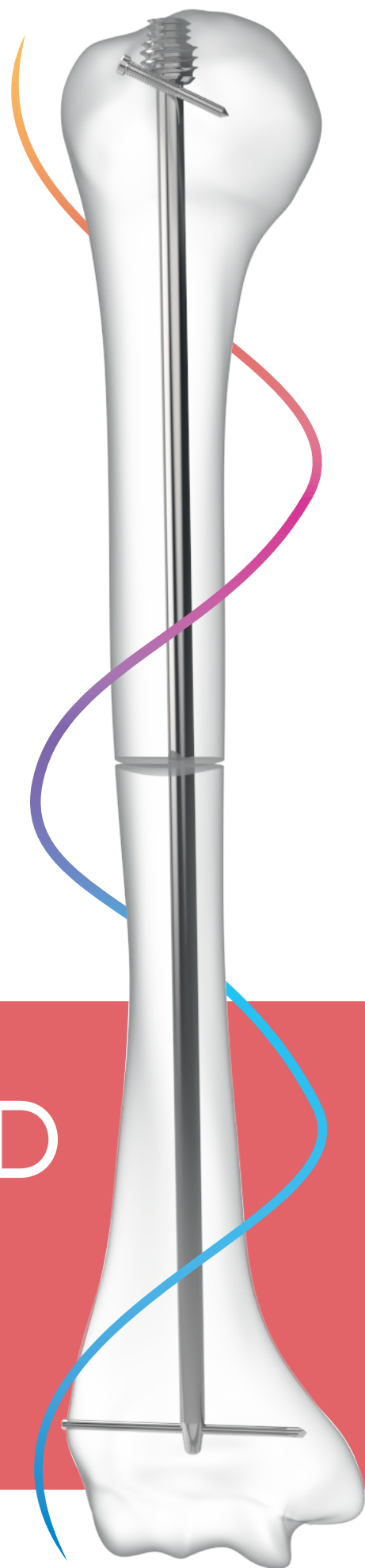


**peditst**



DSOPE SOLID

# Introduction

## Indications

Indicated for children older than 18 months who are diagnosed with osteogenesis imperfecta.

Children's long bone deformity corrections.

Fracture stabilization.

Prevention of bone fracture

For patients with osteoporotic bone.

## Features

It is made of medical stainless steel.

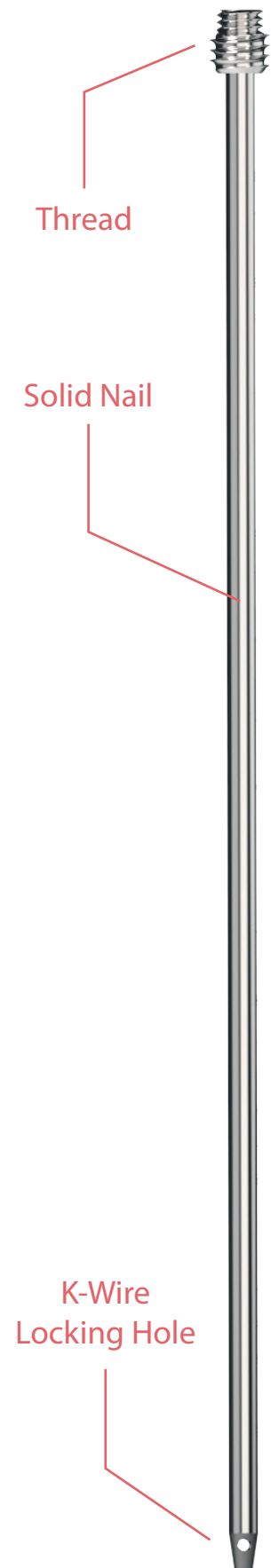
Nails have four different diameter choices.

Nail's cancellous proximal threads fix the nail to the bone. Proximal locking screw which is sent to the bottom of the cancellous threads of the nail, avoids the nail to move forward.

