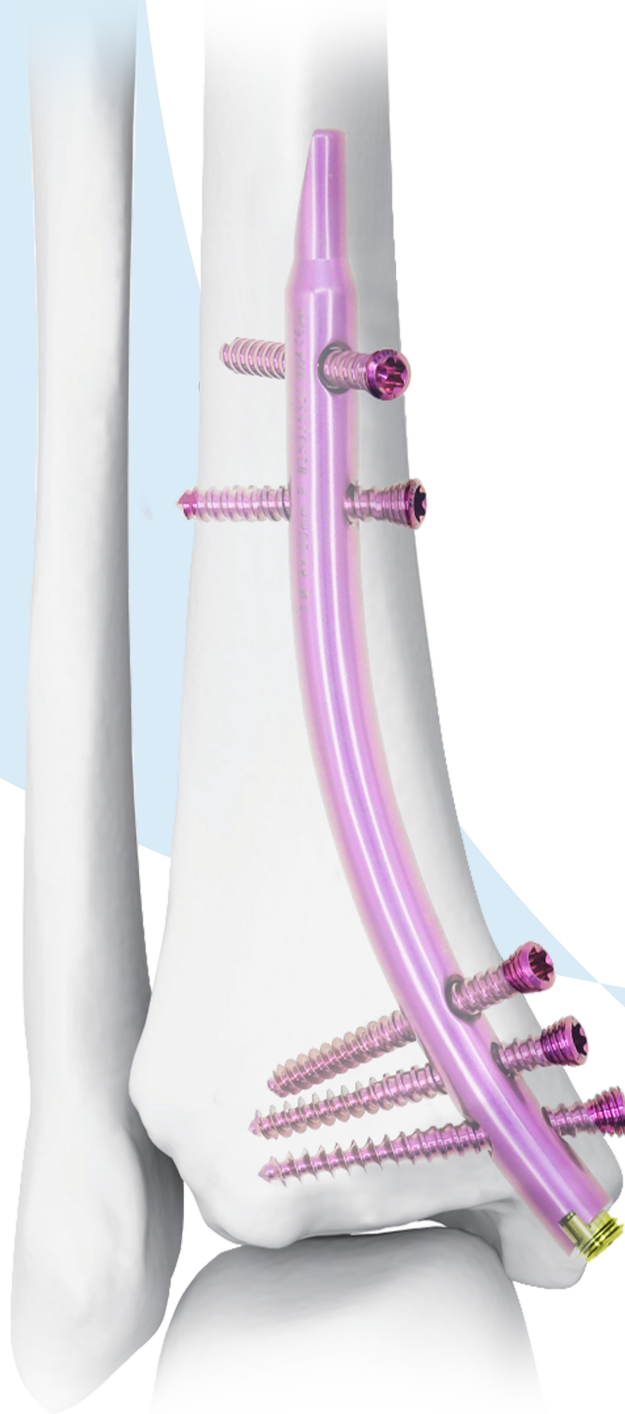




CZMEDITECH

Distal Tibial Nail (DTN)

