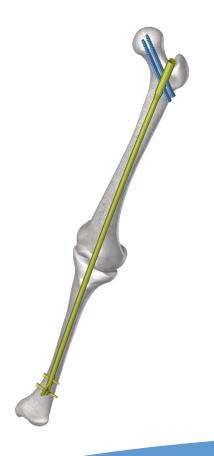




UNIVERSAL FEMORO-TIBIAL NAIL

- IMPLANTS
- INSTRUMENT SET 40.3320.xxx, 40.5060.xxx, 40.5090.xxx
- SURGICAL TECHNIQUE



www.chm.eu

SYMBOLS DESCRIPTION

Locking Locking	Ti	Titanium or titanium alloy	\circ	Cannulated
Right Available versions: left/right Length Torx drive Torx drive Torx drive cannulated Hexagonal drive Hexagonal drive cannulated Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.	St	Steel		Locking
Available versions: left/right Length Torx drive Torx drive cannulated Hexagonal drive Hexagonal drive cannulated Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.		Left		Diameter
Length Torx drive Torx drive Torx drive cannulated Hexagonal drive Hexagonal drive cannulated Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.	R	Right		Inner diameter
Torx drive Torx drive cannulated Hexagonal drive Hexagonal drive cannulated Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.	LR	Available versions: left/right		Recommended length range for a particular nail
Torx drive cannulated Hexagonal drive Hexagonal drive cannulated Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.	Len	Length		Angle
Hexagonal drive Hexagonal drive cannulated Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.		Torx drive		Available lengths
Hexagonal drive cannulated Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.		Torx drive cannulated	Ster Non Ster	Available in sterile/ non- sterile condition
Caution - pay attention to a special procedure. Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.		Hexagonal drive		
Perform the activity under X-Ray control. Information about the next stages of a procedure. Proceed to the next stage.		Hexagonal drive cannulated		
Information about the next stages of a procedure. Proceed to the next stage.	\triangle	Caution - pay attention to a special procedure.		
Proceed to the next stage.		Perform the activity under X-Ray control.		
	i	Information about the next stages of a procedure.		
		Proceed to the next stage.		
Return to the specified stage and repeat the activity.		Return to the specified stage and repeat the activity.		
netum to the specified stage and repeat the activity.		neturn to the specified stage and repeat the activity.		

Before using the product, carefully read the Instructions for Use. It contains, among others, indications, contraindications, side effects, recommendations and warnings related to the use of the product.

The above description is not a detailed instruction of conduct. The surgeon decides about choosing the operating procedure.

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 ST/26A

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 P-002-23.11.2020

The manufacturer reserves the right to introduce design changes. Updated INSTRUCTIONS FOR USE are available at the following website: ifu.chm.eu



1. INTRODUCTION	5
2. IMPLANTS	6
2.1. UNIVERSAL FEMORO-TIBIAL NAIL	6
2.2. LOCKING ELEMENTS	7
3. INSTRUMENT SET	8
4. SURGICAL TECHNIQUE	10
4.1. PATIENT PREPARATION	10
4.2. OPENING OF THE MEDULLARY CANAL OF THE FEMUR	11
4.3. REAMING MEDULLARY CANAL OF FEMUR	12
4.4. REAMING MEDULLARY CANAL OF TIBIA	12
4.5. NAIL INSERTION	13
4.6. RECONSTRUCTION METHOD	15
4.7. DISTAL LOCKING OF THE NAIL	18
4.8. COMPRESSION METHODS	20
4.9. TARGETER REMOVAL, END CAP INSERTION	23
4.10. STATIC METHOD	24
4.11. TARGETER REMOVAL, END CAP INSERTION	28
4.12 NAII REMOVAI	29



1. INTRODUCTION

Femoro-tibial nail is used to treat knee joint arthrodesis.

Intended use:

- failed knee arthroplasty
- post-infection state
- periprosthetic fractures
- post-traumatic state which does not allow for implantation of the knee prosthesis
- tumors in the knee joint area
- loss of or damage to the knee extensor
- neoplastic transformations
- knee arthrodesis.

The presented range of implants is made of titanium and its alloys and implantable steel in accordance with ISO 5832 standard.



