide

T07
Patella conservative

T07
Patella stylus

T07
Patella hole template

T08
Patella test component

T07
Drill / Ø5

T07
Patella barrel

T07
Patella holder pointed tip

The patella in our system has 3 different sizes.

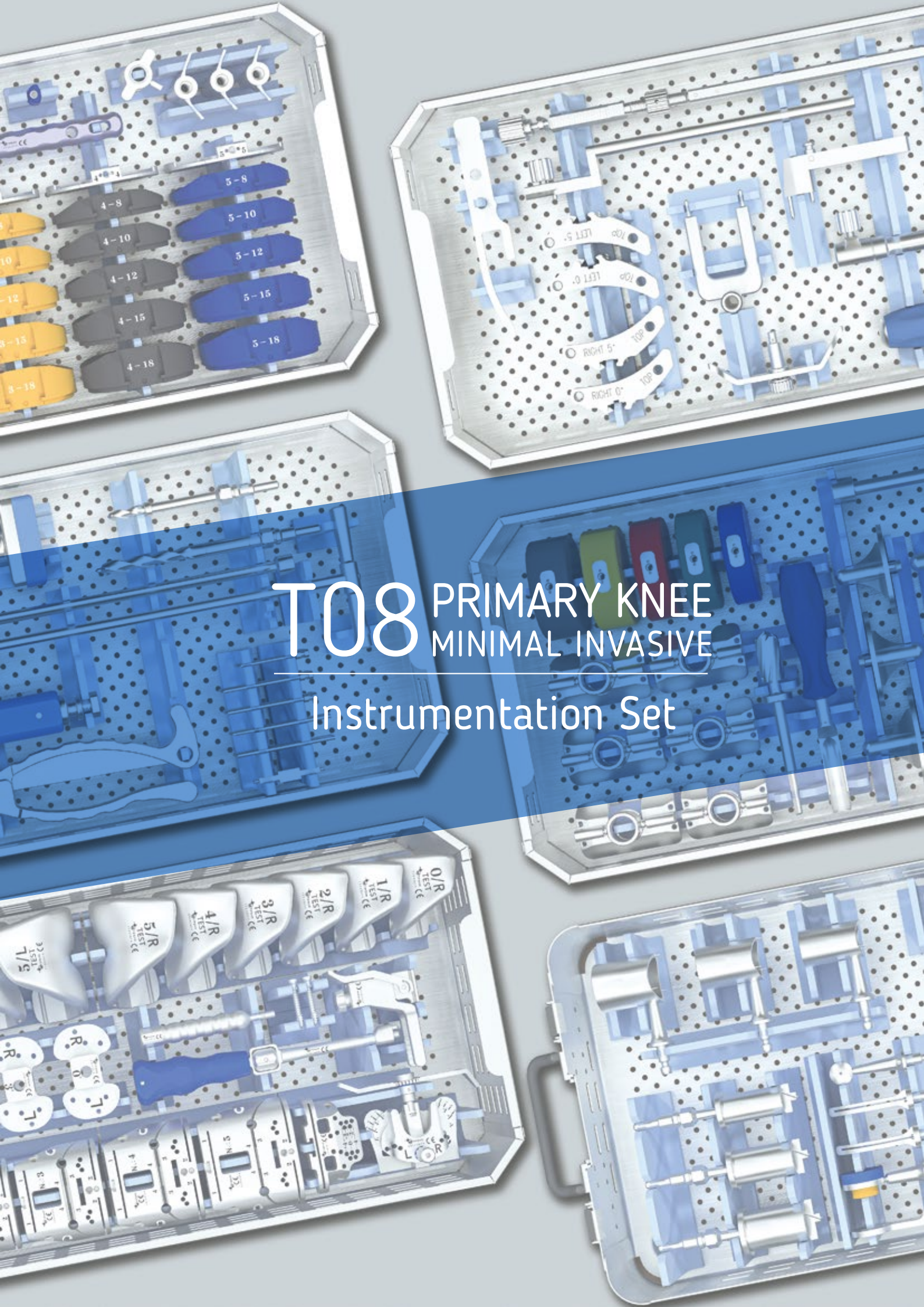
Using T07 patella barrel of different sizes The size of the patella is determined. T07 patella holder - patella guide patella with pointed tip and appropriate size is mounted on the clamp. Patella guide correctly Make sure it is positioned. appropriate size reamer The patella is placed in the guide and the patella is removed with the reamer. The guide is drilled until its upper part comes into contact. additional drilled If the depth is insufficient, the patella guide is removed and the depth is measured. can be increased. Test patella component with patella holder is mounted.

