



[externalfixatorcatalog](#)



| Orthopedic Implants

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*optional

BALL-JOINT FIXATORS

The Dynamic Multi Axial Fixator (DAF) is designed to allow the transmission of the axial forces over the frame during the healing. In this way, the increasing loads that could effect the fracture are transferred. This feature is obtained by creating a fixator body in two parts.

DAF has a nested telescopic structural body and additionally a unit that can compress or distract.

After the application, the Central Body Locking Nut is tightened to lock the pieces of the body for creating a stable single unit. This process continues until the dynamization of the fracture.

The dynamization must be done after detecting the presence of a Callus, in this way natural forces work for the union of the fracture. Callus is mostly seen at the fifth week after the application.

Dynamization technique is a gradual loading process to the fracture line for the closure of the fracture gap.

When the DC unit is turned 360° (a full turn) it enables for 2 mm to shorten or extend. An allen wrench is also useful to turn the compression-distraction unit.

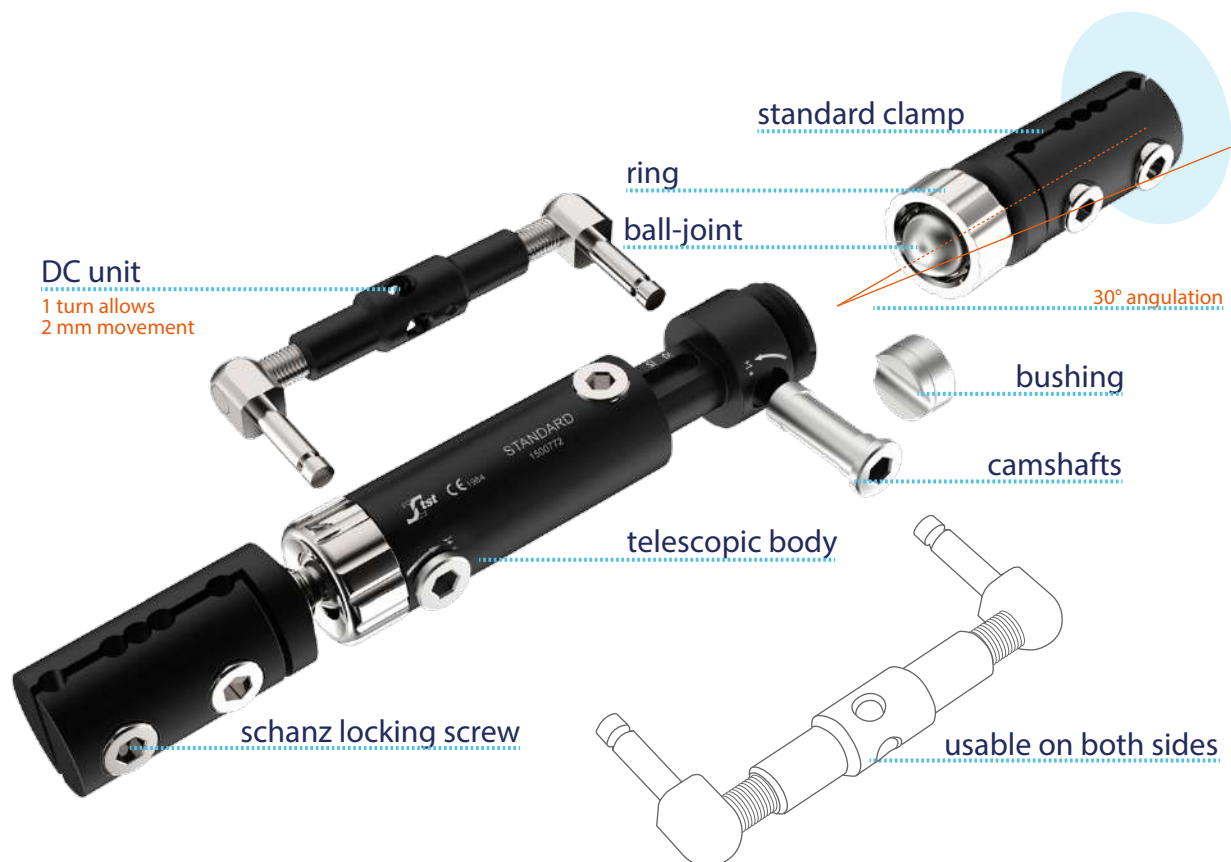
The measure of the movement at the fracture site is dependent to the callus and soft tissue resistance and the system rigidity. If a gradually increased loading is desired at the fracture site, the central body locking nut should be loosened.

Ball-jointed Fixators are primarily used in acute trauma cases. The Ball-joint structure allows the final positioning of the bone fragments after the application of the fixator. If needed, in some fixator application that bridges the joint, the fixator allows the joint mobilization.

The ball-joint designs of the TST Fixator products are not the same. But all of them are based on the Camshaft-Bushing system and when the system is squeezed, the positions of the bone screws are fixed.

The Fixators in this section are; Dynamic Multiaxial Femur-Tibia Fixators, Dynamic Multiaxial Humerus Fixators, Dynamic Angled Wrist Fixators, Pelvis External Fixators, Segmental Multiaxial Bone Transport Fixators.





The fixator body consists of a Telescopic Body, Central Body Locking Bolt, camshafts on the both hands and bushings which used for the clamps locking.

By loosening the central body locking bolt, the nested telescopic structure can provide compression or distraction with the axial loading.

There is a scale on the telescopic body for the follow-up of the compression and distraction.

The groove side of the bushing is placed facing the camshaft into the body.

The camshaft is turned to the laser marked direction to lock or to loose with a 6 mm Allen key.

Versatility of the fixator allows simple angular adjustment. Because of the spherical structure of the ball-joint, the clamp can move 30° in all directions when the camshaft bushing system is loosened.

After loosening the clamp, schanz screws can be applied directly through these slots or guides for drill and Schanz screws can be applied, too. Therefore, the additional use of a template is not necessary.

For separating the clamp from the fixator body, the metal ring at the connecting part is removed and following that other suitable clamps can be attached.

A full turn of the Distraction-Compression Unit (DC Unit) provides 2 mm compression or distraction. It turns with help of allen wrench.





DAF
DYNAMIC MULTIAXIAL FIXATOR



DAF DYNAMIC MULTIAXIAL FIXATOR

It is a single plan external fixation tool.

The ball-joint structure connects the clamp to the fixator body as an articular structure and allows the final reduction after the implantation of the fixator.

The Fixators Schanz screw holder clamps have five slots for the schanz screws. The usage of a template is not obligatory.

The indications for the fixator are; long bone fracture, intra-articular, periarticular fractures and pelvis fractures.

It is essentially used in acute trauma cases.

In some cases if it is needed, it allows joint mobilization.

The system allows correction of postoperative reduction.

Fixators versatility allows simple angular adjustments.

It provides an opportunity to move 30° in all planes.

A full turn of the DC unit allows 2 mm movement.



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
40140030101	8698673456631	DYNAMIC MULTIAXIAL FIXATOR	SHORT	230	20
40140020101	8698673456648	DYNAMIC MULTIAXIAL FIXATOR	STANDARD	250	40
40140010101	8698673456624	DYNAMIC MULTIAXIAL FIXATOR	LONG	275	65



DAF T CLAMP

T-Clamp ensures to send schanz screws in a uniplaner configuration to epiphyseal and metaphyseal region.

The design of T-Clamp enables to send 5 schanz screws horizontally to the metaphyseal region of the bone.

It is used for distal/proximal femur and distal/proximal tibia intra-articular besides for periarticular fractures that have enough space for Schanz screw applications.

The clamp provides 30° movements in all directions.



CODE	BARCODE	DESCRIPTION
40140000400	8698673463431	FEMUR T CLAMP



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
40140030141	8698673457997	DYNAMIC MULTIAXIAL FIX. WITH T CLAMP	SHORT	193	20
40140020141	8698673458000	DYNAMIC MULTIAXIAL FIX. WITH T CLAMP	STANDARD	215	40
40140010141	8698673458017	DYNAMIC MULTIAXIAL FIX. WITH T CLAMP	LONG	240	65



135° CLAMP DAF

The holes of schanz screws are angled to 135° to the long axis of the clamp.

It allows to send Schanz screws to the femur head through the femoral neck when the fixator body is positioned parallel to the long axis of femur.

It is used in the treatment of trochanteric, subtrochanteric and wide femoral shaft fractures.



CODE
40140000300

BARCODE
8698673454576

DESCRIPTION
FEMUR 135° CLAMP



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
40140030151	8698673457942	DYNAMIC MULTIAXIAL FIX. WITH 135° CLAMP	SHORT	225	20
40140020151	8698673457959	DYNAMIC MULTIAXIAL FIX. WITH 135° CLAMP	STANDARD	245	40
40140010151	8698673457966	DYNAMIC MULTIAXIAL FIX. WITH 135° CLAMP	LONG	270	65

PILON FIXATOR

It is used for the treatment of distal tibial and pilon fractures.

Based on the module at the distal of the fixator, schanz screws can be placed into the talus and calcaneus.

In case of need, this module also allows to controlled dorsiflexion and plantar flexion motion.

C-Clamp (Articulating Pilon Multiaxial Fixator) and Straight are the two different types of Pilon Fixator.

CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
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40340010200

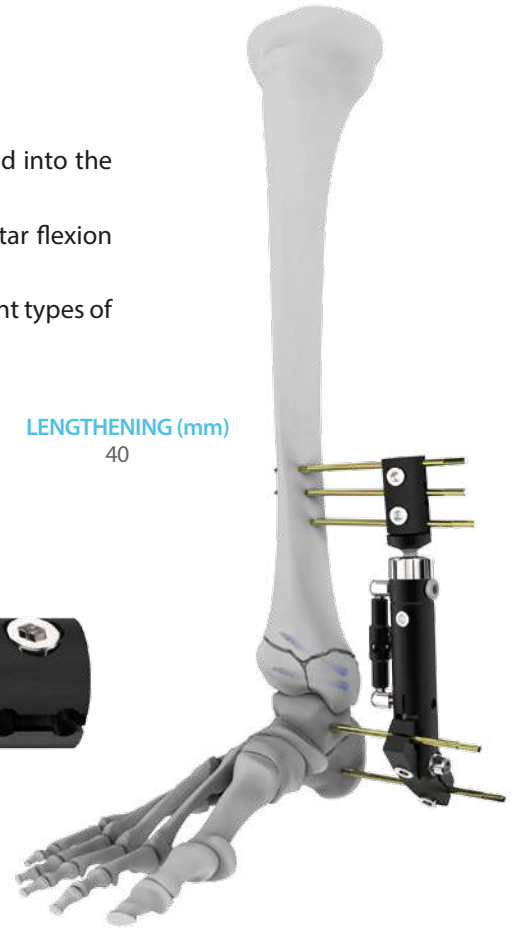
8698673465398

PILON FIXATOR

STANDARD

215

40



ARTICULATING PILON MULTIAXIAL FIXATOR

Used for the treatment of distal tibia and pilon fractures.

Schanz screws can be placed into talus and calcaneus with the C-Clamp.

If required, this module also allows to controlled dorsiflexion and plantar flexion motion.

The C-clamp allows a clear imaging of the fracture area.

CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
------	---------	-------------	------	-------------	------------------

40340020012

8698673454620

ARTICUL. PILON MULTIAX. FIXATOR

SHORT

300

55

40340020013

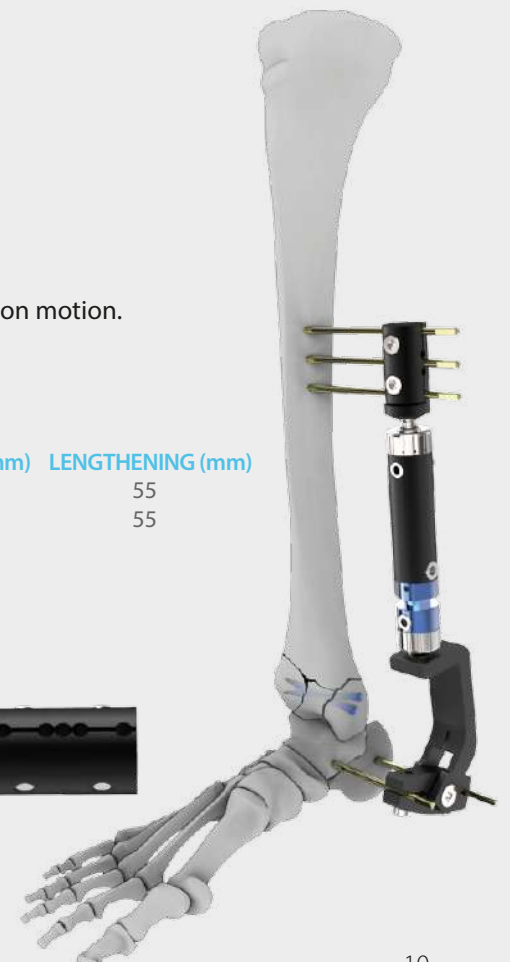
8698673457331

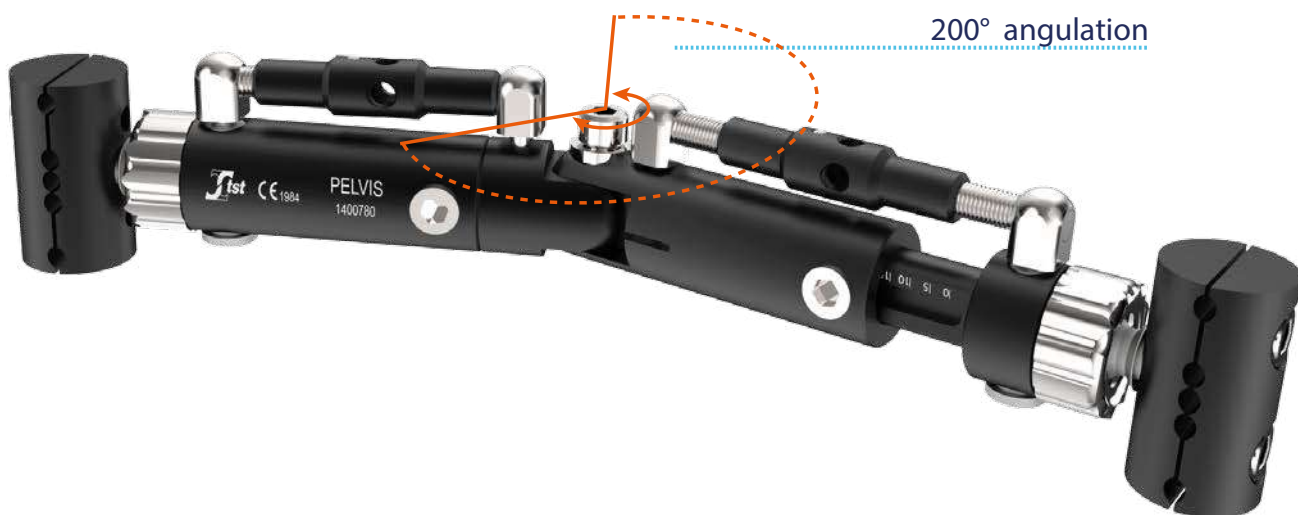
ARTICUL. PILON MULTIAX. FIXATOR

LONG

335

55





PELVIS FIXATOR

Used for the treatment of distal tibia and pilon fractures.

Schanz screws can be placed into talus and calcaneus with the C-Clamp.

If required, this module also allows to controlled dorsiflexion and plantar flexion motion.

The C-clamp allows a clear imaging of the fracture area.



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
41240030200	8698673456754	PELVIC FIXATOR WITH T CLAMP	SHORT	250	40
41240020200	8698673456761	PELVIC FIXATOR WITH T CLAMP	STANDARD	290	80
41240010200	8698673456747	PELVIC FIXATOR WITH T CLAMP	LONG	345	130

DOUBLE CLAMP

Used for the connection of two different or the same external fixator via the ball-joint structures.

For instance, it can be used in the central hip dislocation cases by applying schanz screws to the pelvis and the femur.



CODE	BARCODE	DESCRIPTION	TYPE
40140000100	8698673474123	DOUBLE CLAMP	DOUBLE

DC UNIT (Distraction Compression)

The unit is designed to compress or distract the fracture area.

It is composed of one inside threaded cylindrical structure and two legs with threaded rods which are placed into the holes of the camshaft.

By turning the unit with allen wrench, the unit shortens or extends according to the turning direction.

When the DC unit is turned 360° (a full turn) it enables for 2 mm to shorten or extend.

The legs of the unit are placed into the camshafts which are on the fixator and the fixator body locking screw is loosened.

The DC Unit is used for compression of the nonunion fracture area or fracture impaction and gradual correction of the deformities.

In addition, this unit is used together with the LRS system for bone transport or lengthening.

DC Unit has 3 different choices as short, standard and long.



HYBRID CLAMP

It allows to connect DAF system to Circular External Fixator rings.



CODE

40140020300

BARCODE

8698673452114

DESCRIPTION

HIBRIT CONNECTION CLAMP

TEMPLATE

It is a template fixator with the same shape as the fixator. It is an assisting instrument that provides the correct placement of the schanz screws. After placing the first schanz screw, the rest schanz screws send through the slots of the template fixator. It helps to find the suitable position over the bone to fix the fracture.

It is used for positioning the fixator for allowing the dynamization (shortening). Because of that the fixator can not placed at the shortest form.



CODE

03540000000

BARCODE

8680858419302

DESCRIPTION

FEMUR-TIBIA DYNAMIC MULTIAXIAL FIXATOR TEMPLATE



MANIPULATION FORCEPS

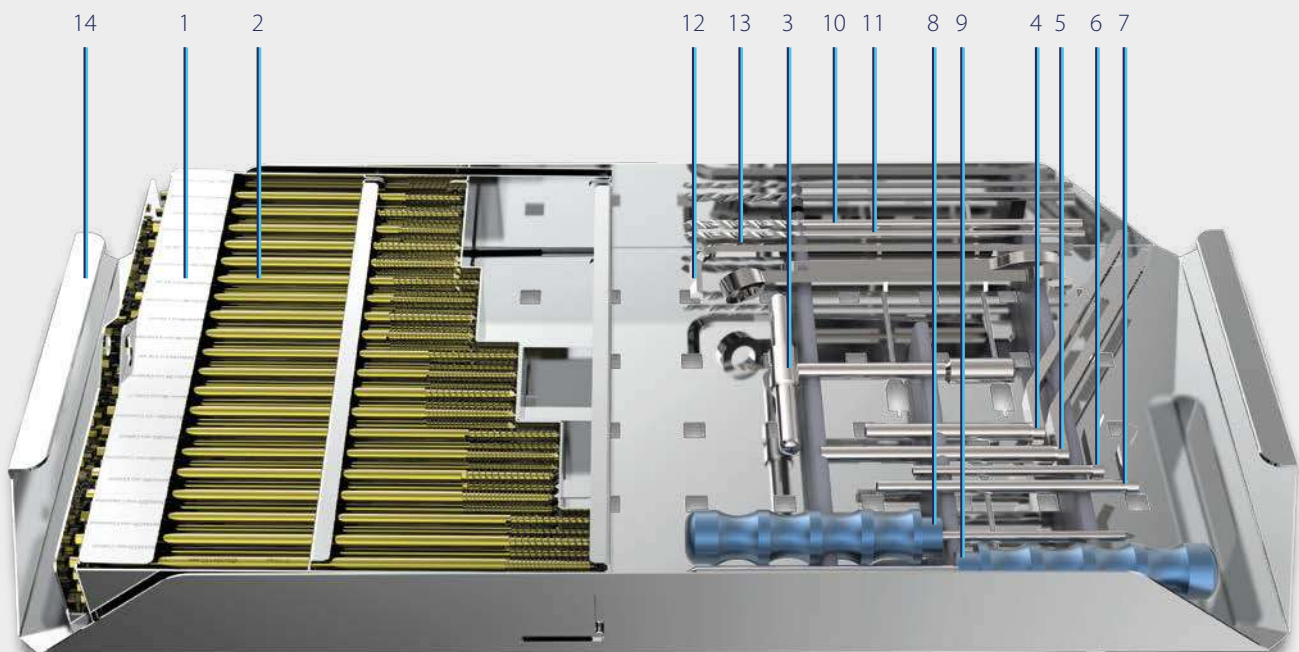
The manipulation forceps which is optional, can be used for fracture reduction. By holding two clamps with these forceps, the manipula force and control becomes easier. The surgeon's assistant can fix the fixator system, after providing the reduction of the fracture by the surgeon.



CODE	BARCODE	DESCRIPTION
04000000001	8698673463554	FIXATOR MANIPULATION FORCEPS

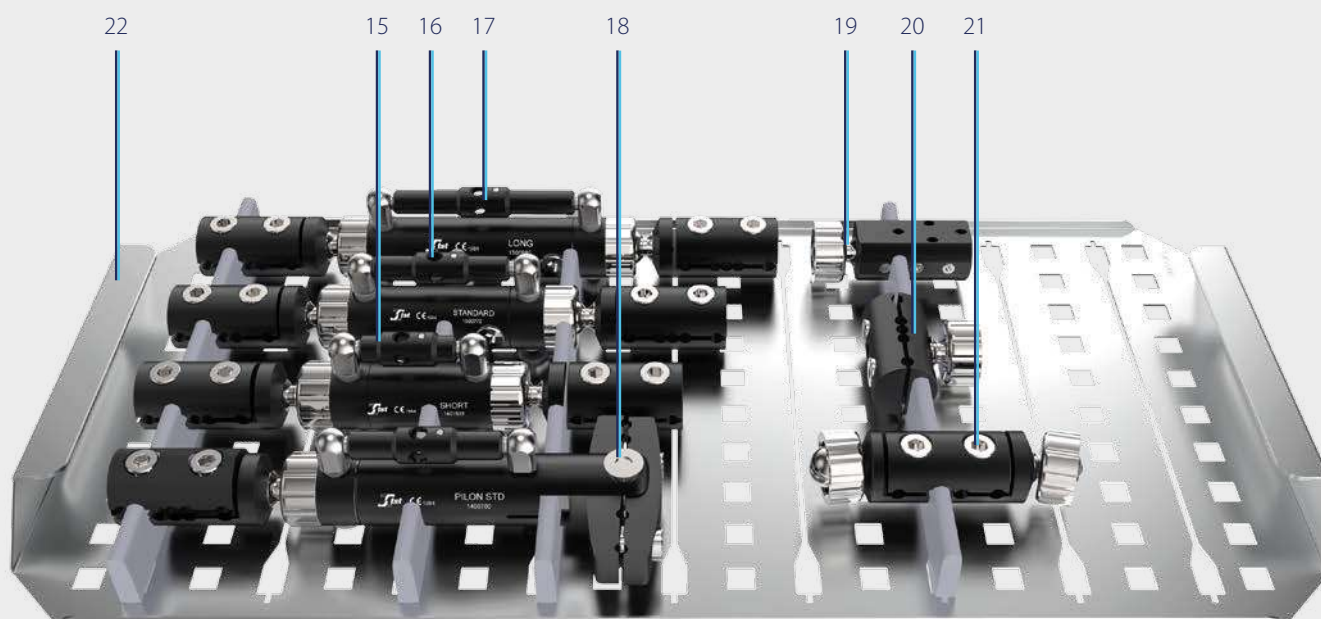
DAF FIXATOR SET

NO	CODE	BARCODE	DESCRIPTION	QTY.
1	00415210000	8699931005134	5MM-6MM SCHANZ BOX	1
2	20910153005	8698673456150	SCHANZ SCREW 5 X 150 X 30 MM- CORTICAL	5
	20910184005	8698673458598	SCHANZ SCREW 5 X 180 X 40 MM- CORTICAL	5
	20910204005	8698673456228	SCHANZ SCREW 5 X 200 X 40 MM- CORTICAL	5
	21012004005	8698673454897	SCHANZ SCREW 5 X 200 X 40 MM-SPONGIOZ	5
	20910153006	8698673456259	SCHANZ SCREW 6 X 150 X 30 MM- CORTICAL	5
	20910184006	8698673458413	SCHANZ SCREW 6 X 180 X 40 MM- CORTICAL	5
	20910204006	8698673458581	SCHANZ SCREW 6 X 200 X 40 MM- CORTICAL	5
	21012204006	8698673455016	SCHANZ SCREW 6 X 220 X 40 MM-SPONGIOZ	5
3	04015000600	8698673492523	5-6 MM UNIVERSAL SCHANZ T HANDLE	1
4	04025000020	8698673490680	FEMUR & TIBIA FIX. SCHANZ GUIDE Ø 6 MM	4
5	04025000030	8698673490666	FEMUR & TIBIA FIX. SCHANZ GUIDE Ø 5 MM	4
6	03550020032	8680858408658	FEMUR & TIBIA FIX. DRILL SLEEVE Ø 3.2 X 200 MM	1
7	03550020045	8680858408665	FEMUR & TIBIA FIX. DRILL SLEEVE Ø 4.5 X 200 MM	1
8	03550000005	8680858408672	FEMUR & TIBIA FIX. TROCAR Ø 5 MM	1
9	03550000006	8680858408689	FEMUR & TIBIA FIX. TROCAR Ø 6 MM	1
10	22310200032	8698673450455	BONE DRILL 3.2 X 200 MM (STOP)	2
11	22310200045	8698673450493	BONE DRILL 4.5 X 200 MM (STOP)	2
12	04015000060	8698673490062	ALLEN WRENCH Ø 6 MM	1
13	04015000020	8699931015430	ALLEN WRENCH Ø 2 MM	1
14	00000208100	8699931017908	1.DESIGN TRAY FOR DAF	1



NO	CODE	BARCODE	DESCRIPTION	QTY.
15	40140030101	8698673456631	DYNAMIC MULTIAXIAL FIXATOR-SHORT	1
16	40140020101	8698673456648	DYNAMIC MULTIAXIAL FIXATOR-STANDARD	1
17	40140010101	8698673456624	DYNAMIC MULTIAXIAL FIXATOR-LONG	1
18	40340010200	8698673465398	PILON FIXATOR STANDART	1
19	40140000400	8698673463431	FEMUR T CLAMP	1
20	40140000300	8698673454576	135° FEMUR CLAMP	1
21	40140000100	8698673474123	DOUBLE CLAMP	1
22	00000208200	8699931017915	2.DESIGN TRAY FOR DAF	1
23	00560270125	8699931010923	CONTAINER	1
	40240030000	8698673456815	LIMB LENGTHENER FIXATOR -SHORT	*
	40240020000	8698673456822	LIMB LENGHTENER FIXATOR STANDARD	*
	40240010000	8698673456808	LIMB LENGTHENER FIXATOR -LONG	*
	40340020012	8698673454620	ARTICUL. PILON MULTIAX. FIX.STD-SHORT CLAMP	*
	40340020013	8698673457331	ARTICUL. PILON MULTIAX. FIX.STD-LONG CLAMP	*
	41240030200	8698673456754	PELVIC FIXATOR WITH T CLAMP SHORT	*
	41240020200	8698673456761	PELVIC FIXATOR WITH T CLAMP STANDARD	*
	41240010200	8698673456747	PELVIC FIXATOR WITH T CLAMP LONG	*
	40140020300	8698673452114	HIBRIT CONNECTION CLAMP	*
	03540000000	8680858419302	FEMUR-TIBIA DYNAMIC MULTIAXIAL FIXATOR TEMPLATE	*
	40140020300	8698673452114	HIBRIT CONNECTION CLAMP	*
	04000000001	8698673463554	FIXATOR MANIPULATION FORCEPS	*

*optional







DAF
HUMERUS

WRISTX



DAF HUMERUS FIXATOR

It is a single plan external fixation tool and used for the treatment of the fractures of humerus, radius and ulna for adults.

It is also used at pediatric femur, tibia fractures and deformity corrections.

The ball-joint structure connects the clamp to the fixator body as an articular structure and allows the final reduction after the implantation of the fixator.

The Fixators Schanz screw holder clamps have five slots for the Schanz screws.

It is primarily used in acute trauma cases.

In some cases if it is needed, it allows joint mobilization.

The system allows correction of postoperative reduction.

Fixators versatility allows simple angular adjustments. It provides an opportunity to move 30° in all planes.

A full turn of the DC unit allows 1 mm movement.



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
40840010101	8698673456525	DYN. MULTIAXIAL HUM. FIX.	STANDARD	175	25
40840020101	8698673456518	DYN. MULTIAXIAL HUM. FIX.	LONG	200	47



DAF HUMERUS WITH T CLAMP FIXATOR

T-clamp with the ball-joint structure could be used instead of the straight clamp at the dynamic multiaxial fixator.

T-Clamp gives the opportunity to place the Schanz screws in an uniplaner configuration to epiphyseal and metaphyseal region.

It has a design that 5 screws could be applied horizontally to the metaphyseal region of the bone.

It is used for distal/proximal femur and distal/proximal tibia intra-articular and periarticular fractures which have enough space for Schanz screw applications.



CODE	BARCODE	DESCRIPTION
40840000200	8698673456716	HUMERUS T CLAMP

CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGHTENING (mm)
40840010141	8698673458024	DYN. MULTIAXIAL HUM. WITH T CLAMP FIX.	STANDARD	155	25
40840020141	8698673458031	DYN. MULTIAXIAL HUM. WITH T CLAMP FIX.	LONG	180	47



DAF HUMERUS WITH 135° CLAMP FIXATOR

It has Schanz screw holes opened in a 135 ° angle to the long axis of the clamp.

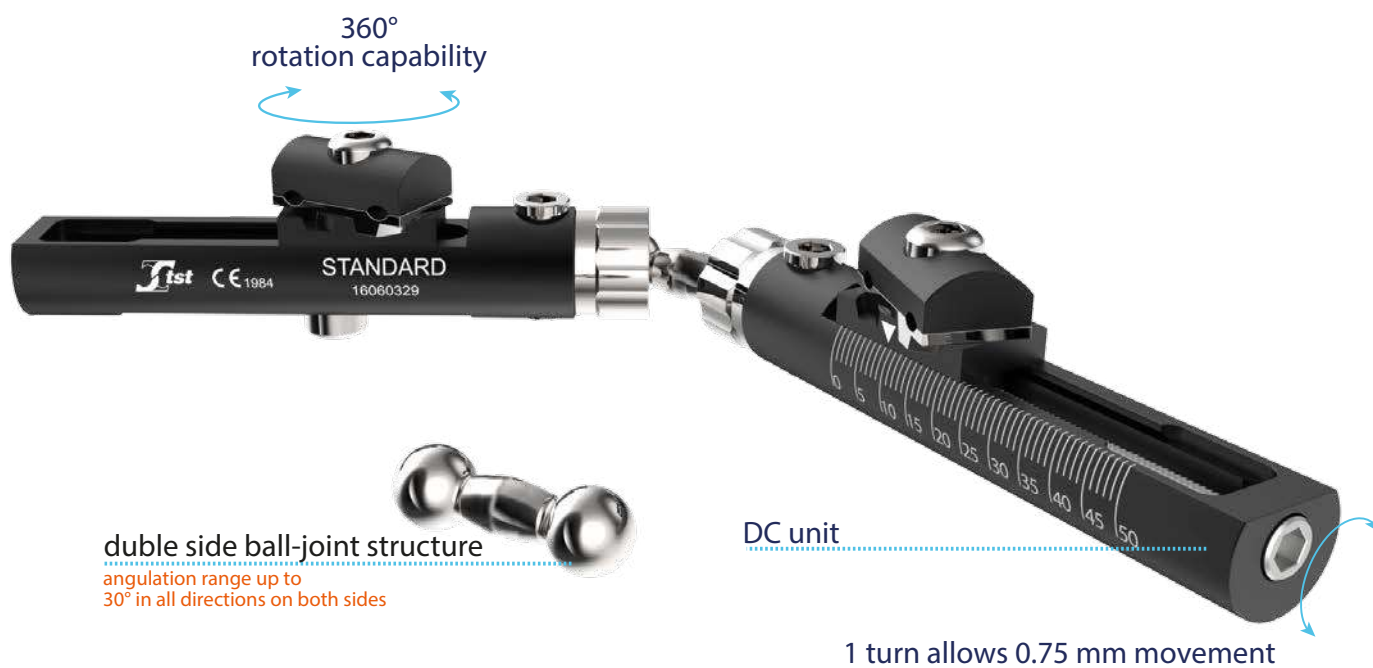
It allows to the placement of the Schanz screws to the humerus head when the fixator body is positioned parallel to the long axis of humerus.