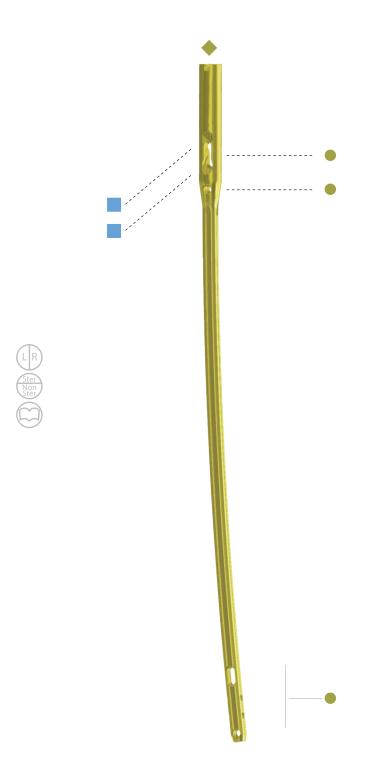


2. IMPLANTS





2.1. UNIVERSAL FEMORO-TIBIAL NAIL



			Ті
	Len		R
	600	3.5573.600	3.5572.600
	620	3.5573.605	3.5572.605
	640	3.5573.610	3.5572.610
	660	3.5573.615	3.5572.615
	680	3.5573.620	3.5572.620
10	700	3.5573.625	3.5572.625
	720	3.5573.630	3.5572.630
	740	3.5573.635	3.5572.635
	760	3.5573.640	3.5572.640
	780	3.5573.645	3.5572.645
	800	3.5573.650	3.5572.650
	600	3.5575.600	3.5574.600
	620	3.5575.605	3.5574.605
	640	3.5575.610	3.5574.610
	660	3.5575.615	3.5574.615
	680	3.5575.620	3.5574.620
11	700	3.5575.625	3.5574.625
	720	3.5575.630	3.5574.630
	740	3.5575.635	3.5574.635
	760	3.5575.640	3.5574.640
	780	3.5575.645	3.5574.645
	800	3.5575.650	3.5574.650
	600	3.5579.600	3.5576.600
	620	3.5579.605	3.5576.605
	640	3.5579.610	3.5576.610
	660	3.5579.615	3.5576.615
	680	3.5579.620	3.5576.620
12	700	3.5579.625	3.5576.625
	720	3.5579.630	3.5576.630
	740	3.5579.635	3.5576.635
	760	3.5579.640	3.5576.640
	780	3.5579.645	3.5576.645
	800	3.5579.650	3.5576.650





2.2. LOCKING ELEMENTS







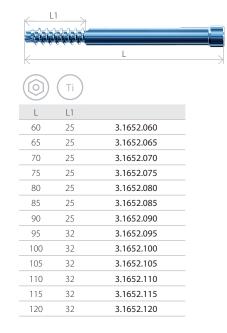




CHARFIX DISTAL SCREW 4.5

التالات	
	L →
	Ti
30	3.1654.030
35	3.1654.035
40	3.1654.040
45	3.1654.045
50	3.1654.050
55	3.1654.055
60	3.1654.060
65	3.1654.065
70	3.1654.070
75	3.1654.075
80	3.1654.080
85	3.1654.085
90	3.1654.090
16	

CHARFIX RECONSTRUCTION CANNULATED SCREW 6.5



CHARFIX END CAP M10x1





А	
0	3.2104.300
+5	3.2104.305
+10	3.2104.310
+15	3.2104.315



40.4686.200 Stand for CHARFIX nail locking elements (set with a box without implants)



3. INSTRUMENT SET

Use instrument set 40.3320.xxx; 40.5060.xxx; 40.5090.xxx. to implant the femoro-tibial nail. This surgical technique is prepared with the use of instrument set 40.5090.500.

In addition, to perform the procedure, use instruments that are the basic equipment of the operating theater for orthopedic procedures, such as:

- bone saws,
- drive,
- set of flexible intramedullary reamers of 8.0 \div 13.0 mm with guide and handle,
- awls, raspators, bone curettes,
- · set of drill bits,
- · Kirschner wires,
- mallets.

Instrument set 40.5090.500	Name	Pcs.	Catalogue No.
	Targeter arm	1	40.5091.000
N. ASSENCE OF THE PROPERTY OF	Targeter 135	1	40.5097.000
	Distal targeter D	1	40.5093.000
	Connecting screw M10x1 L=55	1	40.5094.000
	Connecting screw M10x1 L=66	1	40.5095.000
	Compression screw	1	40.5096.000
500 480 480 440 420 400 320 380 340 320 300 700 720 480 470 450 420 410 320 320 350 350 350 320	Nail length measure	1	40.5098.000
	Trocar 9	1	40.3327.000
	Protective guide 11/9	2	40.3328.000
	Drill guide 9/6.5	1	40.3329.000
	Drill guide 9/4.5	1	40.3330.000
	Kirschner guide	1	40.3331.000
	Reconstruction screw length measure	1	40.3332.000
- Times	Kirschner wire 2.0/380 mm	4	40.3333.000
	Protective guide 9/6.5	2	40.3614.000
	Drill guide 6.5/3.5	2	40.3615.000
	Set block 9/4.5	2	40.3616.000
	Trocar 6.5	1	40.3617.000
	Drill guide 6.5/4.5	1	40.3696.000
	Screw length measure	1	40.1374.000
	Curved awl 8.0	1	40.5523.000
	Impactor-extractor	1	40.5507.000



Instrument set 40.5090.500	Name	Pcs.	Catalogue No.
	Mallet	1	40.3667.000
	Connector M10x1/M12	1	40.5071.000
	Wrench S10	1	40.5526.100
	Teflon pipe guide	1	40.1348.000
	Guide rod 3.0/580	1	40.3925.580
	Guide rod handle	1	40.1351.000
	Screwdriver S 3.5	1	40.3604.000
- IIIIIIIIIII PPPF	Drill with scale 4.5/370	1	40.5333.001
	Drill with scale 3.5/270	2	40.5330.001
	Drill 6.5/370	1	40.2068.371
6.16.16.16.	Cannulated drill 6.5/300	1	40.3674.000
S Internal of the latest and the lat	Cannulated screwdriver S 5.0/2.2	1	40.3675.000
SG SZ SW SG SG SG SG SG SS SS	Cannulated screw length measure	1	40.3676.000
	Aiming insert 9.0	2	40.5065.009
	Aiming insert 11.0	2	40.5065.011
	Screwdriver S3.5	1	40.5074.000
	Bolt guide	1	40.5075.000
Company of the Compan	Drill 4.5/270	1	40.1387.001
	Targeter D	1	40.1344.000
	Drill guide short 7/3.5	1	40.1358.000
	Trocar short 7	1	40.1354.000
19	Protective guide 11/9	1	40.3662.000
	Stand	1	40.5099.500