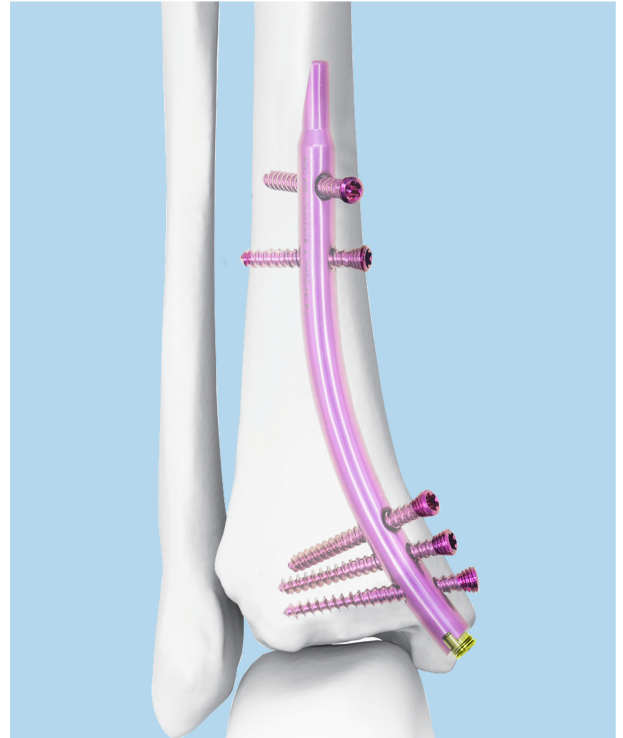
Surgical Technique



Distal Tibial Nail (DTN)

Nail

- Three distal divergent locking screws, provide effective support/fixation.
- Two proximal angled locking screws, avoid fracture rotation and displacement.
- Special anatomical curvature, ensure the nail is in the optimal position of medullary cavity.
- Distal flat cutting design, avoid insertion difficulties.
- Proximal oblique cutting design, reduce irritation to soft tissues of medial malleolus.



Product Features

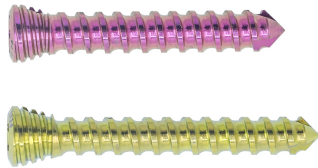
- Two Diameters: $\phi 7$, $\phi 8$
- Three Lengths: 110, 120, 140
- Left/Right
- 6 main nails in total



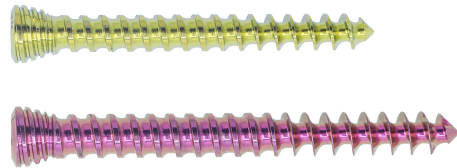
Main nail

NO.	SPECIFICATION
1	$\Phi 7 \times 110L$
2	$\Phi 7 \times 110R$
3	$\Phi 8 \times 120L$
4	$\Phi 8 \times 120R$
5	$\Phi 8 \times 140L$
6	$\Phi 8 \times 140R$

- Two Diameters: $\phi 3.5$, $\phi 4.0$
Two Styles: Short type, Long type

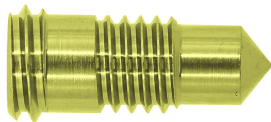


Short Locking screw
(Cortical thread, Used for the shaft)

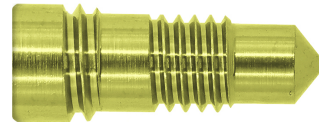


Long Locking screw
(Cortical + Cancellous thread, Used for epiphysis)