To remove the carving process carefully, at low power; patella! It should be done with the clamp closed.

IMPLANT REMOVAL AND DISPOSAL

Tipsan implants are intended for permanent implantation.

If implant removal is necessary, appropriate instrumentation should be used. The removed implant should not be considered as biohazardous products. should be evaluated and disposed of in accordance with local and national regulations for infection prevention control.

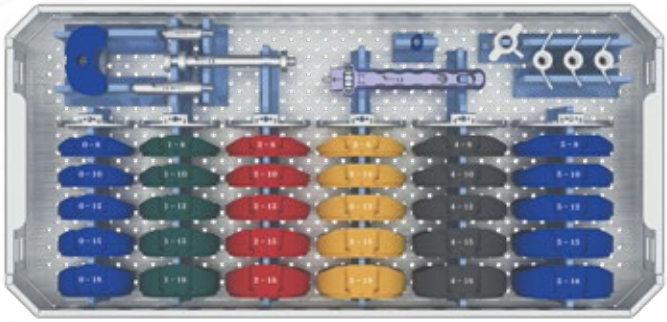


T08 PRIMARY KNEE MINIMAL INVASIVE

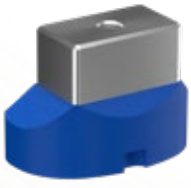
Instrumentation Set

TRAY 1

28011030001-3010



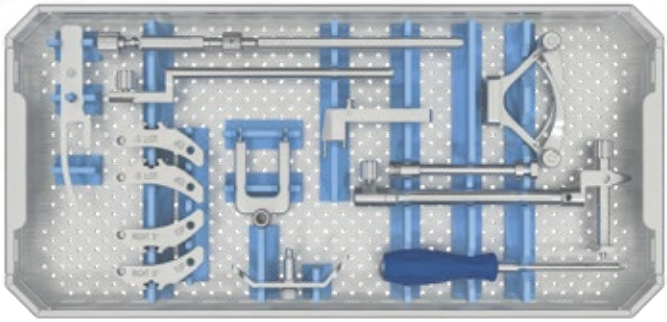
Code	Description	Unit
10608550008	T08 TIBIAL TEST INSERT / 0 - 8	1
10608550010	T08 TIBIAL TEST INSERT / 0 - 10	1
10608550012	T08 TIBIAL TEST INSERT / 0 - 12	1
10608550015	T08 TIBIAL TEST INSERT / 0 - 15	1
10608550018	T08 TIBIAL TEST INSERT / 0 - 18	1
10608550108	T08 TIBIAL TEST INSERT / 1 - 8	1
10608550110	T08 TIBIAL TEST INSERT / 1 - 10	1
10608550112	T08 TIBIAL TEST INSERT / 1 - 12	1
10608550115	T08 TIBIAL TEST INSERT / 1 - 15	1
10608550118	T08 TIBIAL TEST INSERT / 1 - 18	1
10608550208	T08 TIBIAL TEST INSERT / 2 - 8	1
10608550210	T08 TIBIAL TEST INSERT / 2 - 10	1
10608550212	T08 TIBIAL TEST INSERT / 2 - 12	1
10608550215	T08 TIBIAL TEST INSERT / 2 - 15	1
10608550218	T08 TIBIAL TEST INSERT / 2 - 18	1
10608550308	T08 TIBIAL TEST INSERT / 3 - 8	1
10608550310	T08 TIBIAL TEST INSERT / 3 - 10	1
10608550312	T08 TIBIAL TEST INSERT / 3 - 12	1
10608550315	T08 TIBIAL TEST INSERT / 3 - 15	1
10608550318	T08 TIBIAL TEST INSERT / 3 - 18	1
10608550408	T08 TIBIAL TEST INSERT / 4 - 8	1
10608550410	T08 TIBIAL TEST INSERT / 4 - 10	1
10608550412	T08 TIBIAL TEST INSERT / 4 - 12	1
10608550415	T08 TIBIAL TEST INSERT / 4 - 15	1
10608550418	T08 TIBIAL TEST INSERT / 4 - 18	1
10608550508	T08 TIBIAL TEST INSERT / 5 - 8	1
10608550510	T08 TIBIAL TEST INSERT / 5 - 10	1
10608550512	T08 TIBIAL TEST INSERT / 5 - 12	1
10608550515	T08 TIBIAL TEST INSERT / 5 - 15	1
10608550518	T08 TIBIAL TEST INSERT / 5 - 18	1