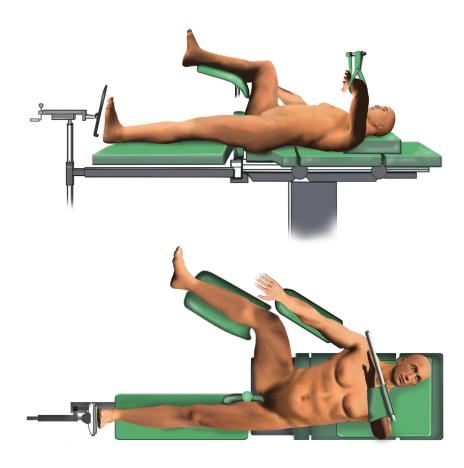


4. SURGICAL TECHNIQUE

4.1. PATIENT PREPARATION

Patient positioning

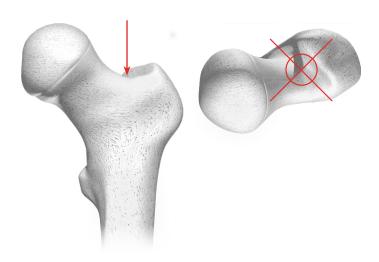
Place the patient supine on the operating table with applied orthopedic traction shoe. Surgery must be properly planned. It is necessary to take X-Ray images.



Surgical approach

Perform incision of soft tissues above the knee so that an easy access to the affected joint is provided. In the case of presence of tumors in the knee area or prior prosthesis use, cut off the diseased joint ends using a bone saw.

Perform a skin incision near the top of the greater trochanter.



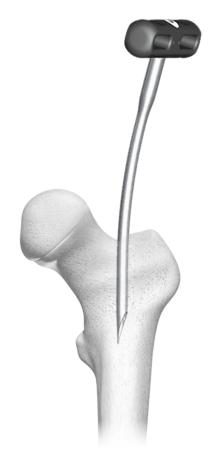
Entry point for the nail.



4.2. OPENING OF THE MEDULLARY CANAL OF THE FEMUR



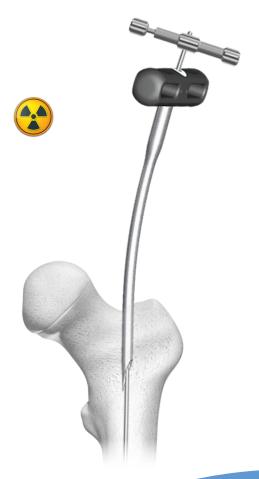
1 Use curved awl 8.0 [40.5523] to open the medullary canal.



 40.3925.580
40.1351.000

Having opened the medullary canal, insert (*under X-Ray control*) guide rod 3.0/580 [40.3925.580] using guide rod handle [40.1351] into the medullary canal at the depth until the tibia has been reached.

Remove guide rod handle [40.1351] and curved awl 8.0 [40.5523].

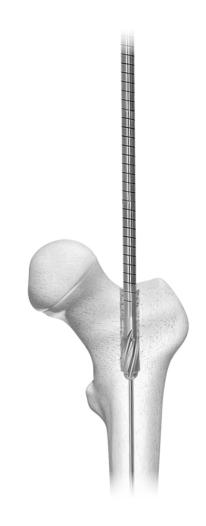




4.3. REAMING MEDULLARY CANAL OF FEMUR

Using flexible reamers, gradually increase the diameter of the medullary canal with steps of 0.5 mm, until the diameter 1.5 to 2.0 mm wider than the diameter of the nail is reached. Ream the femur until the reamer enters the tibia.

Remove the flexible reamer and guide rod.



4.4. REAMING MEDULLARY CANAL OF TIBIA

40.3925.580
40.1351.000

Mount guide rod 3.0/580 [40.3925.580] to guide rod handle [40.1351] and enter the rod (under X-Ray control) into the medullary canal of the tibia until the desired depth is reached.

Remove guide rod handle [40.1351]..



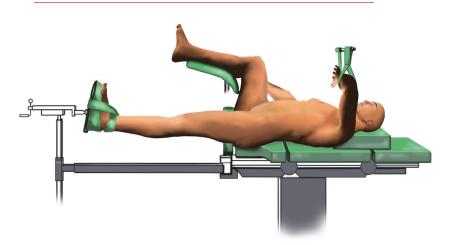
Using flexible reamers, gradually increase the diameter of the medullary canal with steps of 0.5 mm, until the diameter 1.5 to 2.0 mm wider than the diameter of the nail is reached, for the depth equal to the tibia length.

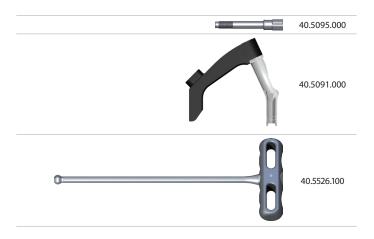
Remove the flexible reamer and guide rod.

