



TROCHANTER NÄGEL
TROCHANTERIC NAILING



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Before using the product

Before every use you should carefully check the operability of the implants and the operating instruments. They should be free of damages. If there are any cracks, fractures, discolouration, deformation or any damages on the implants, which may be due to unsuitable storing, imperfect sterilization or preliminary inefficient treatment, the use of the implant is prohibited. The assembly, perfect fitting and operation of the implants and all the necessary instruments should be tested. Perfect fitting and operation, appropriate dimensions and positions should be checked in all cases.

Requirements towards the user

The set of tools and implants can only be applied by doctors with appropriate qualifications and special information and experience in the field of using implants. The doctor who performs the operation is responsible for choosing the correct indication, the type of the implants and the operation technology.

Contraindication

Implantation is not recommended if the patient's health condition makes it difficult to accept it or problems are expected during the recovery process e.g. decreased circulation, weak quality or quantity bone system, impossibility of rehabilitation due to the mental condition of the patient etc.

General warnings

Before the operation the patient should be informed about the possible disadvantages of the implant. By choosing the appropriate implant the type of the bone fracture, the weight and activity of the patient should be taken into consideration. The solidity of the implant is restricted, so it is necessary to avoid overloading it by overweight. The biomechanical loading of the implant should be minimized, as much as possible. During the application of the implant the process of recovering is to be controlled. By repetitive loading or by protracted one recovering the implants may be deformed, dislocated. This needs intervention in time. Repeated deformation of the implant should be avoided. The implants are only for one-time use, a re-implantation is prohibited. The type and the size of the implants should be defined according to the specific case. Before operation the user's manual of the implants should be studied carefully

Applied materials

The applied materials are of best quality, specially developed for implants with high solidity, made of non magnetic stainless steel and titan alloys. Combined use of products of other manufacturers may start damaging processes, which the digimed Medizintechnik can't take the responsibility for.

Protection of the product, packaging, preparation for use

The implants come clean, without any production pollution for packaging. Before use circumstances are to be assured where the integrity of the packaging will be preserved. The storage should be in a clean, dry place avoiding extra temperature and chemicals.

Sterilisation

Before use unpack the implant and sterilize due to the prescriptions. Avoid the touch by bare hand. The sterilisation of the instruments should be done together with the tray. The instructions of the producers should always be considered.

Interaction with medicines

An interaction of the implants with medicines is not known.



„Y“-type trochanteric nail, light, short:

proximal diameter 15.5 mm, cannulated, distal diameter 9 -11 mm, with CCD angle 125°, 130° or 135°, length from 180 to 240 mm, steel or titanium alloy

Dynamic screw:

Thread diameter 10.5 mm, core diameter 7 mm, pitch 3 mm, steel or titanium alloy
 Fixing screw: steel (Ref. No. 92-12401-08025) or titanium alloy (Ref. No. 92-32401-08025)
 Locking screw: diameter 4.9 mm, steel or titanium alloy
 End cup: steel (Ref. No. 92-12400-15022) or titanium alloy (Ref. No. 92-32400-15022)

„Y“-type trochanteric nail, light, long:

proximal diameter 15.5 mm, cannulated, distal diameter 9 -10 mm, with CCD angle 125°, 130° or 135°, length from 340 to 420 mm, steel or titanium alloy

Dynamic screw:

Thread diameter 10.5 mm, core diameter 7 mm, pitch 3 mm, steel or titanium alloy
 Fixing screw: steel (Ref. No. 92-12401-08025) or titanium alloy (Ref. No. 92-32401-08025)
 Locking screw: diameter 4.9 mm, steel or titanium alloy
 End cup: steel (Ref. No. 92-12400-15022) or titanium alloy (Ref. No. 92-32400-15022)

Grooved design at the 240 mm long nail for the prevention of cortical bone erosion



