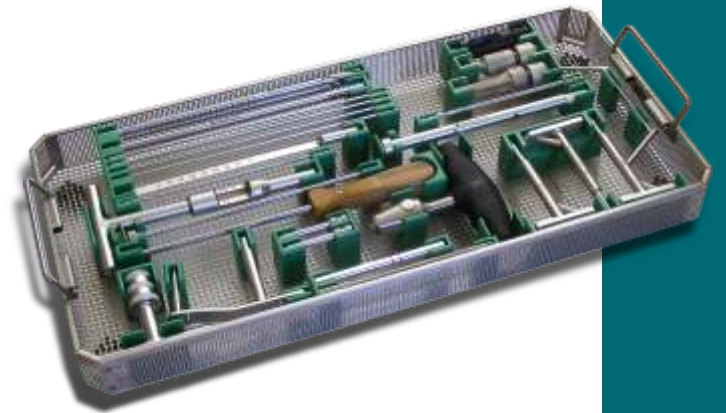




**DTSS**  
**(Dynamic Trochanteric Sliding System)**  
**DCSS**  
**(Dynamic Condylar Sliding System)**  
**IMPLANTS AND OPERATING MANUAL**



**medimetal**<sup>®</sup>  
Medical Products Manufacturing and Trading Ltd.



### Before starting use the product



Before each use, carefully check the operability of implants and surgical instruments, and ensure they are free of any damage. If you notice any cracks, fractures, deformations, discoloration or any damages that indicate improper storage, imperfect sterilization or prior incorrect treatment, do not use the device. Always carry out the assembly, fitting and operation test of the implants and instruments to be used for the implantation. The product may only be used if the fittings are perfect, the dimensions are accurate, the clamping components work properly and the angles are correctly set.

### Requirements regarding the user

The instruments and implants may only be used by qualified surgeons who are familiar with the surgical practice, with the relevant medical literature and are sufficiently experienced in the use of implants and instruments. The operating surgeon is responsible for identifying the correct indication, selecting the implants and conducting the surgical procedure in conformity with the relevant medical practice.

### Contraindications

Use of the implant is not recommended if the medical condition of the patient does not allow successful acceptance of the device, or if the recovery of the patient is hindered by causes such as reduced blood circulation, bone system of poor quality or quantity, existing infection, rehabilitation excluded due to the mental condition of the patient etc.

### General warnings

Before the surgical procedure, the patient should be informed about the possible disadvantages of implant use. When selecting the implant, the type of the bone fracture as well as the weight and activity level of the patient should always be taken into consideration. Since the solidity of the implant is limited, overloading due to overweight should be avoided. The biomechanical loading of the implant should be as minimal as possible.

The process of recovery should be monitored during the use of the implant. In the event of repeated loading or prolonged bone recovery, the implants may be deformed or dislocated, which should be prevented by timely interventions. Strong and/or repeated deformation of the implant should be avoided. The implants are only for single use, re-implantation is prohibited.

The appropriate type and correct size of the implants must be identified according to the characteristics of the particular case. Before the surgical procedure, the user manuals supplied with the other required devices, e.g. implants, should be carefully studied.

### Applied materials

The applied materials are high-quality and high-tensile, nonmagnetic, stainless steel and titanium alloy materials specially developed for implants. Combined use with other materials or products supplied by other manufacturers may lead to harmful processes for which Medimetal Ltd. will not accept any responsibility.

### Protection, packaging and preparation for use

The implants are packaged in clean condition, free of any production-related contaminations. Before use, such storage conditions must be ensured that will preserve the integrity of the packaging. The implants should be stored in a clean, dry place, protected from exposure to extreme temperatures and chemicals.

### Sterilization

Before use, unpack and sterilize the implant in accordance with the relevant instructions. Do not touch the implant with bare hands. The surgical instruments should be sterilized together with the instrument tray. The instructions provided by the manufacturer of the sterilization equipment must always be followed.

### Interactions with medicinal products

It is not known whether the implants interact with medicinal products.