- Two length-spec, Clinically flexible
Prevent soft tissue ingrowth, op removal

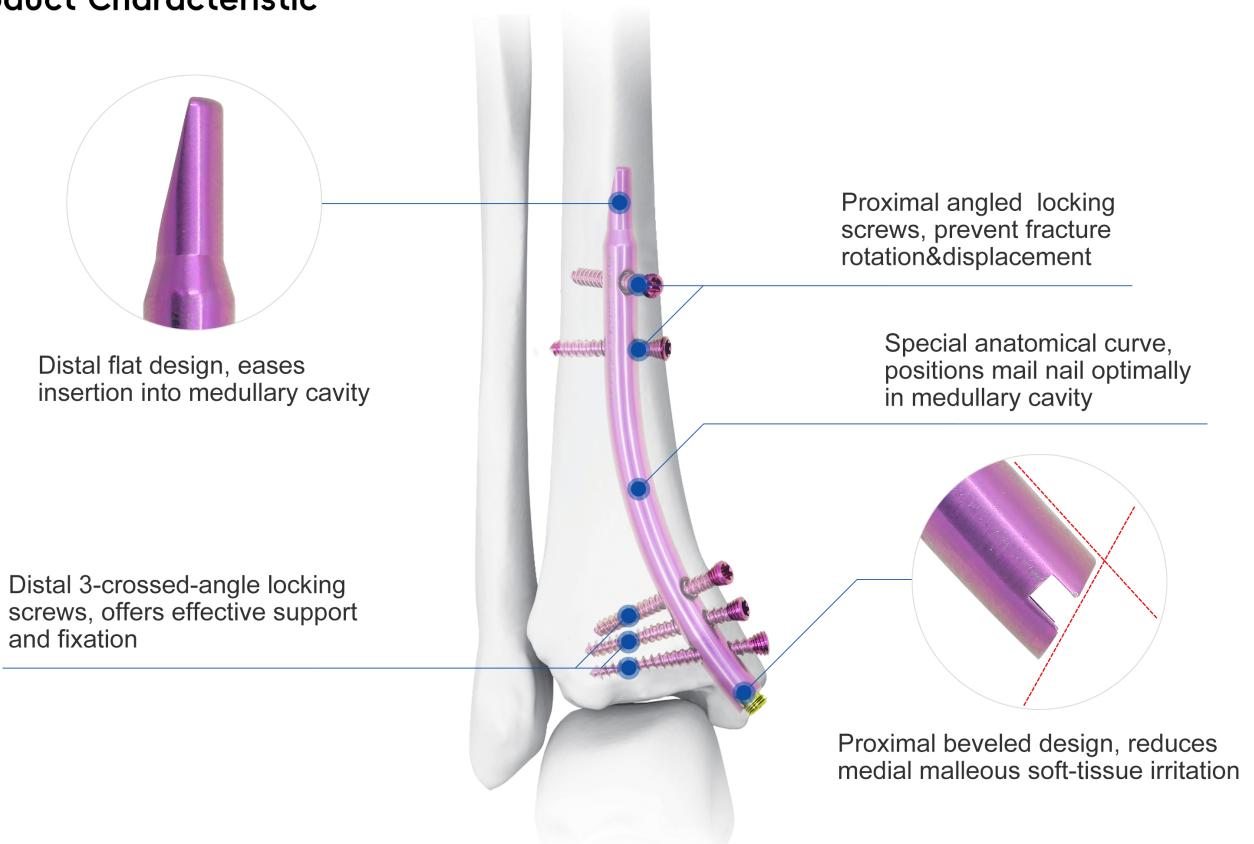


End Cap
(0mm)