Aiming assistance for increased implantation accuracy



Plate box and dismantlable part for easy cleaning

„Y“-TYPE TROCHANTERIC NAIL, LIGHT, SHORT, CANNULATED, PROXIMAL DIAMETER 15.5 mm

Ref. No.							
α 125°		α 130°		α 135°		Ø (mm)	L (mm)
steel	titanium alloy	steel	titanium alloy	steel	titanium alloy		
92-14551-09180	92-34551-09180	92-14511-09180	92-34511-09180	92-14531-09180	92-34531-09180	9	180
92-14551-09200	92-34551-09200	92-14511-09200	92-34511-09200	92-14531-09200	92-34531-09200	9	200
92-14551-09220	92-34551-09220	92-14511-09220	92-34511-09220	92-14531-09220	92-34531-09220	9	220
92-14551-09240	92-34551-09240	92-14511-09240	92-34511-09240	92-14531-09240	92-34531-09240	9	240
92-14551-10180	92-34551-10180	92-14511-10180	92-34511-10180	92-14531-10180	92-34531-10180	10	180
92-14551-10200	92-34551-10200	92-14511-10200	92-34511-10200	92-14531-10200	92-34531-10200	10	200
92-14551-10220	92-34551-10220	92-14511-10220	92-34511-10220	92-14531-10220	92-34531-10220	10	220
92-14551-10240	92-34551-10240	92-14511-10240	92-34511-10240	92-14531-10240	92-34531-10240	10	240
92-14551-11180	92-34551-11180	92-14511-11180	92-34511-11180	92-14531-11180	92-34531-11180	11	180
92-14551-11200	92-34551-11200	92-14511-11200	92-34511-11200	92-14531-11200	92-34531-11200	11	200
92-14551-11220	92-34551-11220	92-14511-11220	92-34511-11220	92-14531-11220	92-34531-11220	11	220
92-14551-11240	92-34551-11240	92-14511-11240	92-34511-11240	92-14531-11240	92-34531-11240	11	240

„Y“-TYPE TROCHANTERIC NAIL, LIGHT, SHORT, CANNULATED, PROXIMAL DIAMETER 15.5 mm

Ref. No.							
long,right α 125°		long,right α 130°		long,right α 135°		Ø (mm)	L (mm)
steel	titanium alloy	steel	titanium alloy	steel	titanium alloy		
92-14615-34125	92-34615-34125	92-14615-34130	92-34615-34130	92-14615-34135	92-34615-34135	9	340
92-14615-36125	92-34615-36125	92-14615-36130	92-34615-36130	92-14615-36135	92-34615-36135	9	360
92-14615-38125	92-34615-38125	92-14615-38130	92-34615-38130	92-14615-38135	92-34615-38135	9	380
92-14615-40125	92-34615-40125	92-14615-40130	92-34615-40130	92-14615-40135	92-34615-40135	9	400
92-14615-42125	92-34615-42125	92-14615-42130	92-34615-42130	92-14615-42135	92-34615-42135	9	420
92-14614-34125	92-34614-34125	92-14614-34130	92-34614-34130	92-14614-34135	92-34614-34135	10	340
92-14614-36125	92-34614-36125	92-14614-36130	92-34614-36130	92-14614-36135	92-34614-36135	10	360
92-14614-38125	92-34614-38125	92-14614-38130	92-34614-38130	92-14614-38135	92-34614-38135	10	380
92-14614-40125	92-34614-40125	92-14614-40130	92-34614-40130	92-14614-40135	92-34614-40135	10	400
92-14614-42125	92-34614-42125	92-14614-42130	92-34614-42130	92-14614-42135	92-34614-42135	10	420

long,left α 125°		long,left α 130°		long,left α 135°		Ø (mm)	L (mm)
steel	titanium alloy	steel	titanium alloy	steel	titanium alloy		
92-14605-34125	92-34605-34125	92-14605-34130	92-34605-34130	92-14605-34135	92-34605-34135	9	340
92-14605-36125	92-34605-36125	92-14605-36130	92-34605-36130	92-14605-36135	92-34605-36135	9	360
92-14605-38125	92-34605-38125	92-14605-38130	92-34605-38130	92-14605-38135	92-34605-38135	9	380
92-14605-40125	92-34605-40125	92-14605-40130	92-34605-40130	92-14605-40135	92-34605-40135	9	400
92-14605-42125	92-34605-42125	92-14605-42130	92-34605-42130	92-14605-42135	92-34605-42135	9	420
92-14604-34125	92-34604-34125	92-14604-34130	92-34604-34130	92-14604-34135	92-34604-34135	10	340
92-14604-36125	92-34604-36125	92-14604-36130	92-34604-36130	92-14604-36135	92-34604-36135	10	360
92-14604-38125	92-34604-38125	92-14604-38130	92-34604-38130	92-14604-38135	92-34604-38135	10	380
92-14604-40125	92-34604-40125	92-14604-40130	92-34604-40130	92-14604-40135	92-34604-40135	10	400
92-14604-42125	92-34604-42125	92-14604-42130	92-34604-42130	92-14604-42135	92-34604-42135	10	420

DYNAMIC SCREW FOR LIGHT, SHORT „Y“-TYPE TROCHANTERIC NAIL

Thread diameter: 10.5 mm Core diameter: 7.0 mm Pitch: 3.0 mm



Ref. No.			Ref. No.		
steel	titanium alloy	L (mm)	steel	titanium alloy	L (mm)
92-12721-11075	92-32721-11075	75	92-12721-11110	92-32721-11110	110
92-12721-11080	92-32721-11080	80	92-12721-11115	92-32721-11115	115
92-12721-11085	92-32721-11085	85	92-12721-11120	92-32721-11120	120
92-12721-11090	92-32721-11090	90	92-12721-11125	92-32721-11125	125
92-12721-11095	92-32721-11095	95	92-12721-11130	92-32721-11130	130
92-12721-11100	92-32721-11100	100	92-12721-11135	92-32721-11135	135
92-12721-11105	92-32721-11105	105	92-12721-11140	92-32721-11140	140