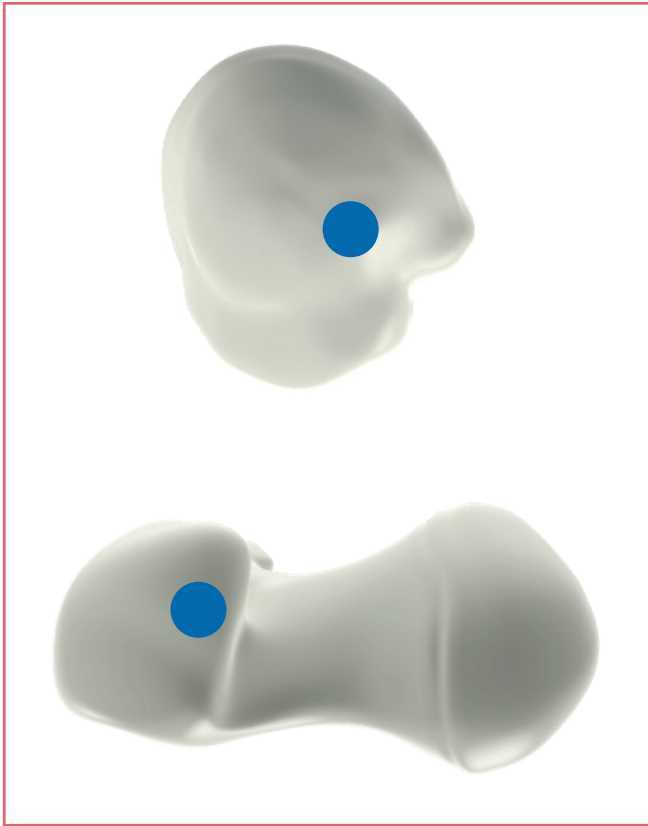
The hole, on which Kirschner wire can be used for fixation in the distal part.

The application of the nail for tibia and humerus is from the proximal part and for femur from proximal and distal part of the bones.

NAIL DIAMETER	LENGTH CHOICE	THREAD DIAMETER
2.3 mm	110 mm	7.0 mm (Length 8 mm)
	125 mm	
	150 mm	
2.8 mm	75 mm	7.5 mm (Length 8 mm)
	90 mm	
	110 mm	
	125 mm	
3.5 mm	75 mm	9.5 mm (Length 11 mm)
	90 mm	
	110 mm	
	125 mm	
	150 mm	
4.0 mm	125 mm	10.0 mm (Length 11 mm)
	150 mm	
	175 mm	
	190 mm	
	200 mm	
5.0 mm	125 mm	10.5 mm (Length 11 mm)
	150 mm	
	175 mm	
	200 mm	
	250 mm	



# Surgical Technique



## ENTRY POINT:

### Humerus:

A skin incision is made from the AC joint to the beginning of the deltoid fibers splitting the deltoid fibers and underlying supraspinatus tendon. The entry point in the humeral head should be in line with the bicipital groove, which is aligned with the intramedullary canal or slightly lateral to avoid the rotator cuff.

### Femur:

From the tip of the trochanter major at the proximal femur, approximately 2 cm incision is performed.