## System of implants:

Material: forged steel or titanium alloy



DTSS plate with angle 135°, cat. nr.: from 13900-13002 to 13900-13014  
from 33900-13002 to 33900-13014 (titanium alloy)

DTSS plate with angle 135°, low contact, cat. nr.: from 13901-13002 to 13901-13014  
from 33901-13002 to 33901-13014 (titanium alloy)

DTSS plate with angle 135°, low contact, angular stable holes  
cat. nr.: from 139024-13502 to 139024-13516  
from 339024-13502 to 339024-13516 (titanium alloy)

DCSS plate with angle 95°, cat. nr.: from 13900-09504 to 13900-09516  
from 33900-09504 to 33900-09516 (titanium alloy)

DCSS plate with angle 95°, low contact, cat. nr.: from 13901-09504 to 13901-09516  
from 33901-09504 to 33901-09516 (titanium alloy)

DCSS plate with angle 95°, low contact, angular stable holes  
cat. nr.: from 139024-09504 to 139024-09516  
from 339024-09504 to 339024-09516 (titanium alloy)



Dynamic screw for DTSS and DCSS plates, cat. nr.:  
from 12720-12050 to 12720-12145  
from 32720-12050 to 32720-12145 (titanium alloy)

Compression screw, cat. nr.: 12300-04036, 32300-04036 (titanium alloy)

Cortical screw, selftapping, 4,5 mm, cat. nr.: from 11020-45012 to 11020-45110  
from 31020-45012 to 31020-45110 (titanium alloy)

Cancellous screw, self tapping, 6,5 mm, cat. nr.: from 11071-65040 to 11071-65120  
from 31071-65040 to 31071-65120 (titanium alloy)

Locking head cortical screw, selftapping, 5,0 mm  
cat. nr.: from 12001-50016 to 12001-50090  
from 32001-50016 to 32001-50090

Surgical set for dynamic trochanteric and dynamic condylar sliding system,  
cat. nr.: 92420-00000

## Implants for DTSS and DCSS

## DTSS plate, normal contact, 135°

Thickness:	6,0 mm
Width:	19,0 mm
Cortical screw (AO):	4,5 mm
Cancellous screw:	6,5 mm (only in the first hole)

L (mm)	Holes	Cat. no	
		steel	titanium alloy
47	2	13900-13502	33900-13502
63	3	13900-13503	33900-13503
79	4	13900-13504	33900-13504
95	5	13900-13505	33900-13505
111	6	13900-13506	33900-13506
143	8	13900-13508	33900-13508
175	10	13900-13510	33900-13510
207	12	13900-13512	33900-13512
239	14	13900-13514	33900-13514
271	16	13900-13516	33900-13516



DTSS AND DCSS PLATES

Remark: other collodiaphyseal angle only for special requirement as piece production available

## DTSS plate, limited contact, 135°

Thickness:	6,0 mm
Width:	19,0 mm
Cortical screw (AO):	4,5 mm
Cancellous screw:	6,5 mm (only in the first hole)

L (mm)	Holes	Cat. no	
		steel	titanium alloy
47	2	13901-13502	33901-13502
63	3	13901-13503	33901-13503
79	4	13901-13504	33901-13504
95	5	13901-13505	33901-13505
111	6	13901-13506	33901-13506
143	8	13901-13508	33901-13508
175	10	13901-13510	33901-13510
207	12	13901-13512	33901-13512
239	14	13901-13514	33901-13514
271	16	13901-13516	33901-13516



Remark: other collodiaphyseal angle only for special requirement as piece production available



## DTSS plate, limited contact, angular stable, 135°

Thickness:	6,0 mm
Width:	19,0 mm
Cortical screw (AO):	4,5 mm
Cancellous screw:	6,5 mm (only in the first hole)

L (mm)	Holes	Cat. no	
		steel	titanium alloy
47	2	139024-13502	339024-13502
63	3	139024-13503	339024-13503
79	4	139024-13504	339024-13504
95	5	139024-13505	339024-13505
111	6	139024-13506	339024-13506
143	8	139024-13508	339024-13508
175	10	139024-13510	339024-13510
207	12	139024-13512	339024-13512
239	14	139024-13514	339024-13514
271	16	139024-13516	339024-13516

Remark: other collodiaphyseal angle only for special requirement as piece production available

## DCSS plate, normal contact, 95°



Thickness:	5,1 mm
Width:	16,0 mm
Cortical screw (AO):	4,5 mm
Cancellous screw:	6,5 mm (only in the first hole)