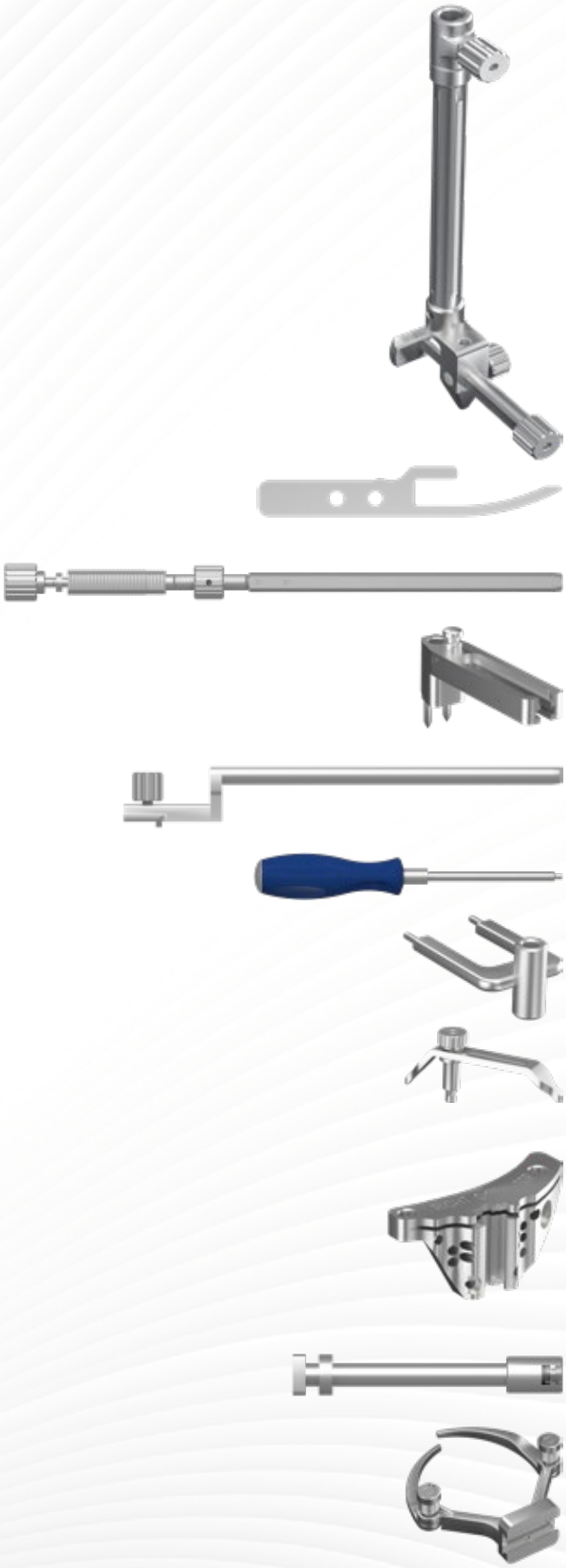


Code	Description	Unit
10608511010	T07 TIBIAL TEST COMPONENT HANDLE	1
10608510805	T07 POSTERIOR STABILIZATION SCHAFT PEG FOR TIBIAL TEST INSERT	1
10608511000	T07 TIBIAL TEST COMPONENT / 0	1
10608511001	T07 TIBIAL TEST COMPONENT / 1	1
10608511002	T07 TIBIAL TEST COMPONENT / 2	1
10608511003	T07 TIBIAL TEST COMPONENT / 3	1
10608511004	T07 TIBIAL TEST COMPONENT / 4	1
10608511005	T07 TIBIAL TEST COMPONENT / 5	1
10608511325	T07 TIBIAL STEM - TEST / 25	1
10608511350	T07 TIBIAL STEM - TEST / 50	1
10608511205	T07 TIBIAL COMPONENT IMPACTOR	1
10608521033	T07 SLIDE HAMMER ATTACHMENT	1
10608521041	T07 PUNCHER / 0 - 1	1
10608521043	T07 PUNCHER / 2 - 3	1
10608521045	T07 PUNCHER / 4 - 5	1
10607031501	T08 4+1 SYSTEM TIBIAL DRILL GUIDE	1