The 135 ° clamp has four screw holes.

CODE	BARCODE	DESCRIPTION
40840000300	8698673456709	HUMERUS 135° CLAMP



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
40840010151	8698673457980	DYN. MULTIAXIAL HUM. WITH 135° CLAMP FIX.	STANDARD	175	25
40840020151	8698673457973	DYN. MULTIAXIAL HUM. WITH 135° CLAMP FIX.	LONG	200	50



DYNAMIC ANGLED CLAMP WRIST FIXATOR

Lightweight and low profile structured fixator.

Owing to the double ball- joint structure, it provides an easy reduction.

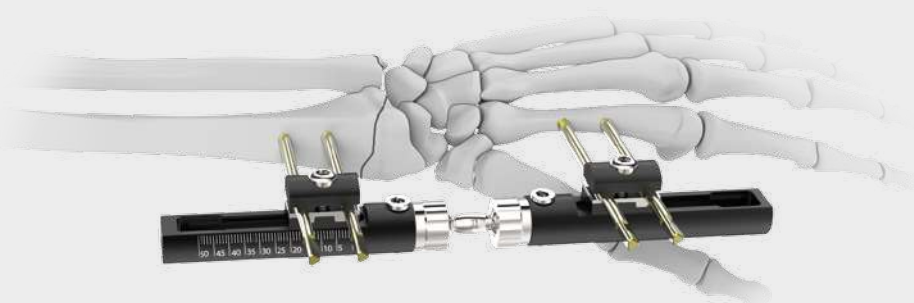
The ball joint structure can be tightened and / or loosened with a 4.0 mm L-Allen key.

Suitable for extra-articular or transarticular external fixation technique.

The ball-joint structure can be loosened at the transarticular application if there is a need of a Hand-wrist mobilization.

It is used in the treatment of joint stiffness, articular and periarticular fractures of distal radius and deformity corrections.

It is used with 3- 4 mm Schanz screws.



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
40640030103	8698673456570	DYNAMIC ANGLED CLAMP WRIST FIXATOR	SHORT	170
40640020102	8698673456587	DYNAMIC ANGLED CLAMP WRIST FIXATOR	STANDARD	195
40640010101	8698673456563	DYNAMIC ANGLED CLAMP WRIST FIXATOR	LONG	230

MULTIAXIAL DISTAL RADIUS WRIST FIXATOR

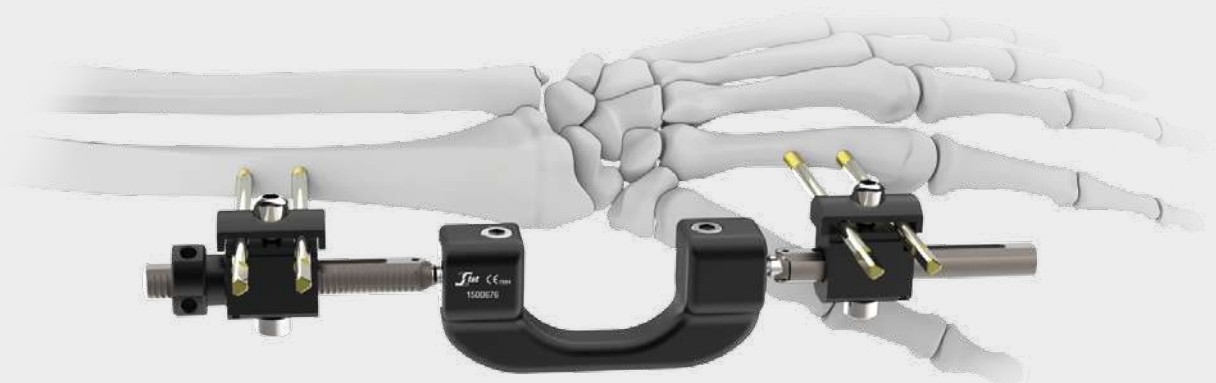


Another type of fixator for the hand-wrist application is the “Multiaxial Distal Radius Hand-Wrist fixator”.

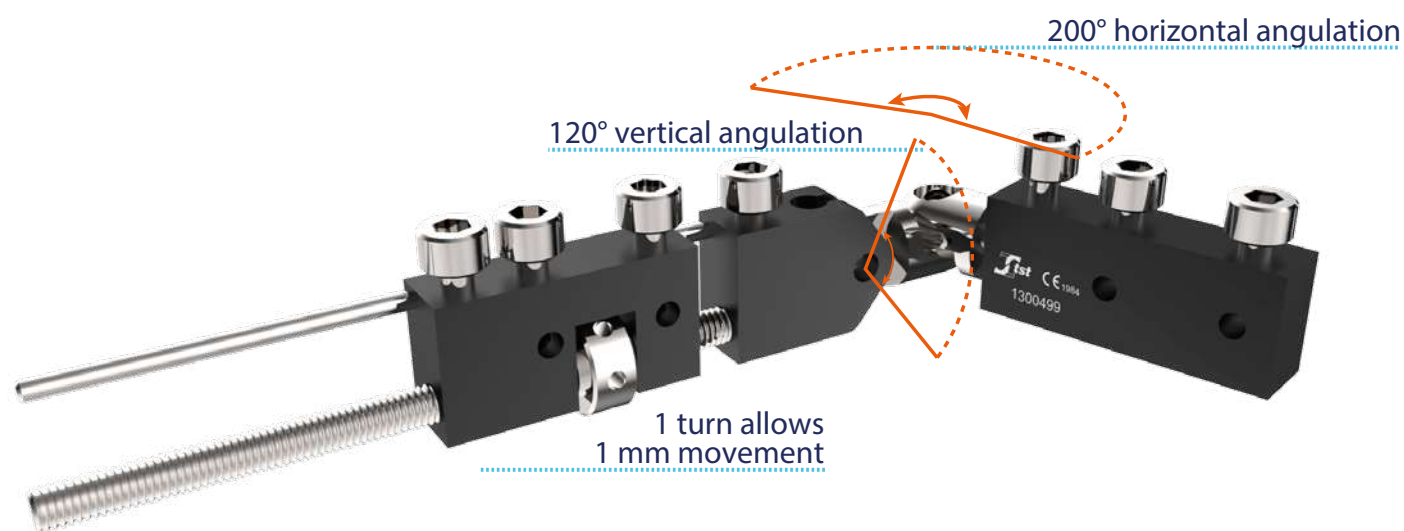
It is composed of a central located C shaped body and bars which are connected with the ball-joint structure. Pin clamps can move on the bars for compression or distraction.

The C body of the fixator allows to view the fracture area.

CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
40640020013	8698673456730	MULTIAXIAL DISTAL RADIUS WRIST FIXATOR	C	230



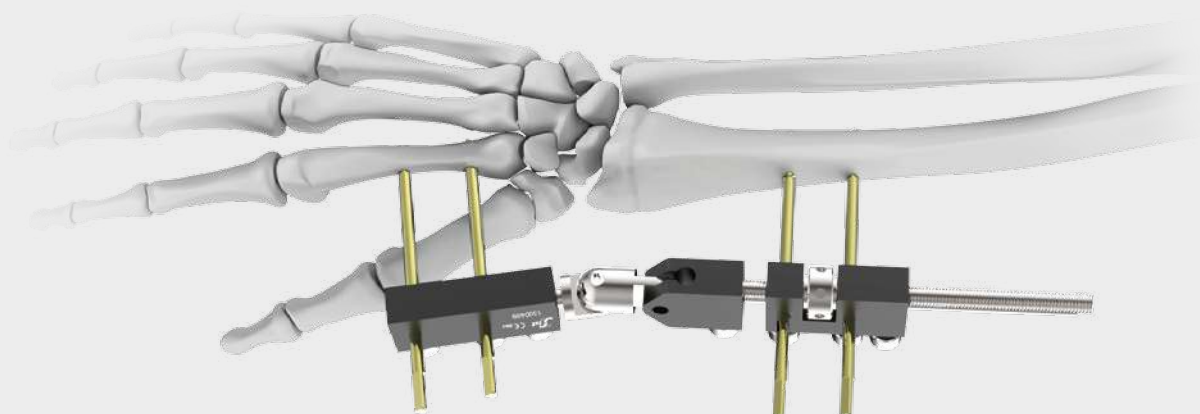
COLLES FIXATOR



Colles fractures are mostly seen on metaphysis of distal radius which is displaced to the dorsal; it is also characterized as dinner fork or bayonet deformity.

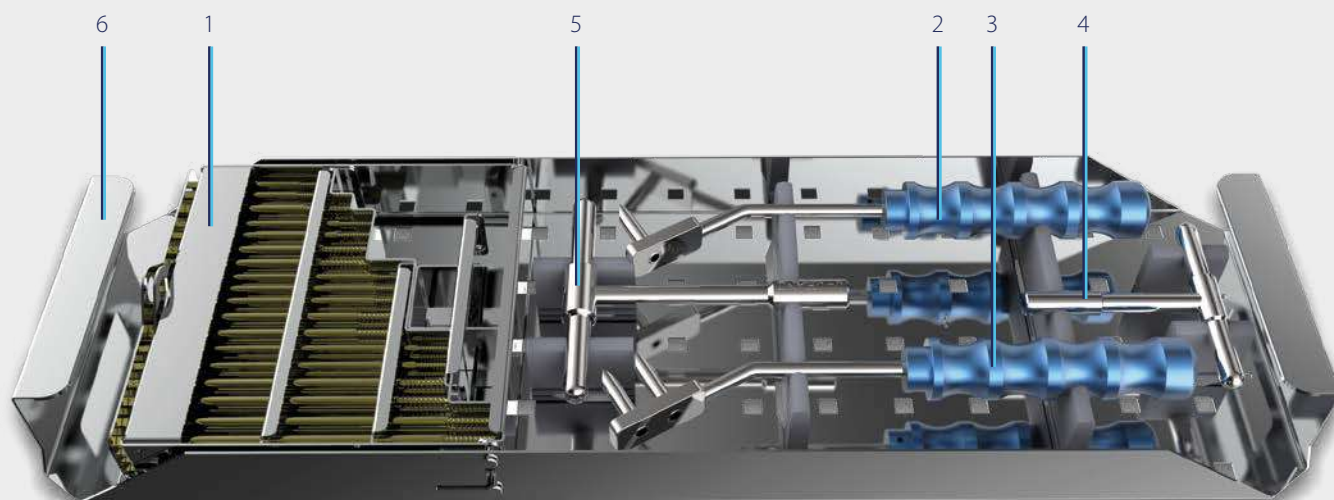
Colles fixators are designed for the treatment of colles fractures in combination with closed reduction.

CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
40740010100	8698673454644	COLLES FIXATOR	COLLES	195



DAF HUMERUS & HAND-WRIST FIXATOR SET

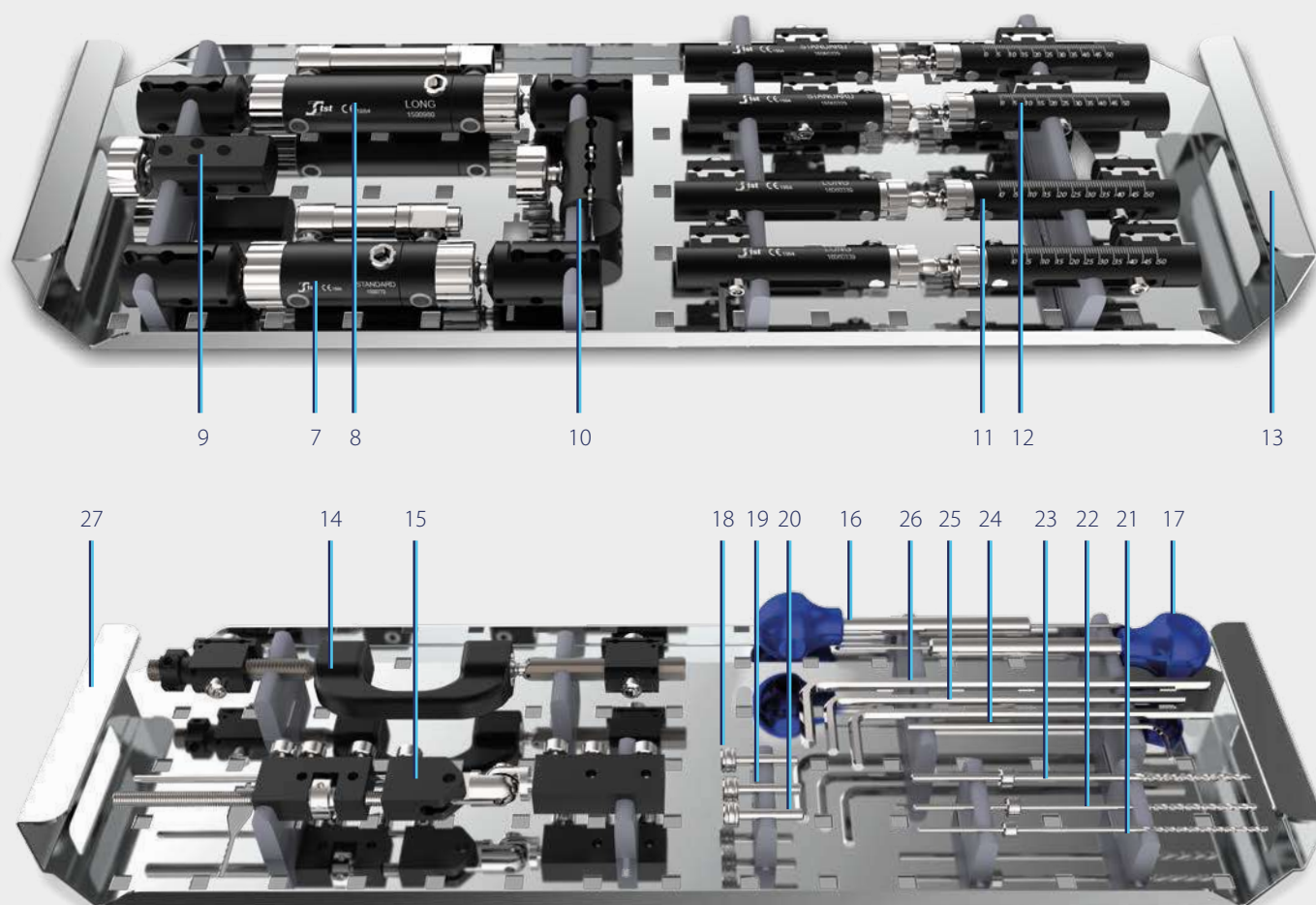
NO	CODE	BARCODE	DESCRIPTION	QTY
1	00000601300	8699931017182	3MM\4MM SCHANZ BOX	1
	20910101503	8698673455863	DAF SCHANZ PIN CORTICAL THREADED 3X15X100	4
	20910002003	8698673458543	DAF SCHANZ PIN CORTICAL THREADED 3X20X100	4
	20910002503	8698673455917	DAF SCHANZ PIN CORTICAL THREADED 3X25X100	4
	20910601503	8698673455832	DAF SCHANZ PIN CORTICAL THREADED 3X15X60	4
	20910602003	8698673455887	DAF SCHANZ PIN CORTICAL THREADED 3X20X60	4
	20910801503	8698673455849	DAF SCHANZ PIN CORTICAL THREADED 3X15X80	4
	20910802003	8698673455894	DAF SCHANZ PIN CORTICAL THREADED 3X20X80	4
	20910121503	8698673455870	DAF SCHANZ PIN CORTICAL THREADED 3X15X120	4
	20910202003	8698673455900	DAF SCHANZ PIN CORTICAL THREADED 3X20X120	4
	20910702004	8698673458604	DAF SCHANZ PIN CORTICAL THREADED 4X20X70	4
	20910801504	8698673458116	DAF SCHANZ PIN CORTICAL THREADED 4X15X80	4
	20910802004	8698673455962	DAF SCHANZ PIN CORTICAL THREADED 4X20X80	4
	20910002004	8698673473317	DAF SCHANZ PIN CORTICAL THREADED 4X20X100	4
	20910102504	8698673456013	DAF SCHANZ PIN CORTICAL THREADED 4X25X100	4
	20910202004	8698673455986	DAF SCHANZ PIN CORTICAL THREADED 4X20X120	4
	20910202504	8698673456020	DAF SCHANZ PIN CORTICAL THREADED 4X25X120	4
	20910402004	8698673458383	DAF SCHANZ PIN CORTICAL THREADED 4X20X140	4
	20910142504	8698673456037	DAF SCHANZ PIN CORTICAL THREADED 4X25X140	4
2	02005100012	8698673490703	DRILL GUIDE SINGLE WIRST FIXATOR	1
3	02005100015	8699931017854	DRILL GUIDE DOUBLE WRIST FIXATOR	1
4	04015000300	8698673492493	3 MM SCHANZ PIN T DRIVER	1
5	04015000400	8698673492509	4 MM SCHANZ PIN T DRIVER	1
6	00000703100	8699931017267	HUMERUS - WRIST DESIGN 1. TRAY	1



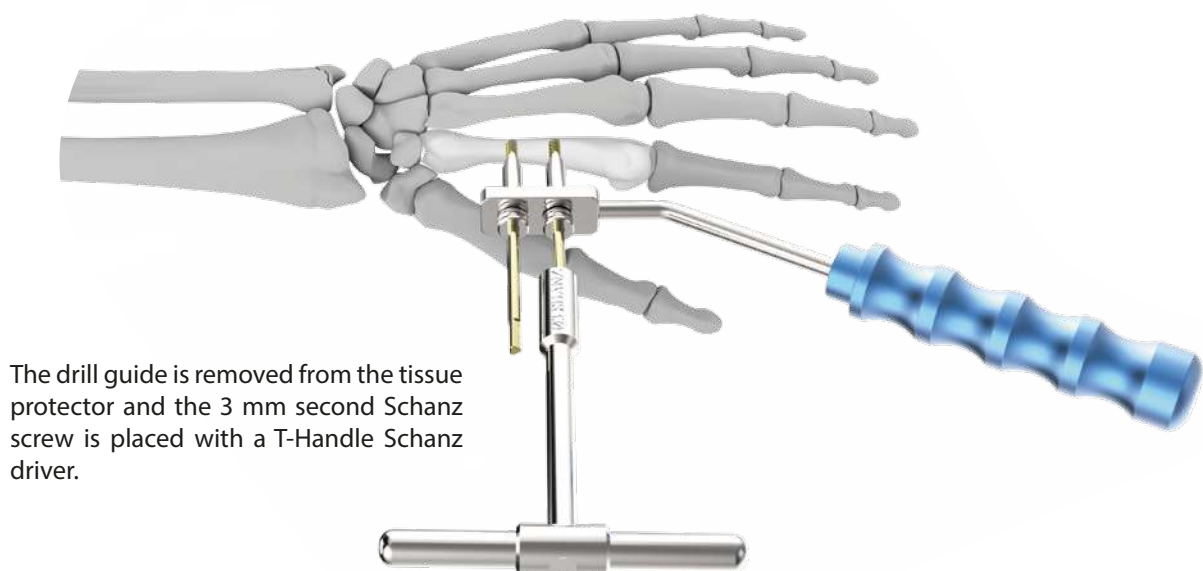
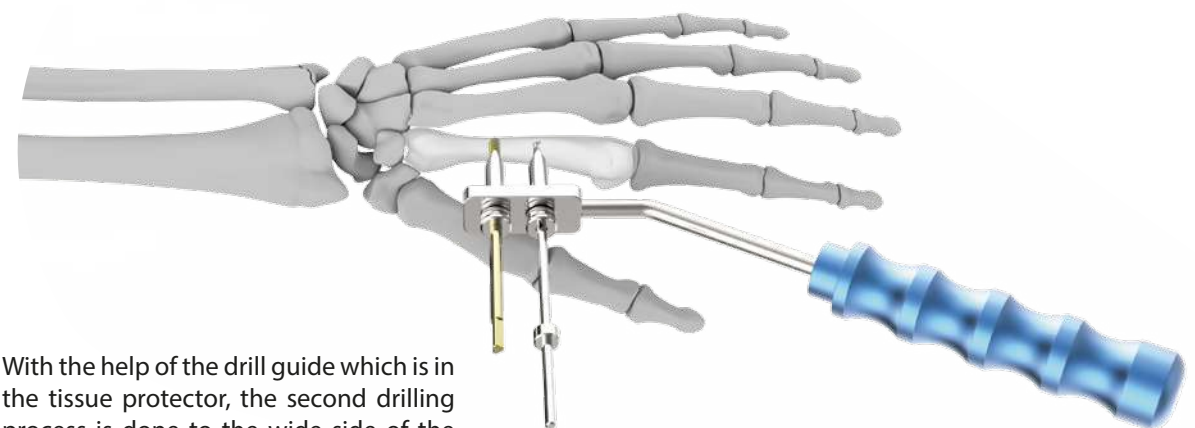
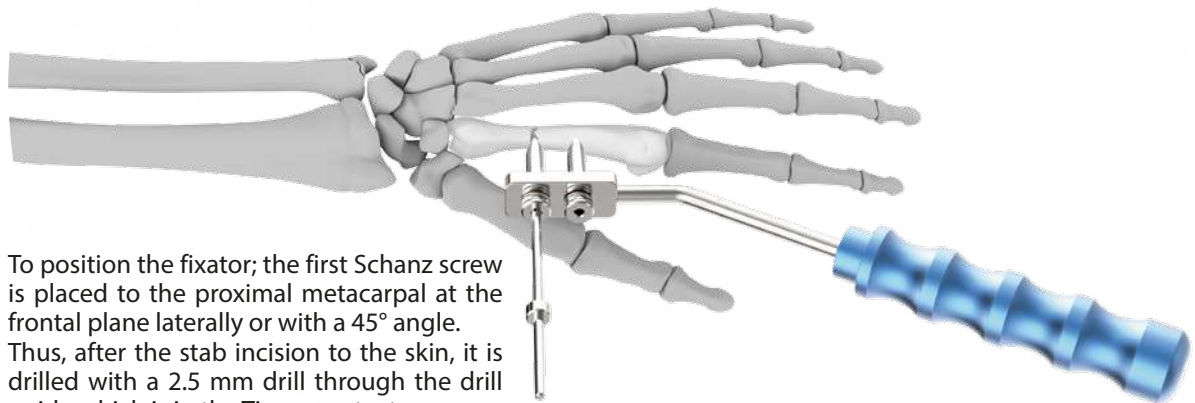
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7	40840010101	8698673456525	DYN. MULTIAXIAL HUMERUS FIXATOR STD.	1
8	40840020101	8698673456518	DYN. MULTIAXIAL HUMERUS FIXATOR LONG	1
9	40840000300	8698673456709	HUMERUS 135° CLAMP	1
10	40840000200	8698673456716	HUMERUS T CLAMP	2
11	40640010101	8698673456563	DYNAMIC ANGLED CLAMP WRIST FIXATOR LONG	2
12	40640020102	8698673456587	DYNAMIC ANGLED CLAMP WRIST FIXATOR STANDARD	2
13	00000703200	8699931017274	HUMERUS - WRIST DESIGN 2. TRAY	1

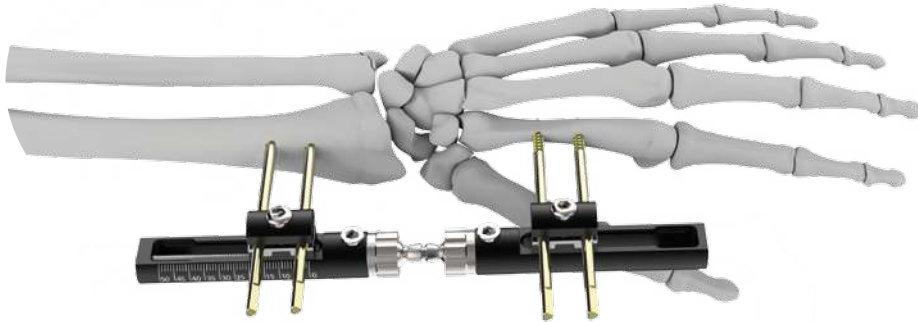
NO	CODE	BARCODE	DESCRIPTION	QTY
14	40640020013	8698673456730	MULTIAXIAL DISTAL RADIUS WRIST FIXATOR	1
15	40740010100	8698673454644	COLLES FIXATOR	1
16	02005100025	8698673490178	AWL BLUNT TIP	1
17	02005100023	8698673490185	AWL TROCER TIP	1
18	02006000200	8699931015454	DRILL GUIDE SLEEVE 2 MM	1
19	02006000250	8699931017885	DRILL GUIDE SLEEVE 2.5MM	1
20	02006000320	8699931023411	DRILL GUIDE SLEEVE 3.2 MM	1
21	02005120000	8698673490833	DRILL BIT AND STOP UNIT 2 MM	2
22	02005125000	8698673492950	DRILL BIT AND STOP UNIT 2.5 MM	2
23	02005132000	8698673495432	DRILL BIT AND STOP UNIT 3.2 MM	2
24	04015000020	8699931015430	ALLEN WRENCH Ø 2 MM	1
25	04015000040	8698673490055	ALLEN WRENCH Ø 4 MM	2
26	04015000050	8698673496163	ALLEN WRENCH Ø 5 MM	1
27	00000703300	8699931017281	HUMERUS - WRIST DESIGN 3. TRAY	1
28	00560270150	8699931010275	CONTAINER 560X270X150 MM	1

40140020400	8699931010091	HIBRIT CONNECTION CLAMP HUMERUS	*
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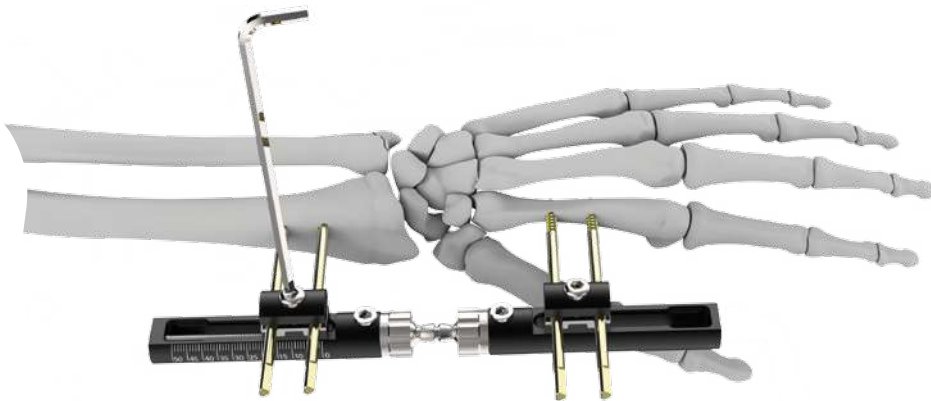
SURGICAL TECHNIQUE



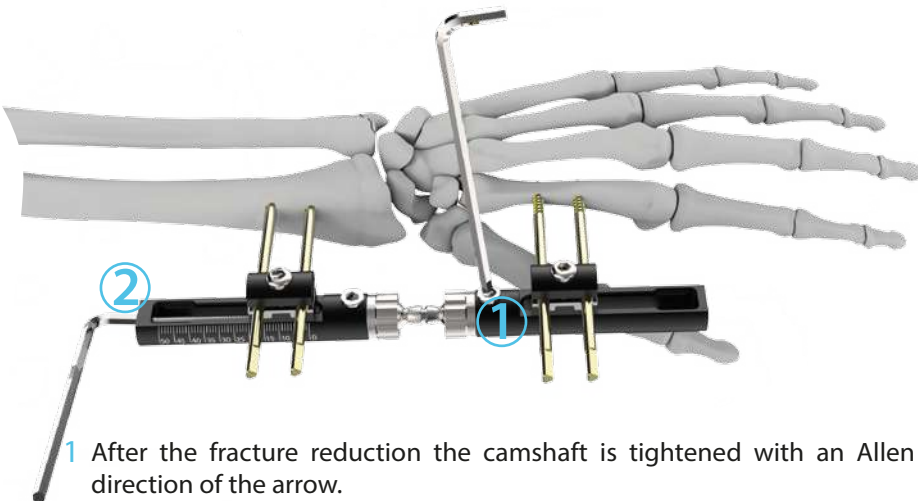


The fixator is temporarily mounted to the distal screws and the skin is marked for the proximal screw placement.

At that time the fixator body should be checked if it is partially open.
Preserving the superficial branch of the radial nerve, a 3 cm skin incision is made.
Then two Schanz screws are placed to the radius in the same way.