## REAMERIZATION:

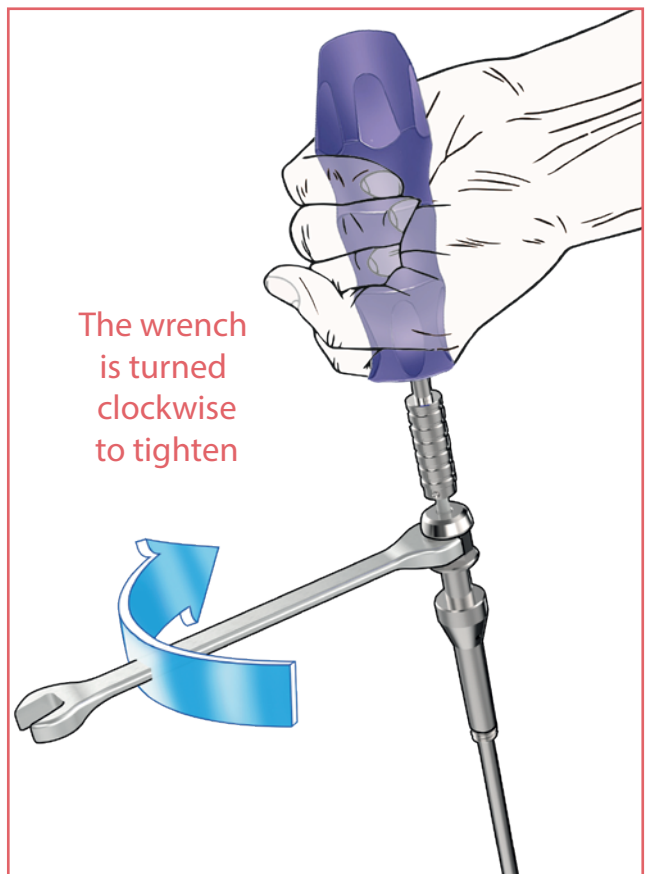
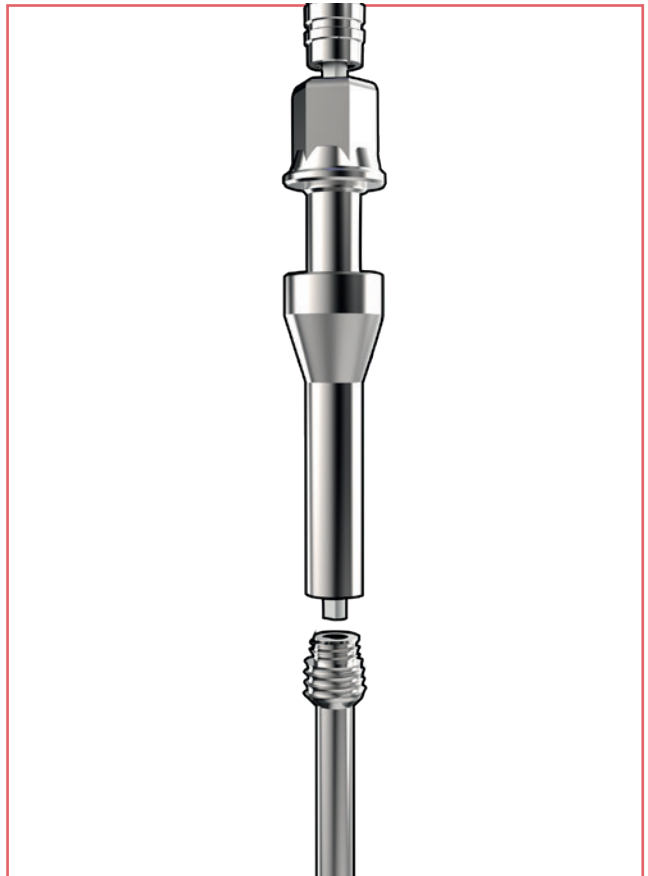
Reaming of the canal can be done or through the osteotomy/fracture site. Drill with the corresponding Reamer up to but not past the growth plate most distal from the entry point. Remove the Reamer and Guidewire when reaming is complete.

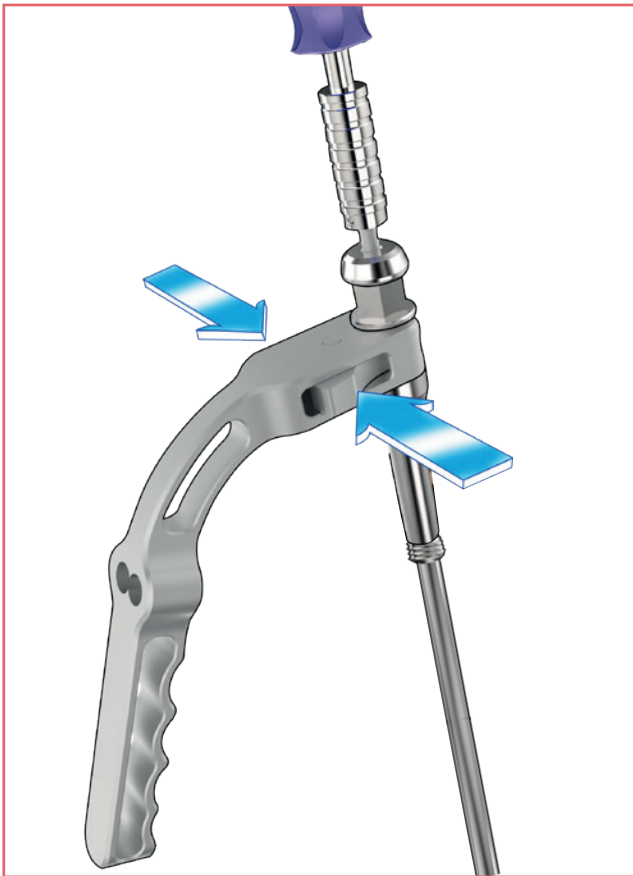
## REAMING OF THE HEAD:

The nail head is a conical structure. Drill for end cup Reamers should use to facilitate nail insertion.