FIXING SCREW FOR LIGHT, SHORT AND LONG „Y“-TYPE TROCHANTERIC NAIL



Ref. No.	
steel	titanium alloy
92-12401-08025	92-32401-08025

END CUP SCREW FOR LIGHT, SHORT AND LONG „Y“-TYPE TROCHANTERIC NAIL



Ref. No.	
steel	titanium alloy
92-12400-15022	92-32400-15022

LOCKING SCREW FOR ALL TYPE OF „Y“ TROCHANTERIC NAIL

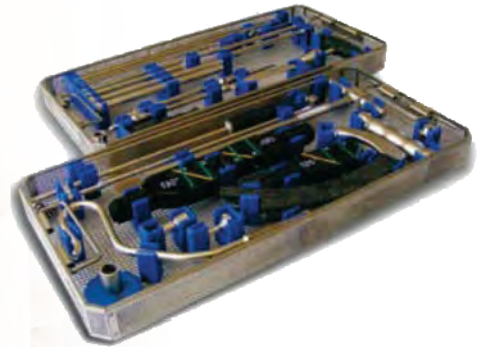
Thread diameter: 4.9 mm Core diameter: 4.2 mm Pitch: 2.75 mm
 Head diameter: 8.0 mm Hex width: 3.5 mm

Ref. No.			Ref. No.			Ref. No.		
steel	titanium alloy	L (mm)	steel	titanium alloy	L (mm)	steel	titanium alloy	L (mm)
92-12200-49020	92-32200-49020	20	92-12200-49042	92-32200-49042	42	92-12200-49064	92-32200-49064	64
92-12200-49022	92-32200-49022	22	92-12200-49044	92-32200-49044	44	92-12200-49065	92-32200-49065	65
92-12200-49024	92-32200-49024	24	92-12200-49045	92-32200-49045	45	92-12200-49066	92-32200-49066	66
92-12200-49025	92-32200-49025	25	92-12200-49046	92-32200-49046	46	92-12200-49068	92-32200-49068	68
92-12200-49026	92-32200-49026	26	92-12200-49048	92-32200-49048	48	92-12200-49070	92-32200-49070	70
92-12200-49028	92-32200-49028	28	92-12200-49050	92-32200-49050	50	92-12200-49072	92-32200-49072	72
92-12200-49030	92-32200-49030	30	92-12200-49052	92-32200-49052	52	92-12200-49075	92-32200-49075	75
92-12200-49032	92-32200-49032	32	92-12200-49054	92-32200-49054	54	92-12200-49076	92-32200-49076	76
92-12200-49034	92-32200-49034	34	92-12200-49055	92-32200-49055	55	92-12200-49078	92-32200-49078	78
92-12200-49035	92-32200-49035	35	92-12200-49056	92-32200-49056	56	92-12200-49080	92-32200-49080	80
92-12200-49036	92-32200-49036	36	92-12200-49058	92-32200-49058	58	92-12200-49085	92-32200-49085	85
92-12200-49038	92-32200-49038	38	92-12200-49060	92-32200-49060	60	92-12200-49090	92-32200-49090	90
92-12200-49040	92-32200-49040	40	92-12200-49062	92-32200-49062	62	92-12200-49100	92-32200-49100	100

SURGICAL SET

Two trays for „Y“-type light trochanteric nailing instrument set, complete with instruments:

Ref. No. SET-94501-10000



TRAY I. FOR „Y“-TYPE LIGHT TROCHANTERIC NAILING

Ref. No. TRAY-94501-10000

Pos.	Ref. No.	Description	Pcs.
1	92-94501-00100	Targeting arm, radiolucent	1
2	92-94501-03000	Aiming arm attachment, 125°	1
3	92-94501-00301	Aiming arm attachment, 135°	1
4	92-94501-00201	Aiming arm attachment, 130°	1
5	92-94500-00400	Aiming arm fixing screw	1
6	92-94501-00500	Nail adapter screw	1
7	92-94500-00800	Compressing device	1
8	92-94500-01100	Slide hammer	1
9	92-94500-02501	Hammer guide head	1
10	92-94500-00600	T-wrench	1
11	92-15000-35400	Kirschner wire, 3.5 x 400 mm	1
12	92-94500-01000	Hammer guide shaft	1
13	92-94500-00203	Aiming arm clamp screw	3
14	92-94650-00700	Threaded stem for dynamic screw	1
15	92-94501-00900	Hollow reamer Ø 15.5 mm	1



