

TIBER

DHS/DCS Dynamic Hip and Condylar Screw System
Locking Trochanter Stabilization Plate for DHS



The TIBER™ Dynamic Hip Screw System is designed to provide strong and stable internal fixation of a variety of intertrochanteric, subtrochanteric and basilar neck fractures, with minimal soft tissue irritation.



Features & Benefits

- The number of screw holes per plate length is maximized, without compromising plate strength. This allows an increased number of fixation points with a smaller incision.
- Hexagon within the DHS and DCS plate barrel correspond to the Hexagon design of the lag screw, preventing rotation of the lag screw within the barrel.
- The DHS and DCS plates have a low-profile design, with minimal soft tissue irritation.

Indications for Use

- The DHS is indicated for the following fractures of the proximal femur:
 - Intertrochanteric fractures
 - Subtrochanteric fractures
 - Basilar neck fractures

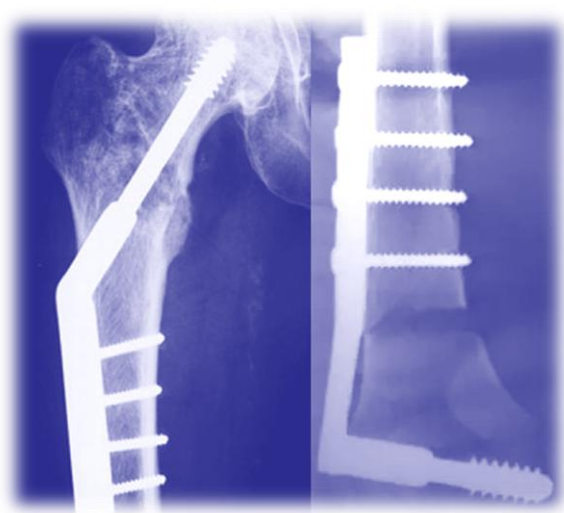
The DHS is indicated for stable fractures, and unstable fractures in which a stable medial buttress can be reconstructed. The DHS provides controlled collapse and compression of fracture fragments. This results in stable fixation and prevents undue stress concentration on the implant.

- The DCS is indicated for the following fractures of the distal femur:
 - Intercondylar fractures
 - Supracondylar fractures
 - Unicondylar fractures

The TIBER™ Dynamic Condylar Screw System is designed to provide strong and stable internal fixation of a variety of certain distal femoral and subtrochanteric fractures, with minimal soft tissue irritation.



- DCP holes in the side plate allow angulation of 4.5 mm cortex screws, for lag screw fixation of medial fragments, and allow axial compression and multiple-screw fixation of the main fragment in subtrochanteric fractures with shaft extension.
- The DHS plates are available in two different barrel angles [130°, 135°] with standard or short barrels, for varied clinical situations.
- The DHS/DCS compression screw can be used for additional compression. Only one size compression screw is needed.



The Locking Trochanter Stabilization Plate extends TIBER™ DHS construct to help stabilize the greater trochanter and facilitate insertion of an anti-rotation screw into the femoral head.

The combination of the DHS and Trochanter Stabilization Plate prevents lateral displacement of greater trochanter fragments during impaction of the fracture zone. This helps prevent medialisation of the shaft relative to the head-neck fragment.

The Locking Trochanter Stabilization Plate for TIBER™ DHS has been designed as an extension to the TIBER™ DHS and serves the following functions:

- It limits diaphyseal medialisation by fastening onto the greater trochanter.
- It enables the insertion of an additional cranial and parallel anti-rotation screw, which acts as a superolateral tension band. When used, the anti-rotation screw imposes a slightly more caudal positioning of the TIBER™ DHS screw compared to the standard technique.
- It allows for an additional proximal internal fixation of the greater trochanter with locking head screws.
- It maintains the dynamization capacity of the TIBER™ DHS.