L (mm)	Holes	Cat. no	
		steel	titanium alloy
81	4	13900-09504	33900-09504
97	5	13900-09505	33900-09505
113	6	13900-09506	33900-09506
129	7	13900-09507	33900-09507
145	8	13900-09508	33900-09508
177	10	13900-09510	33900-09510
209	12	13900-09512	33900-09512
241	14	13900-09514	33900-09514
273	16	13900-09516	33900-09516

## Implants for DTSS and DCSS

## DCSS plate, limited contact, 95°

Thickness:	5,1 mm
Width:	16,0 mm
Cortical screw (AO):	4,5 mm
Cancellous screw:	6,5 mm (only in the first hole)

L (mm)	Holes	Cat. no	
		steel	titanium alloy
81	4	13901-09504	33901-09504
97	5	13901-09505	33901-09505
113	6	13901-09506	33901-09506
129	7	13901-09507	33901-09507
145	8	13901-09508	33901-09508
177	10	13901-09510	33901-09510
209	12	13901-09512	33901-09512
241	14	13901-09514	33901-09514
273	16	13901-09516	33901-09516



## DCSS plate, limited contact, angular stable, 95°

Thickness:	5,1 mm
Width:	16,0 mm
Cortical screw (AO):	4,5 mm
Cancellous screw:	6,5 mm (only in the first hole)

L (mm)	Holes	Cat. no	
		steel	titanium alloy
81	4	139024-09504	339024-09504
97	5	139024-09505	339024-09505
113	6	139024-09506	339024-09506
129	7	139024-09507	339024-09507
145	8	139024-09508	339024-09508
177	10	139024-09510	339024-09510
209	12	139024-09512	339024-09512
241	14	139024-09514	339024-09514
273	16	139024-09516	339024-09516



## Dynamic screw for DTSS and DCSS plates

Thread diameter:	12,6 mm
Core diameter:	8,0 mm
Pitch:	3,0 mm

L (mm)	Cat. no		L (mm)	Cat. no	
	steel	titanium alloy		steel	titanium alloy
50	12720-12050	32720-12050	100	12720-12100	32720-12100
55	12720-12055	32720-12055	105	12720-12105	32720-12105
60	12720-12060	32720-12060	110	12720-12110	32720-12110
65	12720-12065	32720-12065	115	12720-12115	32720-12115
70	12720-12070	32720-12070	120	12720-12120	32720-12120
75	12720-12075	32720-12075	125	12720-12125	32720-12125
80	12720-12080	32720-12080	130	12720-12130	32720-12130
85	12720-12085	32720-12085	135	12720-12130	32720-12130
90	12720-12090	32720-12090	140	12720-10140	32720-10140
95	12720-12095	32720-12095	145	12720-12145	32720-12145





## Cortical screw, (AO), self tapping, 4,5 mm

Thread diameter:	4,5 mm
Core diameter:	3,0 mm
Head diameter:	8,0 mm
Pitch:	1,75 mm
Hex width:	3,5 mm
Spiral drill:	cat. nr. 99010-32180, 99020-32195
Tap drill:	cat. nr. 99100-01009
Screwdriver:	cat. nr. 99160-35145

L (mm)	Cat. no	
	steel	titanium alloy
12	11020-45012	31020-45012
14	11020-45014	31020-45014
16	11020-45016	31020-45016
18	11020-45018	31020-45018
20	11020-45020	31020-45020
22	11020-45022	31020-45022
24	11020-45024	31020-45024
26	11020-45026	31020-45026
28	11020-45028	31020-45028
30	11020-45030	31020-45030
32	11020-45032	31020-45032
34	11020-45034	31020-45034
36	11020-45036	31020-45036
38	11020-45038	31020-45038
40	11020-45040	31020-45040
42	11020-45042	31020-45042
44	11020-45044	31020-45044
46	11020-45046	31020-45046

L (mm)	Cat. no	
	steel	titanium alloy
48	11020-45048	31020-45048
50	11020-45050	31020-45050
52	11020-45052	31020-45052
54	11020-45054	31020-45054
56	11020-45056	31020-45056
58	11020-45058	31020-45058
60	11020-45060	31020-45060
65	11020-45065	31020-45065
70	11020-45070	31020-45070
75	11020-45075	31020-45075
80	11020-45080	31020-45080
85	11020-45085	31020-45085
90	11020-45090	31020-45090
95	11020-45095	31020-45095
100	11020-45100	31020-45100
105	11020-45105	31020-45105
110	11020-45110	31020-45110