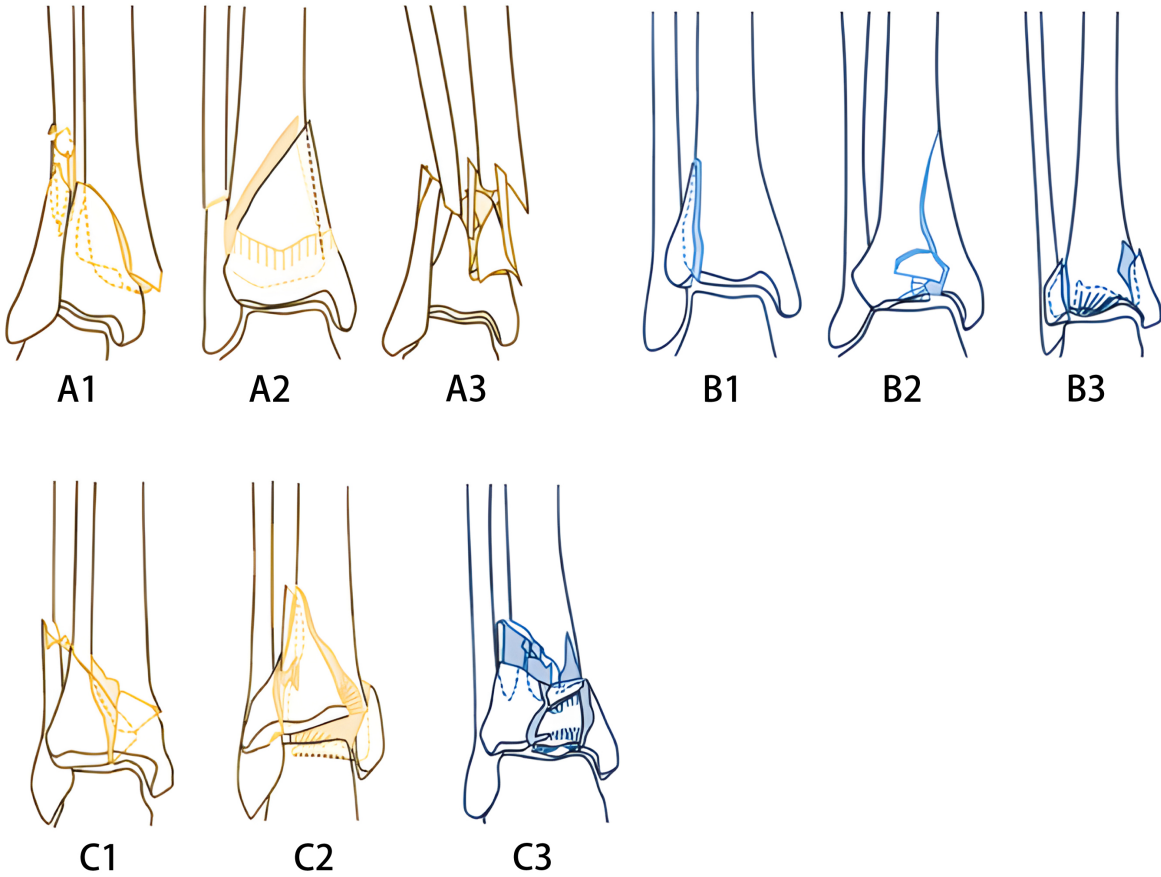


End Cap
(5mm)

Product Characteristic



- Applicable to closed and open fractures and epiphyseal fractures of the distal tibia or the anterior one - fifth segment (A1, A2, A3)
- Distal tibial fractures and simple ankle fractures (C1, C2).

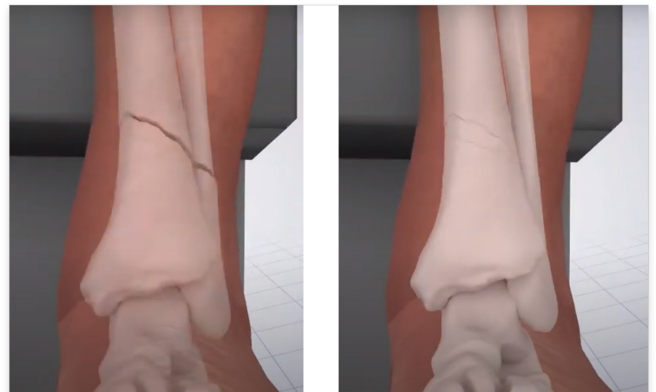


Surgical procedures

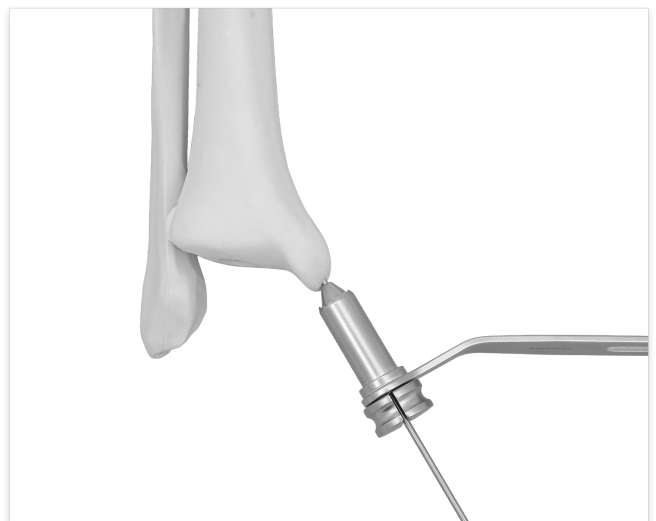
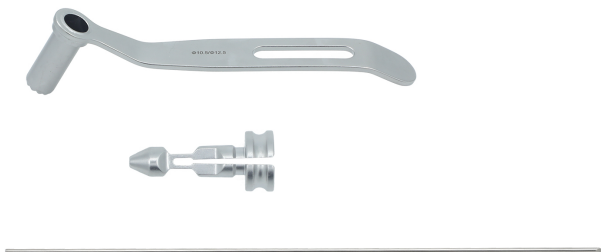
1. The patient lies supine, and the affected limb is elevated.