Features & Benefits

- Fixation of the upper trochanter with locking screws. Locked angle-stable screws can be fixed monocortically, even in “soft” bone without any risk of screw loosening. Due to the high stability of the screws in the plate, the greater trochanter can be secured as a functional entity without using cerclage wires. Fix the plate over or through the gluteus medius muscle without compressing the bone. As an internal fixator, the plate preserves bone vascularity.
- It is easy to bend the plate and adapt it to the individual anatomical conditions
- The Lateral support
- Prevents unlimited dynamization
- Stainless steel or titanium
- Only one size is required

Indications for Use

Unstable A2 and A3 fractures, especially multi-fragmentary ones with a separated greater trochanter.

Excessive secondary fracture impact and medialization of the femoral shaft can be avoided by combining the DHS with the locking trochanter stabilizing plate. Fixation of the greater trochanter with locking head screws reduces varus angulation and limb shortening. Stabilizing the greater trochanter can reduce internal bleeding and restores the function of the gluteus medius. This results in less postoperative pain and a faster mobilization of the patient.



IMPLANT INFORMATION



DHS Plate 135°, Standard Barrel (38 mm)

REF (S.S)	REF (TIT)	HOLES	LENGTH
MOI 16601003	MOI 36601003	3	61 mm
MOI 16601004	MOI 36601004	4	77 mm
MOI 16601005	MOI 36601005	5	93 mm
MOI 16601006	MOI 36601006	6	109 mm
MOI 16601007	MOI 36601007	7	125 mm
MOI 16601008	MOI 36601008	8	141 mm
MOI 16601009	MOI 36601009	9	157 mm
MOI 16601010	MOI 36601010	10	173 mm
MOI 16601011	MOI 36601011	11	189 mm
MOI 16601012	MOI 36601012	12	205 mm

Screws: 4.5 mm Cortex Screws / 12.0 mm Lag Screws



DHS Plate 135°, Short Barrel (25 mm)

REF (S.S)	REF (TIT)	HOLES	LENGTH
MOI 16606003	MOI 36606003	3	61 mm
MOI 16606004	MOI 36606004	4	77 mm
MOI 16606005	MOI 36606005	5	93 mm
MOI 16606006	MOI 36606006	6	109 mm

Screws: 4.5 mm Cortex Screws / 12.0 mm Lag Screws



DHS Plate 130°, Standard Barrel (38 mm) (Optional)

REF (S.S)	REF (TIT)	HOLES	LENGTH
MOI 16604003	MOI 36604003	3	61 mm
MOI 16604004	MOI 36604004	4	77 mm
MOI 16604005	MOI 36604005	5	93 mm
MOI 16604006	MOI 36604006	6	109 mm
MOI 16604007	MOI 36604007	7	125 mm
MOI 16604008	MOI 36604008	8	141 mm
MOI 16604009	MOI 36604009	9	157 mm
MOI 16604010	MOI 36604010	10	173 mm
MOI 16604011	MOI 36604011	11	189 mm
MOI 16604012	MOI 36604012	12	205 mm

Screws: 4.5 mm Cortex Screws / 12.0 mm Lag Screws



DHS Plate 130°, Short Barrel (25 mm) (Optional)

REF (S.S)	REF (TIT)	HOLES	LENGTH
MOI 16605003	MOI 36605003	3	61 mm
MOI 16605004	MOI 36605004	4	77 mm
MOI 16605005	MOI 36605005	5	93 mm
MOI 16605006	MOI 36605006	6	109 mm

Screws: 4.5 mm Cortex Screws / 12.0 mm Lag Screws



Locking Trochanter Stabilization Plate

REF (S.S)	REF (TIT)	HOLES	LENGTH
MOI 15231004	MOI 35231004	4	131 mm

Screws: 3.5 mm Locking Screws / 6.5 mm Cancellous Screws



DCS Plate 95°

REF (S.S)	REF (TIT)	HOLES	LENGTH
MOI 16602004	MOI 36602004	4	76 mm
MOI 16602005	MOI 36602005	5	92 mm
MOI 16602006	MOI 36602006	6	108 mm
MOI 16602007	MOI 36602007	7	124 mm
MOI 16602008	MOI 36602008	8	140 mm
MOI 16602009	MOI 36602009	9	156 mm
MOI 16602010	MOI 36602010	10	172 mm
MOI 16602011	MOI 36602011	11	188 mm
MOI 16602012	MOI 36602012	12	204 mm
MOI 16602013	MOI 36602013	13	220 mm
MOI 16602014	MOI 36602014	14	236 mm
MOI 16602015	MOI 36602015	15	252 mm
MOI 16602016	MOI 36602016	16	268 mm