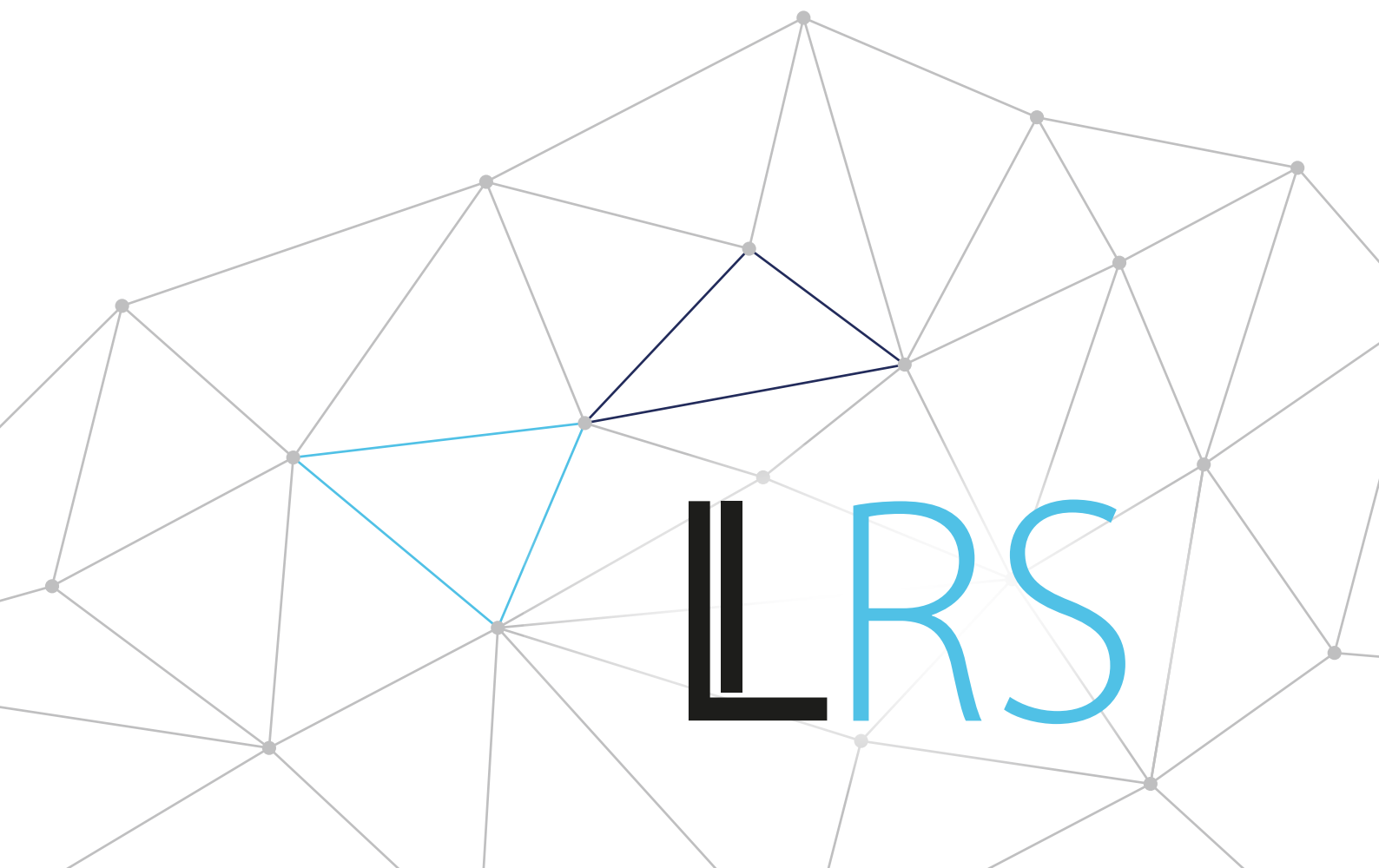
Following placing the Schanz screws the screw on the clamp is tightened with a 4 mm Allen key.



- 1 After the fracture reduction the camshaft is tightened with an Allen key in the direction of the arrow.
- 2 For achieving controlled compression and distraction, the locking bolt under the clamp is loosened and the central part of the compression distraction unit is turned by an Allen key.
After obtaining the desired compression distraction the locking bolt of the clam is tightened for finishing the fixation.

NONBALL-JOINT FIXATORS







SEGMANTEL FIXATOR

It is a single rail system fixator that can be placed from two up to four clamps.

LRS also includes if required, different designed clamps as Micrometric swiveling correction clamp and T-clamp for the correction of specific deformities

For the bone transport with segmental dynamic fixator an osteotomy is performed at the metaphyseal area.

Then as the callus formation starts, the separated bone segment is slid with the callus formation. Day by day a certain amount of length in the right direction tries to fill the defect gap. Therefore with another osteotomy far from the first osteotomy line more lengthening can be performed by callostasis.

In shorter extremities some gaps which are not that big, can be closed immediately with the surgery.

Therefore with another osteotomy far from the first osteotomy line more lengthening can be performed by callostasis.



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
40340030001	8698673456846	SEGMANTEL FIXATOR	SHORT	200
40340020001	8698673456860	SEGMANTEL FIXATOR	STANDARD	250
40340010001	8698673456839	SEGMANTEL FIXATOR	LONG	300
40340010002	8698673457157	SEGMANTEL FIXATOR	EXTRA LONG	400



LRS DEFORMITY FIXATOR

LRS system is used firstly at the orthopedics of the lower extremity long bones, nonunion treatment, bone transport, deformity correction and lengthening.

It is also used in the special cases given below;

Due to the high stability of the system at the complex trauma treatments,

LRS fixating femoral varus angle and the tibia, valgus deformities such as a variety of correction and the callus distraction in cases of bone lengthening,

In single centered extention and correction of deformity,

In multi-centered operations; bone transport, compression and simultaneously distraction in different areas,

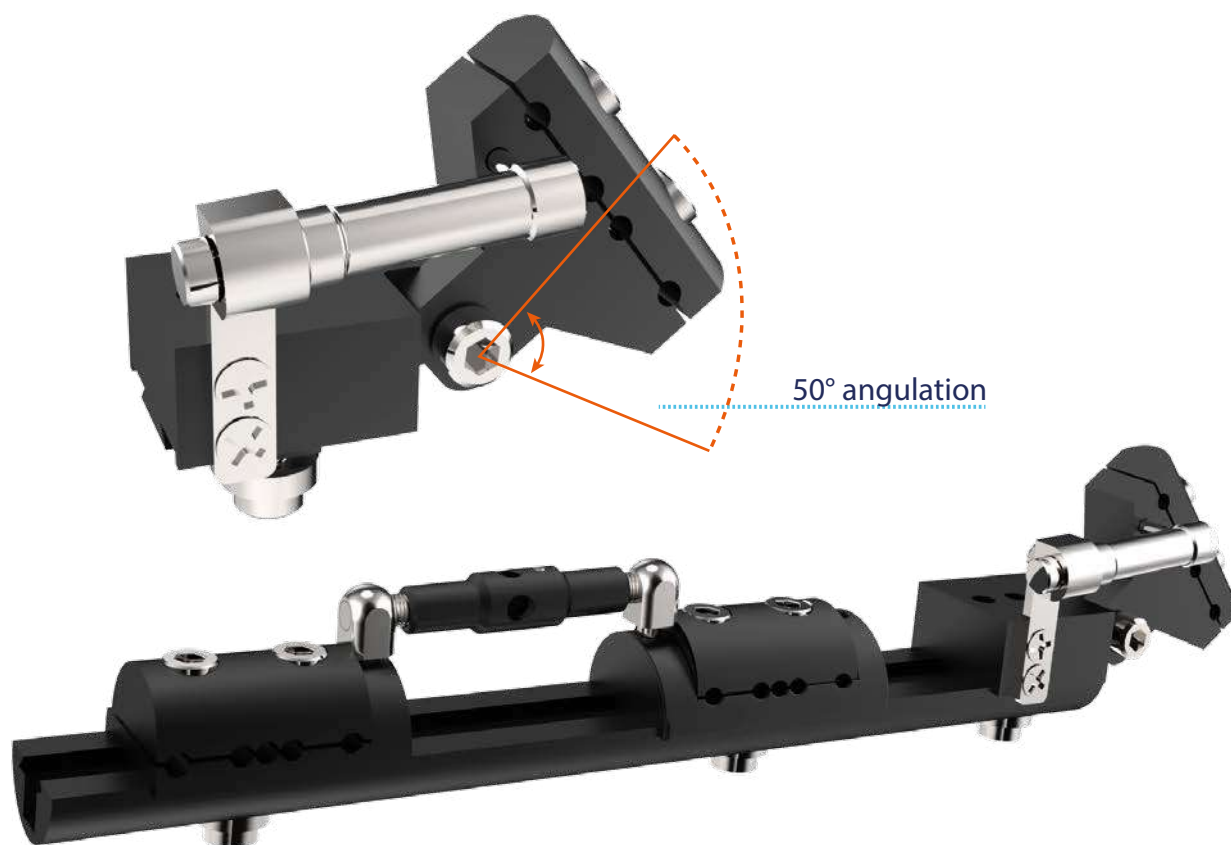
In correction of deformity by double centered extention & distraction,

In repairment and extension of the new fractures of extremity, non-union bone problems and cases of soft tissue damages and bone loss in distraction surgery.



CODE	BARCODE	DESCRIPTION
41440000014	8699931031669	RAIL SWIVEL GRADUAL CORRECT CLAMP

CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
41440020000	8698673458611	LRS FIXATOR FOR CORRECT. OF DEFORMITY	STANDARD	250
41440010000	8698673456723	LRS FIXATOR FOR CORRECT. OF DEFORMITY	LONG	300



SEGMANTEL T CLAMP LIMB FIXATOR

Distal femur procurvatum/ recurvatum deformity is corrected gradually by hemicallosis with specially angled T clamp structure of the fixator.

It is also used in the special cases given below;

In distal femur segmental fractures.

In segmental tibial large unstable shaft fractures with the usage of T clamp for proximal segment.

In the detection of distal tibial fractures; in the metaphysis with T clamp.

In the detection of proximal tibial fractures: gradual angular correction of proximal tibia varus or valgus deformities (Osteotomy is done by inserting T clamp on the proximal anteriorly).

In gradual angular correction of proximal varus or valgus deformities of short tibia and in cases of bone lengthening in deformity line.



CODE	BARCODE	DESCRIPTION
41440000012	8699931031645	RAIL T CLAMP

CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
40440020100	8698673463561	SPECIAL LIMB FIXT T CLAMP SEGMENTAL	SHORT	200
40440010100	8698673456914	SPECIAL LIMB FIXT T CLAMP SEGMENTAL	LONG	300



SEGMENTAL MULTIAXIAL BONE TRANSVERSE FIXATOR

It is used for indication of femur segmental bone transport.

Fixator is compatible with femur lateral grade by means of ball joint and double row sandwich structured external clamps at the last part and also by means of a clamp able to transport segmental at the middle.

Fixator can be moved to distal and proximal by fixing of DC unit with middle clamp 6mm L-key.



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
40340020011	8698673456891	SEGMENTAL MULTIAX. BONE TRANS. FIXATOR	STANDARD	335
40340030011	8698673456877	SEGMENTAL MULTIAX. BONE TRANS. FIXATOR	LONG	385

MODULAR LRS SYSTEM



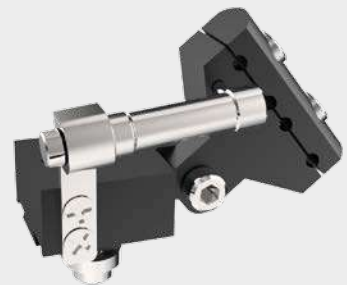
CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
41440030200	8699931031522	RAIL SHORT	SHORT	200
41440020250	8699931031546	RAIL STANDARD	STANDARD	250
41440010300	8699931031560	RAIL LONG	LONG	300
41440110400	8699931031584	RAIL EXT-LONG	EXTRA LONG	400



Rail Swivel Gradual Correction Clamp



Compression-Distraction Unit



Rail T Clamp



Rail Clamp Outer



Rail Clamp Central



Mamef Angled Pin Carrier Unit



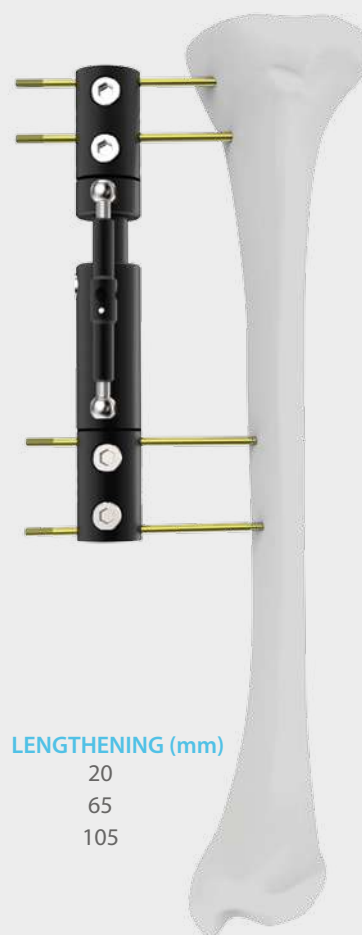
CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
40150030000	8699931028751	COMPRESSION-DISTRACTION UNIT	SHORT	20 mm Extend
40150020000	8699931028768	COMPRESSION-DISTRACTION UNIT	STANDARD	40 mm Extend
41440000010	8699931031607	RAIL CLAMP OUTER	OUTER	
41440000011	8699931031621	RAIL CLAMP CENTRAL	CENTRAL	
41440000014	8699931031669	RAIL SWIVEL GRADUAL CORRECT CLAMP		
41440000012	8699931031645	RAIL T CLAMP		
42520000022	8699931030167	MAMEF RADIAL ANGLED PIN CARRIER UNIT	5 DEGREES	
42520000023	8699931030174	MAMEF RADIAL ANGLED PIN CARRIER UNIT	10 DEGREES	
42520000024	8699931030181	MAMEF RADIAL ANGLED PIN CARRIER UNIT	15 DEGREES	
42520000025	8699931030198	MAMEF RADIAL ANGLED PIN CARRIER UNIT	20 DEGREES	
42520000026	8699931030204	MAMEF ANGLED PIN CARRIER UNIT	5 DEGREES	
42520000027	8699931030211	MAMEF ANGLED PIN CARRIER UNIT	10 DEGREES	
42520000028	8699931030228	MAMEF ANGLED PIN CARRIER UNIT	15 DEGREES	
42520000029	8699931030235	MAMEF ANGLED PIN CARRIER UNIT	20 DEGREES	



LIMB LENGTHENER FIXATOR

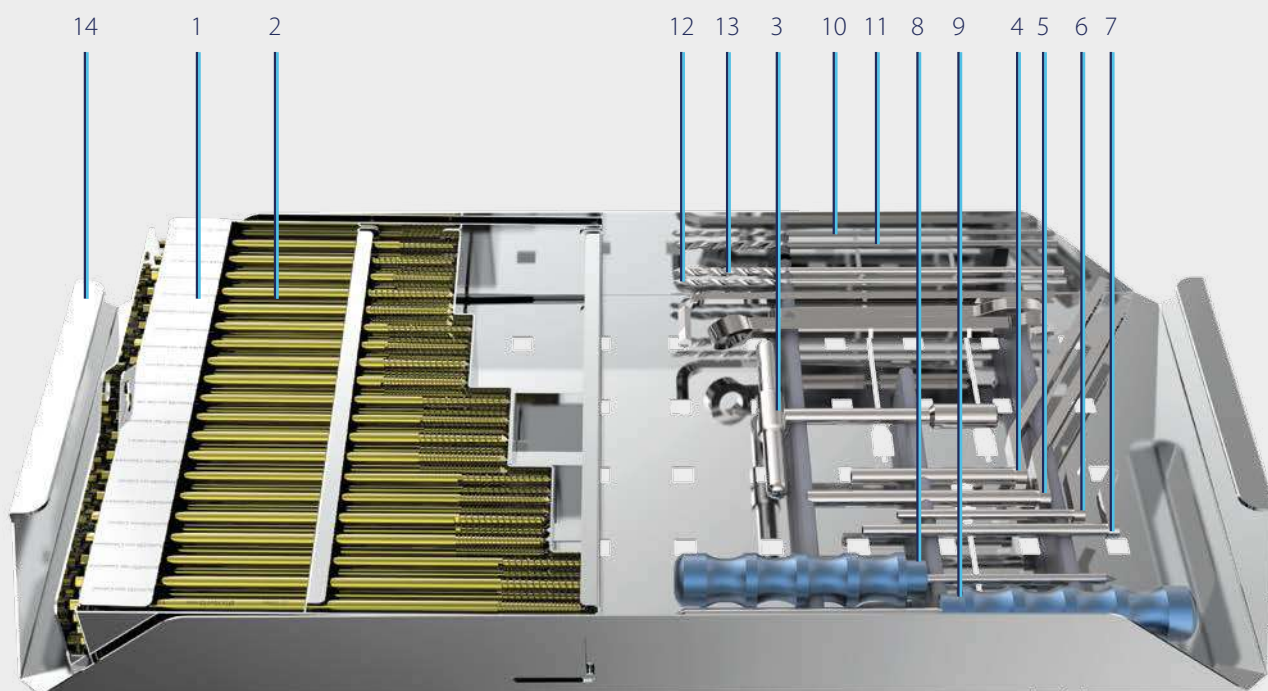
The fixation has a special design including clamps integrated to telescopic structure.

DC unit is used for extension. Three different lengths are available.



CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)	LENGTHENING (mm)
40240030000	8698673456815	LIMB LENGHTENER FIXATOR	SHORT	175	20
40240020000	8698673456822	LIMB LENGHTENER FIXATOR	STANDARD	215	65
40240010000	8698673456808	LIMB LENGHTENER FIXATOR	LONG	255	105

NO	CODE	BARCODE	DESCRIPTION	QTY
1	20910153005	8698673456150	DAF SCHANZ PIN CORTICAL THREADED 5X30X150	5
2	20910184005	8698673458598	DAF SCHANZ PIN CORTICAL THREADED 5X40X180	5
	20910204005	8698673456228	DAF SCHANZ PIN CORTICAL THREADED 5X40X200	5
	21012004005	8698673454897	DAF SCHANZ PIN CANCELLOUS THRD. 5X40X200	5
	20910153006	8698673456259	DAF SCHANZ PIN CORTICAL THREADED 6X30X150	5
	20910184006	8698673458413	DAF SCHANZ PIN CORTICAL THREADED 6X40X180	5
	20910204006	8698673458581	DAF SCHANZ PIN CORTICAL THREADED 6X40X200	5
	21012204006	8698673455016	DAF SCHANZ PIN CANCELLOUS THRD. 6X40X220	5
	00415210000	8699931005134	5MM-6MM SCHANZ BOX	1
3	04015000600	8698673492523	5-6 MM UNIVERSAL SCHANZ T HANDLE	1
4	04025000020	8698673490680	FEMUR & TIBIA FIX. SCHANZ GUIDE Ø 6 MM	4
5	04025000030	8698673490666	FEMUR & TIBIA FIX. SCHANZ GUIDE Ø 5 MM	4
6	03550020032	8680858408658	FEMUR & TIBIA FIX. DRILL SLEEVE Ø 3.2 X 200 MM	1
7	03550020045	8680858408665	FEMUR & TIBIA FIX. DRILL SLEEVE Ø 4.5 X 200 MM	1
8	03550000005	8680858408672	FEMUR & TIBIA FIX. TROCAR Ø 5 MM	1
9	03550000006	8680858408689	FEMUR & TIBIA FIX. TROCAR Ø 6 MM	1
10	22310200032	8698673450455	BONE DRILL 3.2 X 200 MM (STOP)	2
11	22310200045	8698673450493	BONE DRILL 4.5 X 200 MM (STOP)	2
12	04015000060	8698673490062	ALLEN WRENCH Ø 6 MM	1
13	04015000020	8699931015430	ALLEN WRENCH Ø 2 MM	1
14	00000208100	8699931017908	1.DESIGN TRAY FOR DAF	1



CODE	BARCODE	DESCRIPTION	QTY
40340030001	8698673456846	SEGMANTEL FIXATOR SHORT	1
40340020001	8698673456860	SEGMANTEL FIXATOR STANDARD	1
40340010001	8698673456839	SEGMANTEL FIXATOR LONG	1
40340010002	8698673457157	SEGMANTEL FIXATOR EXTRA LONG	1
41440010000	8698673456723	LRS FIXATOR FOR CORRECT. OF DEFORMITY LONG	*
41440020000	8698673458611	LRS FIXATOR FOR CORRECT. OF DEFORMITY STD	*
40440010100	8698673456914	SPECIAL LIMB FIXT T CLAMP SEGMENTAL LONG	*
40440020100	8698673463561	SPECIAL LIMB FIXT T CLAMP SEGMENTAL SHORT	*
00000208200	8699931017915	1.DESIGN TRAY FOR DAF	2
00560270125	8699931010923	CONTAINER	1

MODULAR LRS SYSTEM

CODE	BARCODE	DESCRIPTION	QTY
41440330120	8699931031508	RAIL EXT-SHORT 120 MM	1
41440030200	8699931031522	RAIL SHORT 200 MM	1
41440020250	8699931031546	RAIL STANDARD 250 MM	1
41440010300	8699931031560	RAIL LONG 300 MM	1
41440110400	8699931031584	RAIL EXT-LONG 400 MM	1
41440000010	8699931031607	RAIL CLAMP OUTER	2
41440000011	8699931031621	RAIL CLAMP CENTRAL	1
41440000012	8699931031645	RAIL T CLAMP	1
41440000014	8699931031669	RAIL SWIVEL GRADUAL CORRECT. CLAMP	1
40150020000	8699931028768	COMPRESSION-DISTRACTION UNIT 40mm	1
40150040000	8699931028782	COMPRESSION-DISTRACTION UNIT 80mm	1
42520000022	8699931030167	MAMEF RADIAL ANGLED PIN CARRIER UNIT 5 DEGREES	*
42520000023	8699931030174	MAMEF RADIAL ANGLED PIN CARRIER UNIT 10 DEGREES	*
42520000024	8699931030181	MAMEF RADIAL ANGLED PIN CARRIER UNIT 15 DEGREES	*
42520000025	8699931030198	MAMEF RADIAL ANGLED PIN CARRIER UNIT 20 DEGREES	*
42520000026	8699931030204	MAMEF ANGLED PIN CARRIER UNIT 5 DEGREES	*
42520000027	8699931030211	MAMEF ANGLED PIN CARRIER UNIT 10 DEGREES	*
42520000028	8699931030228	MAMEF ANGLED PIN CARRIER UNIT 15 DEGREES	*
42520000029	8699931030235	MAMEF ANGLED PIN CARRIER UNIT 20 DEGREES	*





OWO-FIX[®]

HIGH TIBIAL OPEN WEDGE OSTEOTOMY FIXATOR

OWO-FIX[®]

HIGH TIBIAL OPEN WEDGE OSTEOTOMY FIXATOR

Indications

Indications of High tibial osteotomy (HTO) external fixator are as follows;

Genu varum deformities that the mechanical axis is impaired in varus position and unicompartmental osteoarthritis cases,

When the medial compartment is overloaded after meniscectomy,

In Osteochondral defects with resurfacing arthroplasty applications,

The description in the scientific literature for the requirements of HTO applications which are stated below are also valid for the OWO-FIX surgery,

The presence of knee osteoarthritis with involvement of medial compartment,

Lack of inflammatory arthritis in the knee joint.

When the knee range of motion is over 100 ° ,

The lack of joint laxity in the medial and lateral planes.

Flexion contracture less than 15 ° ,

The absence of the patellofemoral joint osteoarthritis,

Genu varum deformity cases that does not require more than 20 ° correction,

Body mass index of less than 25.



Aims

To reduce the operation time with the easy fixation of the system to the tibia.

To apply the osteotomy after the fixation of the fixator (it is different from the plate and nail applications).

To apply the osteotomy through a 3-4 cm skin incision without performing wide soft tissue dissection.

To apply gradual and controlled distraction during and after osteotomy.

To prevent the uncontrolled breakage of the osteotomy line (extension of the osteotomy line to the lateral cortex or lateral tibial plateau); even if breakage occurs, to allow the patients early full weight-bearing due to the stability of the system.

To remove the system after obtaining the union without the need for a second surgical procedure.

To avoid the problems associated with large skin incision which may occur in open surgeries.

Distinctive Advantages

It does not require application of a plaster-splint after the operation.

The patient can mobilize with full weight-bearing immediately on the postoperative period. OWO-FIX system has stable structure that allows early active motion and full weight-bearing even if the presence of lateral cortical damage or tibial plateau fracture occurred during the surgery.

There is no need to make a large skin incision.

In the early postoperative period, there is a possibility to adjust the amount of correction according to the radiographic control.

There is no need for a second surgery (and anesthesia) for removal of the system. OWO-FIX can be removed in outpatient clinics.



Features

OWO-FIX system is comprised of carbon fiber proximal arch, aluminum and titanium based additional components. Therefore it is quite light. The weight of fixator varies between 400 - 480 g according to the used schanz screws.

The distraction can be applied without damaging the lateral cortex because of the projection of the hinge point which has the same projection with the osteotomy line which extends to the lateral cortex on the frontal plan.

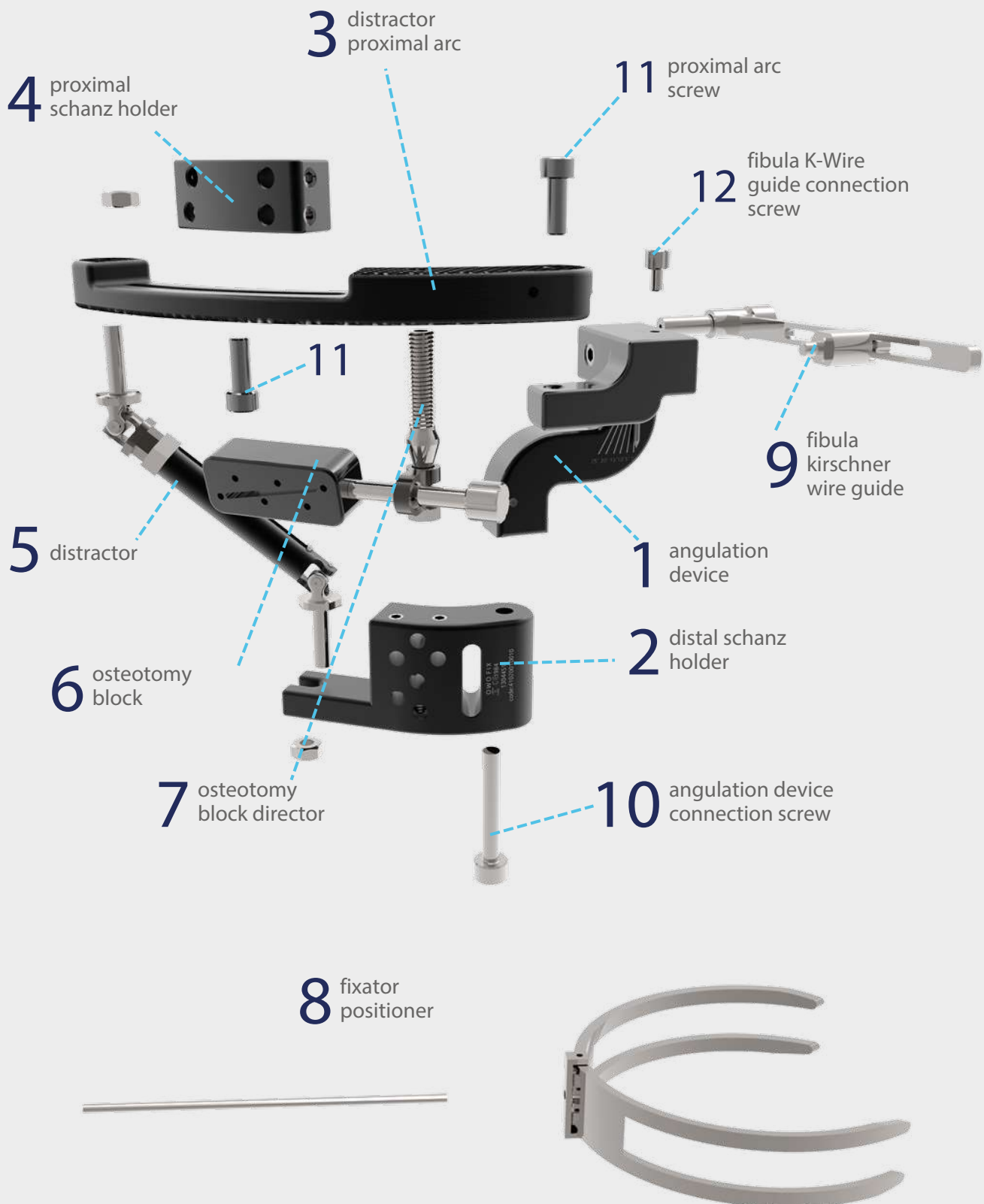
Owing to the 10° posterior slope on the osteotomy block the tibial slope is regulated automatically (If desired, posterior slope angle could be changed with the motion of the osteotomy block).

Different systems are available for the left and right tibia.

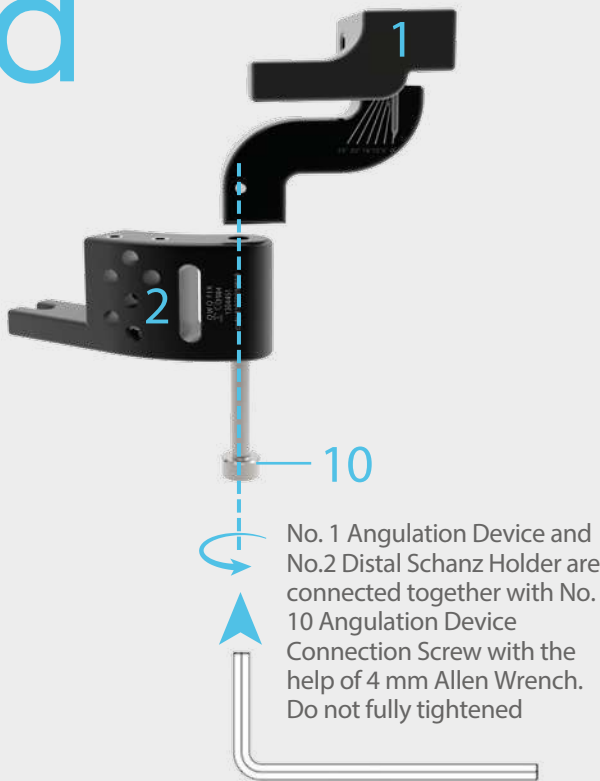
It is possible to insert schanz screws in different angles and configurations over the proximal and distal schanz holders.

On the early postoperative period, adjustment of the angular correction can be made on the system with the help of the distractor.