4.5. NAIL INSERTION



Prior to nail insertion, position the operated limb properly and place it in the orthopedic traction shoe.





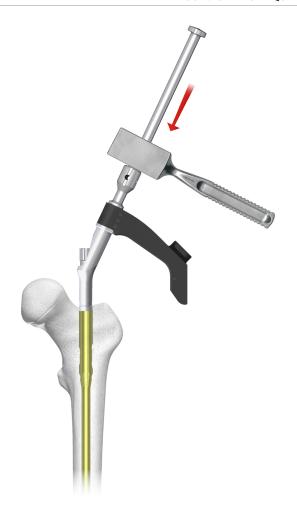
6 Use the connecting screw M10x1 L=66 [40.5095] to fix the intramedullary nail to the targeter arm [40.5091].





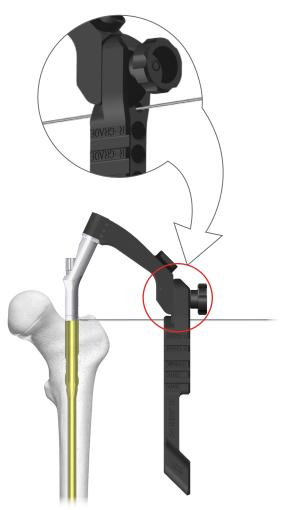


Mount the impactor-extractor [40.5507] to the targeter arm [40.5091] with fixed nail. Advance the nail, by pushing and maneuvering, into the medullary canal of the femur and tibia until the adequate depth is reached.



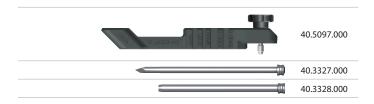


Mount the targeter 135 [40.5097] on the targeter arm [40.5091]. Insert Kirschner wire 2.0/380 in the hole (*marked "0"*) of the targeter 135 [40.5097] to verify correct placement of the nail in the medullary canal. The end of the wire shows the beginning of the nail.



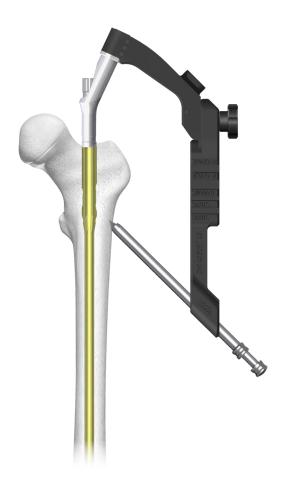


4.6. RECONSTRUCTION METHOD



Mount the targeter 135 [40.5097] to the targeter arm [40.5091]. Insert the protective guide 11/9 [40.3328] with trocar 9 [40.3327] into the distal RECON hole of the targeter 135 [40.5097]. Mark on the skin the entry point for the screw and make adequate incision of soft tissues that passes through the marked place and the other screw insertion place. Advance the trocar until it reaches the cortex bone and mark the entry point for the drill. Simultaneously, advance the protective guide together with trocar until its tip rests on the cortex bone.

Remove the trocar. Leave the protective guide in the hole.





Insert the protective guide 11/9 [40.3328] with trocar 9 [40.3327] into the other RECON hole in the targeter 135 [40.5097]. Advance the trocar until it reaches the cortex bone and mark the entry point for the drill. Advance the protective guide together with the trocar until it touches the bone.

Remove the trocar. Leave the protective guide in the hole.



 40.3328.000
40.3331.000
40.3333.000

Insert Kirschner guide [40.3331] into the distally placed protective guide 11/9 [40.3328]. Mount Kirschner wire 2.0/380 [40.3333] to the surgical drive and place the wire into the femoral neck but do not perforate the femoral head. The above step should be controlled with X-Ray (*image in the drawing plane*). Verify the position of the wire in the other plane (*image in a plane perpendicular to the drawing plane*). The wire should be placed below the centre of the neck, so that the screw may be inserted near the bottom of the cortical layer without damaging the cortical wall of the neck. Use only new Kirschner wires 2.0/380 [40.3333] with diameter 2mm and length 380mm. In the case of mis-positioning of the wire, repeat the step.

Remove Kirschner guide Leave Kirschner wire in place.



 40.3328.000
40.3331.000
40.3333.000

Insert Kirschner guide [40.3331] into the other protective guide 11/9 [40.3328]. Mount Kirschner wire 2.0/380 [40.3333] to the surgical drive and place the wire into the femoral neck but do not perforate the femoral head. The above step should be controlled with X-Ray (*image in the drawing plane*). Verify the position of the wire in the other plane (*image in a plane perpendicular to the drawing plane*). Use only new Kirschner wires 2.0/380 [40.3333] with diameter 2mm and length 380mm.

Remove Kirschner guide Leave Kirschner wire in place.