TRAY 2

28011030001-3020

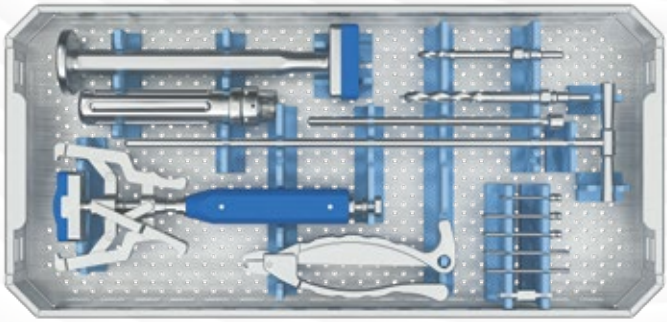


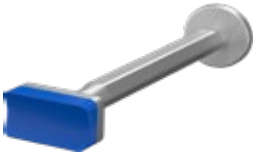


Code	Description	Unit
10608021091	TIBIAL DISTAL BODY	1
10608511173	T07 BLADE RUNNER	1
10608021082	TIBIA INTRAMEDULLARY GUIDE	1
10608021083	TIBIA INTRAMEDULLARY GUIDE SUPPORT PIECE	1
10608021084	TIBIA EXTRAMEDULLARY GUIDE	1
10604010065	T07 SCREW DRIVER	1
10608021085	TIBIA AXIS CONTROL PIECE	1
10608021086	TIBIA STYLUS	1
10608021087	TIBIAL CUTTING BLOCK / 0° SAĞ	1
10608021088	TIBIAL CUTTING BLOCK / 0° SOL	1
10608021089	TIBIAL CUTTING BLOCK / 5° SAĞ	1
10608021090	TIBIAL CUTTING BLOCK / 5° SOL	1
10608021183	TIBIA GAYD INTRAMEDULLAR SUPPORT PIECE - ADAPTER	1
10608021092	TIBIA ANKLE CLAMP	1

TRAY 3

28011030001-3040

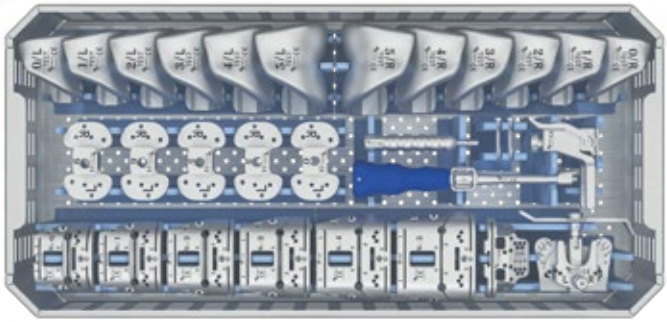




Code	Description	Unit
10601101051	T08 PENS	1
10606511070	T07 DRILL BIT / Ø7	1
10606511100	T07 DRILL BIT / Ø10	1
10606521101	T08 4+1 SYSTEM THREADED NAIL / Ø3,2 X 70	4
10606570140	T08 4+1 SYSTEM NAIL / Ø2,5 X 40	4
10606570255	T08 4+1 SYSTEM NAIL / Ø3,0 X 55	6
10606570570	T08 4+1 SYSTEM NAIL / Ø3,2 X 70	4
10607211001	T08 4+1 SYSTEM IMPACTOR	1
10608021055	T07 INTRAMEDULLARY ROD FOR TIBIAL	2
10608021056	T07 INTRAMEDULLARY ROD FOR FEMORAL	1
10608521032	T07 SLIDE HAMMER	4
10608521105	T07 FEMORAL COMPONENT IMPACTOR	1
10608560010	T08 FEMORAL TEST COMPONENT POSTERIOR STABILISATION SCHAFT	2