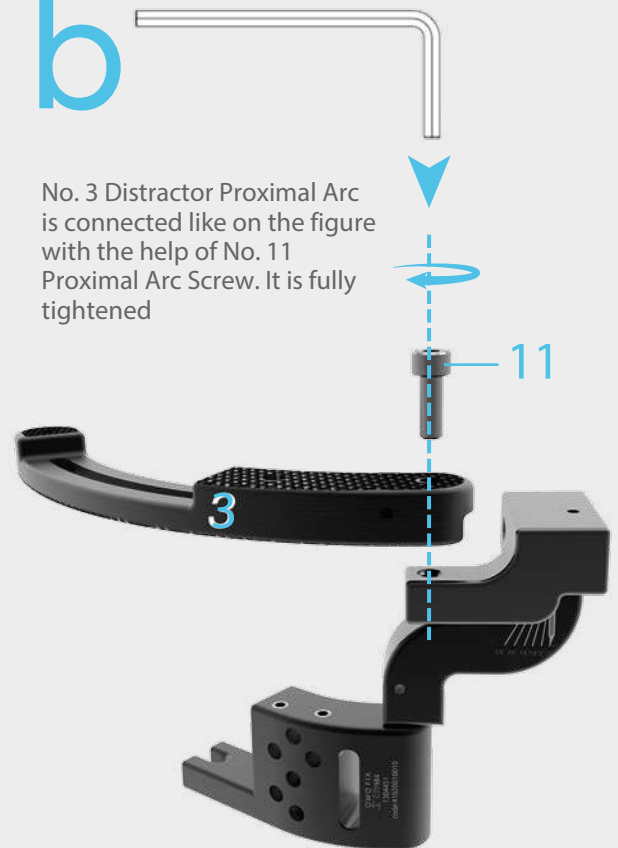
INSTALLATION



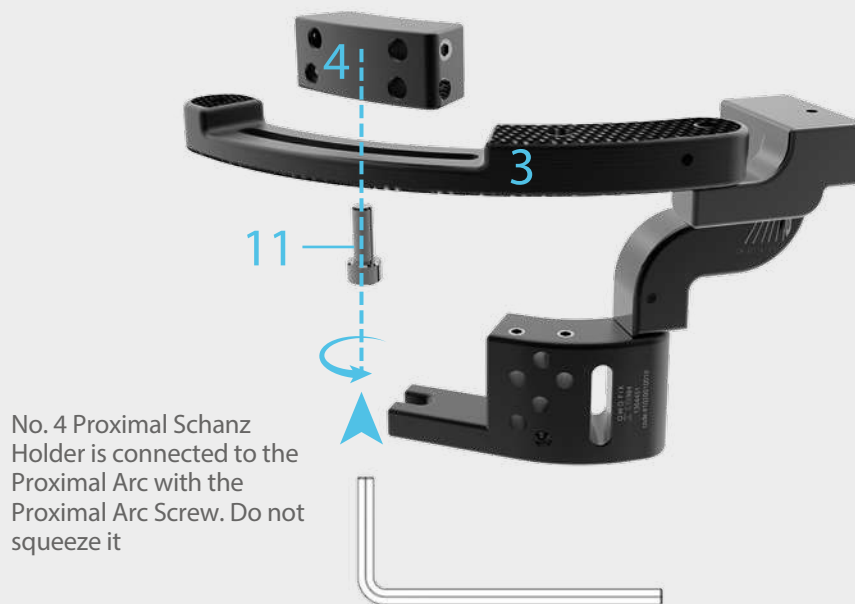
a



b



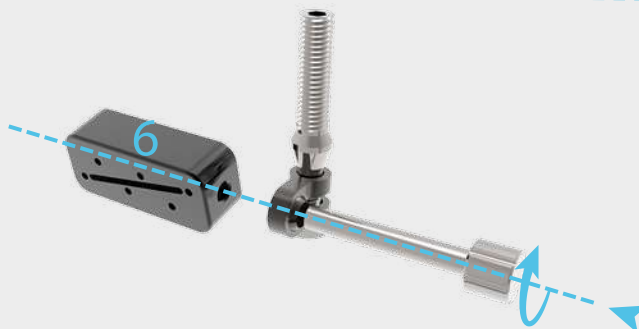
c



After the installation of OWO-FIX during the application for easy and accurate sending of the schanz screws the screws of the connections at the figure a and c are not fully sequeezed

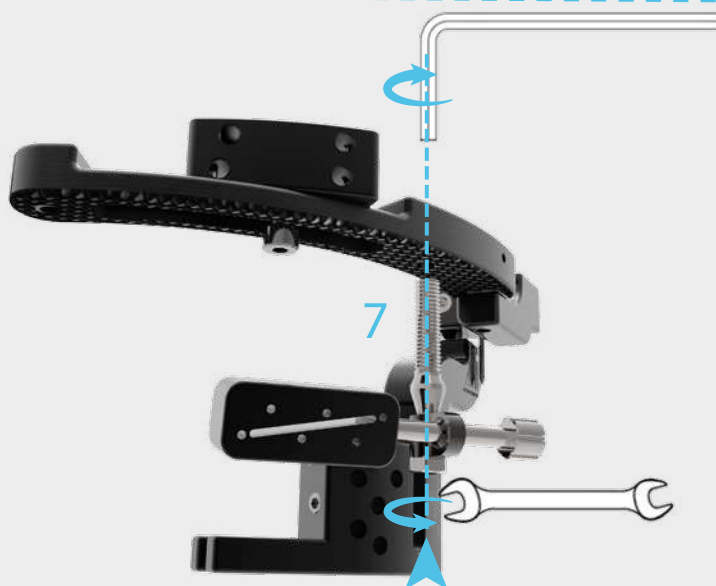
d

No. 6 Osteotomy Block is mounted to the Osteotomy Block Director



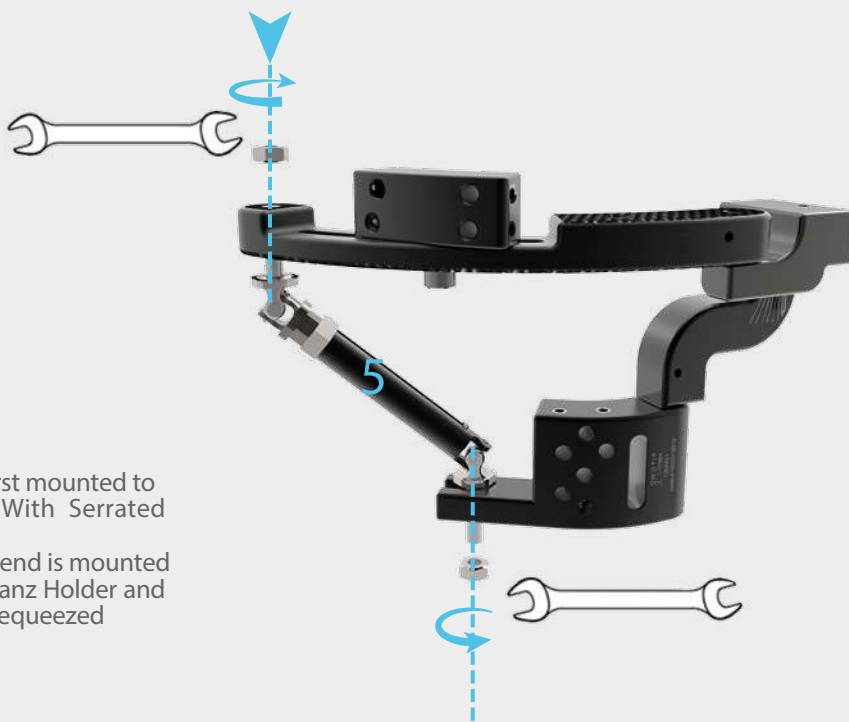
e

No. 7 Osteotomy Block Director is screwed into its place on the Proximal Arc

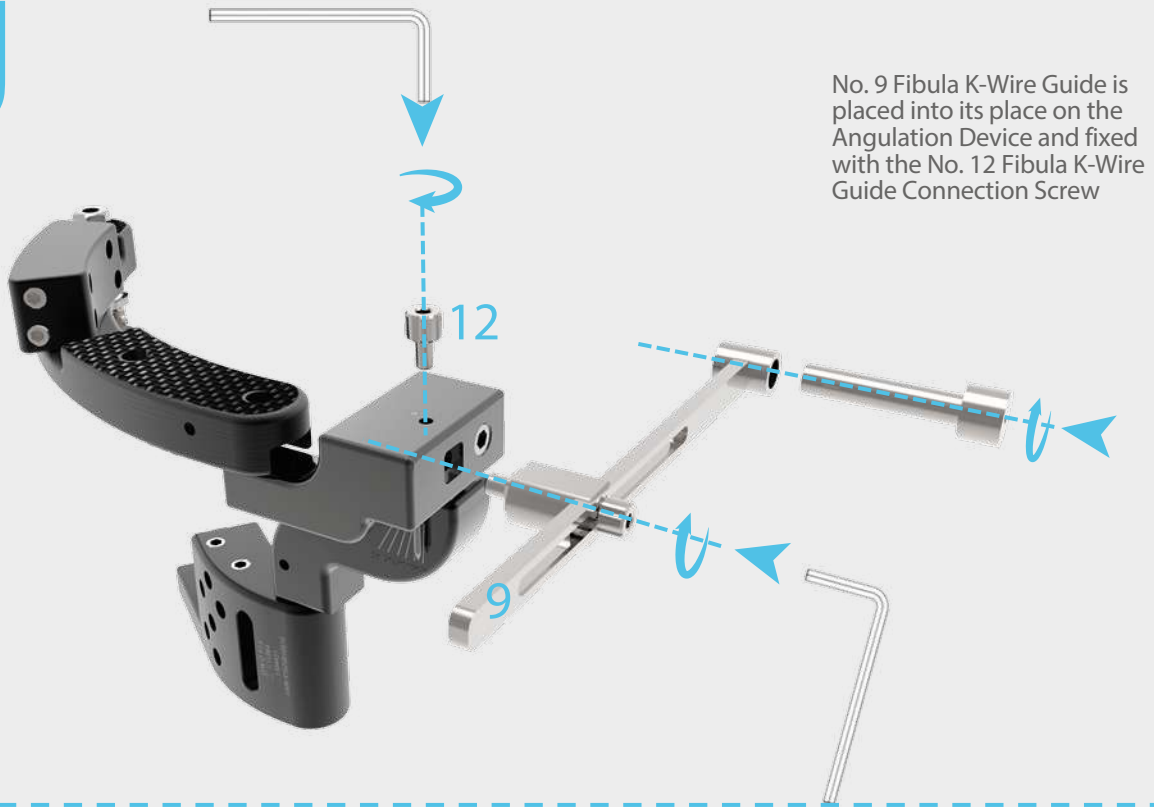


f

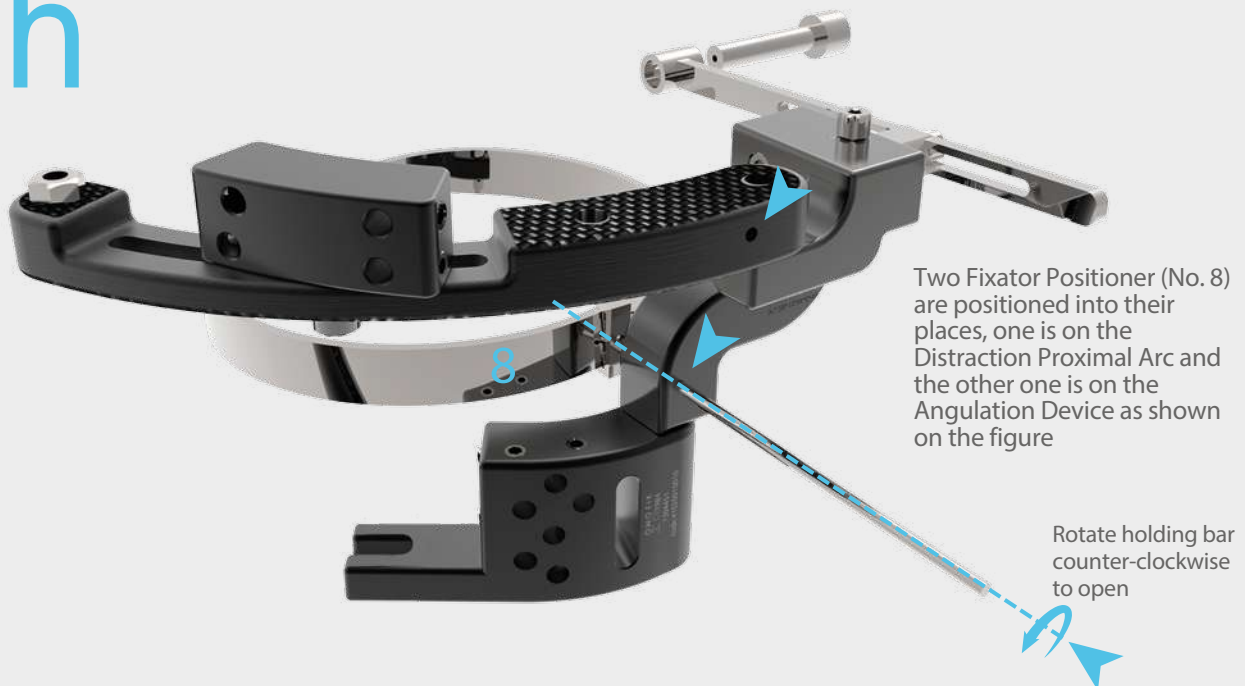
No. 5 Distractor is first mounted to the Proximal Arc With Serrated Washer and a Nut
After that the other end is mounted to the Proximal Schanz Holder and both nuts are fully squeezed



g

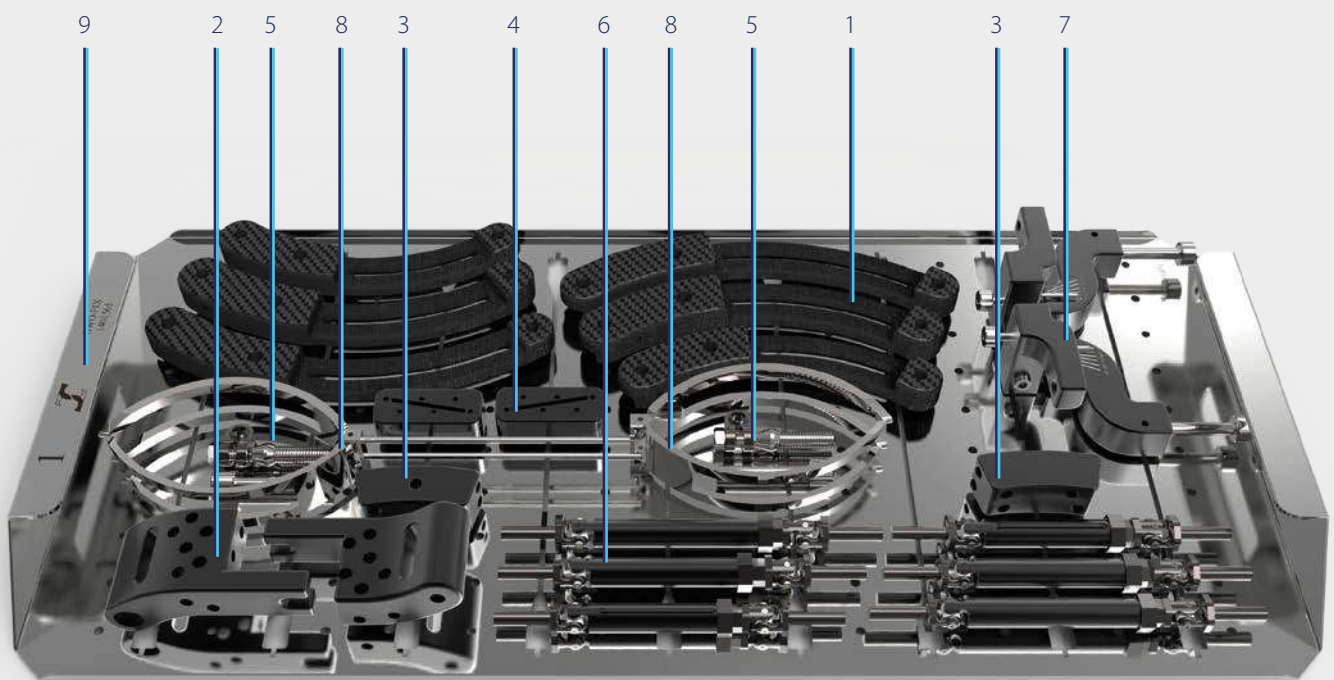


h

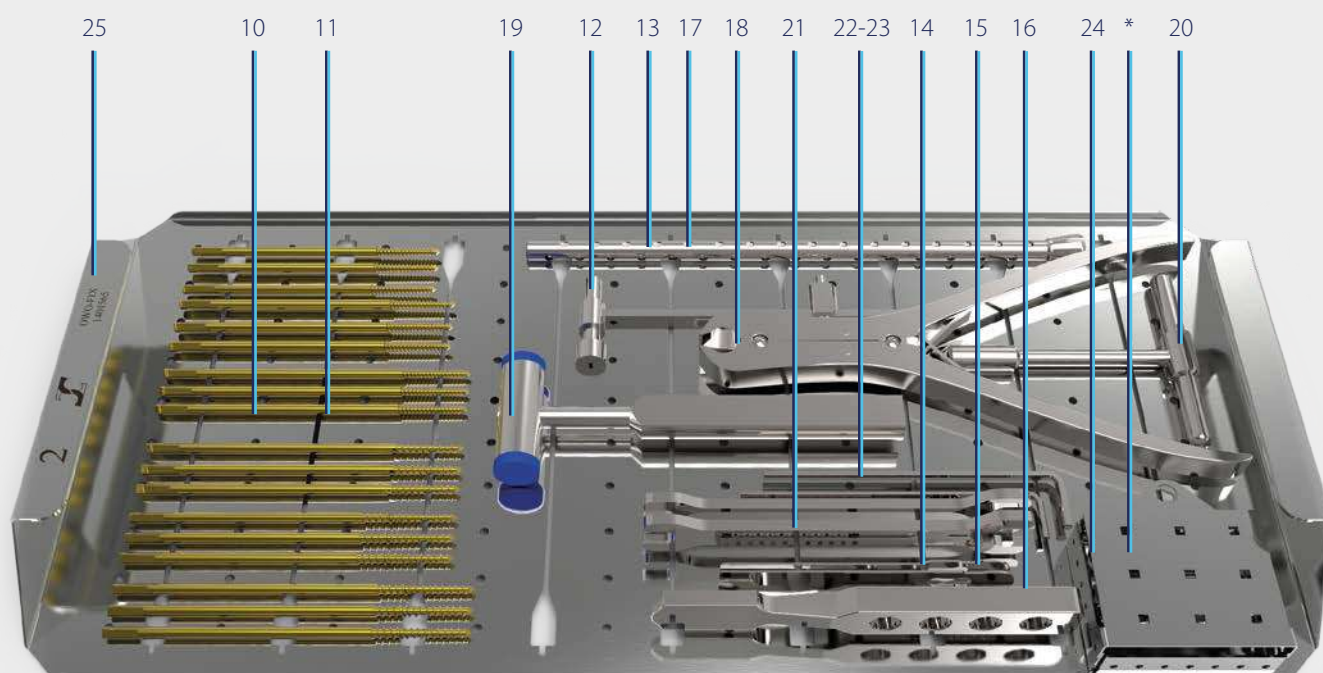


OWO-FIX SET

NO	CODE	BARCODE	DESCRIPTION	QTY
1	41085000120	8680858412228	OWO-FIX DISTRACTOR PROXIMAL ARC- R 120°	1
	41086000120	8680858412235	OWO-FIX DISTRACTOR PROXIMAL ARC- L 120°	1
	41085000140	8680858412242	OWO-FIX DISTRACTOR PROXIMAL ARC- R 140°	1
	41086000140	8680858412259	OWO-FIX DISTRACTOR PROXIMAL ARC- L 140°	1
	41085000160	8680858412266	OWO-FIX DISTRACTOR PROXIMAL ARC- R 160°	1
	41086000160	8680858412273	OWO-FIX DISTRACTOR PROXIMAL ARC- L 160°	1
2	41045000010	8680858412280	OWO-FIX DISTAL SCHANZ HOLDER-R	1
	41046000010	8680858412297	OWO-FIX DISTAL SCHANZ HOLDER-L	1
3	41040000090	8680858412303	OWO-FIX PROXIMAL SCHANZ HOLDER	2
4	01040000020	8680858412310	OWO-FIX OSTEOTOMY BLOCK	2
5	01050000021	8680858412327	OWO-FIX OSTEOTOMY BLOCK DIRECTOR	2
6	41040000120	8680858412334	OWO-FIX DISTRACTOR FOR 120	2
	41040000140	8680858416165	OWO-FIX DISTRACTOR FOR 140	2
	41040000160	8680858416172	OWO-FIX DISTRACTOR FOR 160	2
7	41025000040	8680858412341	OWO-FIX ANGULATION DEVICE RIGHT	1
	41026000040	8680858412358	OWO-FIX ANGULATION DEVICE LEFT	1
8	01050000022	8680858412365	OWO FIXATOR POSITIONER	2
9	00000809100	8680858416240	OWO-FIX 1. DESIGN TRAY	1



NO	CODE	BARCODE	DESCRIPTION	QTY
10	21020143005	8698673454668	DAF SCHANZ PIN CANCELLOUS THRD. (TI) 5x30x140	3
	21020153005	8698673425026	DAF SCHANZ PIN CANCELLOUS THRD. (TI) 5x40x140	3
	21020154005	8698673454675	DAF SCHANZ PIN CANCELLOUS THRD. (TI) 5x40x150	3
11	20920123005	8698673455375	DAF SCHANZ PIN CORT.THRD.(TI) 5X30X120	3
	20920133005	8680858419272	DAF SCHANZ PIN CORT.THRD.(TI) 5X30X130	3
	20920143005	8680858419289	DAF SCHANZ PIN CORT.THRD.(TI) 5X30X140	3
12	01050000023	8680858412372	OWO-FIX FIBULA KIRSCHNER WIRE GUIDE	1
13	23410250120	8698673453128	KIRSCHNER WIRE TROCAR POINT 2X250 MM	8
14	03310016060	8680858409006	CHISEL BLADE 16X60 MM STRAIGHT	2
15	03310011060	8680858409013	CHISEL BLADE 11X60 MM STRAIGHT	2
16	03381000001	8699931023770	CHISEL HANDLE	1
17	04551000260	8699931030693	K-WIRE TUBE Ø10XØ8X260 MM	1
18	02271000002	8699931000122	PIN CUTTER UP TO Ø 5	1
19	01193002009	8699931028126	BONE HAMMER - MEDIUM	1
20	04015000600	8698673492523	5-6 MM UNIVERSAL SCHANZ T HANDLE	1
21	08050001014	8680858420261	WRENCH Ø 10 MM-14 MM	1
22	04015000040	8698673490055	ALLEN WRENCH Ø 4 MM	2
23	04015000030	8698673490048	ALLEN WRENCH Ø 3 MM	2
24	00000809300	8680858418978	OWO-FIX SCREW BOX	1
*	51850000106	8698673453692	NUT	3
*	51750000116	8698673453876	SERRATED WASHER	6
*	41050100008	8680858419685	SETSCREW Ø8 x 10	6
*	41050100006	8680858419678	SETSCREW Ø6 x 10	20
*	41050010000	8680858419647	OWO-FIX ANGULATION DEVICE CONNECTION SCREW	3
*	41050000000	8680858419654	OWO-FIX FIBULA K-WIRE GUIDE CONNECTION SCREW	3
*	41020000101	8680858416264	PROXIMAL ARC CONNECTION SCREW	5
25	00000809200	8680858416257	OWO-FIX 2. DESIGN TRAY	1



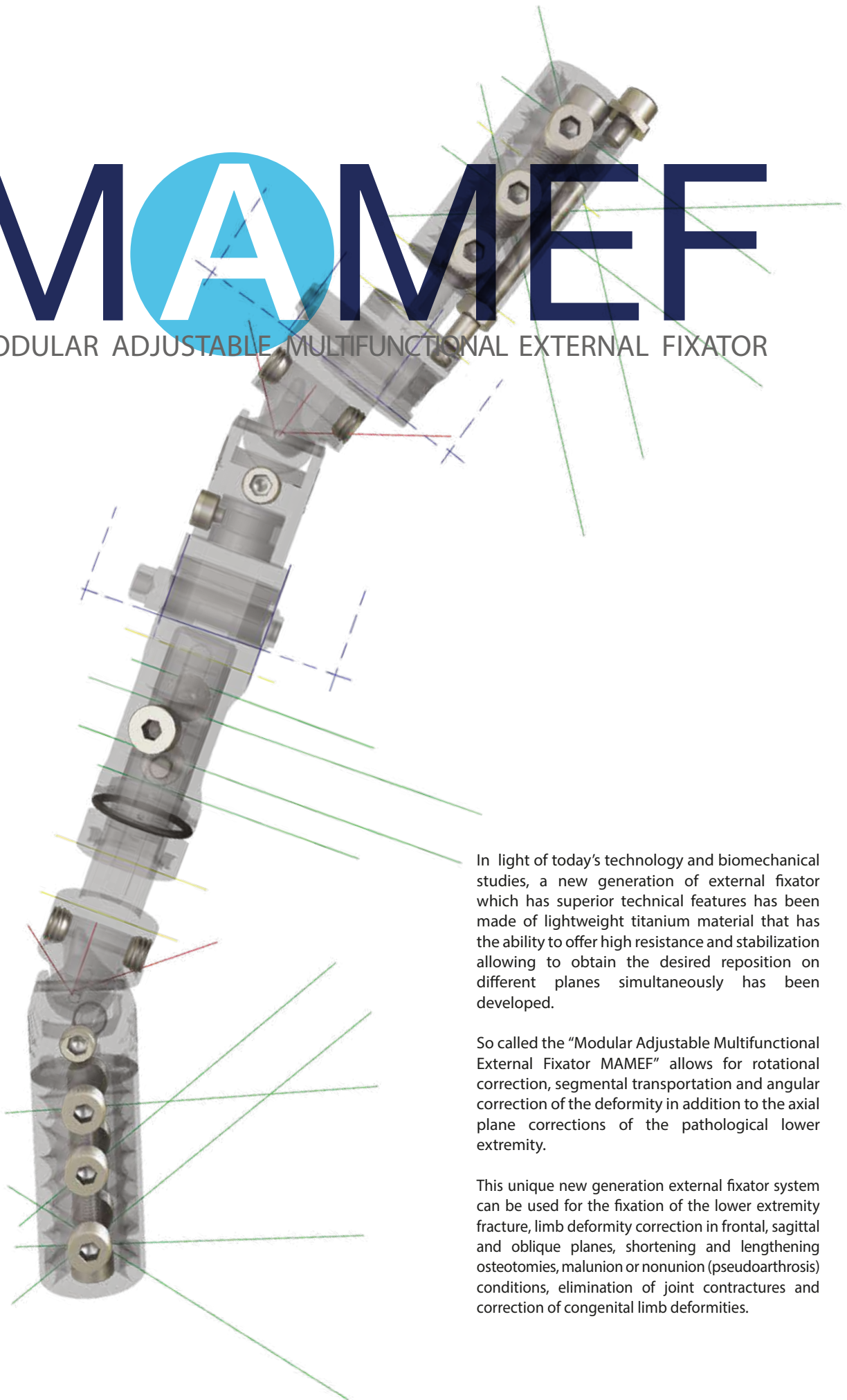




MAMEF

MAMEF

MODULAR ADJUSTABLE MULTIFUNCTIONAL EXTERNAL FIXATOR



In light of today's technology and biomechanical studies, a new generation of external fixator which has superior technical features has been made of lightweight titanium material that has the ability to offer high resistance and stabilization allowing to obtain the desired reposition on different planes simultaneously has been developed.

So called the "Modular Adjustable Multifunctional External Fixator MAMEF" allows for rotational correction, segmental transportation and angular correction of the deformity in addition to the axial plane corrections of the pathological lower extremity.

This unique new generation external fixator system can be used for the fixation of the lower extremity fracture, limb deformity correction in frontal, sagittal and oblique planes, shortening and lengthening osteotomies, malunion or nonunion (pseudoarthrosis) conditions, elimination of joint contractures and correction of congenital limb deformities.

Features

MAMEF is made of titanium alloy.

The fixator has a special and effective connection system in order to maintain the reduction of fracture obtained with MAMEF.

The fixator allows 360 degree rotational motion, flexion-extension and varus-valgus mobility are obtained safely.

$30+30=60^\circ$ of clamp angulation can be carried out (in all directions depending on the long axis of the fixator).

Transactions can be done individually or in combination with this external fixator system and the other parts of the fixator which are pre-fixed sections will not be affected by courtesy of this feature of the fixator during the secondary applications.

MAMEF allows Schanz pin placement for all planes and any desired configurations.

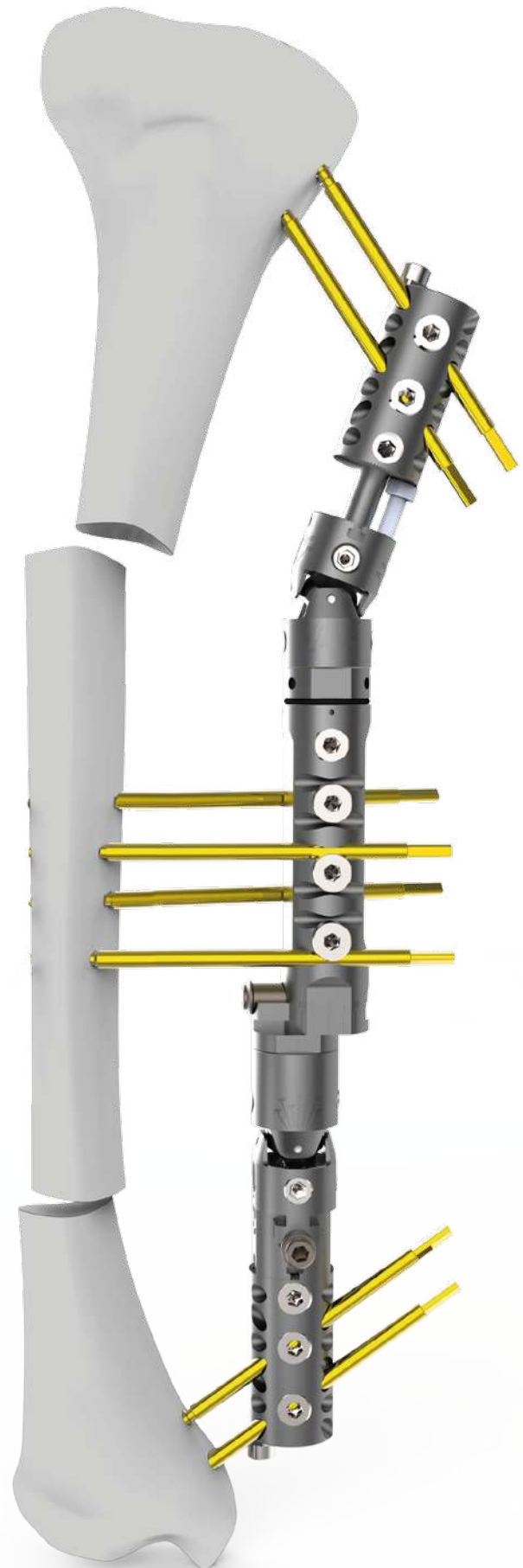
Trans Angled Pin Fixation Bolts provide to place Schanz pin transversely and 135 degrees in an angle. Poliaxial Pin Fixation Bolts allow to position Schanz pin in different planes and they can be combined with each other (Lego Feature).

This external fixator is suitable for use hybrid with the type of ring and bar fixator systems which provide to use as circular and small fixation wires in case of the purpose of fixation of the intra-articular and extra-articular fractures in metaphyseal application of femur and tibia and in case of poor bone stock conditions that is not suitable for large-diameter Schanz pin placement.

Eight different types of models and sizes including MAMEF (Short-Standard-Long), Translation-Rotation, Deformity, Segment Transportation, Single Jointed and Monoblock Trochanteric are all available.

MAMEF Arch and C Ring Module: This connection modules provide to use as circular of K-Wires and Schanz screws in different planes for fixation of the intra-articular and extra-articular fractures in femoral and tibial metaphyseal applications and in case of deformity correction applications.