Pos.	Ref. No.	Description	Pcs.
1	92-94501-00100	Proximal targeting arm, radiolucent	1



Pos.	Ref. No.	Description	Pcs.
2	92-94501-03000	Aiming arm attachment, 125°	1



Pos.	Ref. No.	Description	Pcs.
3	92-94501-00301	Aiming arm attachment, 135°	1



Pos.	Ref. No.	Description	Pcs.
4	92-94501-00201	Aiming arm attachment, 130°	1



Pos.	Ref. No.	Description	Pcs.
5	92-94500-00400	Aiming arm fixing screw	1



Pos.	Ref. No.	Description	Pcs.
6	92-94501-00500	Nail adapter screw	1



Pos.	Ref. No.	Description	Pcs.
7	92-94500-00800	Compressing device	1



Pos.	Ref. No.	Description	Pcs.
8	92-94500-01100	Slide hammer	1

Pos.	Ref. No.	Description	Pcs.
9	92-94500-02501	Hammer guide head	1



Pos.	Ref. No.	Description	Pcs.
10	92-94500-00600	T-wrench	1



Pos.	Ref. No.	Description	Pcs.
11	92-15000-35400	Kirschner wire, 3.5 x 400 mm	1



Pos.	Ref. No.	Description	Pcs.
12	92-94500-01000	Hammer guide shaft	1



Pos.	Ref. No.	Description	Pcs.
13	92-94500-00203	Aiming arm clamp screw	1



Pos.	Ref. No.	Description	Pcs.
14	92-94650-00700	Threaded stem for dynamic screw	1

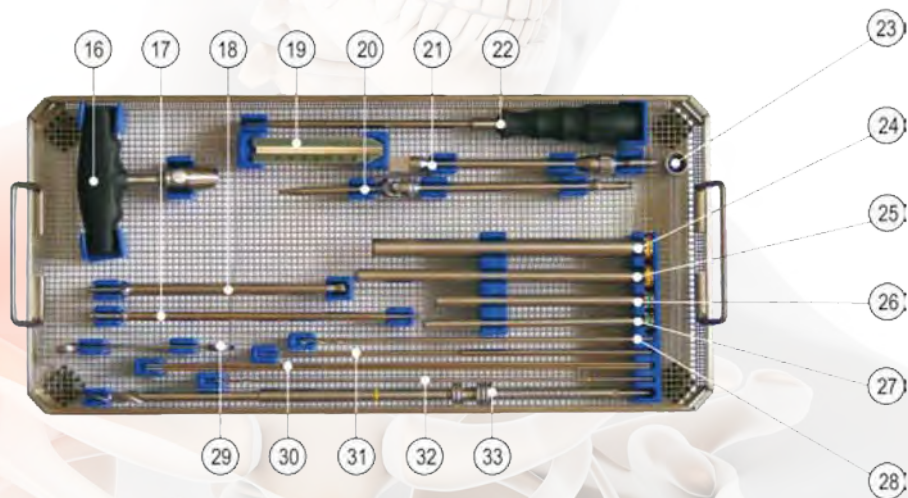


Pos.	Ref. No.	Description	Pcs.
15	92-94501-00900	Hollow reamer Ø 15.5 mm	1



TRAY II. FOR „Y“-TYPE LIGHT TROCHANTERIC NAILING

Ref. No.
TRAY-94501-20000



Pos.	Ref. No.	Description	Pcs.
16	92-99000-00006	Universal chuck with T-handle, cannulated	1
17	92-94500-02600	Hexagonal screwdriver with quick coupling, 3.5 mm	1
18	92-94500-02200	Hexagonal spherical screwdriver shaft, 10 mm	1
19	92-94500-01700	Gauge for dynamic screw	1
20	92-94501-02300	Cardan screwdriver with quick coupling, 3.5 mm	1
21	92-94501-02400	Cardan rod for removal device	1
22	92-94500-02100	Hexagonal screwdriver, 3.5 mm	1
23	92-94500-01004	Fixation sleeve for removal device	1
24	92-94501-01200	Soft tissue protector for dynamic screw, (yellow)	1
25	92-94501-01300	Drill sleeve for guide wire, (yellow)	1
26	92-94500-01800	Soft tissue protector for locking screw, (green)	1
27	92-94500-01900	Drill sleeve for locking drill, (green)	1
28	92-99010-40310	Spiral drill, 4 x 310 mm, (green)	1
29	92-99000-00004	Wrench, 12 mm	1
30	92-15020-30400	Threaded Kirschner guide wire, 3 x 400 mm	4
31	92-94500-02000	Depth gauge for locking screw	1
32	92-99010-32350	Spiral drill, 3.2 x 350 mm, (yellow)	1
33	92-94501-01400	Reamer for dynamic screw, (yellow)	1