**PREPARATION OF THE NAIL**

The appropriate size of the Nail is chosen and connected with the Locking Telescopic Nail Driver. The Driver and the Nail are fixed with a Wrench by holding the soft handle.

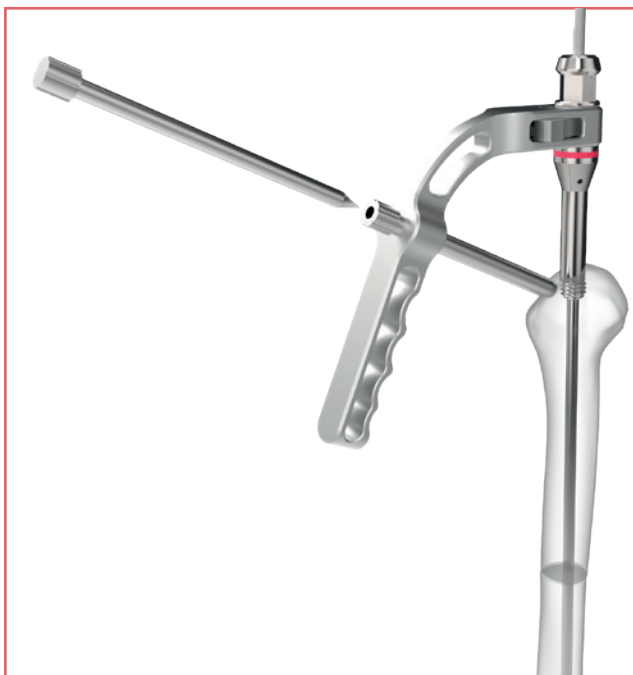
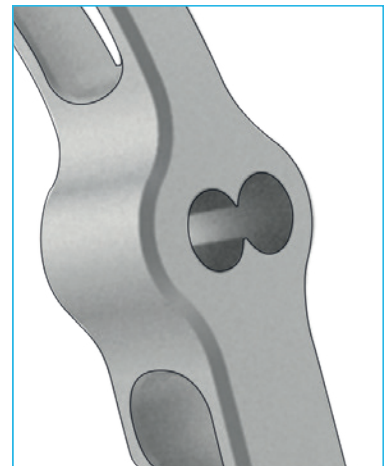




**GUIDE ARM CONNECTION:**

When the nail is in its final position, Guide Arm is mounted to the Locking Telescopic Nail Driver. Mind the laser marks to choose the appropriate hole for locking the screw.

*Mind the lasermarks to choose the appropriate hole for locking screw.*

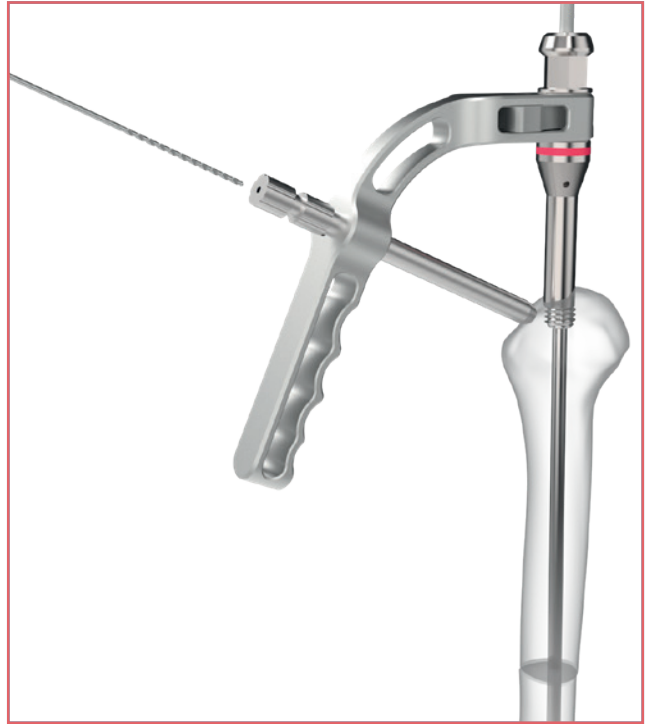


**SLEEVE PLACEMENT:**

After the incision, Protection Sleeve and Trocar are sent through the proper hole of the Guide Arm to pass the soft tissue.

**DRILLING AND DEPTH MEASURING:**

Trocar is removed and the Drill Sleeve is sent over the Protection Sleeve to help drilling. Drilling is made with 2.0 mm Drill.