Different lengths of cancellous and cortical Schanz screws are available up to 150 mm to 220 mm. The diameter of 5 mm and 6 mm Schanz screws can be used with this external fixator system.



MAMEF

Modular Adjustable Multifunctional External Fixator (Short-Standard-Long)

CODE	BARCODE	DESCRIPTION
41520030000	8698673468030	MODULAR ADJUSTABLE MULTIFUNCT. EXT. FIX SHORT(MAMEF)
41520020000	8698673468047	MODULAR ADJUSTABLE MULTIFUNCT. EXT. FIX STD (MAMEF)
41520010000	8698673468023	MODULAR ADJUSTABLE MULTIFUNCT. EXT. FIX LONG (MAMEF)



MAMEF

Single Jointed External Fixator

CODE	BARCODE	DESCRIPTION
41520060000	8699931004021	MAMEF SINGLE JOINTED EXT. FIXATOR



MAMEF

Translation Rotation External Fixator

CODE

41520100000

BARCODE

8699931013870

DESCRIPTION

MAMEF TRANSLATION-ROTATION EXT. FIXATOR



MAMEF

Segment Transportation External Fixator

CODE

41520050000

BARCODE

8699931004014

DESCRIPTION

MAMEF SEGMENT TRANSPORTATION EXT. FIXATOR



MAMEF

Deformity External Fixator

CODE

41520002000

BARCODE

8699931021417

DESCRIPTION

MAMEF DEFORMITY EXTERNAL FIXATOR



MAMEF

Monoblock Trochanteric External Fixator

CODE

41520080000

BARCODE

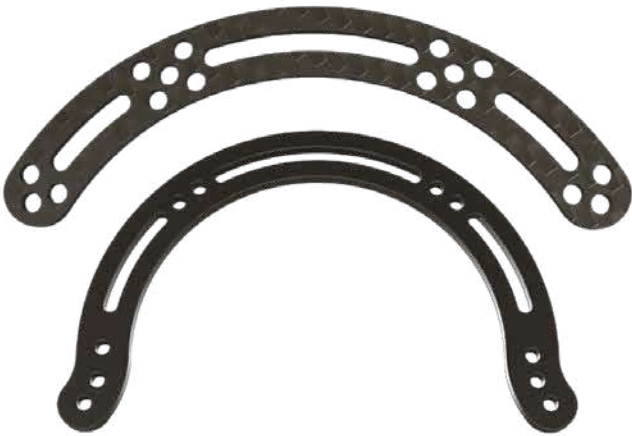
8699931004045

DESCRIPTION

MAMEF MONOBLOCK TROCHANTERIC EXT. FIXATOR



ADDITIONAL MODULES



MAMEF
Arch ve C-Ring



MAMEF
Translation Multiplanar Unit



MAMEF
Arch Connection Screw



MAMEF
Polyaxial Pin
Fixation Bolt



MAMEF
Pin Bolt

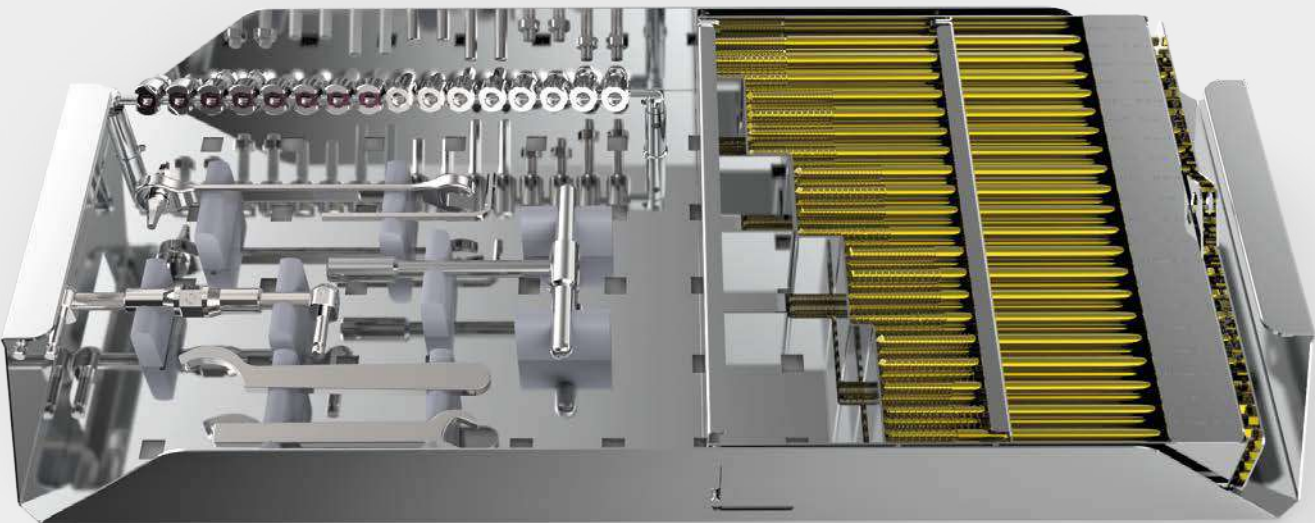
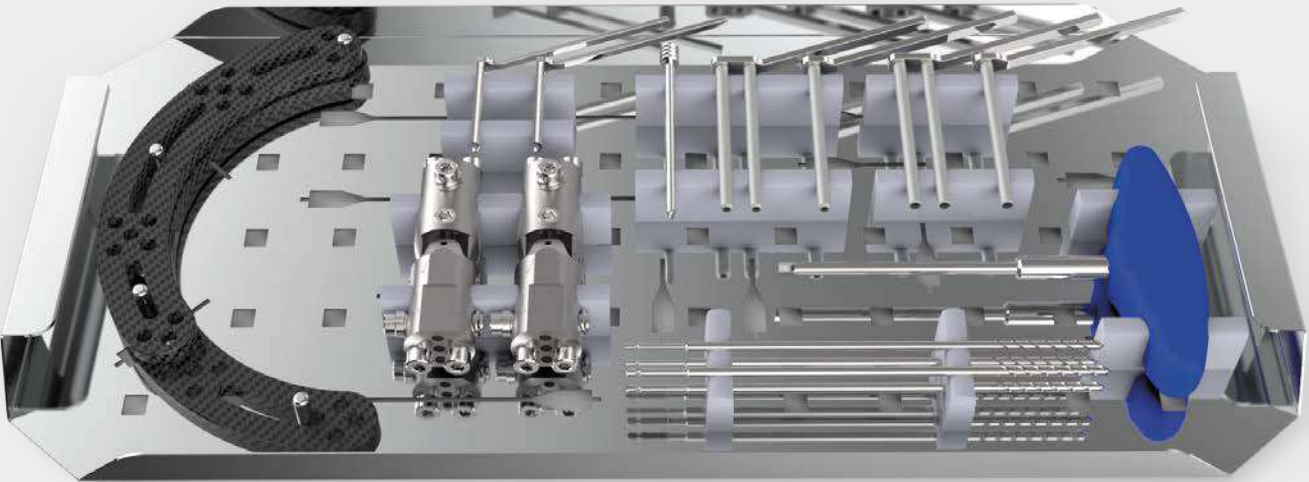


MAMEF
Arch Rotation Unit



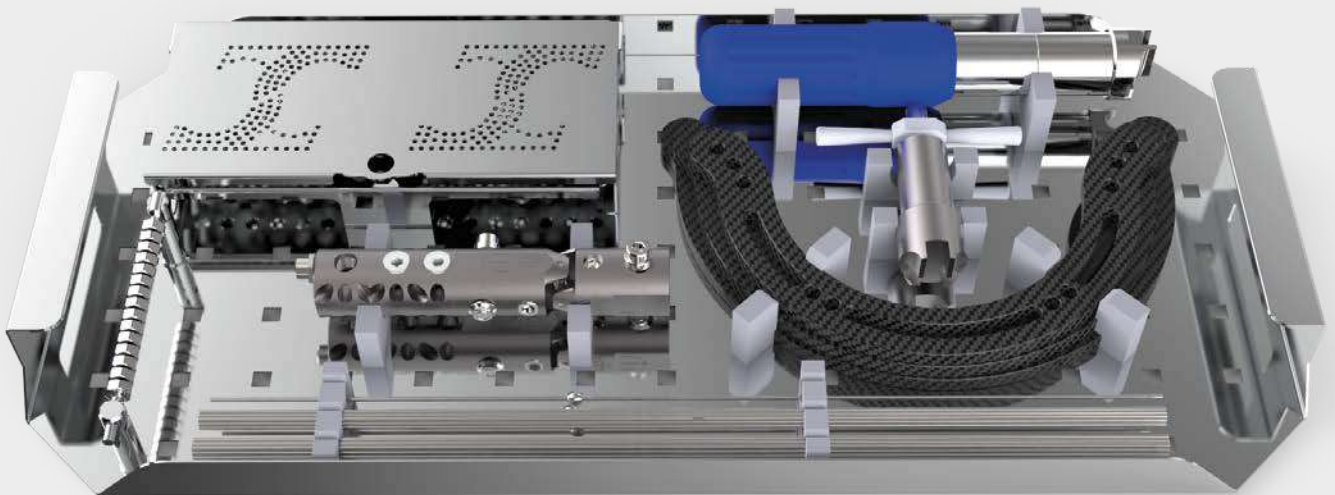
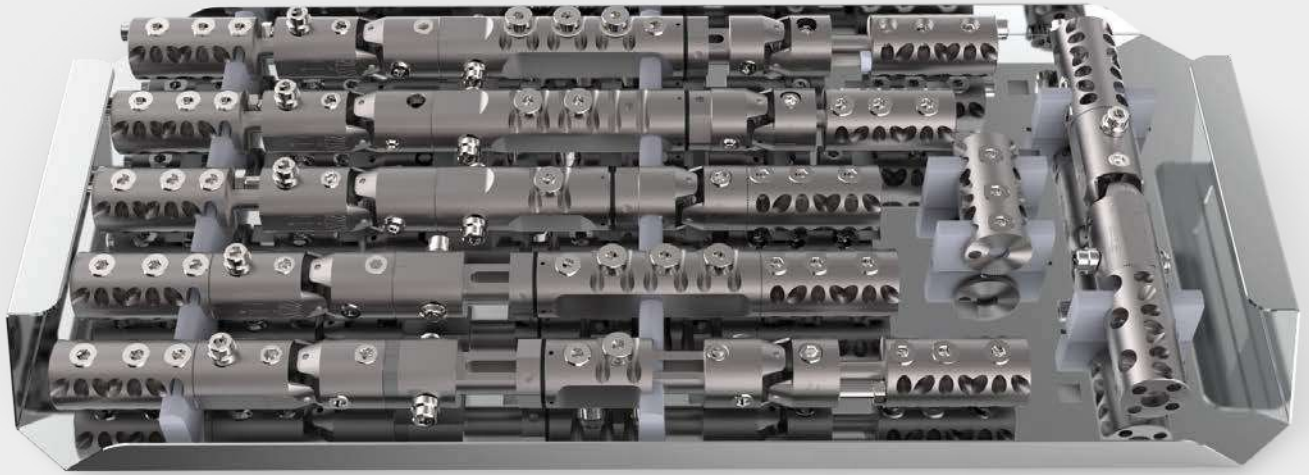
MAMEF
Ring Connection Unit

MAMEF SET



CODE	BARCODE	DESCRIPTION	QTY
4158000000	8699931021608	MAMEF & RING CONNECTION UNIT	1
50450700080	8699931030754	ARCHES 70° 80 MM	1
02025100500	8699931005172	T SCREW DRIVER Ø 5 MM	1
22310200035	8699931005271	BONE DRILL 3.5X200 MM	2
22310200045	8698673450493	BONE DRILL 4,5 X 200 MM	2
04150290035	8699931004663	MAMEF DRILL GUIDE DOUBLE Ø 3.5 MM	1
04150290045	8699931004656	MAMEF DRILL GUIDE DOUBLE Ø 4.5 MM	1
04150090035	8699931011104	MAMEF DRILL GUIDE Ø 3.5 MM	1
04150090045	8699931011111	MAMEF DRILL GUIDE Ø 4.5 MM	1
04155090035	8699931027440	MAMEF TROCAR Ø 3.5 MM	1
04155090045	8699931005165	MAMEF TROCAR Ø 4.5 MM	1
04151056000	8699931005141	MAMEF FIX. SCHANZ GUIDE Ø 5-6 MM	2
00000204100	8699931011173	MAMEF 1. DESIGN TRAY	1

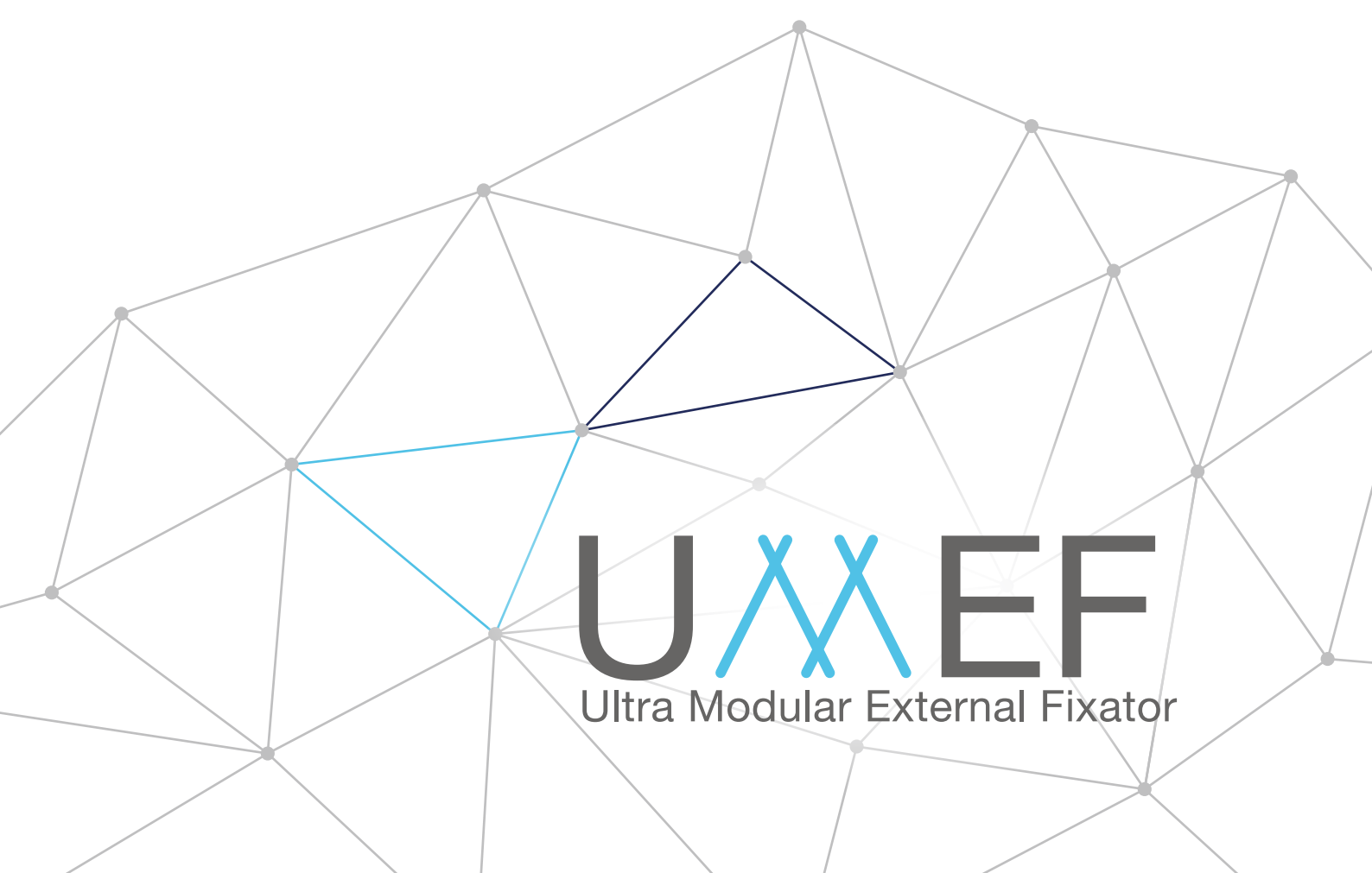
CODE	BARCODE	DESCRIPTION	QTY
20920152005	8699931013948	SCHANZ CORT. (Ti) 5X20X150	5
20920162005	8699931013955	SCHANZ CORT. (Ti) 5X20X160	5
20920182005	8699931013962	SCHANZ CORT. (Ti) 5X20X180	5
21020204005	8698673454699	SCHANZ CORT. (Ti) 5X40X200	5
20920152006	8699931013887	SCHANZ CORT. (Ti) 6X20X150	5
20920162006	8699931013894	SCHANZ CORT. (Ti) 6X20X160	5
20920182006	8699931013900	SCHANZ CORT. (Ti) 6X20X180	5
20920204006	8698673455481	SCHANZ CORT. (Ti) 6X40X200	5
20920224006	8698673455498	SCHANZ CORT. (Ti) 6X40X220	5
21020153005	8698673425026	SCHANZ CANCEL.(Ti) 5X30X150	5
21020154005	8698673454675	SCHANZ CANCEL.(Ti) 5X40X150	5
21020164005	8699931005707	SCHANZ CANCEL.(Ti) 5X40X160	5
21020184005	8698673454682	SCHANZ CANCEL.(Ti) 5X40X180	5
21020204005	8698673454699	SCHANZ CANCEL.(Ti) 5X40X200	5
21020224005	8699931005714	SCHANZ CANCEL.(Ti) 5X40X220	5
21020154006	8698673454729	SCHANZ CANCEL.(Ti) 6X40X150	5
21020164006	8699931005721	SCHANZ CANCEL.(Ti) 6X40X160	5
21020184006	8698673454736	SCHANZ CANCEL.(Ti) 6X40X180	5
21020204006	8698673454743	SCHANZ CANCEL.(Ti) 6X40X200	5
21020224006	8698673454750	SCHANZ CANCEL.(Ti) 6X40X220	5
04100020056	8699931018912	PROTECTIVE CAP FOR 5-6 MM SCHANZ	10
41510000010	8699931019247	MAMEF ARCH ROTATION UNIT	1
52051004200	8699931004069	TRANS-ANGLED PIN FIXATION BOLT (50 mm THREADED)	2
52051003200	8699931004052	TRANS-ANGLED PIN FIXATION BOLT (40 mm THREADED)	2
52051004200	8699931004069	TRANS-ANGLED PIN FIXATION BOLT (50 mm THREADED)	2
52052000042	8699931004083	TRANS-ANGLED PIN FIXATION BOLT (50 mm POLYGONAL)	2
41511000040	8699931013511	POLIAxIAL PIN FIXATION BOLT (40 mm THREADED)	4
41511000050	8699931012651	POLIAxIAL PIN FIXATION BOLT (50 mm THREADED)	2
41512000050	8699931012668	POLIAxIAL PIN FIXATION BOLT (50 mm POLYGONAL)	2
02010101002	8698673493308	SOFT SCREW DRIVER QUICK LARGE	1
02000415035	8699931029260	SCREW DRIVER QUICK HEX. TIP 3.5X150 MM	1
02020103025	8699931010930	SCREW DRIVER QUICK TIP 2.5XØ5X130 MM	1
04050000008	8699931028379	WRENCH 8 MM	1
08044000014	8699931015737	WRENCH 13 MM	1
08042000008	8698673462182	WRENCH (8-10 MM)	1
04015030062	8699931005189	L-WRENCH MAMEF	1
08021000015	8698673495630	T-HANDLE 5-6mm	1
00000204300	8699931011159	MAMEF 3.DESIGN TRAY 545X255X60	1



CODE	BARCODE	DESCRIPTION	QTY
41520030000	8698673468030	MODULAR ADJUSTABLE MULTIFUNCT. EXT. FIX SHORT(MAMEF)	1
41520020000	8698673468047	MODULAR ADJUSTABLE MULTIFUNCT. EXT. FIX STD (MAMEF)	1
41520010000	8698673468023	MODULAR ADJUSTABLE MULTIFUNCT. EXT. FIX LONG (MAMEF)	1
41520100000	8699931013870	MAMEF TRANSLATION-ROTATION EXT. FIXATOR	1
41520050000	8699931004014	MAMEF SEGMENT TRANSPORTATION EXT. FIXATOR	1
41520060000	8699931004021	MAMEF SINGLE JOINTED EXT. FIXATOR	1
41520080000	8699931004045	MAMEF MONOBLOCK TROCHANTERIC EXT. FIXATOR	1
00000204200	8699931011166	MAMEF 2. DESIGN TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
00415210000	8699931005134	DAF SCHANZ PIN BOX	1
41520002000	8699931021417	MAMEF DEFORMITY EXTERNAL FIXATOR	1
21520000100	8699931015911	MAMEF FEMORAL ARCH CONNECTION SCREW	4
40180000140	8699931017984	DEFORMITY C-RING (FIBER CARBON) 140 mm	1
40180000160	8699931017991	DEFORMITY C-RING (FIBER CARBON) 160 mm	1
40180000180	8699931018035	DEFORMITY C-RING (FIBER CARBON) 180 mm	1
51850000106	8698673453692	NUT M6	20
51950000500	8698673453999	SPECIAL PIN FIXATION BOLT SERRATED	5
51950000901	8698673411913	CANNULATED BOLT WIRE FIXATION	10
52150240006	8698673450325	BOLTS M6 24 MM	12
51750000516	8698673453982	SLOTED WASHER	10
52750200001	8698673454378	THREADED SOCKETS	5
52310400018	8698673453760	OLIVE WIRES 1,8 X 400 MM	5
23410400115	8698673453036	KIRSCHNER WIRE TROCAR POINT 1.5X400 MM	5
		K-WIRE BOX	2
05005010030	8698673496972	CYLINDER TENSIONER	1
05005010020	8698673493483	WIRE TENSIONER SIMPLE	1
00000204400	8699931020786	MAMEF 4. DESIGN TRAY 545X255X45	1
00560270180	8699931023152	CONTAINER 560X270X180 MM	1





UXXEF

Ultra Modular External Fixator

UMXEF

Ultra Modular External Fixator

Ultra Modular External Fixator is a unique system that allows for a rigid osteosynthesis application, developed aiming at providing an effective continuation of the stabilization in the period of time to fracture healing after performing the desired anatomical fracture repositioning in the indications of operative external fixation technique of humerus, ulna-radius, metacarpus, hand, pelvis, femur, tibia and in metatarsus traumas.



Aims

To obtain the strongest stabilization and rigid osteosynthesis application.

To shorten the duration of operation owing to its easy implementation feature.

To give options to the surgeon for screw localizations depending on the fractured bone, its localization and the shape of the fracture line.

To supply usage of the new design external fixator for single or multi-planes application depending on the fractured bone, its location, the shape of the fracture line and the indication.

To provide good radiological evaluation thanks to its carbon fiber structure that shows radiolucent opacity in the radiographs and provides observation without making it difficult in addition to being in a lightweight.

After the frame is constructed, manipulations are performed for the fracture reduction by allowing movement in between the modules independently from each other.

Features

The system consists of rods, clamps and pins.

The structure of the rods are carbon fibre material (Titanium rod choices are optional).

There are rod-rod clamps that serve to connect two rods to each other and rod – pin clamps that provide to connect between rod and pin into the set.

Rod-pin clamps are available as a single and dual forms (to place two Schanz screws in parallel).

There are choices in types of rod-pin clamps into the set. They are open and closed rod-pin clamps.

“Dynamic Joint Distractor Unit” is available into the set.

UMEF is lightweight owing to its carbon fibre structure of rods and titanium made clamps.

UMEF provides ease of use.

It allows to obtain the best stabilization by performing a rigid osteosynthesis application.

UMEF allows 360° movement in all three planes.

Compression, distraction and derotation are achieved by using “UMEF” pin to bar fixator system.

Varus, valgus, flexion and extension can be achieved with “UMEF” and translation could also be eliminated.

“UMEF” can be used as a hybrid with the other external fixator systems such as “MAMEF” and Ilizarov circular systems.

Distinctive Advantages

Allows three dimensional mobility.

To provide the ease of assembly, thanks to its advanced clamp designs, during the process of bringing the components together with no need for additional time and effort.

In positioning stage of Schanz pins, choosing the localizations of them as wished depending on the indications.

Thanks to its effective locking system, the positioned module is locked and afterwards, the other modules may be rotate, angulate and their lengths can be adjusted independently.

Provide a good radiological evaluation that is necessary postoperatively and for radiologic follow up of the fracture healing process owing to its carbon fibre structure.

Compatible with MRI.

It is a unique lightweight system due to its carbon fibre rod structure and its special feature clamp designs.

Indications

Complex fractures,

Polytraumatized patients who have fractures with no indication of internal fixation methods,

Patients with fractures and head & chest traumas,

Pelvic fractures,

Humeral and forearm fractures,

Femoral and tibial fractures,

Pediatric fractures,

Metacarpal and metatarsal fractures,

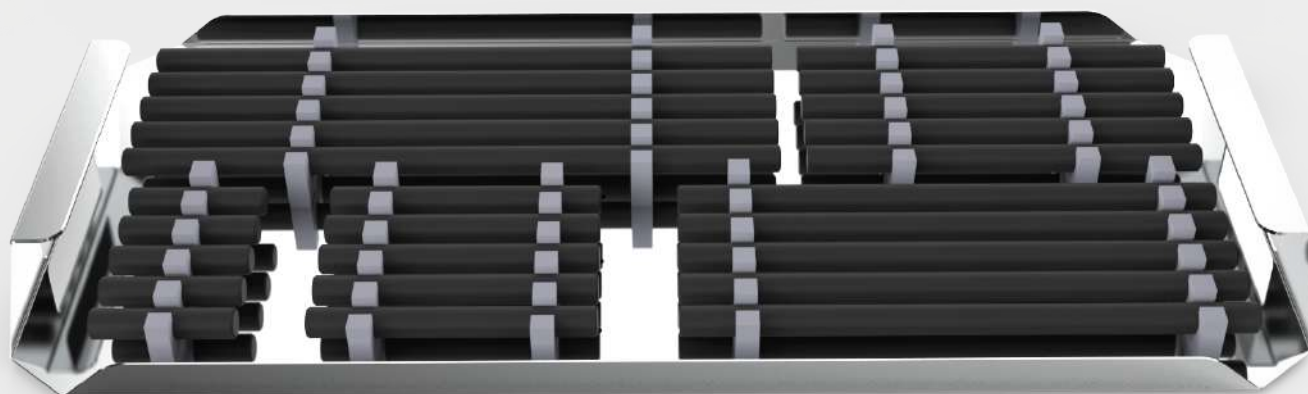
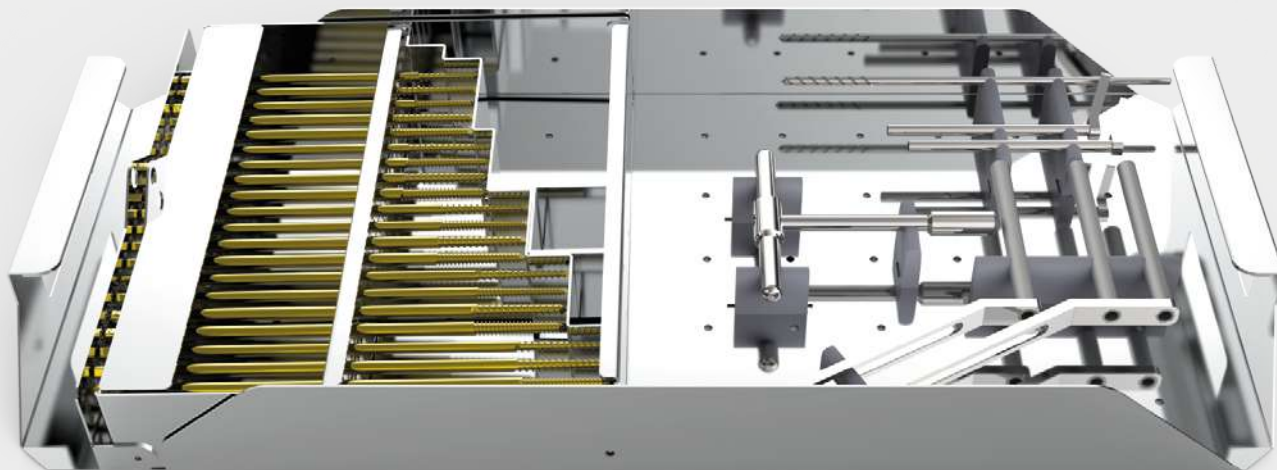
Arthrodesis,

Osteotomies,

Infected pseudoarthrosis.