2. Reduce the fracture site.



3. Insert the positioning guide pin according to the indicated angle.



4. Keep the outer sleeve and use a hollow reamer to expand the proximal part of the medial malleolus along the guide pin.

5. Remove the guide pin and use a solid reamer to further expand the medullary cavity.



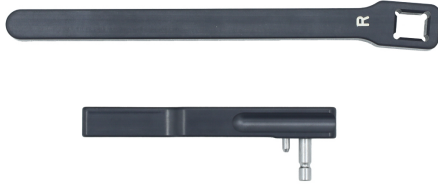
6. Select a trial mold of appropriate size to expand the medullary cavity and facilitate the insertion of the main nail.



7. Assemble the main nail and aiming frame
8. Insert into the medullary cavity along the channel



9. Install the external positioning bracket
10. Determine the imaging position of the positioning bracket under X-ray
11. Make sure the imaging rod is on the joint surface to prevent the locking nail from entering the joint surface



12. Place the three holes near the main nail
13. Insert the third-level sleeve



14. Select a drill bit with the corresponding diameter to drill



15. Use a straight depth gauge to measure the depth



16. Select a screw of appropriate length and screw it in



17. Same method place nails in the two holes at the far end of the main nail
18. Insert the third-level sleeve
19. Select a drill bit of corresponding diameter to drill holes



20. Use a curved depth gauge to measure the depth



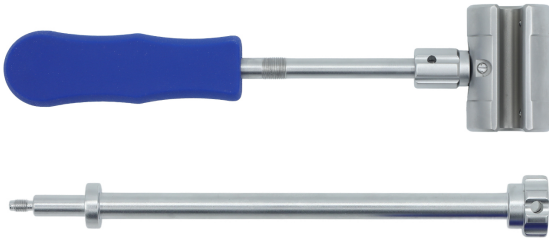
21. Select a screw of appropriate length and screw it in



22. Screw in the tail cap
 1. Remove the sight frame
 2. The screwdriver holds the tail cap
 3. Select a tail cap of appropriate length and screw it in