**PROXIMAL LOCKING:**

After detection of the length of the screw with the help of Depth Gauge, the screw is sent with 1.7 mm Hexagonal Tip. The depth is measured with Depth Gauge to choose proper locking screw.

**REMOVING THE GUIDE ARM:**

After removing the Guide Arm, the Nail Driver is loosened with the Wrench by holding the Soft Handle and then separated.



**OPTIONAL DISTAL LOCKING:**

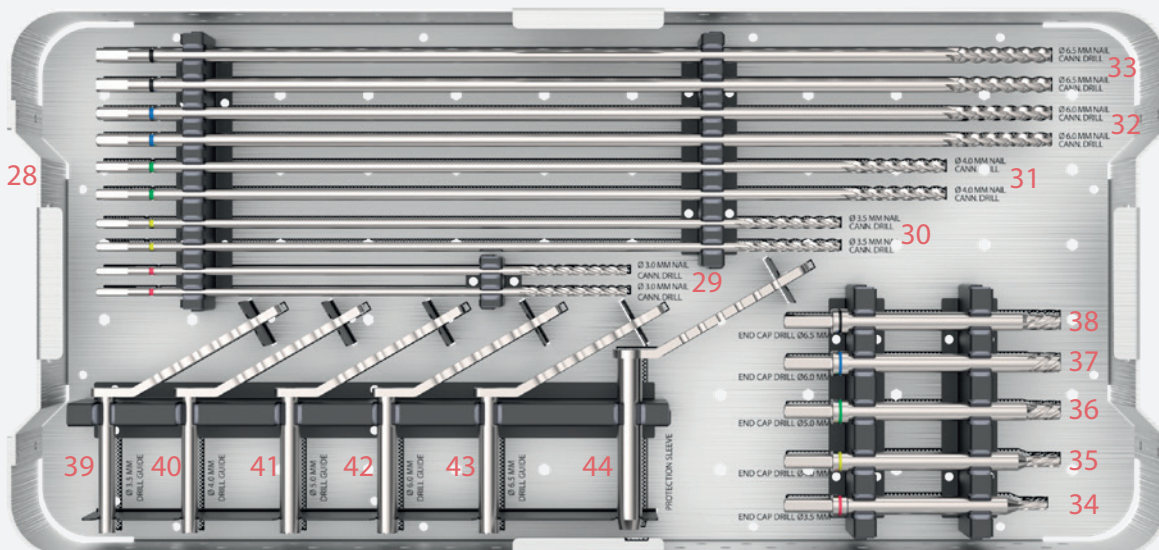
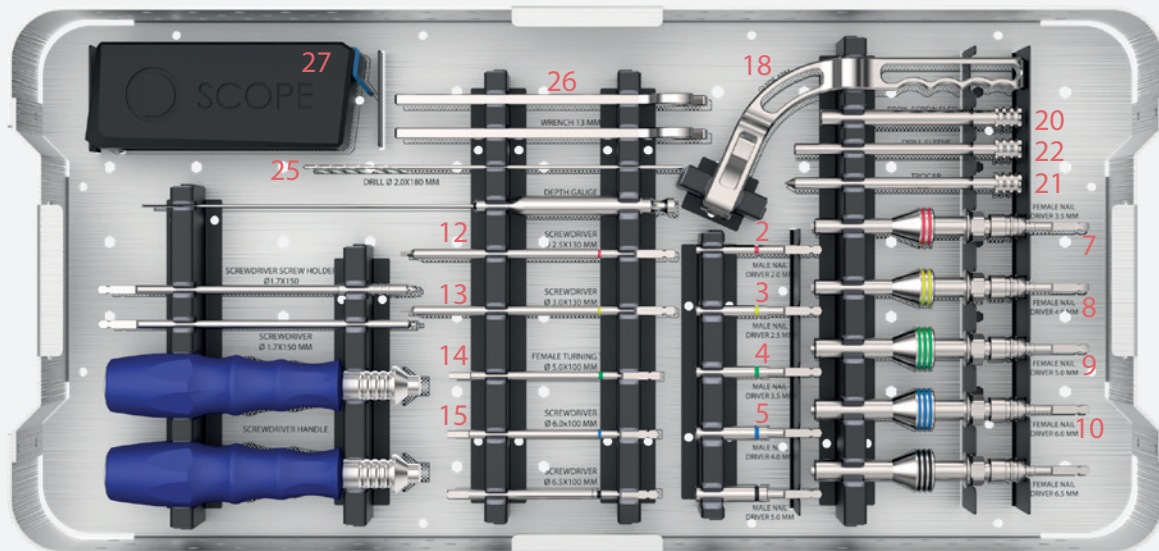
Fixation to the distal epiphysis is increased by sending Threaded Kirschner Wire into the hole. The outer part is cut with the Wire Cutter then the rest of the wire is forwarded into the bone with a Pin Impactor.