Screws: 4.5 mm Cortex Screws / 6.5 mm Cancellous Screws
12.0 mm Lag Screws



12.0 mm Lag Screw

REF (S.S)	REF (TIT)	HOLES	LENGTH
MOI 16603050	MOI 36603050		50 mm
MOI 16603055	MOI 36603055		55 mm
MOI 16603060	MOI 36603060		60 mm
MOI 16603065	MOI 36603065		65 mm
MOI 16603070	MOI 36603070		70 mm
MOI 16603075	MOI 36603075		75 mm
MOI 16603080	MOI 36603080		80 mm
MOI 16603085	MOI 36603085		85 mm
MOI 16603090	MOI 36603090		90 mm
MOI 16603095	MOI 36603095		95 mm
MOI 16603100	MOI 36603100		100 mm
MOI 16603105	MOI 36603105		105 mm
MOI 16603110	MOI 36603110		110 mm
MOI 16603115	MOI 36603115		115 mm
MOI 16603120	MOI 36603120		120 mm



DHS/DCS Compression Screw

REF (S.S)	REF (TIT)	SIZE
MOI 16603000	MOI 36603000	Uni-size

IMPLANT INFORMATION



3.5 mm Locking Screws

REF (S.S)	REF (TIT)	LENGTH
MOI 15228016	MOI 35228016	16 mm
MOI 15228018	MOI 35228018	18 mm
MOI 15228020	MOI 35228020	20 mm
MOI 15228022	MOI 35228022	22 mm
MOI 15228024	MOI 35228024	24 mm
MOI 15228026	MOI 35228026	26 mm



6.5 mm Cancellous Screws, partially threaded

REF (S.S)	REF (TIT)	LENGTH
MOI 14602075	MOI 34602075	75 mm
MOI 14602080	MOI 34602080	80 mm
MOI 14602085	MOI 34602085	85 mm
MOI 14602090	MOI 34602090	90 mm
MOI 14602095	MOI 34602095	95 mm
MOI 14602100	MOI 34602100	100 mm
MOI 14602105	MOI 34602105	105 mm
MOI 14602110	MOI 34602110	110 mm
MOI 14602115	MOI 34602115	115 mm
MOI 14602120	MOI 34602120	120 mm

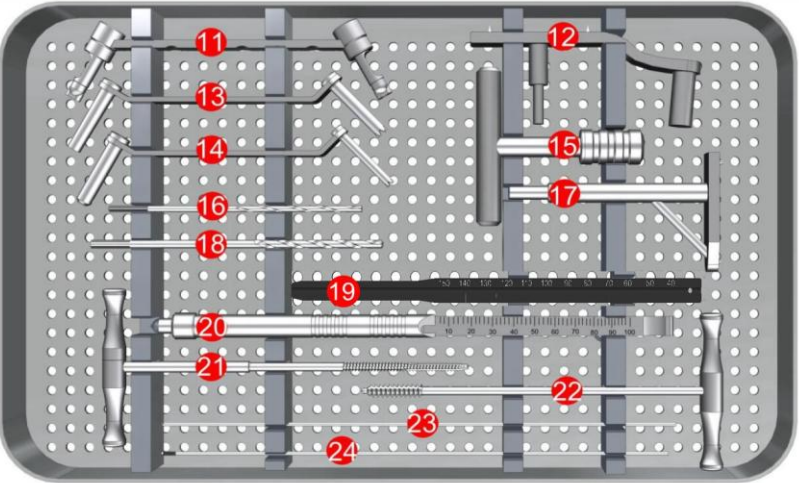
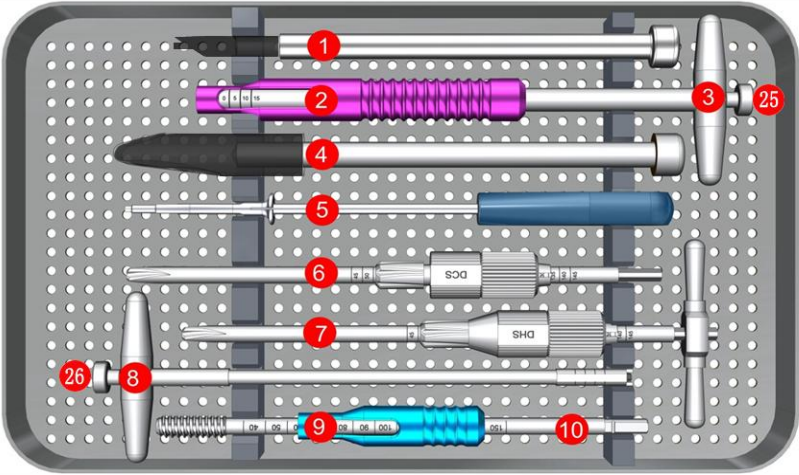