23. Remove the nail



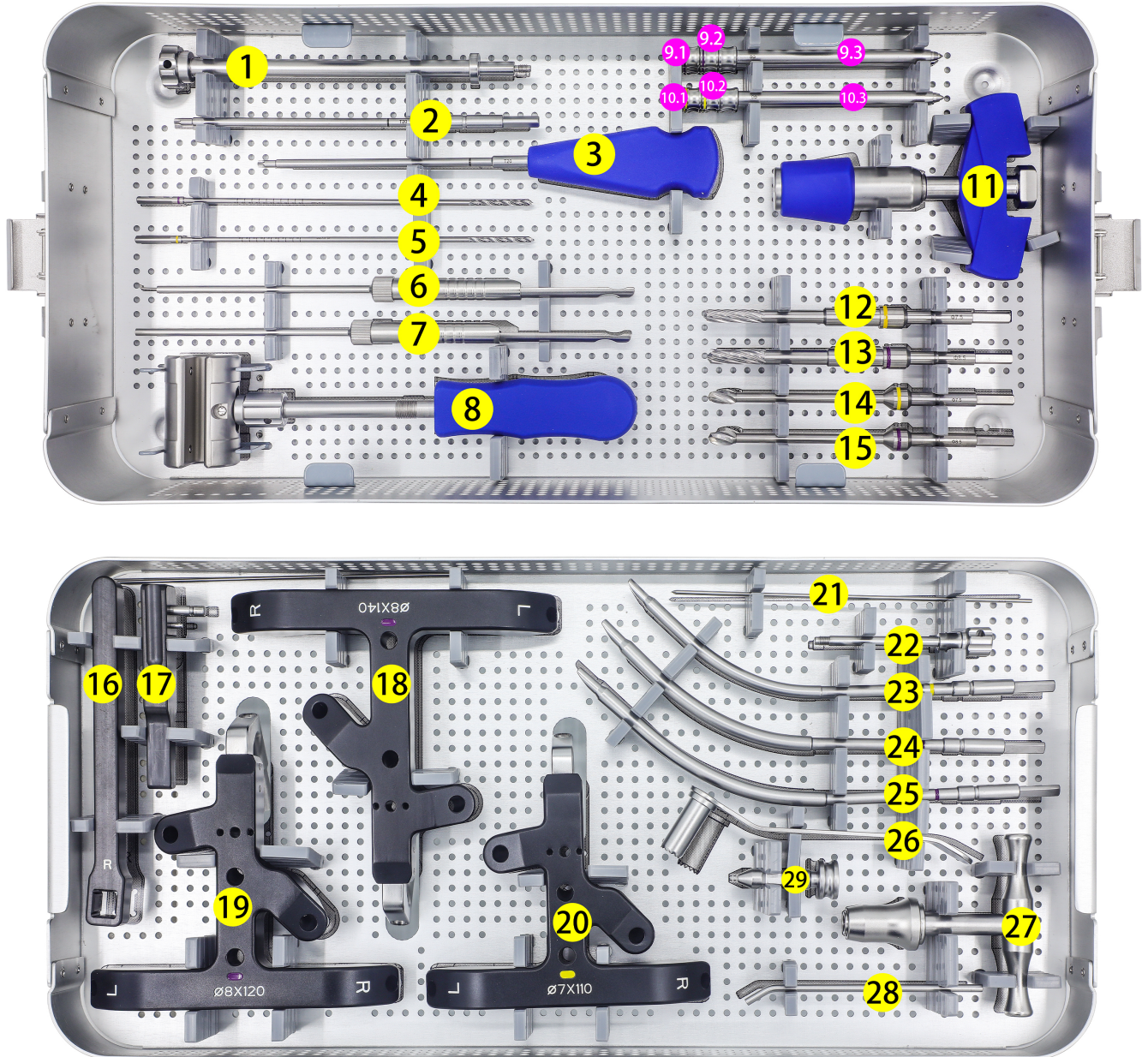
Implants

■ Distal Tibial Nail (DTN)

NO.	NAME	REF	SPECIFICATION	COLOR
1	 Main Nail	T1100-5901	Φ7x110 (L)	Golden
2		T1100-5902	Φ7x110 (R)	
3		T1100-5903	Φ8x120 (L)	Purple
4		T1100-5904	Φ8x120 (R)	
5		T1100-5905	Φ8x140 (L)	
6		T1100-5906	Φ8x140 (R)	
7	 End Cap	T1100-6401	0	Green
8		T1100-6402	5	
9	 3.5mm Locking Screw (Cortical thread)	T1100-6001	Φ3.5*18	Golden
10		T1100-6002	Φ3.5*20	
11		T1100-6003	Φ3.5*22	
12		T1100-6004	Φ3.5*24	
13		T1100-6005	Φ3.5*26	
14		T1100-6006	Φ3.5*28	
15	 3.5mm Locking Screw (Cortical + Cancellous thread)	T1100-6101	Φ3.5*30	
16		T1100-6102	Φ3.5*32	
17		T1100-6103	Φ3.5*34	
18		T1100-6104	Φ3.5*36	
19		T1100-6105	Φ3.5*38	
20		T1100-6106	Φ3.5*40	
21		T1100-6107	Φ3.5*42	
22		T1100-6108	Φ3.5*44	
23		T1100-6109	Φ3.5*46	
24		T1100-6110	Φ3.5*48	
25		T1100-6111	Φ3.5*50	
26	 4.0mm Locking Screw (Cortical thread)	T1100-6201	Φ4.0*24	Purple
27		T1100-6202	Φ4.0*26	
28		T1100-6203	Φ4.0*28	
29		T1100-6204	Φ4.0*30	
30		T1100-6205	Φ4.0*32	
31		T1100-6206	Φ4.0*34	
32	 4.0mm Locking Screw (Cortical + Cancellous thread)	T1100-6301	Φ4.0*36	
33		T1100-6302	Φ4.0*38	
34		T1100-6303	Φ4.0*40	
35		T1100-6304	Φ4.0*42	
36		T1100-6305	Φ4.0*44	
37		T1100-6306	Φ4.0*46	
38		T1100-6307	Φ4.0*48	
39		T1100-6308	Φ4.0*50	
40		T1100-6309	Φ4.0*52	