TRAY 4

28011030001-3050

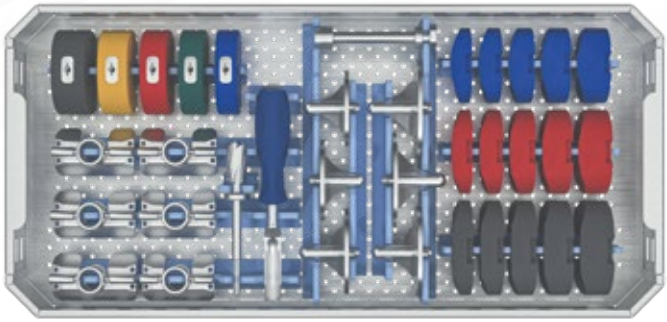


Code	Description	Unit
10608560100	T08 FEMORAL TEST COMPONENT / SAĞ - 0	1
10608560101	T08 FEMORAL TEST COMPONENT / SAĞ - 1	1
10608560102	T08 FEMORAL TEST COMPONENT / SAĞ - 2	1
10608560103	T08 FEMORAL TEST COMPONENT / SAĞ - 3	1
10608560104	T08 FEMORAL TEST COMPONENT / SAĞ - 4	1
10608560105	T08 FEMORAL TEST COMPONENT / SAĞ - 5	1
10608560200	T08 FEMORAL TEST COMPONENT / SOL - 0	1
10608560201	T08 FEMORAL TEST COMPONENT / SOL - 1	1
10608560202	T08 FEMORAL TEST COMPONENT / SOL - 2	1
10608560203	T08 FEMORAL TEST COMPONENT / SOL - 3	1
10608560204	T08 FEMORAL TEST COMPONENT / SOL - 4	1
10608560205	T08 FEMORAL TEST COMPONENT / SOL - 5	1
10612020000	4+1 SYSTEM FEMORAL CUTTING BLOCK / 0	1
10612020001	4+1 SYSTEM FEMORAL CUTTING BLOCK / 1	1
10612020002	4+1 SYSTEM FEMORAL CUTTING BLOCK / 2	1
10612020003	4+1 SYSTEM FEMORAL CUTTING BLOCK / 3	1
10612020004	4+1 SYSTEM FEMORAL CUTTING BLOCK / 4	1
10612020005	4+1 SYSTEM FEMORAL CUTTING BLOCK / 5	1

Code	Description	Unit
10608021070	T08 4+1 SYSTEM DISTAL FEMUR GUIDE 0°	1
10608021073	T08 4+1 SYSTEM DISTAL FEMUR GUIDE 3°	1
10608021075	T08 4+1 SYSTEM DISTAL FEMUR GUIDE 5°	1
10608021076	T08 4+1 SYSTEM DISTAL FEMUR GUIDE 6°	1
10608021079	T08 4+1 SYSTEM DISTAL FEMUR GUIDE 9°	1
10608021076	T08 4+1 SYSTEM DISTAL FEMUR GUIDE 6°	1
10608581005	T08 4+1 SYSTEM FEMORAL CUTTING BLOCK FIXING SCREW / Ø 5	2
10608591001	T08 4+1 SYSTEM DISTAL CUTTING BLOCK	1
10608601001	T08 4+1 FEMUR DISTAL CUTTING SETTING ATTACHMENT	1
10601421001	T08 4+1 SYSTEM FEMORAL CUTTING BLOCK HOLDER	1
10608521013	T08 4+1 SYSTEM FEMORAL CUTTING BLOCK FIXING HANDLE	2
10608521016	T08 4+1 SYSTEM ANTERIOR GAUGE	1