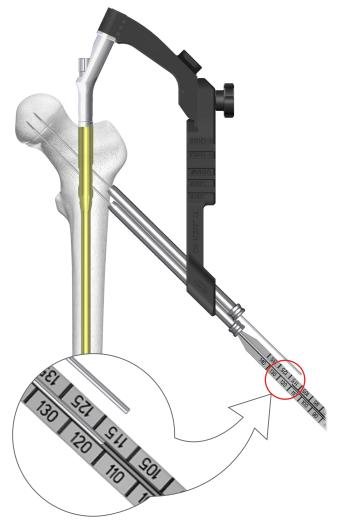


901 971 911 901 96 98 97 99 99

40.3676.000

Insert cannulated screw length measure [40.3676] onto the Kirschner wire placed in the femoral neck until it rests on the protective guide. Read the length of the reconstruction cannulated screw on the measure scale indicated by the end of the Kirschner wire. During the measurement, the end of the cannulated screw length measure should be place against the protective guide.

Remove cannulated screw length measure. Leave Kirschner wire in place.

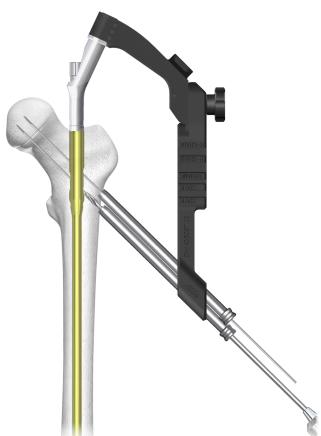


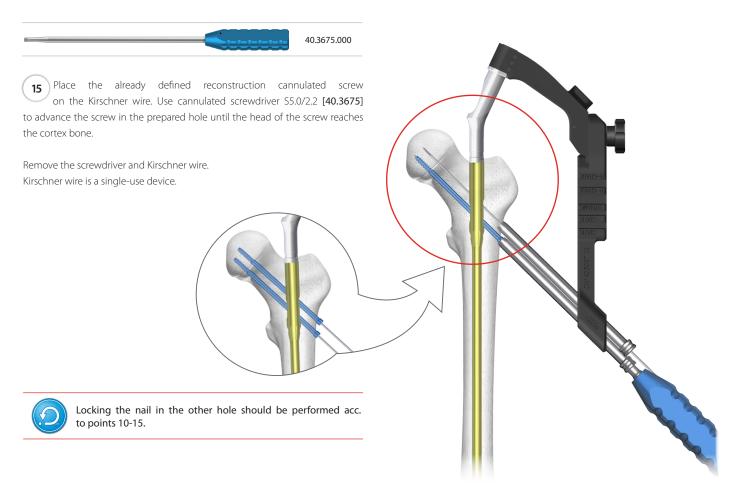
CANAL CONTRACTOR OF THE CONTRA

40.3674.000

Mount cannulated drill 6.5/2/300 [40.3674] to the drive then place it onto the Kirschner wire situated in the femoral neck and deepen the hole in the first cortical layer (*up to the nail*).

Remove the drill. Leave Kirschner wire in place.

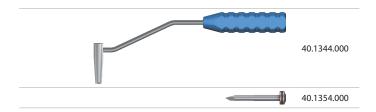




4.7. DISTAL LOCKING OF THE NAIL

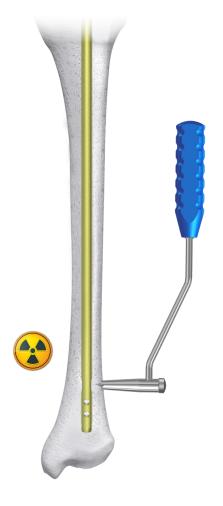
Locking of the nail using "freehand technique" and targeter D [40.1344].

With this technique, the X-Ray imaging is used to identify the entry points for the drills and to control the drilling process. It is recommended to use the angular attachment with the surgical drive while drilling, so that surgeon's hands are not directly exposed to radiation. After marking the entry points for the drill on the skin, incisions shall be made in the marked places through the soft tissues, each about 1.5cm in length.



Using X-Ray device, place the targeter D [40.1344] in the line with the nail hole. The centers of the holes in the targeter and nail have to match. The teeth of the targeter D have to be merged in the cortex. Insert the short trocar 7 [40.1354] into the hole of the targeter and advance it until cortex is reached. Mark the entry point for the drill.

Remove the trocar. Leave the targeter D in place.

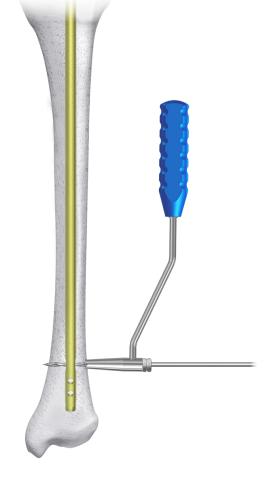






Insert the drill guide short 7/3.5 [40.1358] into the targeter hole. Mount the drill with scale 3.5/270 [40.5330.001] to the surgical drive and advance it through the drill guide. Drill the hole through both cortex layers and the nail hole. The scale on the drill shows the length of the locking element.

Remove the drill and drill guide. Leave the targeter in place.



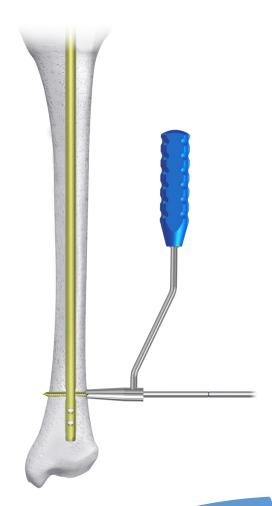


18 Insert the tip of the screwdriver S3.5 [40.3604] into the hexagonal socket of the selected locking screw. Then advance both into the hole of the targeter. Insert the locking screw until its head reaches the cortex bone.