No TST Code	Barcode	Description	Qty
1 00000804001	8680858441051	TELESCOPIC NAIL DESIGN TRAY 1 AL.	1
2 00760000020	8680858406463	SPECIAL MALE NAIL DRIVER 2.0 MM	1
3 00760000025	8680858406470	SPECIAL MALE NAIL DRIVER 2.5 MM	1
4 00760000035	8680858406487	SPECIAL MALE NAIL DRIVER 3.5 MM	1
5 00760000040	8680858406494	SPECIAL MALE NAIL DRIVER 4.0 MM	1
6 00760000050	8680858406500	SPECIAL MALE NAIL DRIVER 5.0 MM	1
7 08757000035	8680858425112	Ø 3.5 MM FEMALE LOCKING TELESCOPIC NAIL DRIVER	1
8 08757000040	8680858425129	Ø 4.0 MM FEMALE LOCKING TELESCOPIC NAIL DRIVER	1
9 08757000050	8680858425136	Ø 5.0 MM FEMALE LOCKING TELESCOPIC NAIL DRIVER	1
10 08757000060	8680858425143	Ø 6.0 MM FEMALE LOCKING TELESCOPIC NAIL DRIVER	1
11 08757000065	8680858425150	Ø 6.5 MM FEMALE LOCKING TELESCOPIC NAIL DRIVER	1
12 02020103025	8699931010930	SCREW DRIVER QUICK TIP 2.5XØ5X130 MM	1
13 01610013030	8680858437696	SCREW DRIVER QUICK TIP Ø3X130 MM	1
14 02010003050	8680858408931	Ø 5 MM FEMALE NAIL TURNING TIP	1
15 02010003060	8680858408955	Ø 6 MM FEMALE NAIL TURNING TIP	1
16 02010003065	8680858408979	Ø 6.5 MM FEMALE NAIL TURNING TIP	1
17 02010101002	8698673493308	SOFT SCREW DRIVER QUICK LARGE	2
18 08051000012	8680858425167	TELESCOPIC NAIL GUIDE ARM	1
19 08004000100	8680858425174	TELESCOPIC NAIL DEPTH GAUGE FOR PROXIMAL SCREW	1
20 08051000010	8680858425099	TELESCOPIC NAIL SLEEVE FOR PROXIMAL SCREW	1
21 03665010006	8680858427437	TROCAR 6X100 MM	1
22 08051000011	8680858425105	TELESCOPIC NAIL DRILL GUIDE	1
23 02101150017	8680858431908	SCREW DRIVER QUICK HEX. WITH SCREW HOLDER Ø1.7X150	1
24 02000015017	8680858425082	SCREW DRIVER QUICK HEX. TIP Ø 1.7X150 MM	1
25 02231018020	8680858451463	BONE DRILL 2.0X180 MM	2
26 08044000014	8699931015737	WRENCH Ø 13 MM	2
27 00000802700	8680858427444	TELESCOPIC NAIL SCREW BOX	1

No TST Code	Barcode	Description	Qty
28 00000804002	8680858441068	TELESCOPIC NAIL DESIGN TRAY 2 AL.	1
29 02010000050	8680858400089	CANNULATED DRILL FOR Ø3.0 MM NAIL	2
30 020100000350	8680858400065	CANNULATED DRILL FOR Ø3.5 MM NAIL	2
31 02010000040	8680858400072	CANNULATED DRILL FOR Ø4.0 MM NAIL	2
32 02010000060	8680858400096	CANNULATED DRILL FOR Ø6.0 MM NAIL	2
33 02010000065	8680858400102	CANNULATED DRILL FOR Ø6.5 MM NAIL	2
34 04010000035	8680858400157	DRILL FOR END CAP Ø3.5 MM	1
35 04010000040	8680858400164	DRILL FOR END CAP Ø4.0 MM	1
36 04010000050	8680858400171	DRILL FOR END CAP Ø5.0 MM	1
37 04010000060	8680858400188	DRILL FOR END CAP Ø6.0 MM	1
38 04010000065	8680858400195	DRILL FOR END CAP Ø6.5 MM	1
39 02010030035	8680858408887	Ø 3.5 MM DRILL GUIDE (TELES)	1
40 02010040040	8680858408900	Ø 4 MM DRILL GUIDE (TELES)	1
41 02010050050	8680858408924	Ø 5 MM DRILL GUIDE (TELES)	1
42 02010060060	8680858408948	Ø 6 MM DRILL GUIDE (TELES)	1
43 02010060065	8680858408962	Ø 6.5 MM DRILL GUIDE (TELES)	1
44 08750009010	8680858419708	PROTECTION SLEEVE	1