Pos.	Ref. No.	Description	Pcs.
16	92-99000-00006	Universal chuck with T-handle, cannulated	1



Pos.	Ref. No.	Description	Pcs.
17	92-94500-02600	Hexagonal screwdriver with quick coupling, 3.5 mm	1



Pos.	Ref. No.	Description	Pcs.
18	92-94500-02200	Hexagonal spherical screwdriver shaft, 10 mm	1



Pos.	Ref. No.	Description	Pcs.
19	92-94500-01700	Gauge for dynamic screw	1



Pos.	Ref. No.	Description	Pcs.
20	92-94501-02300	Cardan screwdriver with quick coupling, 3.5 mm	1



Pos.	Ref. No.	Description	Pcs.
21	92-94501-02400	Cardan rod for removal device	1





Pos.	Ref. No.	Description	Pcs.
22	92-94500-02100	Hexagonal screwdriver, 3.5 mm	1



Pos.	Ref. No.	Description	Pcs.
23	92-94500-01004	Fixation sleeve for removal device	1



Pos.	Ref. No.	Description	Pcs.
24	92-94501-01200	Soft tissue protector for dynamic screw, (yellow)	1



Pos.	Ref. No.	Description	Pcs.
25	92-94501-01300	Drill sleeve for guide wire, (yellow)	1



Pos.	Ref. No.	Description	Pcs.
26	92-94500-01800	Soft tissue protector for locking screw, (green)	1



Pos.	Ref. No.	Description	Pcs.
27	92-94500-01900	Drill sleeve for locking drill, (green)	1

Pos.	Ref. No.	Description	Pcs.
28	92-99010-40310	Spiral drill, 4 x 310 mm, (green)	1



Pos.	Ref. No.	Description	Pcs.
29	92-99000-00004	Wrench, 12 mm	1



Pos.	Ref. No.	Description	Pcs.
30	92-15020-30400	Threaded Kirschner guide wire 3 x 400 mm	1



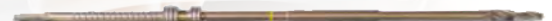
Pos.	Ref. No.	Description	Pcs.
31	92-94500-02000	Depth gauge for locking screw	1



Pos.	Ref. No.	Description	Pcs.
32	92-99010-32350	Spiral drill, 3,2 x 350 mm, (yellow)	1



Pos.	Ref. No.	Description	Pcs.
33	92-94501-01400	Reamer for dynamic screw, (yellow)	1



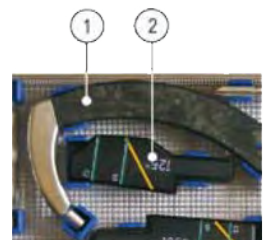
1 PREOPERATIVE PLANNING

Preoperative X-ray of the uninjured distal femur is used to estimate proper nail diameter, nail length, and CCD-angle (caput-collumdiaphyseal angle).

- ☠ Fluoroscopic control is advised.
The image intensifier must be in a standard position for ap and lateral view.

! Numbers in brackets after instrument names refer to the list number in the instrument tray.

Pay special attention, important step.



2 ASSEMBLING OF THE INSTRUMENTS

Attach the intramedullary nail to the radiolucent aiming arm (1) with the nail adapter screw (6). Secure the nail with the 10 mm hexagonal screwdriver (16, 18). Depending on the CCD angle of the implant (125°/130°/135°) mount the correct aiming arm attachment (2, 3,4) with the aiming arm fixing screw (5).

! Drive the fixing screw into the nail, but the tip of the screw should not hinder the rotation of the dynamic screw.



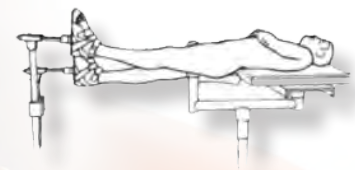
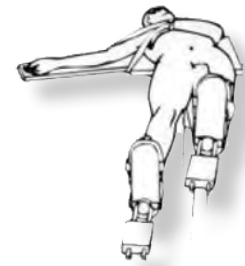
3 Put into the dynamic screw hole the yellow soft tissue protector (24) and reamer (33). Put into the distal hole the green soft tissue protector (26), drill sleeve (27) and 4 mm spiral drill (28).



4 POSITIONING OF THE PATIENT AND REPOSITION

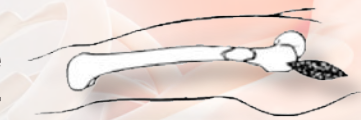
- With the patient supine, abduct the unaffected limb while adducting the trunk and the affected extremity and flex the affected hip 15°.

Apply traction with a foot holder, and rotate the foot to obtain correct rotational alignment.