Remove the screwdriver S3.5 and the targeter.



Locking the nail in the other holes should be performed acc. to points 16-18.



4.8. COMPRESSION METHODS



NOTE: Prior to this method, lock the nail distally first.



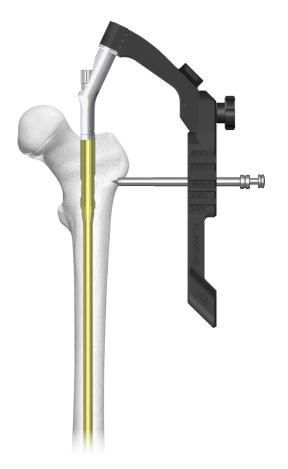
IMPORTANT: Use DYNAMIC hole of targeter 135 [40.5097] for screw insertion in compression method.

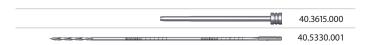


Mount the targeter 135 [40.5097] on the targeter arm [40.5091]. Insert the protective guide 9/6.5 [40.3614] with trocar 6.5 [40.3617] into the proximal hole of the targeter 135 [40.5097]. Mark on the skin the entry point for the locking screw and make adequate incision through soft tissues about 1.5cm in length. Advance the trocar until it reaches the cortex and mark the drill entry point. Advance the protective guide together with trocar until it touches the cortex.

Remove the trocar.

Leave the protective guide in the hole of the targeter.

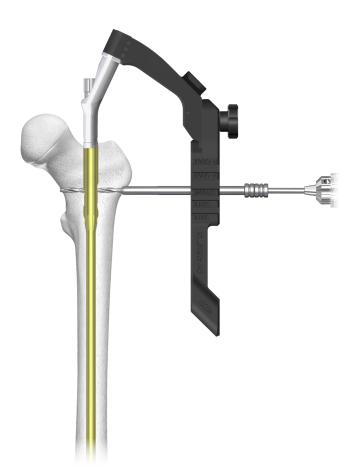




Insert the drill guide 6.5/3.5 [40.3615] into the protective guide. Mount the drill with scale 3.5/270 [40.5330.001] to the surgical drive and advance it through the drill guide. Drill the hole in the femur through its both cortex layers and the hole in the nail. The scale on the drill shows the length of the locking element.

Remove the drill and drill guide.

Leave the protective guide in the hole of the targeter.

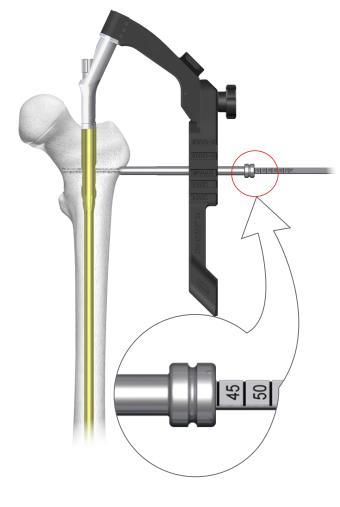


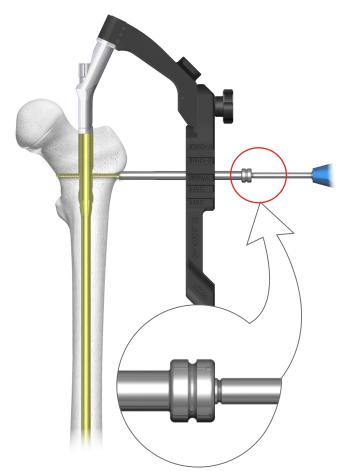




Insert the screw length measure [40.1374] through the protective guide into the drilled hole until its hook reaches the "exit" plane of the hole. Read the length of the locking screw on the measure scale B-D. During the measurement the end of the protective guide should rest on the cortex.

Remove the screw length measure. Leave the protective guide in the hole of the targeter.





40.3604.000

Insert the tip of the screwdriver S3.5 [40.3604] into the hexagonal socket of the selected locking screw. Then advance both into the protective guide. Insert the locking screw into the prepared hole until the head of the screw reaches the cortex of the bone (the groove on the screwdriver shaft matches the edge of the protective guide).

Remove the screwdriver and protective guide.

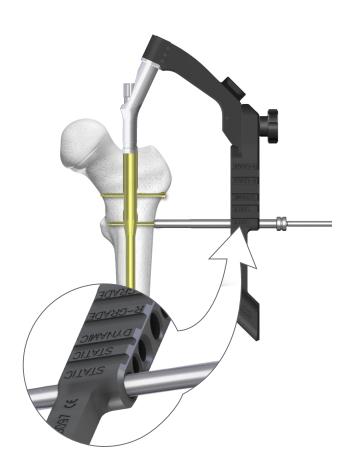


In order to make the intraoperative compression, using the screwdriver S3.5 [40.3604] insert the compression screw [40.5096] into the connecting screw M10x1 that connects the intramedullary nail with the targeter arm. When front of the screw reaches the shaft of locking screw, further screwing will cause the compression of femur and tibia.