## Locking head cortical screw, 5,0 mm



Thread diameter:	5,0 mm
Core diameter:	4,2 mm
Head diameter:	6,0 mm
Pitch:	2,0 mm
Hex width:	3,5 mm
Spiral drill:	cat. nr. 99010-42180, 99020-42145
Screwdriver:	cat. nr. 99160-35145

L (mm)	Cat. no	
	steel	titanium alloy
16	12001-50016	32001-50016
18	12001-50018	32001-50018
20	12001-50020	32001-50020
22	12001-50022	32001-50022
24	12001-50024	32001-50024
26	12001-50026	32001-50026
28	12001-50028	32001-50028
30	12001-50030	32001-50030
32	12001-50032	32001-50032
34	12001-50034	32001-50034
36	12001-50036	32001-50036
38	12001-50038	32001-50038
40	12001-50040	32001-50040

L (mm)	Cat. no	
	steel	titanium alloy
42	12001-50042	32001-50042
44	12001-50044	32001-50044
46	12001-50046	32001-50046
48	12001-50048	32001-50048
50	12001-50050	32001-50050
55	12001-50055	32001-50055
60	12001-50060	32001-50060
65	12001-50065	32001-50065
70	12001-50070	32001-50070
75	12001-50075	32001-50075
80	12001-50080	32001-50080
85	12001-50085	32001-50085
90	12001-50090	32001-50090



## Implants for DTSS and DCSS

## Cancellous screw, (AO), self tapping, 6,5 mm

Thread diameter:	6,5 mm
Thread length:	16 mm (form „A“), 32 mm (form „B“), full length (form „C“)
Core diameter:	3,0 mm
Head diameter:	8,0 mm
Pitch:	2,75 mm
Hex width:	3,5 mm
Spiral drill:	cat. nr. 99010-32220, 99020-32195
Tap drill:	cat. nr. 99100-01011
Screwdriver:	cat. nr. 99160-35145

L (mm)	Cat. no					
	form „A“		form „B“		form „C“	
	steel	titanium alloy	steel	titanium alloy	steel	titanium alloy
14					11061-65014	31061-65014
16					11061-65016	31061-65016
18					11061-65018	31061-65018
20					11061-65020	31061-65020
22					11061-65022	31061-65022
24					11061-65024	31061-65024
25	11081-65025	31081-65025			11061-65025	31061-65025
30	11081-65030	31081-65030			11061-65030	31061-65030
35	11081-65035	31081-65035			11061-65035	31061-65035
40	11081-65040	31081-65040	11071-65040	31071-65040	11061-65040	31061-65040
45	11081-65045	31081-65045	11071-65045	31071-65045	11061-65045	31061-65045
50	11081-65050	31081-65050	11071-65050	31071-65050	11061-65050	31061-65050
55	11081-65055	31081-65055	11071-65055	31071-65055	11061-65055	31061-65055
60	11081-65060	31081-65060	11071-65060	31071-65060	11061-65060	31061-65060
65	11081-65065	31081-65065	11071-65065	31071-65065	11061-65065	31061-65065
70	11081-65070	31081-65070	11071-65070	31071-65070	11061-65070	31061-65070
75	11081-65075	31081-65075	11071-65075	31071-65075	11061-65075	31061-65075
80	11081-65080	31081-65080	11071-65080	31071-65080	11061-65080	31061-65080
85	11081-65085	31081-65085	11071-65085	31071-65085	11061-65085	31061-65085
90	11081-65090	31081-65090	11071-65090	31071-65090	11061-65090	31061-65090
95	11081-65095	31081-65095	11071-65095	31071-65095	11061-65095	31061-65095
100	11081-65100	31081-65100	11071-65100	31071-65100	11061-65100	31061-65100
105	11081-65105	31081-65105	11071-65105	31071-65105	11061-65105	31061-65105
110	11081-65110	31081-65110	11071-65110	31071-65110	11061-65110	31061-65110
115	11081-65115	31081-65115	11071-65115	31071-65115	11061-65115	31061-65115
120	11081-65120	31081-65120	11071-65120	31071-65120	11061-65120	31061-65120
125	11081-65125	31081-65125	11071-65125	31071-65125		
130	11081-65130	31081-65130	11071-65130	31071-65130		
135			11071-65135	31071-65135		