\*D-SCOPE Solid Nail is used with the D-SCOPE Telescopic Nail instruments and set. Please contact with sales department.

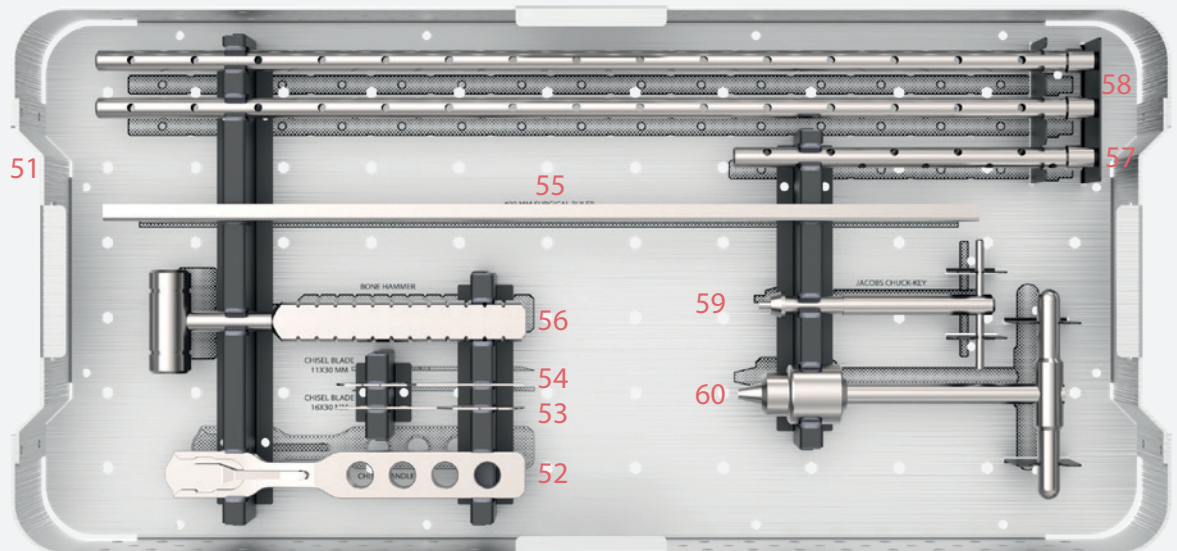
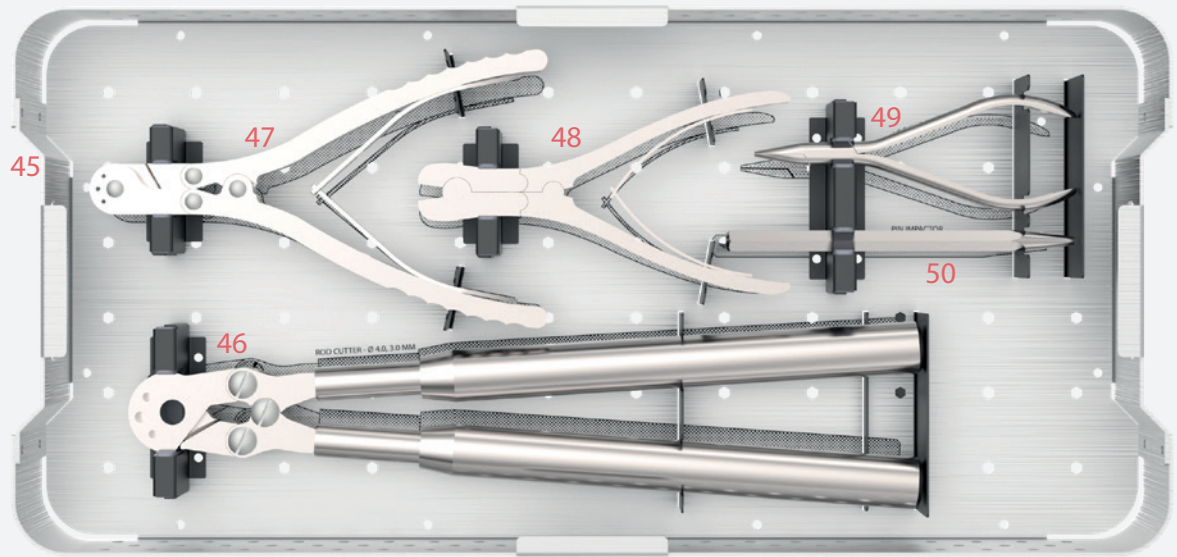
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45	0000804003	8680858441075	TELESCOPIC NAIL DESIGN TRAY 3 AL.	1
46	03210004050	8680858408993	SPECIAL ROD CUTTER FOR Ø 4.0,3.0 MM	1
47	03210202535	8680858408986	SPECIAL ROD CUTTER FOR Ø 2.0,2.5,3.5 MM	1
48	08051000020	8680858440573	WIRE CUTTER UP TO Ø 2 MM	1
49	08201000004	8698673495036	LOCKING PLIERS	1
50	02271000003	8699931000139	PIN IMPACTOR	1
51	0000804004	8680858441082	TELESCOPIC NAIL DESIGN TRAY 4 AL.	1
52	03381000001	8699931023770	CHISEL HANDLE	1
53	03381016030	8699931023800	CHISEL BLADE 16X30 MM STRAIGHT	1
54	03381011030	8699931023794	CHISEL BLADE 11X30 MM STRAIGHT	1
55	08050000400	8680858454693	400 MM S.S SURGICAL RULER FOR L&D	1
56	01193003009	8699931028133	BONE HAMMER - SMALL	1
57	04551006160	8699931029796	K-WIRE TUBE Ø10XØ6X160 MM	1
	22712100015	8699931002638	RADIAL PIN THREADED TIP 1.8X150MM	8
58	04551008460	8680858408313	K-WIRE TUBE Ø10XØ8X460 MM	2
	23410450115	8698673457935	KIRSCHNER WIRE TROCAR POINT 1.5X450 MM	6
	23410450120	8698673457928	KIRSCHNER WIRE TROCAR POINT 2X450 MM	6
59	03310000001	8680858400201	T-HANDLE JACOBS CHUCK-KEY	1
60	08050000200	8680858409181	T-HANDLE MALE NAIL INSERTER	1
	00554273135	8680858440986	CONTAINER 554X273X135 MM AL.	2