UMEF

FEMUR FIXATOR SET



CODE	BARCODE	DESCRIPTION	QTY
00415210000	8699931005134	5MM-6MM SCHANZ BOX	1
20920152006	8699931013887	SCHANZ PIN Ø6x20x150	5
20920162006	8699931013894	SCHANZ PIN Ø6x20x160	5
20920182006	8699931013900	SCHANZ PIN Ø6x20x180	5
20920204006	8698673455481	DAF SCHANZ PIN CORT.THRD.(TI) 6X40X200	5
20920224006	8698673455498	SCHANZ SCREW Ø6x40x220 CORTICAL	5
21020154006	8698673454729	SCHANZ SCREW Ø6x40x150 CANCELLOUS	5
20920164006	8698673455467	SCHANZ SCREW Ø6x40x160 CANCELLOUS	5
21020184006	8698673454736	SCHANZ SCREW Ø6x40x180 CANCELLOUS	5
21020204006	8698673454743	SCHANZ SCREW Ø6x40x200 CANCELLOUS	5
21020224006	8698673454750	SCHANZ SCREW Ø6x40x220 CANCELLOUS	5
04100020056	8699931018912	PROTECTIVE CAP FOR 5-6 MM SCHANZ	10
04051100006	8699931011180	UMEF SCHANZ GUIDE 6 MM	1
04051102006	8699931011197	UMEF SCHANZ GUIDE DOUBLE 6 MM	1
04051000045	8699931011203	UMEF DRILL GUIDE 4,5 MM	2
08021000015	8698673495630	T HANDLE 5-6 MM	1
22310306045	8698673450394	BONE DRILL4.5X60X300 MM	2
00000704100	8699931017496	UMEF TIBIA 1. DESIGN TRAY	1

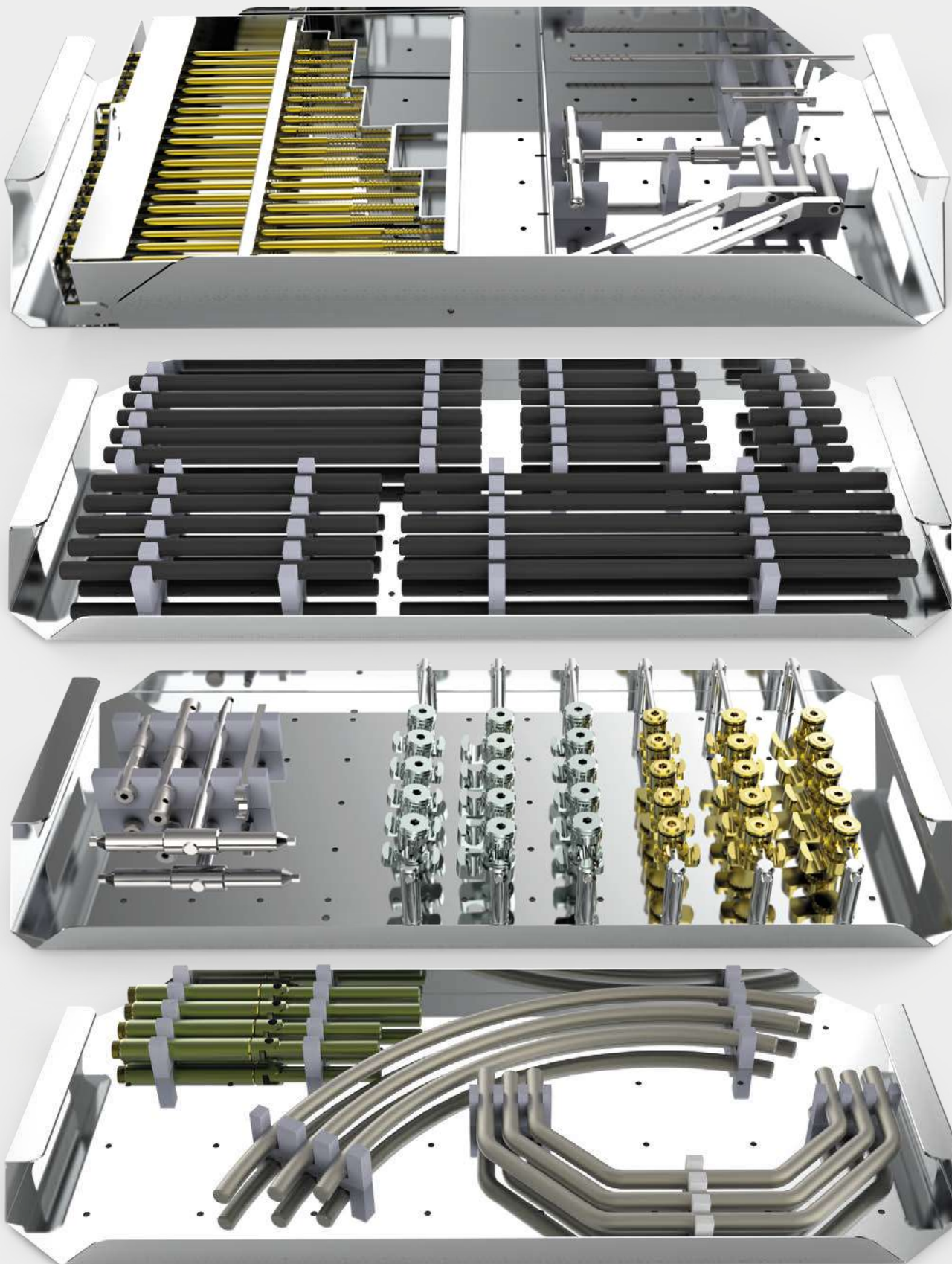
CODE	BARCODE	DESCRIPTION	QTY
40561113300	8698673468207	UMEF FEMUR ROD FIBER CARBON 13x300	5
40561113240	8698673468191	UMEF FEMUR ROD FIBER CARBON 13X240 MM	5
40561113180	8699931003956	UMEF FEMUR ROD FIBER CARBON 13x180	5
40561113120	8698673468177	UMEF FEMUR ROD FIBER CARBON 13x120	5
40561113060	8698673468214	UMEF FEMUR ROD FIBER CARBON 13x60	5
00000704200	8699931017502	UMEF TIBIA 2. DESIGN TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40521200001	8698673468245	UMEF FEMUR ROD-ROD CLAMP	5
40521300001	8698673468238	UMEF FEMUR ROD-PIN CLAMP SINGLE	5
40521300002	8698673468221	UMEF FEMUR ROD-PIN CLAMP DOUBLE	5
40521200002	8699931013481	UMEF FEMUR ROD-ROD QUICK CLAMP	3
40520000021	8699931014075	UMEF FEMUR ROD-PIN SINGLE QUICK CLAMP	3
40520000022	8699931014082	UMEF FEMUR ROD-PIN DOUBLE QUICK CLAMP	3
40521230112	8699931012859	UMEF FEMUR-TIBIA CONNECTION CLAMP	3
04051000005	8699931011210	T-SCREW DRIVER 5 MM	1
40522000001	8698673468566	UMEF FEMUR - TIBIA COMPR. DISTR. UNIT	1
40522030001	8699931014037	UMEF FEMUR - TIBIA COMPR. DISTR. UNIT (SHORT)	1
08044000012	8699931015744	WRENCH 12 MM	1
00000704300	8699931017519	UMEF FIX. TIBIA 3. DESIGN TRAY	1
00560270170	8699931010787	CONTAINER 560X270X170 MM	1

40529100030	8680858405398	UMEF FEMUR ROD-RING CONNECTION UNIT LONG	*
40529300010	8680858405404	UMEF FEMUR ROD-RING CONNECTION UNIT SHORT	*

UMEF

TIBIA FIXATOR SET



CODE	BARCODE	DESCRIPTION	QTY
00415210000	8699931005134	5-6 MM SCHANZ BOX	1
20920152005	8699931013948	SCHANZ PIN Ø5x20x150	5
20920162005	8699931013955	SCHANZ PIN Ø5x20x160	5
20920182005	8699931013962	SCHANZ PIN Ø5x20x180	5
20920204005	8698673486805	SCHANZ SCREW Ø5x40x200 CORTICAL	5
20920224005	8699931007664	SCHANZ SCREW Ø5x40x220 CORTICAL	5
21020154005	8698673454675	SCHANZ SCREW Ø5x40x150 CANCELLOUS	5
21020164005	8699931005707	SCHANZ SCREW Ø5x40x160 CANCELLOUS	5
21020184005	8698673454682	SCHANZ SCREW Ø5x40x180 CANCELLOUS	5
21020204005	8698673454699	SCHANZ SCREW Ø5x40x200 CANCELLOUS	5
21020224005	8699931005714	DAF SCHANZ PIN CANCEL. THRD.(TI) 5X220X40	5
04051200005	8699931011227	UMEF SCHANZ GUIDE 5 MM	1
04051202005	8699931011234	UMEF SCHANZ GUIDE DOUBLE 5 MM	1
04100020056	8699931018912	PROTECTIVE CAP FOR 5-6 MM SCHANZ	10
04051000032	8699931011241	UMEF DRILL GUIDE 3,2 MM	2
04015000600	8698673492523	5-6 MM UNIVERSAL SCHANZ T HANDLE	1
23410250130	8698673453272	KIRSCHNER WIRE TROCAR POINT 3X250 MM	1
22310200032	8698673450455	BONE DRILL 3,2 X 200 MM	2
00000704100	8699931017496	UMEF TIBIA 1. DESIGN TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40562111300	8698673468603	UMEF TIBIA ROD FIBER CARBON 11x300	5
40562111240	8698673468597	UMEF TIBIA ROD FIBER CARBON 11x240	5
40562111180	8699931004595	UMEF TIBIA ROD FIBER CARBON 11X180 MM	5
40562111120	8698673468573	UMEF TIBIA ROD FIBER CARBON 11x120	5
40562111060	8698673468610	UMEF TIBIA ROD FIBER CARBON 11x60	5
00000704200	8699931017502	UMEF TIBIA 2. DESIGN TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40522200001	8698673468696	UMEF TIBIA ROD-ROD CLAMP	5
40522300001	8698673468689	UMEF TIBIA ROD-PIN CLAMP SINGLE	5
40522300002	8698673468672	UMEF TIBIA ROD-PIN CLAMP DOUBLE	5
40522300103	8699931014150	UMEF TIBIA ROD-ROD QUICK CLAMP	3
40520000011	8699931014013	UMEF TIBIA ROD-PIN SINGLE QUICK CLAMP	3
40520000012	8699931014020	UMEF TIBIA ROD-PIN DOUBLE QUICK CLAMP	3
04051000005	8699931011210	T-SCREW DRIVER 5 MM	1
40522000001	8698673468566	UMEF FEMUR - TIBIA COMPR. DISTR. UNIT	1
40522030001	8699931014037	UMEF FEMUR - TIBIA COMPR. DISTR. UNIT (SHORT)	1
08044000012	8699931015744	WRENCH 12 MM	1
00000704300	8699931017519	UMEF TIBIA 3. DESIGN TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40520000001	8699931012927	UMEF FEMUR DYNAMIC JOINT DISTRATOR	2
40520000002	8699931012934	UMEF TIBIA DYNAMIC JOINT DISTRATOR	2
40520030000	8699931012835	UMEF CURVED PELVIC ROD Ø 11 TI SHORT	1
40520110000	8699931004625	UMEF CURVED PELVIC ROD Ø 11 TI STANDARD	1
40520010000	8699931012842	UMEF CURVED PELVIC ROD Ø 11 TI LONG	1
40522030000	8699931014044	UMEF TIBIA CURVED ROD Ø 11 TI SHORT	1
40522411000	8698673468559	UMEF TIBIA CURVED ROD TITANYUM Ø 11 STANDARD	1
40522010000	8699931014051	UMEF TIBIA CURVED ROD TITANYUM Ø 11 LONG	1
00000704400	8699931017793	UMEF TIBIA 4. DESIGN TRAY	1
00560270200	8699931024746	560x270x200 CONTAINER	1

40520300010	8680858405374	UMEF TIBIA ROD-RING CONNECTION UNIT SHORT	*
40520100030	8680858405381	UMEF TIBIA ROD-RING CONNECTION UNIT LONG	*

UMEF

HUMERUS-ULNA-RADIUS FIXATOR SET



CODE	BARCODE	DESCRIPTION	QTY
00000601300	8699931017182	3-4 MM SCHANZ BOX	1
20920062003	8698673455306	SCHANZ PIN CORTICAL THREADED 3X20X60 MM	8
20920082003	8698673455313	SCHANZ PIN CORTICAL THREADED 3X20X80 MM	8
20920102503	8698673455320	SCHANZ PIN CORTICAL THREADED 3X25X100 MM	12
20921002003	8699931022018	SCHANZ PIN CORTICAL THREADED 3X20X120 MM	8
20920072004	8698673458741	SCHANZ PIN CORTICAL THREADED 4X20X70 MM	4
20920082004	8698673455337	SCHANZ PIN CORTICAL THREADED 4X20X80 MM	8
20920102004	8698673455344	SCHANZ PIN CORTICAL THREADED 4X20X100 MM	8
20920122504	8698673455368	SCHANZ PIN CORTICAL THREADED 4X25X120 MM	8
20921402504	8699931028607	SCHANZ PIN CORTICAL THREADED 4X25X140 MM	8
04100020044		PROTECTIVE CAP FOR 4 MM SCHANZ	10
04100020023		PROTECTIVE CAP FOR 2-3 MM SCHANZ	10
04051300003	8699931010138	UMEF SCHANZ GUIDE 3 MM	1
04051402003	8699931010121	UMEF SCHANZ GUIDE DOUBLE 3 MM	1
04051300004	8699931010107	UMEF SCHANZ GUIDE 4 MM	1
04051302004	8699931010114	UMEF SCHANZ GUIDE DOUBLE 4 MM	1
04051000103	8699931015775	UMEF 3 MM SCHANZ ADAPTOR FOR T-HANDLE	1
04051000105	8699931015768	UMEF 4 MM SCHANZ ADAPTOR FOR T-HANDLE	1
04051003040	8699931015751	UNIVERSAL QUICK T-HANDLE FOR 3-4 MM SCHANZ	1
00000701100	8699931017151	UMEF HUMERUS/ULNA RADIUS 1.TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40564106060	8698673468467	UMEF ULNA RADIUS ROD FİBER CARBON 6X60 MM	5
40564106120	8698673468429	UMEF ULNA RADIUS ROD FİBER CARBON 6X120 MM	5
40564106180	8699931004571	UMEF ULNA RADIUS ROD FİBER CARBON 6X180 MM	5
40564106240	8698673468443	UMEF ULNA RADIUS ROD FİBER CARBON 6X240 MM	5
23410300130	8698673453296	KIRSCHNER WIRE TROCER POINT 3X300	2
04051000001	8699931012811	UMEF HUMERUS C GUIDE	1
40520000000	8699931012828	UMEF HUMERUS DYNAMIC JOINT DISTRATOR	2
00000701200	8699931017168	UMEF HUMERUS/ULNA RADIUS 2.TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40563108060	8698673468313	UMEF HUMERUS ROD FİBER CARBON 8X60 MM	5
40563108120	8698673468276	UMEF HUMERUS ROD FİBER CARBON 8X120 MM	5
40563108180	8699931004557	UMEF HUMERUS ROD FİBER CARBON 8X180 MM	5
40563108240	8698673468290	UMEF HUMERUS ROD FİBER CARBON 8X240 MM	5
04050000009	8699931018028	WRENCH ANAHTAR 9MM	1
04051000035	8699931010145	UMEF T-SCREW DRIVER 3.5 MM	1
40524000001	8698673468412	UMEF ULNA RADIUS COMPR. DISTR.UNIT	1
40520300001	8699931018974	UMEF ULNA RADIUS COMPR. DISTR.UNIT(SHORT)	1
00000701300	8699931017175	UMEF HUMERUS 3.TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40523300001	8698673468382	UMEF HUMERUS ROD-PIN CLAMP SINGLE	5
40523300002	8698673468375	UMEF HUMERUS ROD-PIN CLAMP DOUBLE	5
40523200001	8698673468399	UMEF HUMERUS ROD-ROD CLAMP	5
40523300003	8699931014327	UMEF HUMERUS ROD-PIN SINGLE QUICK CLAMP	2
40523300004	8699931014334	UMEF HUMERUS ROD-PIN DOUBLE QUICK CLAMP	2
40523200021	8699931014181	UMEF HUMERUS ROD-ROD QUICK CLAMP	2
40523400003	8699931012019	UMEF HUMERUS-ULNA-RADIUS CONNECTION CLAMP	2
40524300001	8698673468535	UMEF ULNA-RADIUS ROD-PIN CLAMP SINGLE	5
40524300002	8698673468528	UMEF ULNA-RADIUS ROD-PIN CLAMP DOUBLE	5
40524200001	8698673468542	UMEF ULNA-RADIUS ROD-ROD CLAMP	5
40524400001	8699931014280	UMEF ROD-PIN SINGLE QUICK CLAMP-ULNA-RADIUS	2
40524400002	8699931014297	UMEF ROD-PIN DOUBLE QUICK CLAMP-ULNA-RADIUS	2
40524200012	8699931014136	UMEF ROD-ROD QUICK CLAMP-ULNA-RADIUS	2
00000701400	8699931017250	UMEF HUMERUS/ULNA RADIUS 4.TRAY	1
00500160150	8699931017199	500X160X150 CONTAINER	1





ELBOW
FIXATOR

ELBOW FIXATOR



Elbow fixator is developed innovatively as unilateral low profile adjusting flexion/extension, making passive distraction and it is designed suitable especially for osteotomy, elbow injuries and stiff elbow.

Concentric hinge allows to continue the flexion and extension between 0 and 120° and provides surgical advantage and radiographic usages. The mobility (flexion/extension) of the fixation can be limited to the desired extent through special provided rooved rod .

Ulnar and humeral components with the feature of pin-to-bar, providing ability to fine tune for axial rotation and direction of hinge are placed in the system.

Through these features, it enables a desire level usage of bone schanz screw for ulna and humerus applications.

INSTALLATION



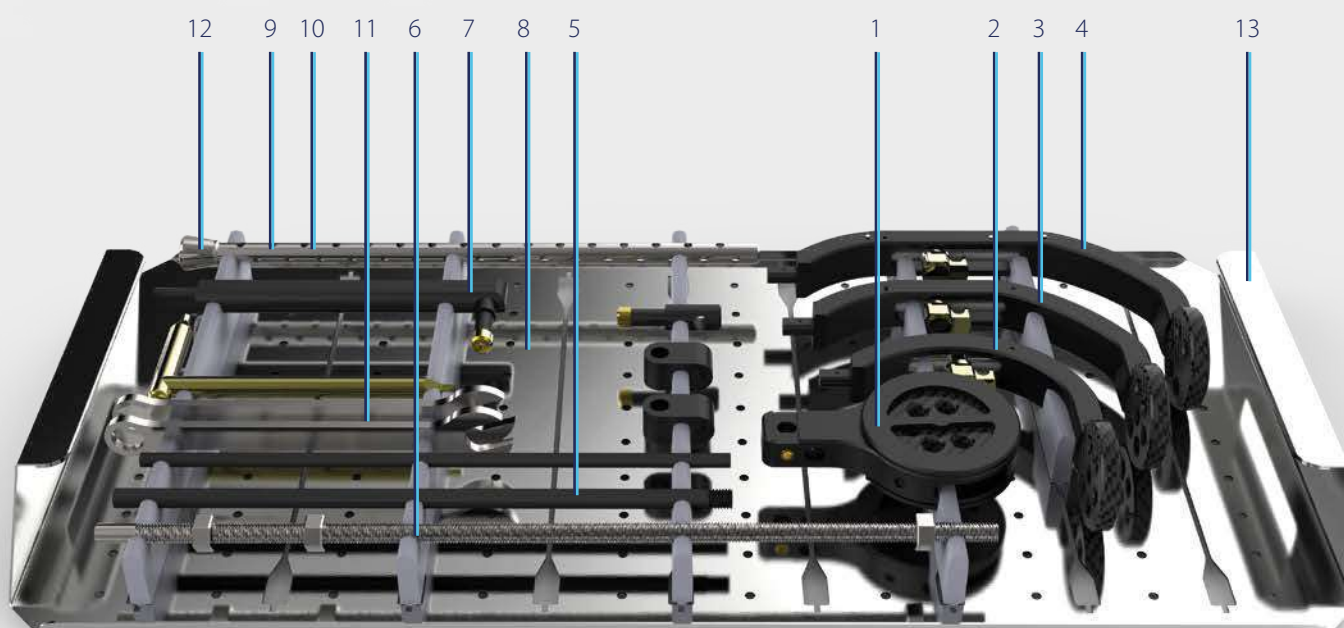
FIXED OF THE FLEXION / EXTENSION IMPLANT



ELBOW FIXATOR SET

	CODE	BARCODE	DESCRIPTION	QTY
1	45510000000	8680858426089	ELBOW LATERAL HINGE	1
2	45510300000	8680858426058	ELBOW MEDIAL HINGE SHORT	1
3	45510200000	8680858426065	ELBOW MEDIAL HINGE STANDARD	1
4	45510100000	8680858426072	ELBOW MEDIAL HINGE LONG	1
5	40880300000	8680858426119	HUMERUS ROD SHORT	1
	40880200000	8680858426126	HUMERUS ROD STANDARD	1
	40880100000	8680858426133	HUMERUS ROD LONG	1
6	45510000001	8680858426096	EXTANSION-FLEXION DEVICE	1
7	45540000005	8680858426102	EXTENSION-FLEXION ARM	1
8	04013005035	8699931017144	RATCHED L - ALLEN Ø3.5 - Ø5 MM	2
9	02055000105	8680858416370	ARTHROM T SCREW DRIVER Ø 5 MM	1
10	23410280120	8698673458475	KIRSCHNER WIRE TROCAR POINT 2X280 MM	5
11	08044000014	8699931015737	WRENCH Ø 13 MM	2
12	04551080310	8699931030815	K-WIRE TUBE Ø10XØ8X310 MM	1
13	00000401100	8699931023930	DESIGN TRAY 1. TRAY	
14	00560270150	8699931010275	CONTAINER 560X270X150 MM	

WARNING: IT IS USED WITH UMEF *HUMERUS-ULNA-RADIUS FIXATOR SET*.



UMEF HUMERUS-ULNA-RADIUS FIXATOR

CODE	BARCODE	DESCRIPTION	QTY
20920062003	8698673455306	SCHANZ PIN CORTICAL THREADED 3X20X60 MM	8
20920082003	8698673455313	SCHANZ PIN CORTICAL THREADED 3X20X80 MM	8
20920102503	8698673455320	SCHANZ PIN CORTICAL THREADED 3X25X100 MM	12
20921002003	8699931022018	SCHANZ PIN CORTICAL THREADED 3X20X120 MM	8
20920072004	8698673458741	SCHANZ PIN CORTICAL THREADED 4X20X70 MM	4
20920082004	8698673455337	SCHANZ PIN CORTICAL THREADED 4X20X80 MM	8
20920102004	8698673455344	SCHANZ PIN CORTICAL THREADED 4X20X100 MM	8
20920122504	8698673455368	SCHANZ PIN CORTICAL THREADED 4X25X120 MM	8
20921402504	8699931028607	SCHANZ PIN CORTICAL THREADED 4X25X140 MM	8
04100020044		PROTECTIVE CAP FOR 4 MM SCHANZ	10
04100020023		PROTECTIVE CAP FOR 2-3 MM SCHANZ	10
04051300003	8699931010138	UMEF SCHANZ GUIDE 3 MM	1
04051402003	8699931010121	UMEF SCHANZ GUIDE DOUBLE 3 MM	1
04051300004	8699931010107	UMEF SCHANZ GUIDE 4 MM	1
04051302004	8699931010114	UMEF SCHANZ GUIDE DOUBLE 4 MM	1
04051000103	8699931015775	UMEF 3 MM SCHANZ ADAPTOR FOR T-HANDLE	1
04051000105	8699931015768	UMEF 4 MM SCHANZ ADAPTOR FOR T-HANDLE	1
04051003040	8699931015751	UNIVERSAL QUICK T-HANDLE FOR 3-4 MM SCHANZ	1
00000701100	8699931017151	UMEF HUMERUS/ULNA RADIUS 1.TRAY	1

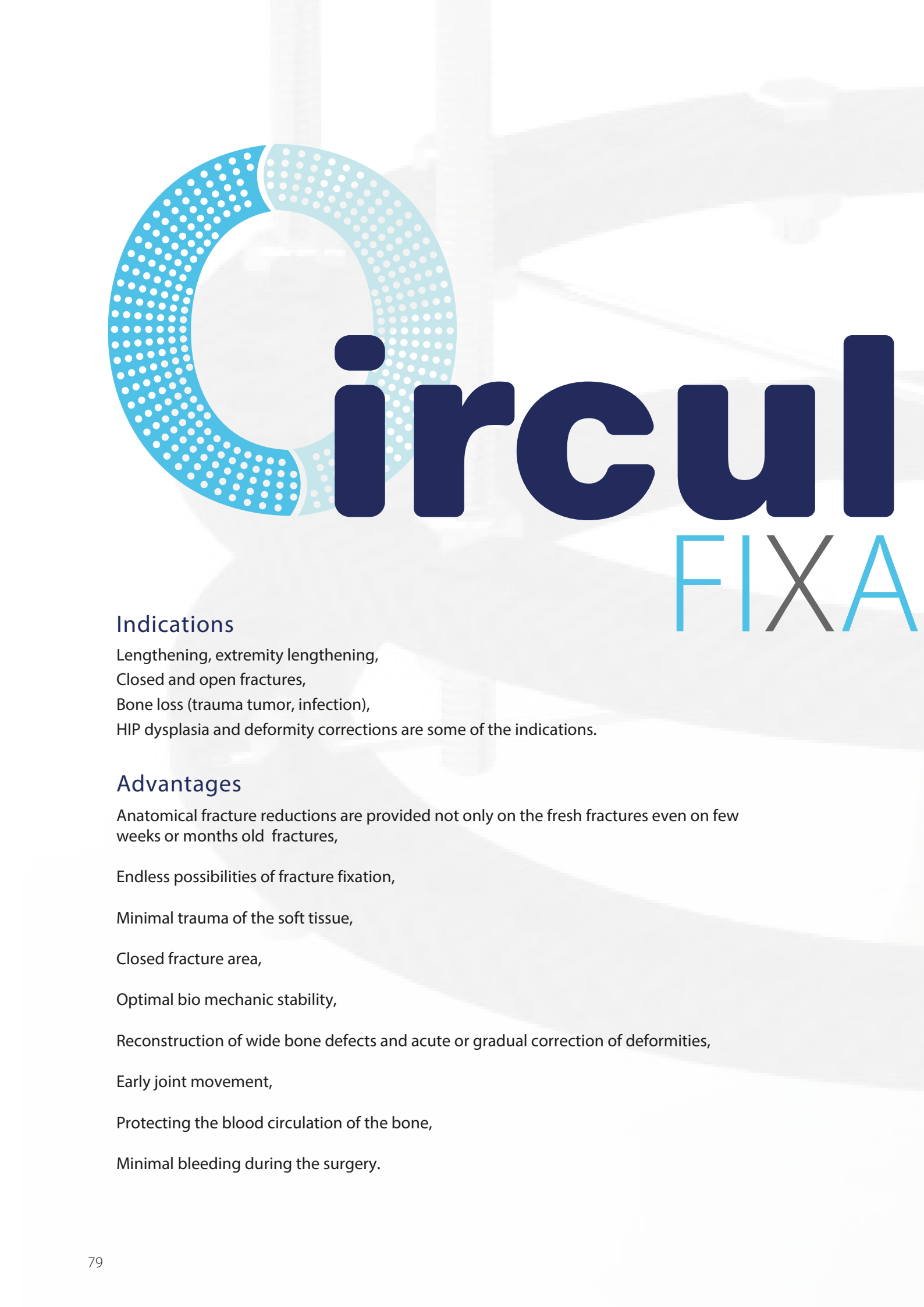
CODE	BARCODE	DESCRIPTION	QTY
40564106060	8698673468467	UMEF ULNA RADIUS ROD FIBER CARBON 6X60 MM	5
40564106120	8698673468429	UMEF ULNA RADIUS ROD FIBER CARBON 6X120 MM	5
40564106180	8699931004571	UMEF ULNA RADIUS ROD FIBER CARBON 6X180 MM	5
40564106240	8698673468443	UMEF ULNA RADIUS ROD FIBER CARBON 6X240 MM	5
23410300130	8698673453296	KIRSCHNER WIRE TROCER POINT 3X300	2
4051000001	8699931012811	UMEF HUMERUS C GUIDE	1
40520000000	8699931012828	UMEF HUMERUS DYNAMIC JOINT DISTRATOR	2
00000701200	8699931017168	UMEF HUMERUS/ULNA RADIUS 2.TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40563108060	8698673468313	UMEF HUMERUS ROD FIBER CARBON 8X60 MM	5
40563108120	8698673468276	UMEF HUMERUS ROD FIBER CARBON 8X120 MM	5
40563108180	8699931004557	UMEF HUMERUS ROD FIBER CARBON 8X180 MM	5
40563108240	8698673468290	UMEF HUMERUS ROD FIBER CARBON 8X240 MM	5
04050000009	8699931018028	WRENCH ANAHTAR 9MM	1
04051000035	8699931010145	UMEF T-SCREW DRIVER 3.5 MM	1
40524000001	8698673468412	UMEF ULNA RADIUS COMPR. DISTR.UNIT	1
40520300001	8699931018974	UMEF ULNA RADIUS COMPR. DISTR.UNIT(SHORT)	1
00000701300	8699931017175	UMEF HUMERUS 3.TRAY	1

CODE	BARCODE	DESCRIPTION	QTY
40523300001	8698673468382	UMEF HUMERUS ROD-PIN CLAMP SINGLE	5
40523300002	8698673468375	UMEF HUMERUS ROD-PIN CLAMP DOUBLE	5
40523200001	8698673468399	UMEF HUMERUS ROD-ROD CLAMP	5
40523300003	8699931014327	UMEF HUMERUS ROD-PIN SINGLE QUICK CLAMP	2
40523300004	8699931014334	UMEF HUMERUS ROD-PIN DOUBLE QUICK CLAMP	2
40523200021	8699931014181	UMEF HUMERUS ROD-ROD QUICK CLAMP	2
40523400003	8699931012019	UMEF HUMERUS-ULNA-RADIUS CONNECTION CLAMP	2
40524300001	8698673468535	UMEF ULNA-RADIUS ROD-PIN CLAMP SINGLE	5
40524300002	8698673468528	UMEF ULNA-RADIUS ROD-PIN CLAMP DOUBLE	5
40524200001	8698673468542	UMEF ULNA-RADIUS ROD-ROD CLAMP	5
40524400001	8699931014280	UMEF ROD-PIN SINGLE QUICK CLAMP-ULNA-RADIUS	2
40524400002	8699931014297	UMEF ROD-PIN DOUBLE QUICK CLAMP-ULNA-RADIUS	2
40524200012	8699931014136	UMEF ROD-ROD QUICK CLAMP-ULNA-RADIUS	2
00000701400	8699931017250	UMEF HUMERUS/ULNA RADIUS 4.TRAY	1
00000601300	8699931017182	3-4 MM SCHANZ BOX	1
00500160150	8699931017199	500X160X150 CONTAINER	1







circul FIXA

Indications

Lengthening, extremity lengthening,
Closed and open fractures,
Bone loss (trauma tumor, infection),
HIP dysplasia and deformity corrections are some of the indications.

Advantages

Anatomical fracture reductions are provided not only on the fresh fractures even on few weeks or months old fractures,

Endless possibilities of fracture fixation,

Minimal trauma of the soft tissue,

Closed fracture area,

Optimal bio mechanic stability,

Reconstruction of wide bone defects and acute or gradual correction of deformities,

Early joint movement,

Protecting the blood circulation of the bone,

Minimal bleeding during the surgery.

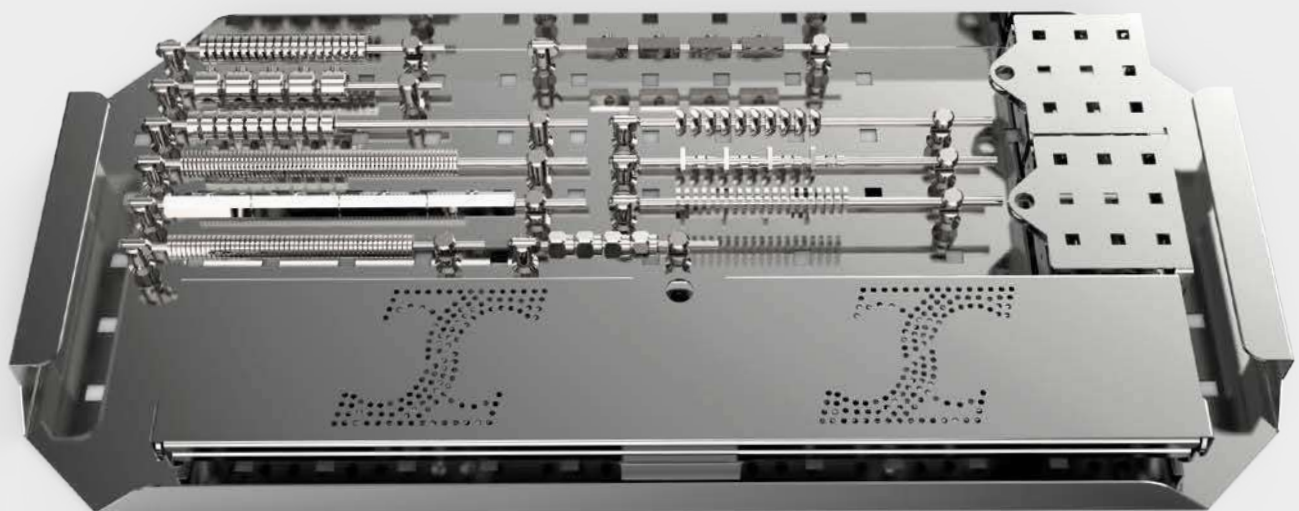
ar TOR



Please check the own catalog for detailed informations.