5 SKIN INCISION

Make an approx. 5 cm long skin incision proximal to the greater trochanter. Incise the fascia of the gluteus maximus, identify the subfascial plane, and palpate the trochanteric fossa.



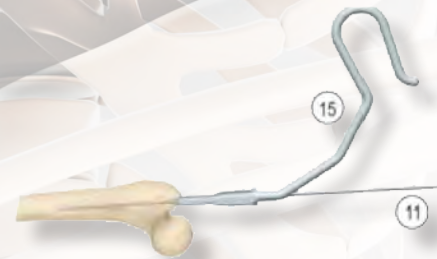
6 DETERMINING OF THE ENTRY POINT

- With a 3.5 x 400 mm threaded Kirschner wire (11) find the trochanteric fossa. The tip of the pin should be in the midplane of the femur in both anteroposterior and lateral views. Under fluoroscopic control insert the Kirschner wire into the medullary canal.



7 OPENING OF THE FEMUR

- Insert the cannulated 15.5 mm Hollow reamer (15) over the Kirschner wire to enlarge the entry portal. Ream the proximal femur until the reamer sink into it.



8 INSERTING OF THE NAIL

- ☠ If solid nail is used, remove the Kirschner wire, if cannulated, it should be inserted over the wire. Insert the nail carefully by hand until the axis of the dynamic screw hole reaches the center of the femoral neck. If resistance is encountered, stop and withdraw the implant, and push it with slight twisting, or use a smaller diameter.

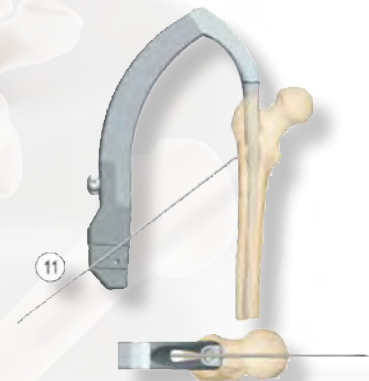
! Never hit the aiming arm. In difficult cases you may use the extraction device to support insertion.



9 X-RAY EVALUATION

- ☠ Put a Kirschner wire (11) into the proximal hole of the aiming arm. Its shadow in lateral view should be in the center of the femoral neck.

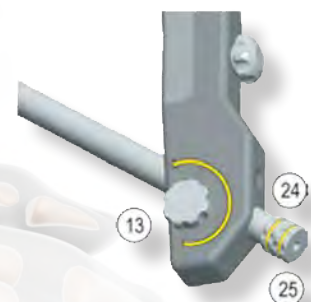
The lateral groove of the aiming arm is parallel to the dynamic head screw.



10 SKIN INCISION AT DYNAMIC SCREW

Put the yellow soft tissue protector (24) and drill sleeve (25) into the aiming arm, incise the skin and fascia and push the drill sleeves to the bone.

With the clamp screw on the aiming arm(13) fix the position.



11 PRE-DRILLING FOR THE GUIDE WIRE

Drill through the cortical bone with the yellow 3.2 mm spiral drill (33).

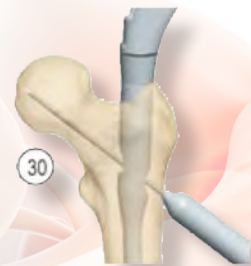
- ! The threaded Kirschner wire may damage or bend by the cortical bone, therefore is important to rough-drill it by the tempered spiral drill.



12 INSERTION OF THE GUIDE WIRE

Insert the 3×400 mm threaded Kirschner guide wire (30) into the femoral head to a level approximately 5 mm below the subchondral bone.

- ☠ Confirm the position of the guide wire within the head with ap and lateral views.



13 LENGTH MEASUREMENT

Measure the length of the dynamic screw on the guide wire with the gauge (19).

- ! Verify that drill sleeves are against bone. After the determination of the length of screw - while keeping the wire remove the drill sleeve (25).



14 DRILLING FOR THE DYNAMIC SCREW

Align the length's buffer to the right position, which is placed on the drill for the dynamic screw (33).

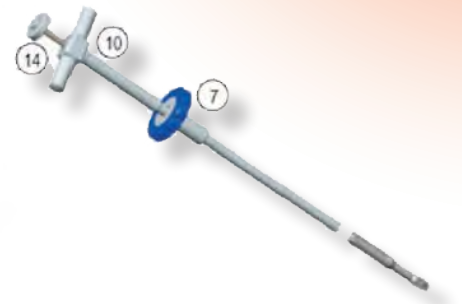
Drill through the soft tissue protector till buffer (24).



15 ASSEMBLING WRENCH FOR DYNAMIC SCREW

Drive the threaded stem (14) through the T-wrench (10) from above, drive the compressing device (7) from below.

Set the dynamic screw with the threaded stem.