4.5 mm Cortex Screws

REF (S.S)	REF (TIT)	LENGTH
MOI 14600026	MOI 34600026	26 mm
MOI 14600028	MOI 34600028	28 mm
MOI 14600030	MOI 34600030	30 mm
MOI 14600032	MOI 34600032	32 mm
MOI 14600034	MOI 34600034	34 mm
MOI 14600036	MOI 34600036	36 mm
MOI 14600038	MOI 34600038	38 mm
MOI 14600040	MOI 34600040	40 mm
MOI 14600042	MOI 34600042	42 mm
MOI 14600044	MOI 34600044	44 mm
MOI 14600046	MOI 34600046	46 mm
MOI 14600048	MOI 34600048	48 mm
MOI 14600050	MOI 34600050	50 mm
MOI 14600052	MOI 34600052	52 mm
MOI 14600054	MOI 34600054	54 mm
MOI 14600056	MOI 34600056	56 mm
MOI 14600058	MOI 34600058	58 mm

INSTRUMENTS INFORMATION

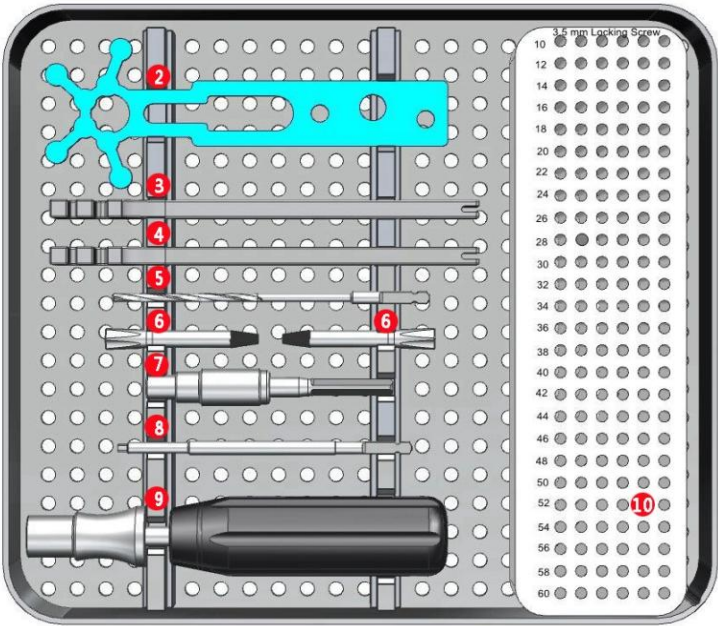
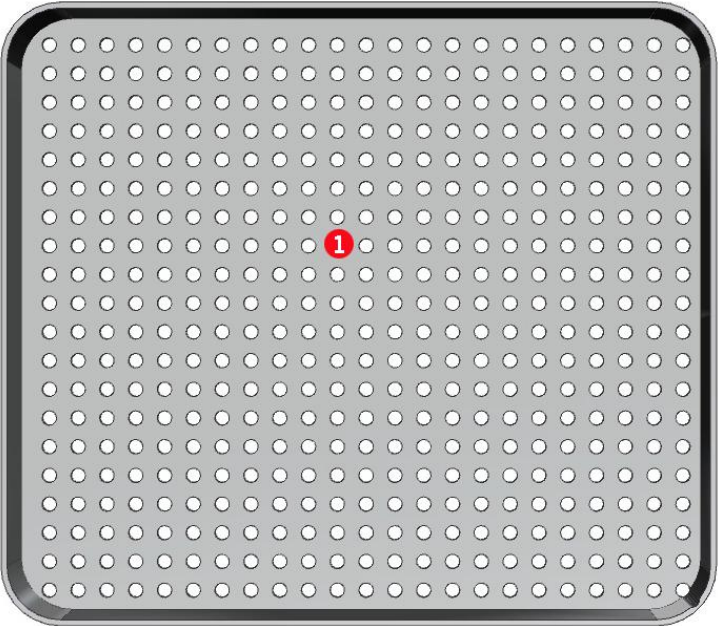
TIBER™ DHS 135°/DCS 95° Instrument Set (MOI TIBER-01)