The above steps should be controlled with X-Ray image intensifier.



In order to maintain the compression, lock the nail using the STATIC hole of targeter 135.

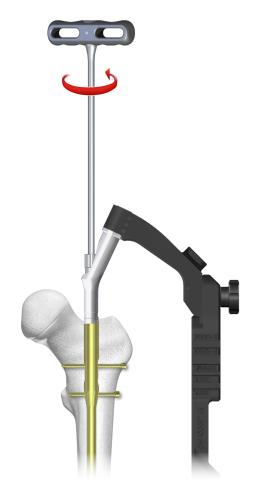




4.9. TARGETER REMOVAL, END CAP INSERTION



Using the wrench S10 [40.5526.100] remove connecting screw [40.5095] from the nail and then remove the targeter from the nail locked in the medullary canal.



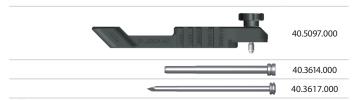


In order to secure the inner thread of the nail from bone ingrowth, insert the end cap using the cannulated screwdriver S5.0/2.2 [40.3675].





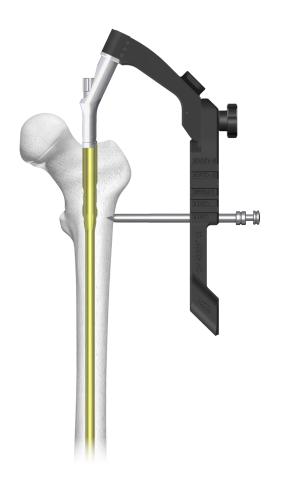
4.10. STATIC METHOD



Insert the protective guide 9/6.5 [40.3614] with trocar 6.5 [40.3617] into the distal hole of the targeter 135. Mark on the skin the entry point for the locking screw insertion and make adequate about 1.5cm long incision through the soft tissues. Advance the trocar until it reaches the cortex and mark the entry point for the drill. Advance protective guide together with trocar until it touches the cortex.

Remove the trocar.

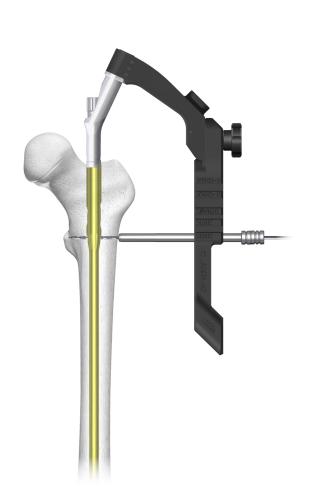
Leave the protective guide in the hole of the targeter.





Insert the drill guide 6.5/3.5 [40.3615] into the protective guide 9/6.5 [40.3614]. Mount the drill with scale 3.5/270 [40.5330.001] to the surgical drive and advance it through the drill guide. Drill the hole in the femur through its both cortex layers and the hole in the nail. The scale on the drill shows the length of the locking element.

Remove the drill and drill guide.

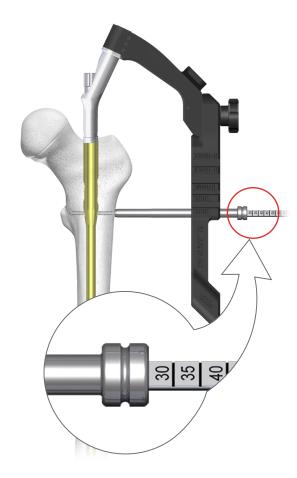






Leave protective guide in the targeter hole. Insert the screw length measure [40.1374] through the protective guide into the drilled hole until its hook reaches the "exit" plane of the hole. Read the length of the locking screw on the measure scale B-D. During the measurement the end of the protective guide should rest on the cortex.

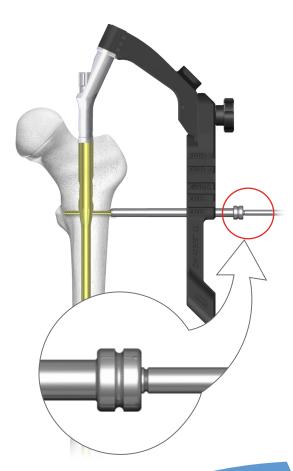
Remove the screw length measure. Leave the protective guide in the hole of the targeter.





Insert the tip of the screwdriver S3.5 [40.3604] into the hexagonal socket of the selected locking screw. Then advance both into the protective guide. Insert the locking screw into the prepared hole until the head of the screw reaches the cortex of the bone (the groove on the screwdriver shaft matches the edge of the protective guide).

Remove the screwdriver and protective guide.





Insert the protective guide 9/6.5 [40.3614] with trocar 6.5 [40.3617] into the proximal hole of the targeter 135. Advance the trocar until it reaches the cortex and mark the entry point for the drill. Advance the protective guide together with the trocar until it touches the bone.

Remove the trocar.

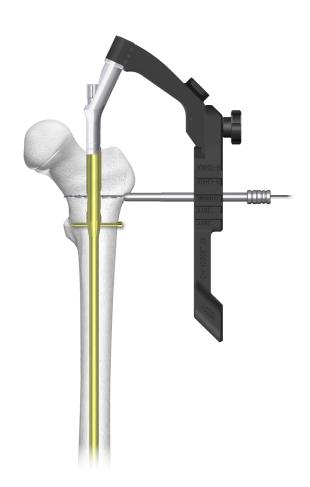
Leave the protective guide in the hole of the targeter.