Instruments

■ Distal Tibial Intramedullary Nail (DTN) Instrument Set



Instruments

■ Distal Tibial Intramedullary Nail (DTN) Instrument Set

NO.	REF	NAME	SPECIFICATION	QTY.
1	1200-2731	HAMMER GUIDE SHAFT	/	1
2	1200-2729	SCREWDRIVER	T20 X 200	1
3	1200-2728	SCREWDRIVER	T20 X 250	1
4	1200-2726	DRILL BIT	Φ3.2 X 220	2
5	1200-2727	DRILL BIT	Φ2.8 X 220	2
6	1200-2730	DEPTH GAUGE, CURVED	0-50MM	1
7	1200-2732	DEPTH GAUGE, STRAIGHT	0-50MM	1
8	1200-2704	SLIDING HAMMER	/	1
9.1	1200-2721	TROCAR	Φ3.2 X 142	2
9.2	1200-2722	CANNULATED SLEEVE FOR DRILL BIT	Φ3.2	2
9.3	1200-2723	OUTER SLEEVE	Φ8.0/Φ5.6 X 115	2
10.1	1200-2724	TROCAR	Φ2.8 X 142	2
10.2	1200-2725	CANNULATED SLEEVE FOR DRILL BIT	Φ2.8MM	2
10.3	1200-2723	OUTER SLEEVE	Φ8.0/Φ5.6 X 115	2
11	1200-2703	GUIDE WIRE HOLDER	/	1
12	1200-2708	CANNULATED REAMER	Φ7.5 X 165	1
13	1200-2709	CANNULATED REAMER	Φ8.5 X 165	1
14	1200-2710	ENTRY REAMER	Φ7.5 X 165MM	1
15	1200-2711	ENTRY REAMER	Φ8.5 X 165MM	1
16	1200-2720	POSITIONING ARM	/	1
17	1200-2719	POSITIONING ARM COUPLER	/	1
18	1200-2713	AIMING JIG	Φ8.0MM X 140	1
19	1200-2714	AIMING JIG	Φ8.0MM X 120	1
20	1200-2712	AIMING JIG	Φ7.0MM X 110	1
21	1200-2705	TROCAR	Φ2.0X180MM	4
22	1200-2715	M5 CONNECTING BOLT	/	1
23	1200-2716	TRIAL FOR	Φ7 X 110	1
24	1200-2717	TRIAL FOR	Φ8 X 120	1
25	1200-2718	TRIAL FOR	Φ8 X 140	1
26	1200-2706	PROTECTION SLEEVE	Φ10.5/Φ12.5X35	1
27	1200-2702	T-HANDLE QUICK COUPLING	/	1
28	1200-2701	WRENCH	/	1
29	1200-2707	ENTRY GUIDE WIRE	Φ10.4/Φ2.2 X 50MM	1
30	1200-2733	ALUMINIUM BOX	/	1