REF	DESCRIPTION	UNITS
1 MOI 3700004	DHS/DCS Impactor 9.0 mm	1
2 MOI 3700011	Centering Sleeve, Long	1
3 MOI 3700003	Solid T-Wrench, for Lag Screw Insertion/Removal	1
4 MOI 3700005	DHS/DCS Impactor 20.0 mm	1
5 MOI 3700018	Hex Screw Driver SW3.5, with Holding Sleeve	1
6 MOI 3700009	DCS Triple Reamer, Complete	1
7 MOI 3700008	DHS Triple Reamer, Complete	1
8 MOI 3700002	Cannulated T-Wrench, for Lag Screws Introducing	1
9 MOI 3700010	Centering Sleeve, Short	1
10 MOI 3700012	Tap 12.0 mm	1
11 MOI 3700017	Drill Guide 3.2/4.5 mm, for Neutral and Load Position	1
12 MOI 3700007	DCS Angled Guide 95°	1
13 MOI 3700022	Double Drill Guide 4.5/6.5 mm	1
14 MOI 3700021	Double Drill Guide 3.2/4.5 mm	1
15 MOI 3700013	Quick Coupling T-Handle	1
16 MOI 3700023	Drill Bit 3.2 mm	2
17 MOI 3700006	DHS Angled Guide 135°	1
18 MOI 3700024	Drill Bit 4.5 mm	1
19 MOI 3700001	Depth Gauge, 40-150 mm	1
20 MOI 3700016	Depth Gauge, 10-100 mm	1
21 MOI 3700019	Tap 4.5 mm	1
22 MOI 3700020	Tap 6.5 mm	1
23 MOI 3700015	Kirschner Wire 2.5 mm, with Trocar Tip	2
24 MOI 3700014	Threaded Guide Wire 2.5 mm	2
25 MOI 3700026	Solid Retaining Rod	1
26 MOI 3700025A	Cannulated Retaining Rod	1
* MOI 370000C	Trays and Container	1

INSTRUMENTS INFORMATION

Additional Instruments for TIBER™ Locking Trochanter Stabilization Plate (MOI TIBER-02)



REF	DESCRIPTION	UNITS
1 MOI 370000D	Trochanter Stabilizing Plate Implant Tray	1
2 MOI 3700025	Bending Template	1
3 MOI 1800000	Bending Iron, Left	1
4 MOI 1800001	Bending Iron, Right	1
5 MOI 1800058	Drill Bit 2.8 mm, for 3.5 mm Locking Screws	2
6 MOI 1700046	Drill Sleeve, for 3.5 mm Locking Screws	2
7 MOI 1700030	Quick Connector	1
8 MOI 1700048	Screwdriver 3.5 mm, Stardrive	1
9 MOI 1700038	Torque Handle, 1.5 NM	1
10 MOI 370000E	Screw Caddy	1
* MOI 370000D	Trays and Container	1



| TRAUMA

USA OFFICE

2711 S Ocean Dr.
Unit 2704
Hollywood, FL 33019

PUERTO RICO OFFICE

1660 Santa Ana Street
Esq. Fidalgo Diaz,
San Juan, Puerto Rico 00909

E-mail: info@madisonorthoinc.com
Website: www.madisonorthoinc.com