#### SMALL HEAD LOCK.PEG SCREW TI 2.7 MM

TST Code	Barcode	Length	Qty
80717027010	8680858426454	10 mm	4
80717027012	8680858426461	12 mm	4
80717027014	8680858426478	14 mm	4
80717027016	8680858426485	16 mm	4
80717027018	8680858426492	18 mm	4
80717027020	8680858426508	20 mm	4
80717027022	8680858426515	22 mm	4
80717027024	8680858426522	24 mm	4
80717027026	8680858426539	26 mm	4
80717027028	8680858426546	28 mm	4
80717027030	8680858426553	30 mm	4
80717027032	8680858426560	32 mm	4
80717027034	8680858426577	34 mm	4
80717027036	8680858426584	36 mm	4
80717027038	8680858426591	38 mm	4
80717027040	8680858426607	40 mm	4

TST Code	Description
80719011035	DSCOPE SOLID NAIL Ø3.5X110
80719012035	DSCOPE SOLID NAIL Ø3.5X120
80719013035	DSCOPE SOLID NAIL Ø3.5X130
80719014035	DSCOPE SOLID NAIL Ø3.5X140
80719015035	DSCOPE SOLID NAIL Ø3.5X150
80719015040	DSCOPE SOLID NAIL Ø4X150
80719017040	DSCOPE SOLID NAIL Ø4X170
80719018040	DSCOPE SOLID NAIL Ø4X180
80719019040	DSCOPE SOLID NAIL Ø4X190
80719020040	DSCOPE SOLID NAIL Ø4X200
80719015050	DSCOPE SOLID NAIL Ø5X150
80719020050	DSCOPE SOLID NAIL Ø5X200
80719021050	DSCOPE SOLID NAIL Ø5X210
80719023050	DSCOPE SOLID NAIL Ø5X230
80719025050	DSCOPE SOLID NAIL Ø5X250



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