 40.3615.000
40.5330.001

lnsert the drill guide 6.5/3.5 [40.3615] into the protective guide. Mount the drill with scale 3.5/270 [40.5330.001] to the surgical drive and advance it through the drill guide. Drill the hole in the femur through its both cortex layers and the nail hole. The scale on the drill shows the length of the locking element.

Remove the drill and the drill guide. Leave the protective guide in the hole of the targeter.



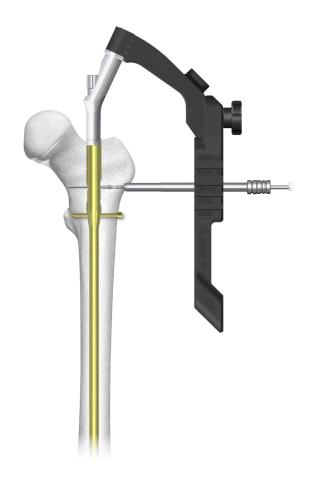


 40.3696.000
 40.5330.001

Insert the drill guide 6.5/4.5 [40.3696] into the protective guide.

Mount the drill 4.5/270 [40.1387.001] to the surgical drive and advance it through the drill guide. Drill the hole in the femur only through its first cortex up to the hole in the nail.

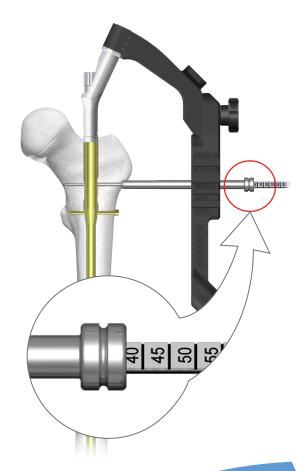
Remove the drill and the drill guide. Leave the protective guide in the hole of the targeter.



	40.3614.000
0 % % % å å å % % % % % % % % % % % % %	40.1374.000

Insert the screw length measure [40.1374] through the protective guide 9/6.5 [40.3614] into the drilled hole until its hook reaches the "exit" plane of the hole. Read the length of the locking screw on the scale B-D. During the measurement the end of the protective guide should rest on the cortex.

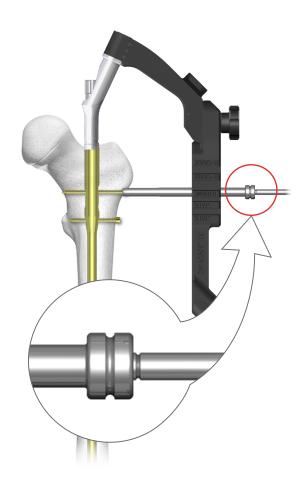
Remove the screw length measure. Leave the protective guide in the hole of the targeter.





Insert the tip of the screwdriver S3.5 [40.3604] into the hexagonal socket of the selected locking screw. Then advance both into the protective guide. Insert the locking screw in the prepared hole until the head of the screw reaches the cortex of the bone (the groove on the screwdriver shaft matches the edge of protective guide).

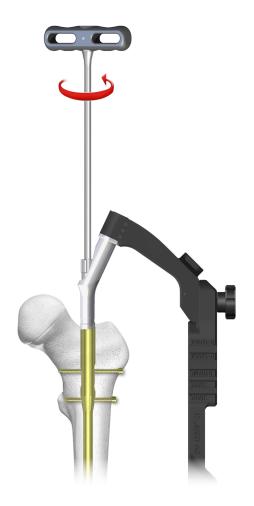
Remove the screwdriver and the protective guide.



4.11. TARGETER REMOVAL, END CAP INSERTION



Using the wrench S10 [40.5526.100] unscrew the connecting screw [40.5095] from the nail shaft and dismount the targeter from the nail locked in the medullary canal.



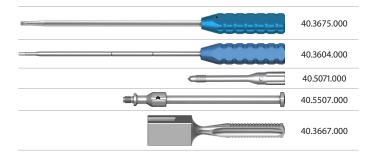


40.3675.000

In order to secure the inner thread of the nail from bone ingrowth, insert the end cap using the cannulated screwdriver S5.0/2.2 [40.3675].



4.12. NAIL REMOVAL

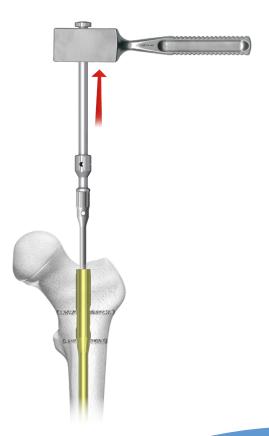


Use the cannulated screwdriver S5.0/2.2 [40.3675] to remove the end cap. Use screwdriver S3.5 [40.3604] to remove all the locking screws. Insert the connector M10x1/M12 [40.5071] into the threaded nail hole.

Attach the impactor-extractor [40.5507] to the connector and with the help of the mallet [40.3667] extract the nail from the medullary canal.



NOTE: Prior to nail extraction, remove all locking elements.



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