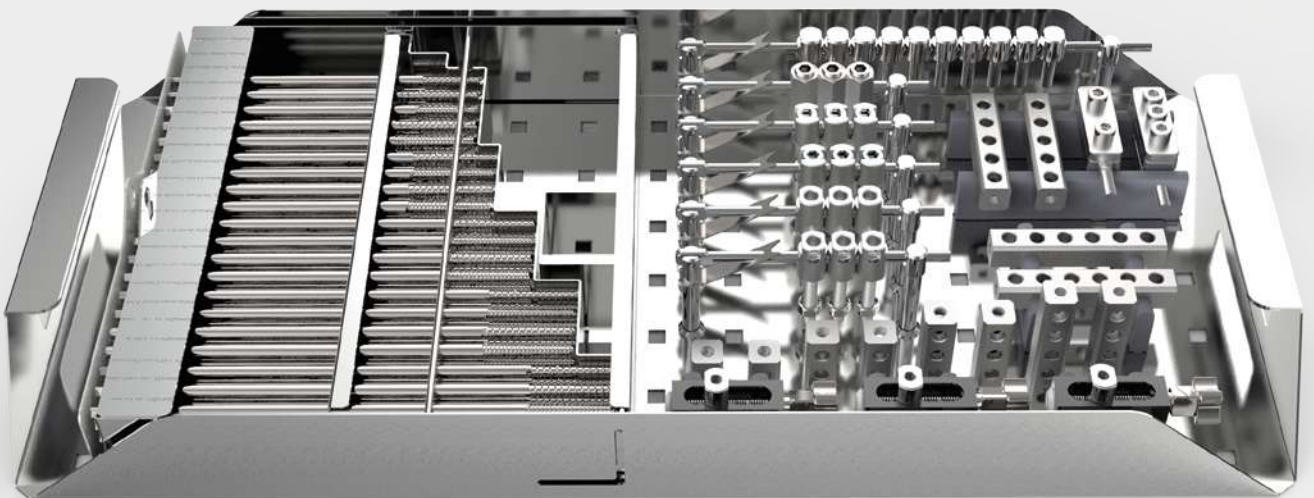
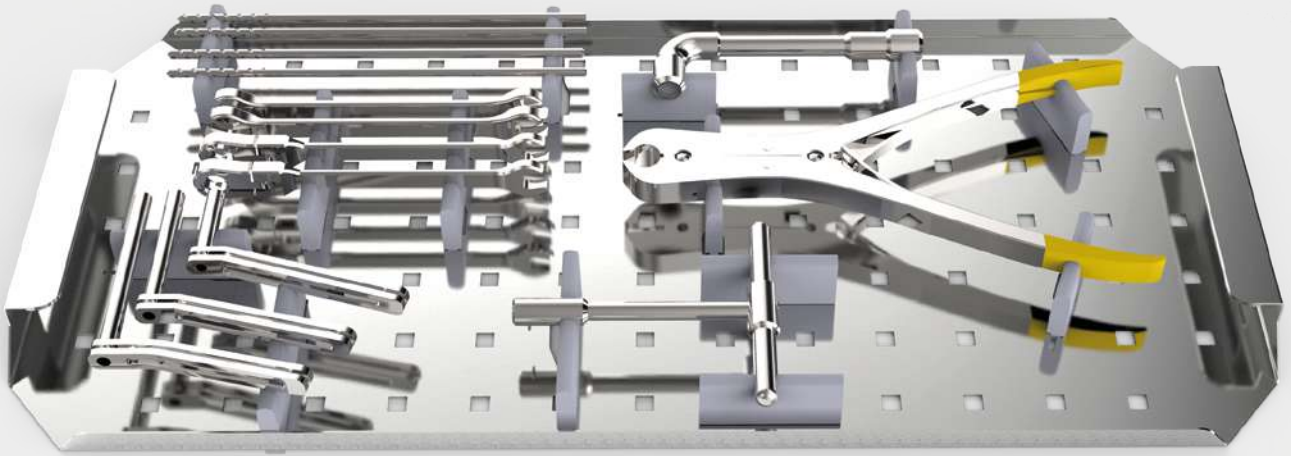
CIRCULAR EXTERNAL FIXATOR SET

CONTAINER 1



CODE	BARCODE	DESCRIPTION	QTY
00000602100	8699931024081	1.DESIGN TRAY 545X255X45 mm	1
50140000008	8698673452121	HALFRING (AL. ALLOY)80 MM	8
50140000010	8698673452138	HALFRING (AL. ALLOY) 100 MM	8
50140000012	8698673452152	HALFRING (AL. ALLOY) 120 MM	8
50140000014	8698673452176	HALFRING (AL. ALLOY) 140 MM	8
50140000016	8698673452190	HALFRING (AL. ALLOY) 160 MM	8
50140000018	8698673452213	HALFRING (AL. ALLOY) 180 MM	8
50140000020	8698673452220	HALFRING (AL. ALLOY) 200 MM	8
50140000022	8698673452237	HALFRING (AL. ALLOY) 220 MM	8
50240000080	8698673450011	5\8 C RING AL. ALLOY 80 MM	1
50240000010	8698673450028	5\8 C RING AL. ALLOY 100 MM	1
50240000012	8698673450042	5\8 C RING AL. ALLOY 120 MM	1
50240000014	8698673450066	5\8 C RING AL. ALLOY 140 MM	1
50240000016	8698673450080	5\8 C RING AL. ALLOY 160 MM	1
50240000018	8698673450103	5\8 C RING AL. ALLOY 180 MM	1
50240000020	8698673450110	5\8 C RING AL. ALLOY 200 MM	1
50240000022	8698673450127	5\8 C RING AL. ALLOY 220 MM	1

CODE	BARCODE	DESCRIPTION	QTY
00000602200	8699931024098	2. DESIGN TRAY 545X255X35 mm	1
51850000106	8698673453692	NUT	100
51750000206	8698673454200	TEFLON NUT M6	80
52650000200	8698673456969	UNIVERSAL HALF HINGE	4
52650000300	8698673453678	MULTIPLE ANGLED UNIVERSAL HALF HINGE	4
51750000716	8698673450912	CONICAL COUPLE	20
51750000616	8698673450929	CONICAL WASHER	20
51750000216	8698673456983	WASHER	100
51750000116	8698673453876	SERRATED WASHER	70
51850000506	8698673453845	SCHANZ ADAPTOR 6 MM	5
51750000416	8698673454019	SPECIAL WASHER	20
51750000516	8698673453982	SLOTTED WASHER	20
52750000002	8698673450639	BUSHING	5
52750200001	8698673454378	THREADED SOCKETS	4
52750200011	8698673454385	THREADED SOCKETS LONG	4
51850000406	8698673453838	QUADRAGONAL NUT	4
52150120006	8698673450295	BOLT M6 12 MM	50
52150160006	8698673450301	BOLT M6 16 MM	50
52150200006	8698673450318	BOLT M6 20 MM	50

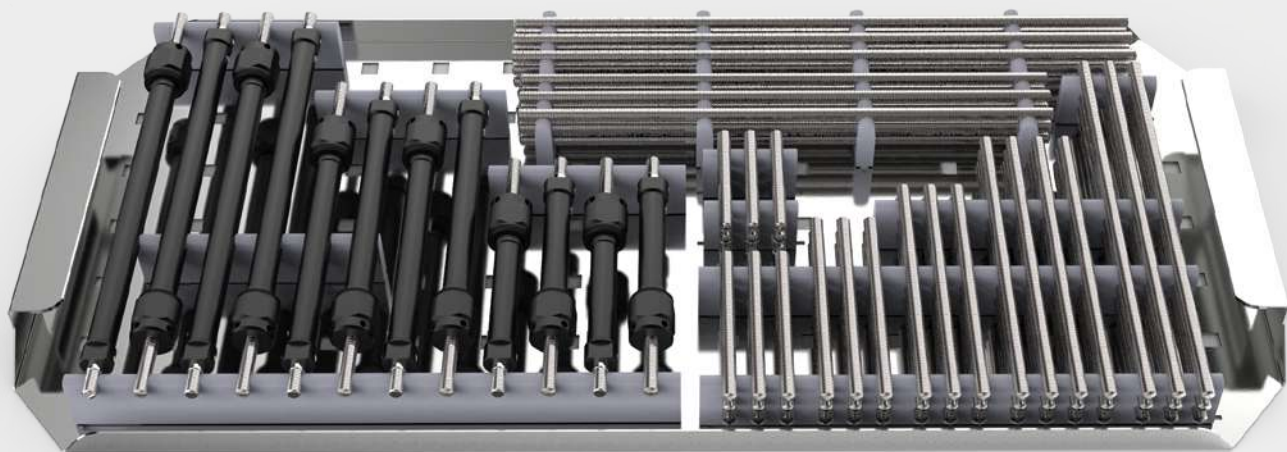


CODE	BARCODE	DESCRIPTION	QTY
00000602300	8699931024104	3. DESIGN TRAY 545X255X45 mm	1
22310200032	8698673450455	BONE DRILL 3.2 X 200 MM	2
22310200045	8698673450493	BONE DRILL 4.5 X 200 MM	2
03550020032	8680858408658	FEMUR & TIBIA FIX. DRILL SLEEVE Ø 3.2 X 200 MM	1
03550020045	8680858408665	FEMUR & TIBIA FIX. DRILL SLEEVE Ø 4.5 X 200 MM	1
04025000030	8698673490666	FEMUR & TIBIA FIX. SCHANZ GUIDE Ø 5 MM	1
04025000020	8698673490680	FEMUR & TIBIA FIX. SCHANZ GUIDE Ø 6 MM	1
04013005035	8699931017144	RATCHED L - ALLEN Ø3.5 - Ø5 MM	2
04015000025	8699931010725	ALLEN WRENCH Ø 2.5 MM	1
05005030061	8698673493469	WRENCH Ø 10 MM	2
05005030062	8698673495135	L-WRENCH	1
02345020000	8698673493506	WIRE CUTTER	1
04015000600	8698673492523	5-6 MM UNIVERSAL SCHANZ T-HANDLE	1

CODE	BARCODE	DESCRIPTION	QTY
00000602800	8699931017779	4. DESIGN TRAY 545X255X60 mm	1
52050009005	8698673454507	TRANSLATION ROTATION BLOK	3
51950000701	8698673452053	HALFPIN SUPPORTING CUBES 1 HOLES	2
51950000702	8698673452060	HALFPIN SUPPORTING CUBES 2 HOLES	2
51950000703	8698673452077	HALFPIN SUPPORTING CUBES 3 HOLES	2
51950000704	8698673452084	HALFPIN SUPPORTING CUBES 4 HOLES	2
51950000705	8699931012408	HALFPIN SUPPORTING CUBES 5 HOLES	2
51950000706	8699931013504	HALFPIN SUPPORTING CUBES 6 HOLES	2
51950000100	8698673453685	MULTIPLE PIN FIXATION BOLT	1
51950000200	8698673456976	UNIVERSAL PIN FIXATION BOLT WITH FOUR	1
52051004000	8699931006452	TRANS-ANGLED PIN FIXATION BOLT (40 MM THREADED)	3
52052000040	8699931020403	TRANS-ANGLED PIN FIXATION BOLT (40 MM POLYGONAL)	3
41511000040	8699931013511	POLIAXIAL PIN FIXATION BOLT (40 MM THREADED)	3
41512000040	8699931012422	POLIAXIAL PIN FIXATION BOLT (40 MM POLYGONAL)	3
51950000600	8698673452091	HEXAGONAL PIN FIXATOR BOLTE SINGLE	3
51950000500	8698673453999	SPECIAL PIN FIXATOR BOLT SERRATED	10
21010153005	8698673454866	SCHANZ PIN CANCEL. THRD. 5X30X150	5
21010504005	8698673454873	SCHANZ PIN CANCEL. THRD. 5X40X150	5
21010804005	8698673454880	SCHANZ PIN CANCEL. THRD. 5X40X180	5
21010154006	8698673425002	SCHANZ PIN CANCEL. THRD. 5X40X160	5
21012004005	8698673454897	SCHANZ PIN CANCEL. THRD. 5X40X200	5
21010224005	8698673454903	SCHANZ PIN CANCEL. THRD. 5X40X220	5
20910150205	8699931024937	SCHANZ PIN 5X20X150 MM	5
20910160205	8699931024944	SCHANZ PIN 5X20X160 MM	5
20910180205	8699931024951	SCHANZ PIN 5X20X180 MM	5
20910204005	8698673456228	SCHANZ PIN 5X40X200 MM	5
21011502006	8699931013917	SCHANZ PIN 6X20X150 MM	5
21011602006	8699931013924	SCHANZ PIN 6X20X160 MM	5
21011802006	8699931013931	SCHANZ PIN 6X20X180 MM	5
21010504006	8698673454989	SCHANZ PIN CANCEL. THRD. 6X40X150	5
21010604006	8698673457195	SCHANZ PIN CANCEL. THRD. 6X40X160	5
21010804006	8698673454996	SCHANZ PIN CANCEL. THRD. 6X40X180	5
21012004006	8698673455009	SCHANZ PIN CANCEL. THRD. 6X40X200	5
21012204006	8698673455016	SCHANZ PIN CANCEL. THRD. 6X40X220	5
20910204006	8698673458581	SCHANZ PIN CORT.TH RD. 6X40X200	5
20910224006	8698673456341	SCHANZ PIN CORT.TH RD. 6X40X220	5

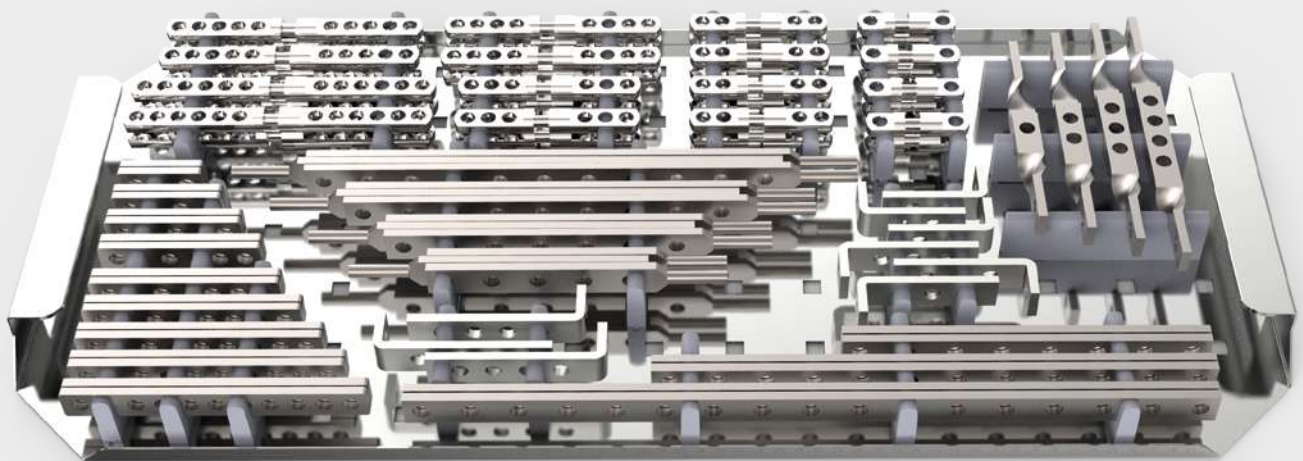
CIRCULAR EXTERNAL FIXATOR SET

CONTAINER 2



CODE	BARCODE	DESCRIPTION	QTY
00000601700	8699931024067	1. DESIGN TRAY 545X255X30 mm	1
50840500000	8698673454262	TELESCOPIC RODS 50 MM	4
50840100000	8698673454217	TELESCOPIC RODS 100 MM	4
50840150000	8698673454231	TELESCOPIC RODS 150 MM	4
50550300006	8698673454361	THREADED ROD 300 MM	9
50550250006	8698673454354	THREADED ROD 250 MM	9
50550200006	8698673454347	THREADED ROD 200 MM	9
50550150006	8698673454330	THREADED ROD 150 MM	12
50550120006	8698673454316	THREADED ROD 120 MM	9
50550100006	8698673454309	THREADED ROD 100 MM	9
50550080006	8698673454293	THREADED ROD 80 MM	9
50550060006	8698673454286	THREADED ROD 60 MM	9

CODE	BARCODE	DESCRIPTION	QTY
00000601600	8699931024050	2. DESIGN TRAY 545X255X30 mm	1
52550000001	8698673453609	MALE SUPPORT 1 HOLE (HALF HINGE)	8
52550000002	8698673453616	MALE SUPPORT 2 HOLES	8
52550000003	8698673453623	MALE SUPPORT 3 HOLES	4
52550000004	8698673453630	MALE SUPPORT 4 HOLES	4
52550000005	8699931012620	MALE SUPPORT 5 HOLES	4
52550000006	8699931012637	MALE SUPPORT 6 HOLES	4
52650000001	8698673451711	FEMALE SUPPORT 1 HOLE (HALF HINGE)	8
52650000002	8698673451728	FEMALE SUPPORT 2 HOLES	8
52650000003	8698673451735	FEMALE SUPPORT 3 HOLES	4
52650000004	8698673451742	FEMALE SUPPORT 4 HOLES	4
52650000005	8699931012644	FEMALE SUPPORT 5 HOLES	4
52650000006	8699931013528	FEMALE SUPPORT 6 HOLES	4
50950380002	8698673450943	CONNECTION PLATE 2 HOLES	2
50950490003	8698673450950	CONNECTION PLATE 3 HOLES	2
50950600004	8698673450967	CONNECTION PLATE 4 HOLES	2
50950710005	8698673450974	CONNECTION PLATE 5 HOLES	2
50950820006	8698673450981	CONNECTION PLATE 6 HOLES	2
50950930007	8698673450998	CONNECTION PLATE 7 HOLES	2
50951040008	8698673451001	CONNECTION PLATE 8 HOLES	2
50951150009	8698673451018	CONNECTION PLATE 9 HOLES	2
50951260010	8698673450936	CONNECTION PLATE 10 HOLES	2
51151310005	8698673451124	CONNECTION PLATES WITH THREADED END 5 HOLES	3
51151710007	8698673451131	CONNECTION PLATES WITH THREADED END 7 HOLES	3
51152110009	8698673451148	CONNECTION PLATES WITH THREADED END 9 HOLES	3
51152510011	8698673451117	CONNECTION PLATES WITH THREADED END 11 HOLES	3
51350450012	8698673453470	L PLAK 1 X 2 HOLES	3
51350700013	8698673453487	L PLAK 1 X 3 HOLES	3
51350700014	8698673453494	L PLAK 1 X 4 HOLES	3
51450250001	8698673456921	TWISTED PLATES 1 HOLE	2
51450460002	8698673456938	TWISTED PLATES 2 HOLES	2
51450670003	8698673456945	TWISTED PLATES 3 HOLES	2
51450880004	8698673456952	TWISTED PLATES 4 HOLES	2
51051590008	8698673453586	LONG CONNECTION PLATES 8 HOLES	2
51052360012	8698673453548	LONG CONNECTION PLATES 12 HOLES	2
51053360017	8698673453555	LONG CONNECTION PLATES 17 HOLES	2



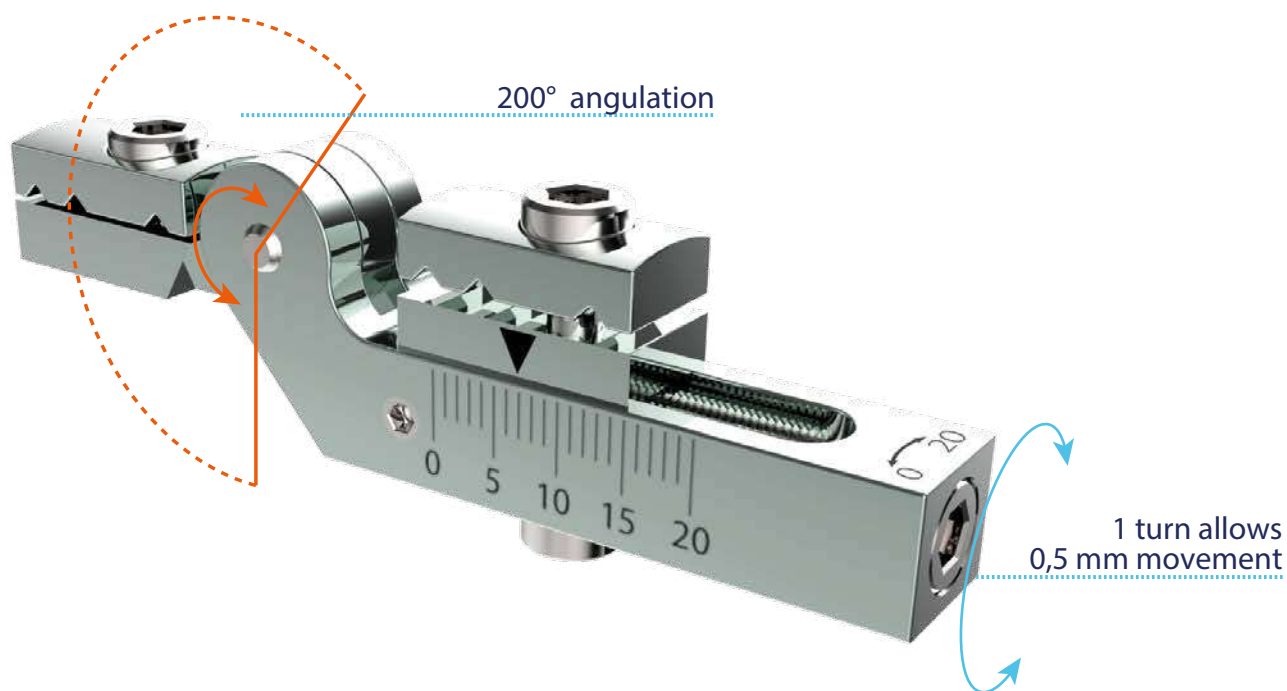
CODE	BARCODE	DESCRIPTION	QTY
00000601500	8699931021790	3. DESIGN TRAY 545X255X65 mm	1
50160000010	8698673452251	HALFRING (FIBER CARBON) 100 MM	8
50160000012	8698673452268	HALFRING (FIBER CARBON) 120 MM	8
50160000014	8698673452282	HALFRING (FIBER CARBON) 140 MM	8
50160000016	8698673452305	HALFRING (FIBER CARBON) 160 MM	8
50160000018	8698673452329	HALFRING (FIBER CARBON) 180 MM	8
50160000020	8698673452336	HALFRING (FIBER CARBON) 200 MM	8
50160000022	8698673452343	HALFRING (FIBER CARBON) 220 MM	8
50160000024	8698673452350	HALFRING (FIBER CARBON) 240 MM	8
50260000010	8698673450141	5\8 C RING CARBON FIBER 100 MM	1
50260000012	8698673450158	5\8 C RING CARBON FIBER 120 MM	1
50260000014	8698673450165	5\8 C RING CARBON FIBER 140 MM	1
50260000016	8698673450172	5\8 C RING CARBON FIBER 160 MM	1
50260000018	8698673450189	5\8 C RING CARBON FIBER 180 MM	1
50260000020	8698673450196	5\8 C RING CARBON FIBER 200 MM	1
50260000022	8698673450202	5\8 C RING CARBON FIBER 220 MM	1
50260000024	8699931014310	5\8 C RING CARBON FIBER 240 MM	1

CODE	BARCODE	DESCRIPTION	QTY
00000601400	8699931021783	4. DESIGN TRAY 545X255X45 mm	1
51250000012	8699931012675	OBLIQUE SUPPORT CONNECTOR XLONG	4
51250000002	8698673453708	OBLIQUE SUPPORT CONNECTOR LONG	4
51250000003	8698673453722	OBLIQUE SUPPORT CONNECTOR MEDIUM	4
51250000001	8698673453715	OBLIQUE SUPPORT CONNECTOR SHORT	4
50450600020	8699931012682	FEMORAL ARCHES 60° X 200 MM	1
50450900020	8698673451810	FEMORAL ARCHES 90° X 200 MM	1
50451200020	8698673451773	FEMORAL ARCHES 120° X 200 MM	1
50450600025	8699931012699	FEMORAL ARCHES 60° X 250 MM	1
50450900025	8698673451827	FEMORAL ARCHES 90° X 250 MM	1
50451200025	8698673451780	FEMORAL ARCHES 120° X 250 MM	1
05005010020	8698673493483	WIRE TENSIONER SIMPLE	1
05005010030	8698673496972	CYLINDER TENSIONER	1
52210400220	8698673450288	KIRSHNER WIRE 2 X 400 MM	20
52210400218	8698673450264	KIRSHNER WIRE 1.8 X 400 MM	20
52310400018	8698673453760	OLÍVLI KIRSHNER WIRE 1.8 X 400	10
08050000011	8698673496507	400 MM S.S SURGICAL RULER	1
51950000901	8698673411913	CANNULATED BOLT WIRE FIXATION	50
51950000902	8698673453906	SLOTTED BOLT WIRE FIXATION	30
00560270200	8699931024746	CONTAINER 560X270X200 MM	2





mini
FIXATOR

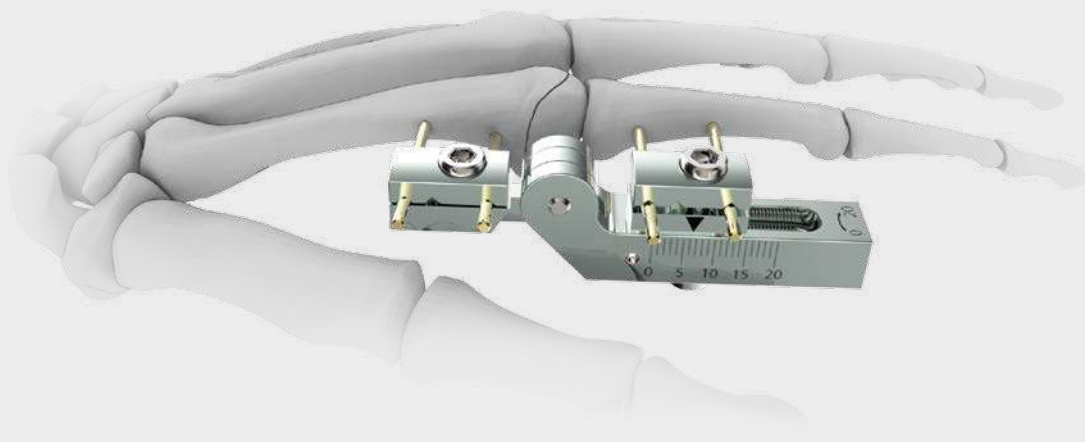


FINGER MANDIBULAR FIXATOR JOINT

It is a jointed clamp forming horizontal hinge structure, and it is capable of the compression and distraction. 200° angulations.

Distraction-compression screw provides 0.5mm movement when it is completed a full tour.

There is a scale on the fixator providing control of distraction and compression.



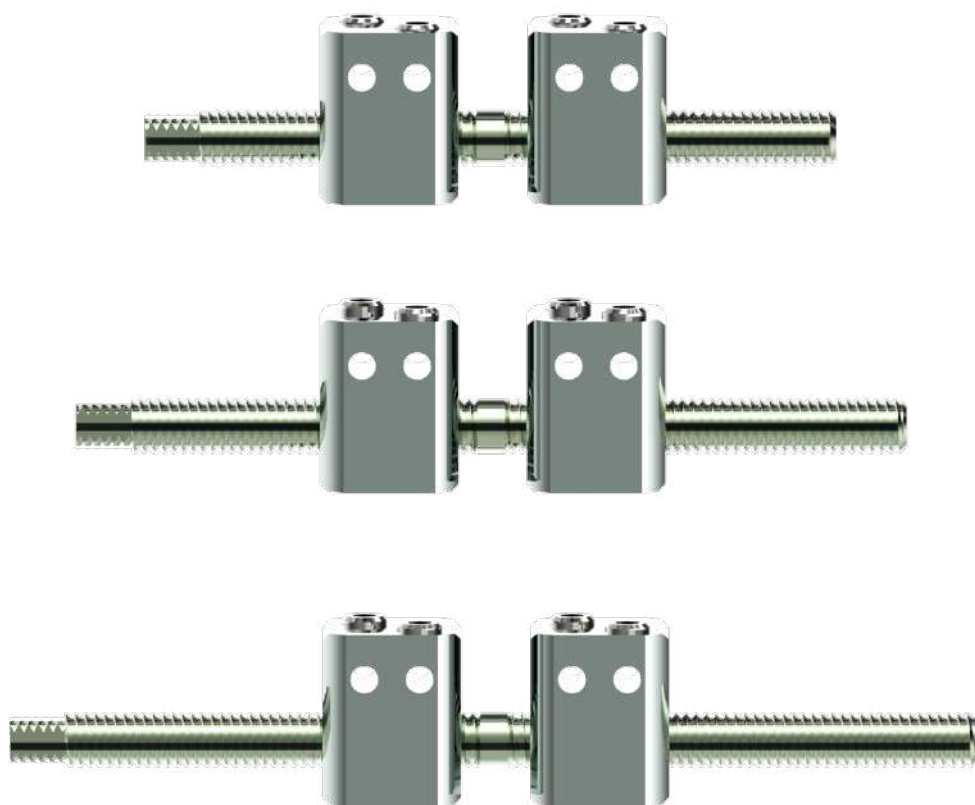
CAT. CODE
41141020100

BARCODE
8698673456655

DESCRIPTION
FINGER AND MANDIBULA FIXATOR JOINT

TYPE
JOINT

LENGTH (mm)
60

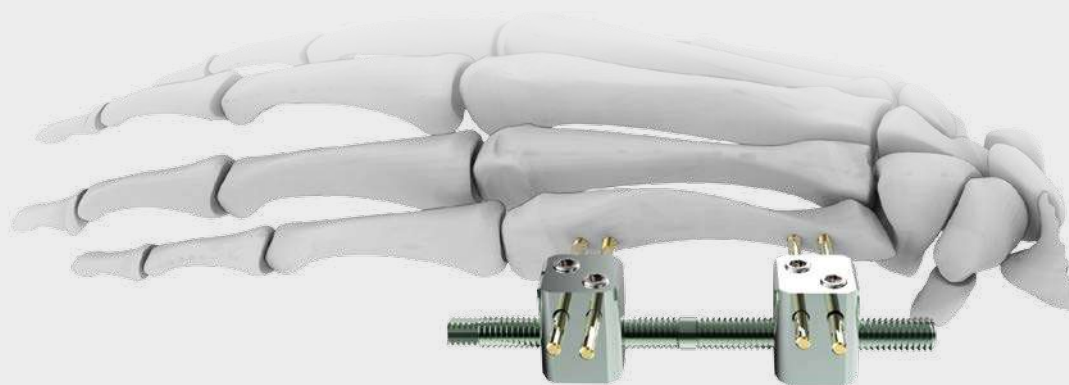


FINGER MANDIBULAR FIXATOR

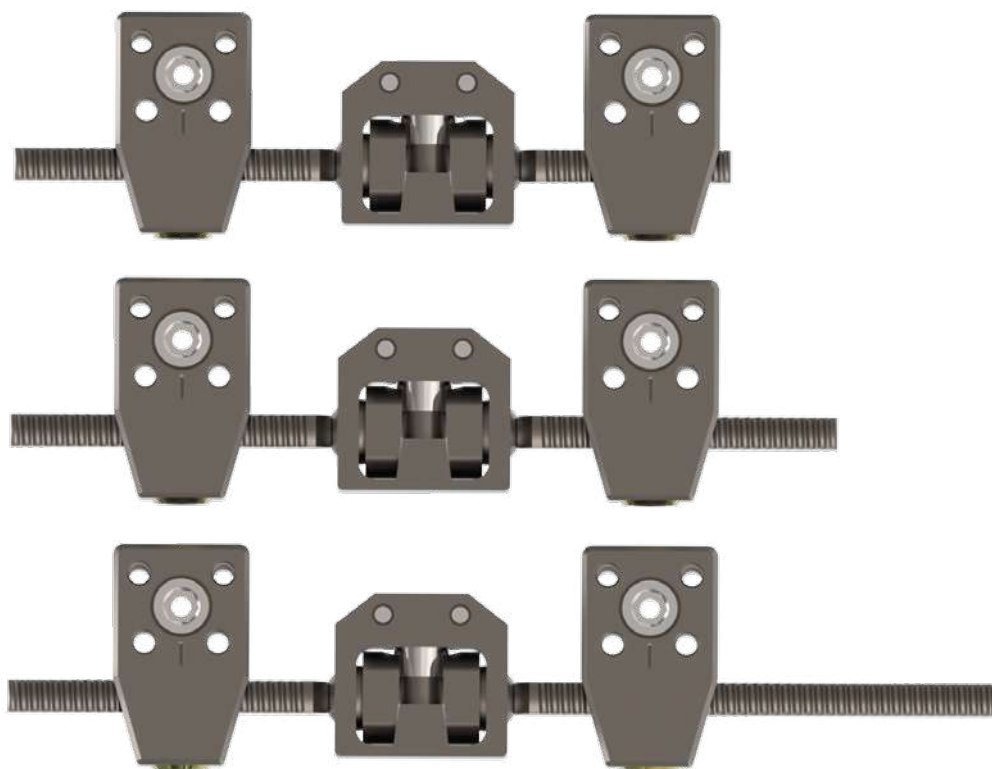
Consisting of two or three clamps which mobilizes integrated with threaded bar.