TRAY 5

28011030001-3060

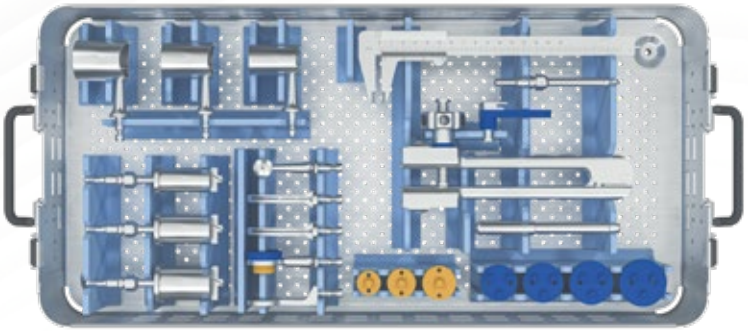


Code	Description	Unit
10608610008	T08 - MOBILE BEARING TIBIAL TEST INSERT / 0 - 8	1
10608610010	T08 - MOBILE BEARING TIBIAL TEST INSERT / 0 - 10	1
10608610012	T08 - MOBILE BEARING TIBIAL TEST INSERT / 0 - 12	1
10608610015	T08 - MOBILE BEARING TIBIAL TEST INSERT / 0 - 15	1
10608610018	T08 - MOBILE BEARING TIBIAL TEST INSERT / 0 - 18	1
10608610208	T08 - MOBILE BEARING TIBIAL T EST INSERT / 2 - 8	1
10608610210	T08 - MOBILE BEARING TIBIAL TEST INSERT / 2 - 10	1
10608610212	T08 - MOBILE BEARING TIBIAL TEST INSERT / 2 - 12	1
10608610215	T08 - MOBILE BEARING TIBIAL TEST INSERT / 2 - 15	1
10608610218	T08 - MOBILE BEARING TIBIAL TEST INSERT / 2 - 18	1
10608610408	T08 - MOBILE BEARING TIBIAL TEST INSERT / 4 - 8	1
10608610410	T08 - MOBILE BEARING TIBIAL TEST INSERT / 4 - 10	1
10608610412	T08 - MOBILE BEARING TIBIAL TEST INSERT / 4 - 12	1
10608610415	T08 - MOBILE BEARING TIBIAL TEST INSERT / 4 - 15	1
10608610418	T08 - MOBILE BEARING TIBIAL TEST INSERT / 4 - 18	1

Code	Description	Unit
10608611000	T08 - MOBILE BEARING TEST TIBIAL COMPONENT / 0	1
10608611001	T08 - MOBILE BEARING TEST TIBIAL COMPONENT / 1	1
10608611002	T08 - MOBILE BEARING TEST TIBIAL COMPONENT / 2	1
10608611003	T08 - MOBILE BEARING TEST TIBIAL COMPONENT / 3	1
10608611004	T08 - MOBILE BEARING TEST TIBIAL COMPONENT / 4	1
10608611005	T08 - MOBILE BEARING TEST TIBIAL COMPONENT / 5	1
10610411001	FEMORAL LIGAMENT REAMER	1
10608021200	T08 SPACE SIZING TEST / 08	1
10608021201	T08 SPACE SIZING TEST / 10	1
10608021202	T08 SPACE SIZING TEST / 12	1
10608021203	T08 SPACE SIZING TEST / 15	1
10608021204	T08 SPACE SIZING TEST / 18	1
10608521003	T07 NOTCHING INTSRUMENT	1
10608911000	PS BOX GUIDE / 0	1
10608911001	PS BOX GUIDE / 1	1
10608911002	PS BOX GUIDE / 2	1
10608911003	PS BOX GUIDE / 3	1
10608911004	PS BOX GUIDE / 4	1
10608911005	PS BOX GUIDE / 5	1
10608621033	T08 - MOBILE BEARING PUNCH HANDLE	1

TRAY 6

28011030001-3070



Code	Description	Unit
10608530505	T07 PATELLA CLAMP	1
10608530507	T07 PATELLA HOLDER	1
10608530511	T07 PATELLA CUTTING BLOCK - RIGHT	1
10608530512	T07 PATELLA CUTTING BLOCK - LEFT	1
10608530525	T07 PRESSURIZING JAWS	1
10608530528	T07 DIRILLING TEMPLATE	1
10607121001	IMPACTOR BAR	1
10608531005	T07 CALLIPER GAUGE	1

Code	Description	Unit
10608530540	T07 PATELLA GUIDE / 0	1
10608530541	T07 PATELLA GUIDE / 1	1
10608530542	T07 PATELLA GUIDE / 2	1
10608530550	T07 PATELLA REMAER / 0	1
10608530551	T07 PATELLA REMAER / 1	1
10608530552	T07 PATELLA REMAER / 2	1
10608570100	T08 PATELLA TEST COMPONENT / 0	1
10608570101	T08 PATELLA TEST COMPONENT / 1	1
10608570102	T08 PATELLA TEST COMPONENT / 2	1
10608570200	T08 RE-SURFACING PATELLA TEST COMPONENT / 0	1
10608570201	T08 RE-SURFACING PATELLA TEST COMPONENT / 1	1
10608570202	T08 RE-SURFACING PATELLA TEST COMPONENT / 2	1
10608570203	T08 RE-SURFACING PATELLA TEST COMPONENT / 3	1
10608530561	T07 PATELLA STYLUS	1
10606511050	T07 DRILL BIT / Ø5	1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