16 INSERTING OF THE DYNAMIC SCREW

- ⚠ Insert the dynamic screw over the guide wire. The tip of the screw should be approximately 5 mm before the tip of the guide wire.

The compressing device (7.) may be used to compress the fracture.



17 ROTATIONAL STABILIZATION

Use the cardan screwdriver (20) with the T-handle (16) to tighten the fixing screw in the nail. The tip of the fixing screw should be in a groove of the dynamic screw to prevent its rotation.

- ! Unscrew the fixing screw by a quarter turning in order to dynamize the fixation.

Remark:

The „T-wrench“ can give you a guideline for the position of the hole on the stem of the dynamic screw. If the handle placed to the right position to the targeting device, then the hole and the fixing screw suited to each other.

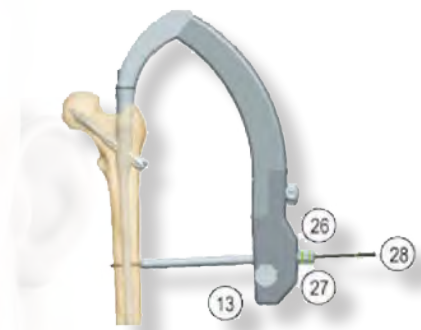


18 REMOVING OF THE DRILL SLEEVES

Remove the dynamic screw wrench by twisting out the threaded stem.

Remove the guide wire.

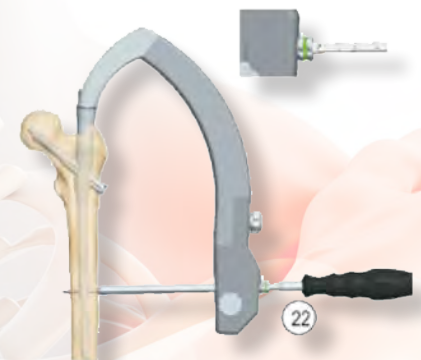
Remove the yellow soft tissue protector by releasing the clamp screw on the aiming arm.



19 DISTAL INTERLOCKING

- ⚠ There is a round and an oval hole on the distal part of the nail to produce static or dynamic interlocking.

Put the green soft tissue protector (26) and drill sleeve (27) into the aiming arm, incise the skin, push the drill sleeve to the one and fix the position by the clamp screw (13).



With the green 4 mm spiral drill (28) drill through the nail and the opposite cortex. Read the length on the drill or use the depth gauge (31) to determine screw length.

Caution - consideration!

The measured length is the thread length only, add 4 to 5 mm for determining the screw length!

Interlock the nail with 4.9 mm interlocking screw, obtain a final X-ray view to confirm satisfactory placement.

20 CLOSURE

Remove the aiming arm by releasing the nail adapter screw (6) with the 10 mm hexagonal screwdriver (18).

Close the proximal part of the nail with a Cap screw (12400-17016), tighten it with the cardan screwdriver (16, 20).



21 REMOVING OF THE CAP SCREW

Remove the cap screw with the cardan screwdriver (16, 20).



22 UNSCREW OF THE FIXING SCREW

Unscrew the fixing screw with the same screwdriver, removal is not necessary



23 REMOVING OF THE DYNAMIC SCREW

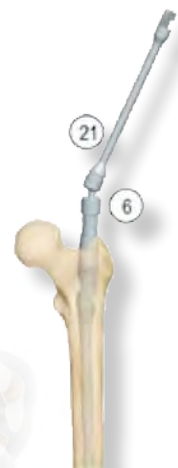
Drive the threaded stem (14) through the T-wrench (10) from above.

Attach the wrench to the dynamic screw, which can be removed by counterclockwise turning.



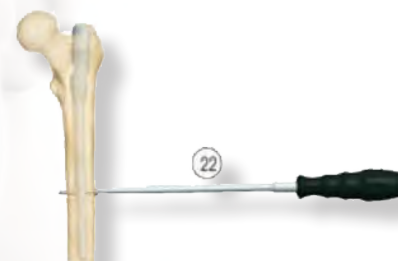
24 ATTACHING OF THE REMOVAL DEVICE TO THE NAIL

Drive the nail adapter screw (6) into the nail, attach the cardan rod (21) to its internal thread.



25 REMOVING OF THE INTERLOCKING SCREW

Remove all the interlocking screws with the screwdriver (22).



26 ASSEMBLING OF THE REMOVAL HITTING DEVICE

Put the slide hammer (8) over the hammer guide shaft (12), close its end with the hammer guide head (9) and secure it with the 12 mm wrench (29).