Form „A“



Form „B“



Form „C“



## Compression screw for DTSS and DCSS plates

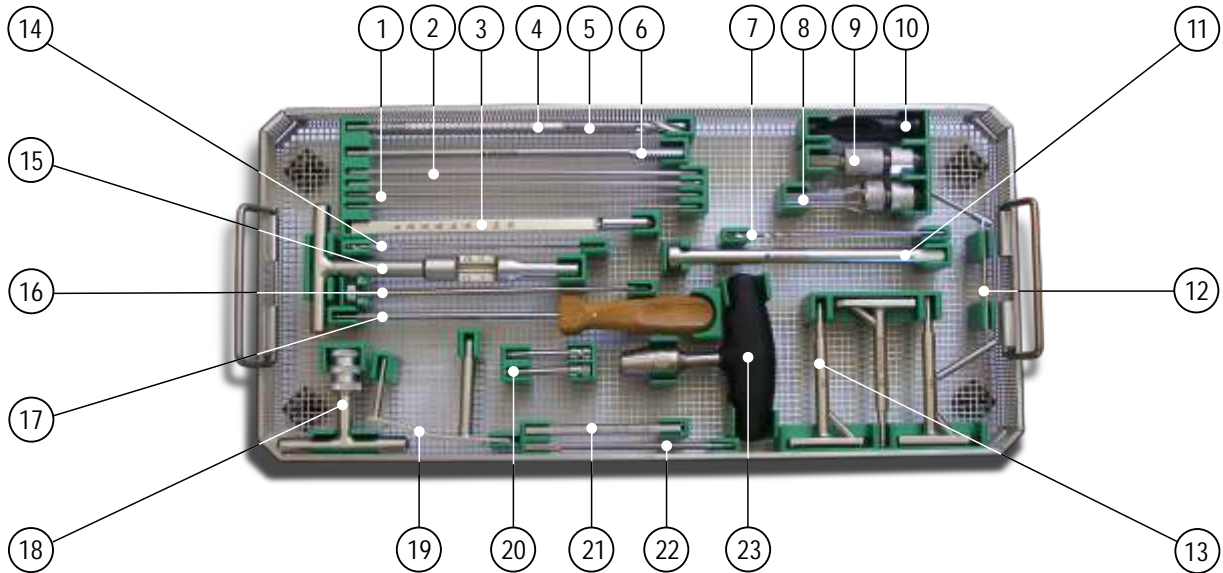
L (mm)	Cat. no	
	steel	titanium alloy
30	12300-04036	32300-04036



## Surgical instruments for DTSS and DCSS plates

## Surgical set

Tray for DTSS and DCSS instrument set with instruments:  
Cat. nr.: 92420-00000



Pos.	Cat. no.	Description	pcs
1.	15000-25250	Kirschner-wire, 2,5 × 250 mm	2
2.	15020-25250	Kirschner -wire, threaded, 2,5 × 250 mm	4
3.	92420-01200	Length gauge	1
4.	92420-00700	Spiral drill for DTSS, 8 mm	1
5.	92420-02000	Spiral drill for DCSS, 8 mm (below the DTSS drill bit)	1
6.	92420-01500	Tap drill	1
7.	99010-40150	Spiral drill, 4,0 × 150 mm	1
8.	92420-00800	Reamer for DTSS	1
9.	92420-01100	Reamer for DCSS	1
10.	92420-01000	Soft tissue protector for tap drill	1
11.	92420-01700	Plate impactor	1
12.	99000-00029	Double drill guide	1
13.	92420-00200	Aiming device for DTSS, 135° (other angular only for special requirement)	1
14.	99010-32180	Spiral drill, 3,2 × 180 mm	1
15.	92420-01600	Screw driver with T-handle for dynamic screw	1
16.	92420-01900	Extractor shaft	1
17.	99160-35250	Screw driver, 3,5 × 250 mm	1
18.	92420-00600	T-handle for reamer and tap drill	1
19.	92420-01300	Aiming device for DCSS, 95°	1
20.	93600-06242	Drill sleeve for locking head screws	2
21.	92420-01800	Lengthening shaft for dynamic screw	1
22.	92420-01400	Threaded stem	1
23.	99000-00006	Universal chuck with T-handle	1





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