Compression and distraction movement is obtained after the fixing the clamps by turning the fixator bar with key holders.

Fixator bar provides 1.5 mm movement between clamps when it is swivelled a full tour.



CAT. CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
41140030100	8698673456679	FINGER AND MANDIBULA FIXATOR SHORT	SHORT	50
41140020100	8698673456686	FINGER AND MANDIBULA FIXATOR STANDART	STANDARD	60
41140010100	8698673456662	FINGER AND MANDIBULA FIXATOR LONG	LONG	70

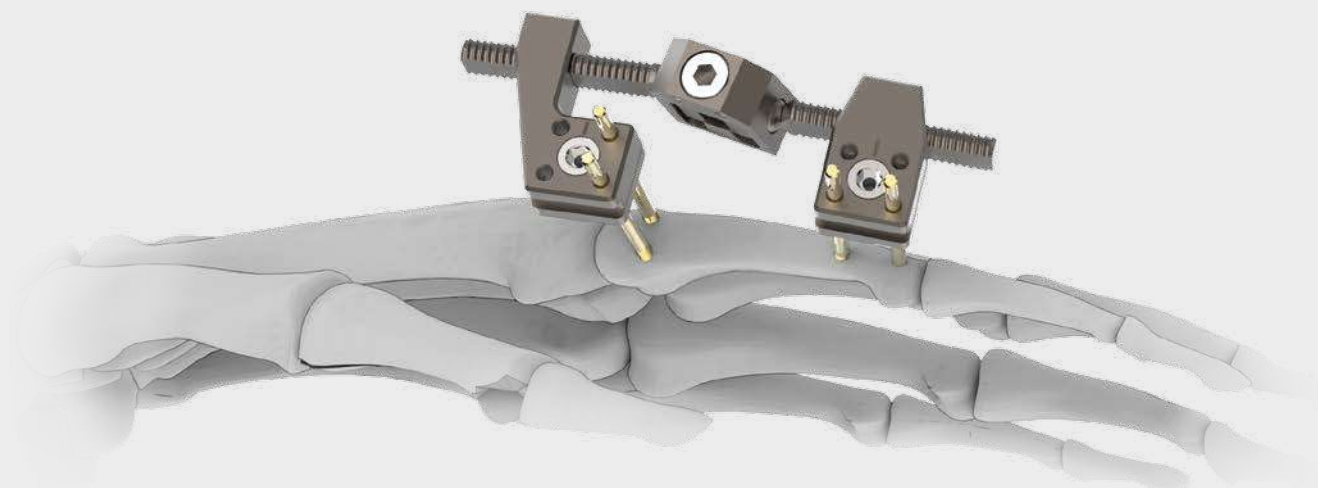


MINI FIXATOR

Mini fixator consists of two bars fixed with the moving body and clamps forwarding on the threads of these bars with the DC discs.

It is applicable even in confined spaces and enables to send schanz screws parallel to the articular surface under favour of its innovative design.

CAT. CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
42020030001	8680858406685	MINI FIXATOR SHORT	SHORT	65
42020020001	8680858406678	MINI FIXATOR STANDARD	STANDARD	75
42020010001	8680858406661	MINI FIXATOR LONG	LONG	90





MINI FIXATOR LENGTHENING BAR

Mini fixator extension bar is used for bone extension and transport.

It has three different lengths (80-100-120mm).

It is typically used with two schanz screws but third schanz screw can be used to increase stability especially in osteoporotic and metatarsal bones.

Extension bars are used with standard and/or L-clamp and spacer.

One side of the spacer which is designed compatible with the clamp edge sections is angular and the other side of it is flat.

DC nut is applied in a way that it touches the flat side of spacer by positioning standard clamp in contact with side.

Thus, full surface contact is provided between the DC nut and the standard clamp during distraction.

There is no need for a connector / spacer if the distraction will be done using the T-clamp.

These processes must be done before fitting the second clamp in either situations.

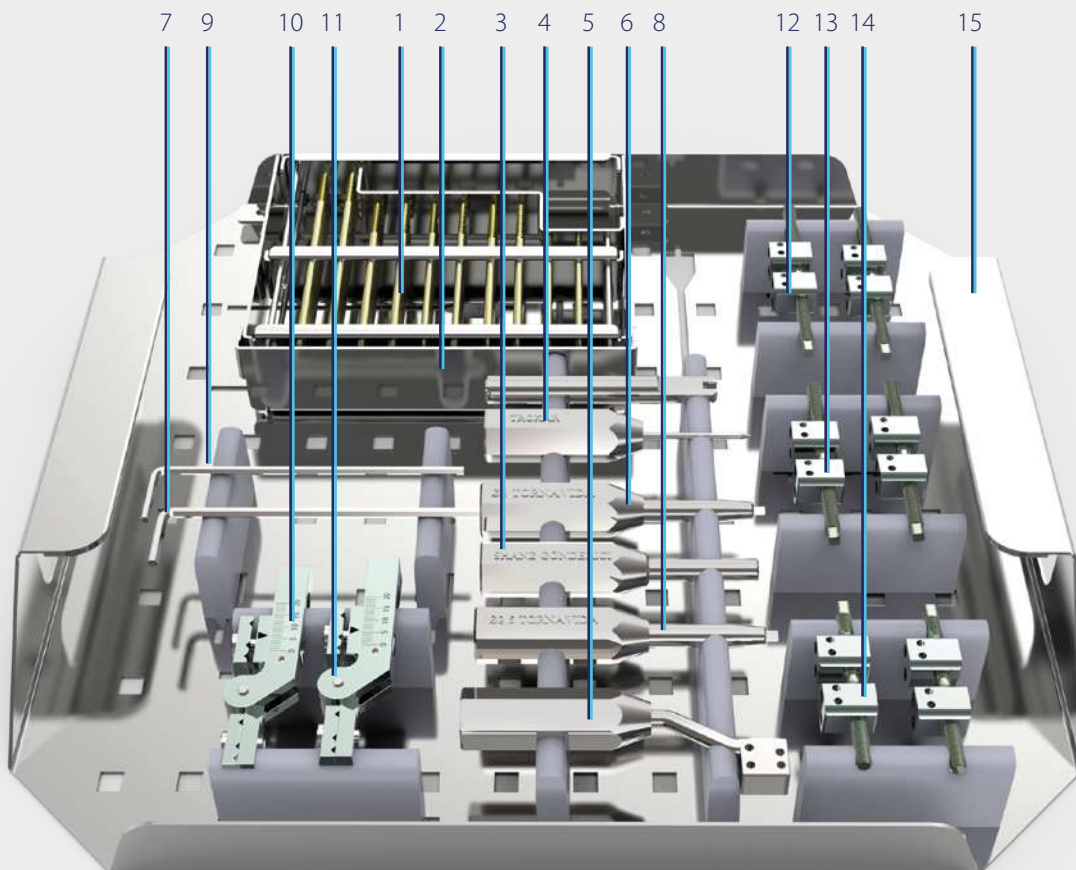
DC nut moves 1 mm when it is turned a full tour.



CAT. CODE	BARCODE	DESCRIPTION	TYPE	LENGTH (mm)
42020030004	8680858406739	MINI FIXATOR LENGTHENING BAR	SHORT	80
42020020004	8680858406722	MINI FIXATOR LENGTHENING BAR	STANDARD	100
42020010004	8680858406715	MINI FIXATOR LENGTHENING BAR	LONG	120
42020020002	8680858406692	MINI FIXATOR CLAMPS	STANDARD	
42026000003	8680858417018	MINI FIXATOR L-CLAMPS	LEFT	
42020000003	8680858406708	MINI FIXATOR L-CLAMPS	RIGHT	

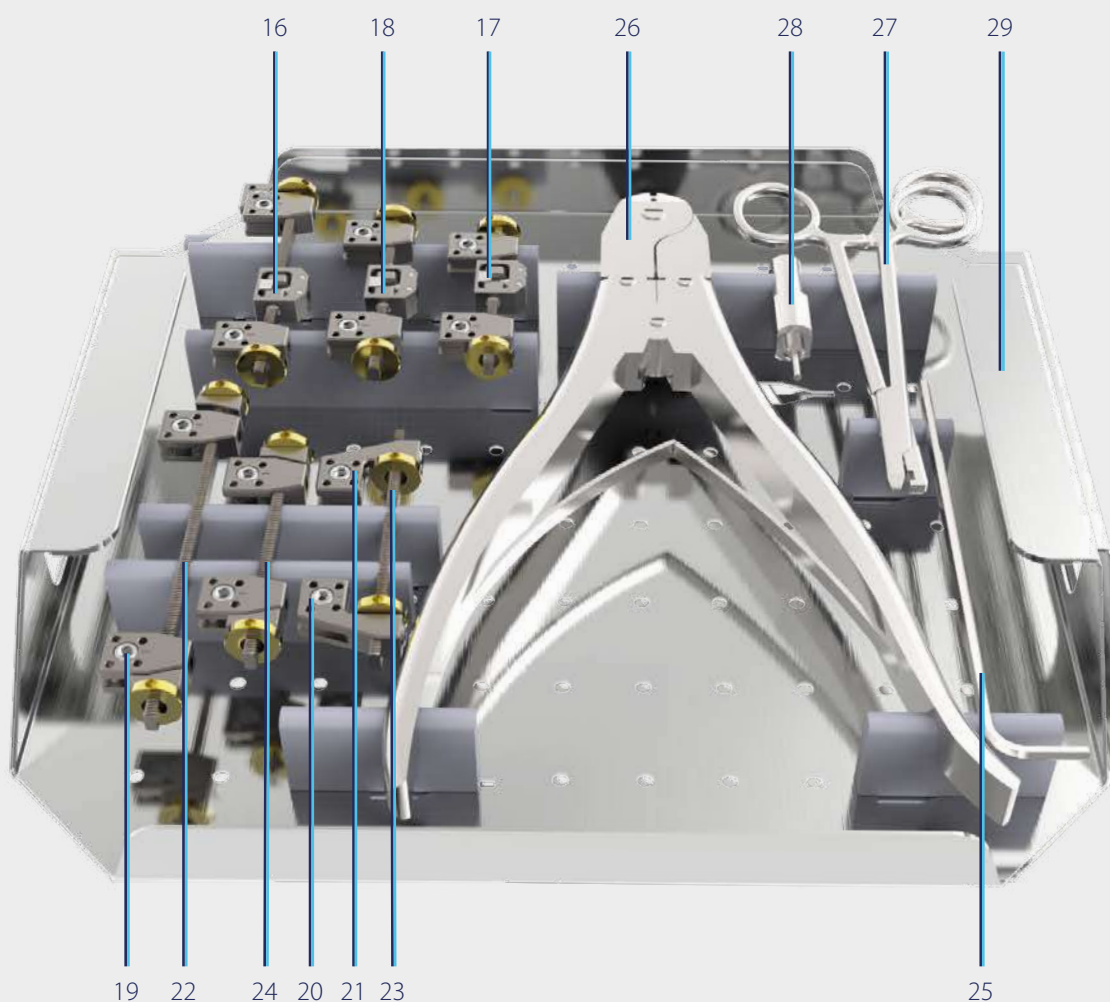
MINI FIXATOR SET

NO	CODE	BARCODE	DESCRIPTION	QTY
1	04551000110	8699931032581	K-WIRE TUBE Ø10XØ8X110 MM	4
2	20920061502	8698673455283	DAF SCHANZ PIN CORT.THRD.(TI) 2X15X60	10
	20920081502	8699931012590	DAF SCHANZ PIN CORT.THRD.(TI) 2X15X80	10
	20920101502	8699931012606	DAF SCHANZ PIN CORT.THRD.(TI) 2X15X100	10
3	04015000201	8698673493056	SCHANZ DRIVER Ø 2 MM	1
4	04015000010	8699931005318	TROCAR	1
5	08090000001	8699931003536	DRILL SCHANZ GUIDE	1
6	08040000020	8699931017823	SCREW DRIVER (TORNAVIDA) Ø 2 MM	1
7	04015000020	8699931015430	ALLEN WRENCH Ø 2 MM	2
8	08040000125	8698673494428	SCREW DRIVER Ø 2.5 MM	1
9	04015000025	8699931010725	ALLEN WRENCH Ø 2.5 MM	2
10	41141020100	8698673456655	FINGER AND MANDIBULA FIXATOR JOINT	2
11	41140020100	8698673456686	FINGER AND MANDIBULA FIXATOR STANDART	2
12	41140010100	8698673456662	FINGER AND MANDIBULA FIXATOR LONG	2
13	41140030100	8698673456679	FINGER AND MANDIBULA FIXATOR SHORT	2
14	04114000000	8698673479654	MANDIBULAR FIXATOR TIGHTENING WRENCH	1
15	00000603100	8699931024111	FINGER FIXATOR DESIGN TRAY	1



NO	CODE	BARCODE	DESCRIPTION	QTY
16	42020010001	8680858406661	MINI FIXATOR LONG	1
17	42020030001	8680858406685	MINI FIXATOR SHORT	1
18	42020020001	8680858406678	MINI FIXATOR STANDARD	1
19	42020020002	8680858406692	MINI FIXATOR STANDARD CLAMPS	10
20	42026000003	8680858417018	MINI FIXATOR L-CLAMPS LEFT	1
21	42020000003	8680858406708	MINI FIXATOR L-CLAMPS RIGHT	1
22	42020010004	8680858406715	MINI FIXATOR LENGTHENING BAR LONG	1
23	42020030004	8680858406739	MINI FIXATOR LENGTHENING BAR SHORT	1
24	42020020004	8680858406722	MINI FIXATOR LENGTHENING BAR STANDARD	1
25	04015000030	8698673490048	ALLEN WRENCH Ø 3 MM	2
26	02345020000	8698673493506	PLATE-WIRE CUTTER UP TO Ø 3 MM	1
27	02060000100	8680858409198	MINI FIXATOR REDUCTION FORCEPS	2
28	02060000200	8680858409204	PIN EXTRACTOR - NUT WRENCH	1
29	00000603300	8680858409211	MINI FIXATOR DESIGN TRAY	1
30	00270270070	8699931009019	CONTAINER 270X270X80 MM	1

Please check the own catalog for detailed informations.



HYBRID CLAMPS

Hybrid fixator is not a special fixator system. It is formed by the combination of two separate fixators. Ilizarov ring is assembled to DAF, UMEF and MAMEF fixator systems by special designed clamps. Hibrid fiksatorler tek bir sistemden oluşmamaktadır. DAF, UMEF ve MAMEF sistemlerinin özel tasarlanmış bağlantı clampleri ile ilizarov çemberlerinin birleştirilmesinden oluşur.

MAMEF HYBRID CLAMP

MAMEF Ring Connection Unit

It allows to connect MAMEF system to Ilizarov rings.



CODE	BARCODE	DESCRIPTION
41580000000	8699931021608	MAMEF & RING CONNECTION UNIT

DAF HYBRID CLAMP

DAF Hybrid Connection Clamps

It allows to connect DAF system to Ilizarov rings.



CODE	BARCODE	DESCRIPTION
40140020300	8698673452114	HIBRIT CONNECTION CLAMP
40140020400	8699931010091	HIBRIT CONNECTION CLAMP HUMERUS

UMEF HYBRID CLAMP

UMEF Rod-Ring Connection Units

It allows to connect UMEF system to Ilizarov rings.



CODE	BARCODE	DESCRIPTION
40529100030	8680858405398	UMEF FEMUR ROD-RING CONNECTION UNIT LONG
40529300010	8680858405404	UMEF FEMUR ROD-RING CONNECTION UNIT SHORT
40520300010	8680858405374	UMEF TIBIA ROD-RING CONNECTION UNIT SHORT
40520100030	8680858405381	UMEF TIBIA ROD-RING CONNECTION UNIT LONG

SCHANZ SCREWS

STEEL CORTICAL



CODE	BARCODE	SIZE
20910601002	8698673455788	2X10X60
20911001502	8699931030365	2X15X100
20911201502	8698673462168	2X15X120
20910601502	8698673455795	2X15X60
20910801502	8698673462212	2X15X80
20910602002	8698673455801	2X20X60
20910802002	8698673455818	2X20X80
20910202502	8698673455825	2X25X120
20910101503	8698673455863	3X15X100
20910121503	8698673455870	3X15X120
20910601503	8698673455832	3X15X60
20910801503	8698673455849	3X15X80
20910002003	8698673458543	3X20X100
20910202003	8698673455900	3X20X120
20911502003	8699931009675	3X20X150
20910602003	8698673455887	3X20X60
20910702003	8698673424975	3X20X70
20910802003	8698673455894	3X20X80
20910002503	8698673455917	3X25X100
20910202503	8698673455924	3X25X120
20910123003	8698673455931	3X40X120
20910143003	8698673458420	3X40X140
20910184003	8698673455948	3X40X180
20910801504	8698673458116	4X15X80
20910002004	8698673473317	4X20X100
20910202004	8698673455986	4X20X120
20910402004	8698673458383	4X20X140
20910502004	8698673455993	4X20X150
20910702004	8698673458604	4X20X70
20910802004	8698673455962	4X20X80
20910102504	8698673456013	4X25X100
20910202504	8698673456020	4X25X120
20910142504	8698673456037	4X25X140
20910502504	8698673456044	4X25X150
20910802504	8698673455146	4X25X80
20910103004	8698673456051	4X30X100
20910203004	8698673456068	4X30X120
20910143004	8698673456075	4X30X140
20910153004	8698673456082	4X30X150
20910183004	8698673456105	4X30X180
20910803504	8698673458727	4X35X80
20910504004	8698673456112	4X40X150
20910122005	8698673456129	5X20X120
20910150205	8699931024937	5X20X150

CODE	BARCODE	SIZE
20910160205	8699931024944	5X20X160
20910180205	8699931024951	5X20X180
20910113005	8680858408382	5X30X110
20910123005	8698673456136	5X30X120
20910143005	8698673456143	5X30X140
20910153005	8698673456150	5X30X150
20910183005	8698673456167	5X30X180
20910203005	8698673456174	5X30X200
20910124005	8698673456181	5X40X120
20910134005	8680858408375	5X40X130
20910144005	8699931013542	5X40X140
20910504005	8698673456198	5X40X150
20910604005	8698673456204	5X40X160
20910184005	8698673458598	5X40X180
20910204005	8698673456228	5X40X200
20912204005	8698673456235	5X40X220
20910244005	8698673437807	5X40X240
20910254005	8698673456242	5X40X250
20910264005	8698673437814	5X40X260
20910284005	8698673437821	5X40X280
20910245005	8698673486836	5X50X240
20910285005	8698673424968	5X50X280
21011502006	8699931013917	6X20X150
21011602006	8699931013924	6X20X160
21011802006	8699931013931	6X20X180
20910153006	8698673456259	6X30X150
20910163006	8698673485549	6X30X160
20910183006	8698673456266	6X30X180
20910230006	8698673457089	6X30X200
20910124006	8698673456273	6X40X120
20910134006	8698673458628	6X40X130
20910144006	8698673456280	6X40X140
20910154006	8698673456297	6X40X150
20910164006	8698673456303	6X40X160
20910184006	8698673458413	6X40X180
20910194006	8698673456327	6X40X190
20910204006	8698673458581	6X40X200
20910224006	8698673456341	6X40X220
20910254006	8698673456358	6X40X250
20910185006	8698673457188	6X50X180
20910205006	8698673442962	6X50X200
20910225006	8698673456365	6X50X220
20910245006	8698673434585	6X50X240
20910255006	8698673456372	6X50X250
20910260006	8698673457171	6X60X200

STEEL CANCELLOUS



CODE	BARCODE	SIZE
21010203005	8698673454842	5X30X120
21010403005	8698673454859	5X30X140
21010153005	8698673454866	5X30X150
21011405005	8699931021592	5X40X140
21010504005	8698673454873	5X40X150
21010154006	8698673425002	5X40X160
21010804005	8698673454880	5X40X180
21012004005	8698673454897	5X40X200
21010224005	8698673454903	5X40X220
21010155005	8698673434523	5X50X150
21010185005	8698673434530	5X50X180
21010205005	8698673434547	5X50X200
21010225005	8698673434554	5X50X220
21012506005	8698673454910	5X60X250
21010103006	8698673454927	6X30X110
21010203006	8698673454934	6X30X120
21010403006	8698673454941	6X30X140
21010503006	8698673454958	6X30X150
21010603006	8698673454965	6X30X160
21010304006	8698673454972	6X40X130
21010504006	8698673454989	6X40X150
21010604006	8698673457195	6X40X160
21010804006	8698673454996	6X40X180
21012004006	8698673455009	6X40X200
21012204006	8698673455016	6X40X220
21012404006	8698673455023	6X40X240
21012504006	8698673455030	6X40X250
21010105006	8698673455047	6X50X110
21011605006	8699931021585	6X50X160
21011805006	8698673434561	6X50X180
21012005006	8698673455054	6X50X200
21012205006	8698673455061	6X50X220
21012405006	8698673434578	6X50X240
21012505006	8698673463905	6X50X250
21012605006	8698673455078	6X50X260
21010206006	8698673455085	6X60X120

STEEL CORTICAL HA COATED



CODE	BARCODE	SIZE
20918202506	8698673475069	6X25X200
20919202506	8698673475120	6X25X200
20918203006	8698673475076	6X30X200
20919203006	8698673475137	6X30X200
20918203506	8698673475083	6X35X200
20919203506	8698673475144	6X35X200
20918204006	8698673475090	6X40X200
20919204006	8698673475151	6X40X200
20918204506	8698673475106	6X45X200
20919204506	8698673475168	6X45X200
20918205006	8698673475113	6X50X200
20919205006	8698673475175	6X50X200

STEEL CANCELLOUS HA COATED



CODE	BARCODE	SIZE
20917204005	8680858413119	5X40X200
20916202506	8698673469983	6X25X200
20917202506	8698673475182	6X25X200
20916203006	8698673469990	6X30X200
20917203006	8698673475014	6X30X200
20916203506	8698673470002	6X35X200
20917203506	8698673475021	6X35X200
20916204006	8698673475199	6X40X200
20917204006	8698673475038	6X40X200
20916204506	8698673475205	6X45X200
20917204506	8698673475045	6X45X200
20916205006	8698673475212	6X50X200
20917205006	8698673475052	6X50X200

TITANIUM CORTICAL

CODE	BARCODE	SIZE
20920101502	8699931012606	2X15X100
20920061502	8698673455283	2X15X60
20920081502	8699931012590	2X15X80
20920062002	8698673455290	2X20X 60
20920082002	8699931012613	2X20X80
20920101503	8698673457140	3X15X100
20920081503	8698673457133	3X15X80
20920062003	8698673455306	3X20X 60
20920082003	8698673455313	3X20X 80
20921002003	8699931022018	3X20X120
20920102503	8698673455320	3X25X100
20920072004	8698673458741	4X20X 70
20920082004	8698673455337	4X20X 80
20920102004	8698673455344	4X20X100
20920122004	8699931010190	4X20X120
20920102504	8698673455351	4X25X100
20920122504	8698673455368	4X25X120
20921402504	8699931028607	4X25X140
20920083504	8698673458758	4X35X80
20920152005	8699931013948	5X20X150
20920162005	8699931013955	5X20X160
20920182005	8699931013962	5X20X180
20920113005	8680858408351	5X30X110
20920123005	8698673455375	5X30X120
20920133005	8680858419272	5X30X130
20920143005	8680858419289	5X30X140
20920153005	8698673455382	5X30X150
20920124005	8698673455399	5X40X120
20920134005	8680858408368	5X40X130
20920144005	8699931010183	5X40X140
20920154005	8698673455405	5X40X150
20920164005	8698673455412	5X40X160
20920184005	8698673455429	5X40X180
20920204005	8698673486805	5X40X200
20920224005	8699931007664	5X40X220
20920142006	8698673455436	6X20X140
20920152006	8699931013887	6X20X150
20920162006	8699931013894	6X20X160
20920182006	8699931013900	6X20X180
20920124006	8698673455443	6X40X120
20920144006	8698673455450	6X40X140
20920154006	8698673424982	6X40X150
20920164006	8698673455467	6X40X160
20920184006	8698673455474	6X40X180
20920204006	8698673455481	6X40X200
20920224006	8698673455498	6X40X220
21020254006	8698673455504	6X40X250
20920205006	8698673486812	6X50X200
20922205006	8698673486829	6X50X220
20920150006	8699931021561	6X60X150
20920160006	8699931021554	6X60X160
20920180007	8699931021578	6X60X180



TITANIUM CORTICAL
HA COATED

CODE	BARCODE	SIZE
20929061502	8698673455511	2X15X60
20929062002	8698673455528	2X20X60
20929081503	8699931014112	3X15X80
20929101503	8698673455535	3X15X100
20929062003	8698673455542	3X20X60
20929082003	8698673455559	3X20X80
20929102503	8698673455566	3X25X100
20929102004	8698673455580	4X20X100
20929082004	8698673455573	4X20X80
20929102504	8698673455597	4X25X100
20929122504	8698673455603	4X25X120
20929152504	8698673455610	4X25X150
20929152005	8699931015874	5X20X150
20929162005	8699931015867	5X20X160
20929182005	8699931015850	5X20X180
20929153005	8698673455627	5X30X150
20929124005	8698673455634	5X40X120
20929154005	8698673455641	5X40X150
20929164005	8698673455658	5X40X160
20929184005	8698673455665	5X40X180
20929204005	8698673455672	5X40X200
20929224005	8699931014105	5X40X220
20929152006	8699931015843	6X20X150
20929162006	8699931015836	6X20X160
20929182006	8699931015829	6X20X180
20929153006	8698673455689	6X30X150
20929183006	8698673455696	6X30X180
20929124006	8698673455702	6X40X120
20929144006	8698673455719	6X40X140
20929150406	8699931024180	6X40X150
20929164006	8698673455726	6X40X160
20929184006	8698673455733	6X40X180
20929204006	8698673455740	6X40X200
20929224006	8698673455757	6X40X220
20929254006	8699931012941	6X40X250
20929205006	8698673455764	6X50X200
20929225006	8698673455771	6X50X220
20929255006	8680858428533	6X50X250

TITANIUM CANCELLOUS



CODE	BARCODE	SIZE
21020123005	8698673454651	5X120X30
21020143005	8698673454668	5X140X30
21020153005	8698673425026	5X150X30
21020154005	8698673454675	5X150X40
21020164005	8699931005707	5X160X40
21020184005	8698673454682	5X180X40
21020204005	8698673454699	5X200X40
21020224005	8699931005714	5X220X40
21020123006	8698673454705	6X120X30
21020143006	8698673454712	6X140X30
21020154006	8698673454729	6X150X40
21020164006	8699931005721	6X160X40
21020184006	8698673454736	6X180X40
21020204006	8698673454743	6X200X40
21020224006	8698673454750	6X220X40
21022504006	8699931013634	6X250X40

TITANIUM CANCELLOUS HA COATED



CODE	BARCODE	SIZE
21029123005	8698673454767	5X30X120
21029143005	8698673454774	5X30X140
21029150405	8699931024968	5X40X150
21029154005	8698673454781	5X40X150
21029160405	8699931024975	5X40X160
21029180405	8699931024999	5X40X180
21029184005	8698673454798	5X40X180
21029200405	8699931025019	5X40X200
21029204005	8698673454804	5X40X200
21029220405	8699931025033	5X40X220
21029123006	8698673454811	6X30X120
21029143006	8698673454828	6X30X140
21029154006	8698673454835	6X40X150
21029164006	8699931024982	6X40X160
21029180406	8699931025002	6X40X180
21029184006	8698673455092	6X40X180
21029200406	8699931025026	6X40X200
21029204006	8698673455108	6X40X200
21029220406	8699931025040	6X40X220
21029224006	8698673455122	6X40X220
21029205006	8698673455115	6X50x200
21029225006	8698673455139	6X50x220



Warning

This description is not sufficient by itself for direct and proper use of the instrument set intraoperatively. Instruction by a surgeon who is thoroughly trained and experienced in handling these instruments and in doing the procedure are highly recommended.

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