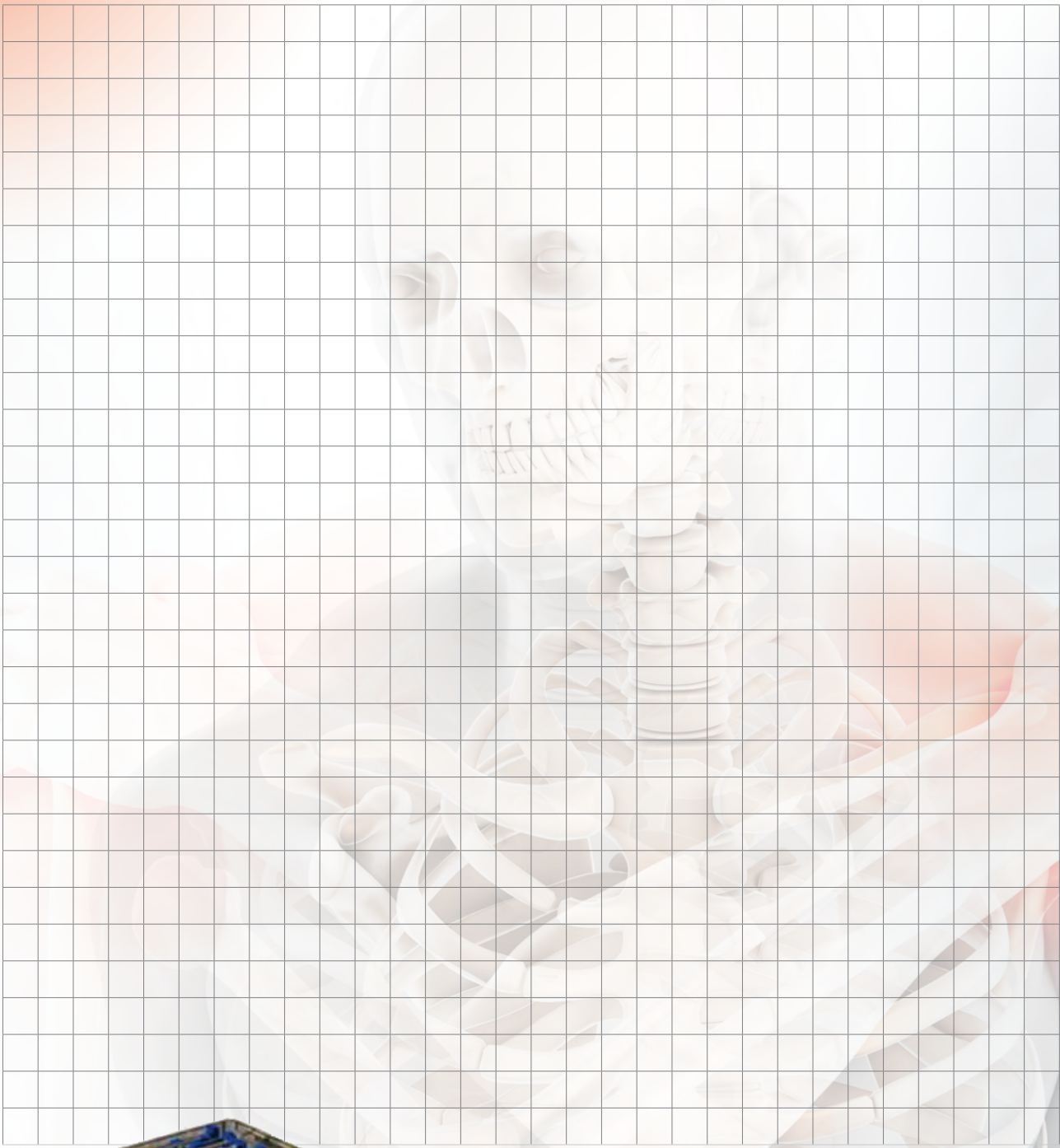


27 REMOVING OF THE TROCHANTERIC NAIL

Put the removal device fixation sleeve (23) over the cardan rod (20) and assemble with the hammer shaft. The implantat can be removed with the slide hammer.







An der falschen Stelle gebohrt, zu tief angesetzt oder Knochen gebrochen. Dann vergiss nicht Schrauben, Ringe, Draht und passende Klinge. Willst für die Heilung brennen, Kanne voll, dem Patient vom schlechten trennen, Manchmal schmerzhaft wie Nadeln stechen oder sterile Instrumente farblich markiert auf Silikon Matten liegen ohne Flecken, Doch vorher noch den Abstand messen. **Und all die anderen wichtigen Dinge nicht vergessen.**

Drilled in the wrong place, set too deep or broken bone. Then do not forget screws, rings, wire and matching blade. Want to burn for healing, can full, the patient from the bad separate, Sometimes painful as needles prick or sterile instruments color-marked on silicone mats lie without stains, But before still measure the distance. **And all the other important things do not forget.**



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