

SLS

Straight Locking Plates System

CAUTION: Federal Law (USA) restricts this device to sale by or on the order of a board certified physician. WARNING: If there is no sufficient bone healing, wrong or incomplete postoperative care, plate might break. All ITS plates are preformed anatomically as a matter of principle. If adjustment of the plate to the shape of the bone is required, this is possible by carefully bending gently in one direction once. Particular care is required when bending in the region of a plate hole, as deformation of the plate may lead to a failure of the locking mechanism. The plate must not be buckled or bent several times. This is particularly important in the case of titanium implants, to prevent material fatigue and subsequent failure. The method of bending is the conscious responsibility of the operating doctor; I.T.S. GmbH can accept no liability whatsoever for this.

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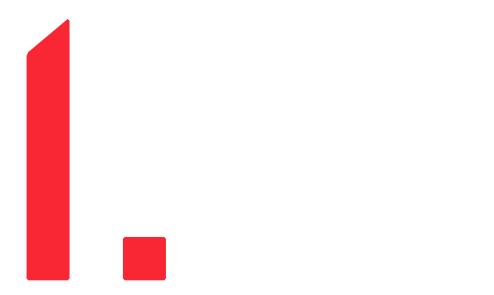
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Introduction



Preface

ITS. provides various Straight Locking Plates with different plate strengths and lengths covering a wide range of indications for shaft fractures.

The special feature of these implants is the free choice of screw placement. The user is able to set any desired screw in any hole either locking or non-locking screw (except long hole).

The free choice of screw angulation (+/- I5°, see page I7) provides an advantage in fracture treatment, especially in the case of complex fractures.



• Screws Straight Locking Plate 1.5/2.0mm

37351-XX-N 61273-100 56252	Spiral Drill, D=2.7mm, L=100mm, AO Connector Screwdriver, WS 2.5, self-holding sleeve	(Andrews and a second and a se	
32351-XX 61273-100 56252	Cortical Screw, D=3.5mm Spiral Drill, D=2.7mm, L=100mm, AO Connector Screwdriver, WS 2.5, self-holding sleeve	Canada and a constitution of the constitution	
37422-XX-N 61253-II0 56252	Spiral Drill, D=2.5mm, L=II0mm, AO Connector Screwdriver, WS 2.5,	Ottobbbbbbbbb	

Screws Straight Locking Plate 3.5/4.5mm

self-holding sleeve

		•
37455-XX	Cortical Screw, locking, D=4.5mm	
61323-145	Spiral Drill, D=3.2mm, L=145mm, AO Connector	
56352-SH	Screwdriver, WS 3.5, conic, self-holding	
32455-XX	Cortical Screw, D=4.5mm	
61323-145	Spiral Drill, D=3.2mm, L=145mm, AO Connector	Con Contract of the Contract o
56352-SH	Screwdriver, WS 3.5, conic, self-holding	
37592-XX	Cancellous Screw, locking, D=5.9mm	
61353-110	Spiral Drill, D=3.5mm, L=II0mm, AO Connector	Children
56352-SH	Screwdriver, WS 3.5, conic, self-holding	
3059I-XX	Cancellous Screw, D=5.9mm	
61353-110	Spiral Drill, D=3.5mm, L=II0mm, AO Connector	Contract of the same of the sa
56352-SH	Screwdriver, WS 3.5, conic, self-holding	- Anna Marie



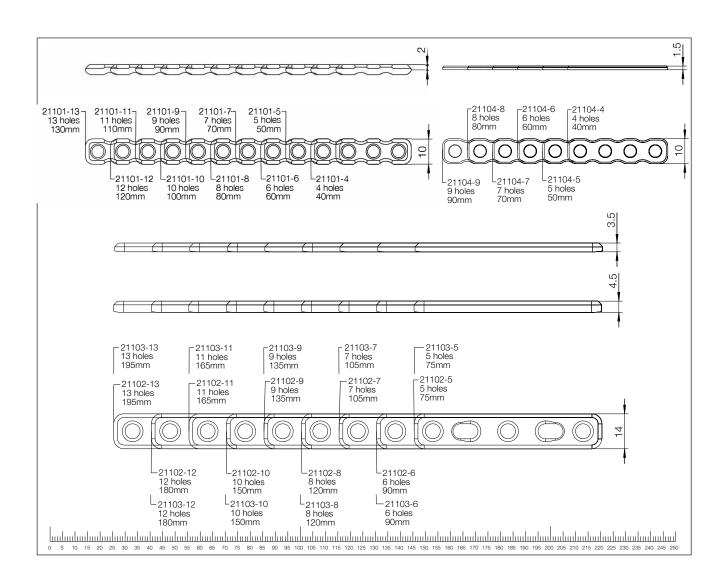
Properties

Properties of the material:

- Plate material: Titanium
- Material of screws: TiAl6V4 ELI
- Easier removal of the implant after the fracture has healed
- Improved fatigue strength of the implant
- Reduced risk of cold welding
- Reduced risk of inflammation and allergy

Properties of the implant:

- Multi-directional locking
- Anatomical plate design
- Accurate fitting of the plate on the bone
- Plate lenghts, I.5mm: 4, 5, 6, 7, 8, 9-hole
- Plate lenghts, 2.0mm: 4, 5, 6, 7, 8, 9,
 II, I3-hole
- Plate lenghts, 3.5/4.5mm: 5, 6, 7, 8, 9,
 II, I2, I3-hole
- Straight Plate 3.5/4.5mm: Fracture gap compression up to 8mm



Time of operation

- Immediately after trauma or delayed
- After regression of swelling

Pre-operative patient preparation

- General anaesthesia, regional anaesthesia or combined can be used
- Tourniquet/partial deprivation of the blood supply

Exposure

- Intra-operative x-ray fluoroscopy observation is required during the entire procedure
- Incision to the limb subchondral bone fracture site
- Transection of musculature if possible along the course of muscle fibers

Surgical Technique



Straight Locking Plate 1.5mm

Indications:

- The plate should primarily be used to reconstruct an anatomic situation
- Corrective osteotomies

Contraindications:

- The plate is not intended for shaft fractures of large bones such as humerus, femur and tibia
- Advanced osteoporosis
- In case of skin and soft tissue problems
- Existing infections
- Obesity
- Lack of patient compliance

Plate insertion

- Anatomical reduction of the fracture segments
- Temporary fixation of the plate using guide wires
- Subsequent control under fluoroscopy
- Optionally, the plate can be stabilized using the ITS. Temporary Plate Holder (58164-150)





Placement of the screws

Use the drill guide, D=2.7/2.0mm (62202) to bore with the spiral drill, D=2.7mm, L=100mm, AO Connector (61273-100) into the plate holes closest to the fracture.

Use the screwdriver, WS 2.5, self-holding sleeve (56252) to insert D=3.5mm cortical screws (32351-XX) of appropriate lengths determined previously with the depth gauge, solid small fragment screws (59022).

Attention: It is recommended that locking screws are not used close to the fracture.



Subsequently, place either D=3.5mm cortical or locking cortical screws (3235I-XX/3735I-XX-N) in plate holes far from the fracture.

Finally, control plate position under fluoroscopy.



Straight Locking Plate 2.0mm

Indications:

- The plate should primarily be used to reconstruct an anatomic situation
- Corrective osteotomies

Contraindications:

- The plate is not intended for shaft fractures of large bones such as humerus, femur and tibia
- Advanced osteoporosis
- In case of skin and soft tissue problems
- Existing infections
- Obesity
- · Lack of patient compliance

Plate insertion

- Anatomical reduction of the fracture segments
- Temporary fixation of the plate using guide wires
- Subsequent control under fluoroscopy
- Optionally, the plate can be stabilized using the ITS. Temporary Plate Holder (58164-150)





Placement of the screws

Use the drill guide, D=2.7/2.0mm (62202) to bore with the spiral drill, D=2.7mm, L=100mm, AO Connector (61273-100) into the plate holes closest to the fracture.

Use the screwdriver, WS 2.5, self-holding sleeve (56252) to insert D=3.5mm cortical screws (32351-XX) of appropriate lengths determined previously with the depth gauge, solid small fragment screws (59022).

Attention: It is recommended that locking screws are not used close to the fracture.



Subsequently, place either D=3.5mm cortical or locking cortical screws (3235I-XX/3735I-XX-N) in plate holes far from the fracture.

Finally, control plate position under fluoroscopy.



Straight Locking Plate 3.5/4.5mm

Indications:

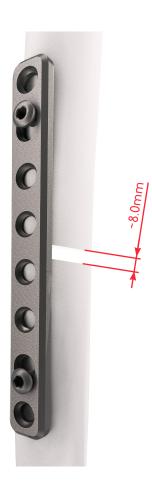
- All diaphyseal fractures, especially when compression for fracture treatment is needed
- Corrective osteotomies

Contraindications:

- Advanced osteoporosis
- In case of skin and soft tissue problems
- Existing infections
- Obesity
- Lack of patient compliance

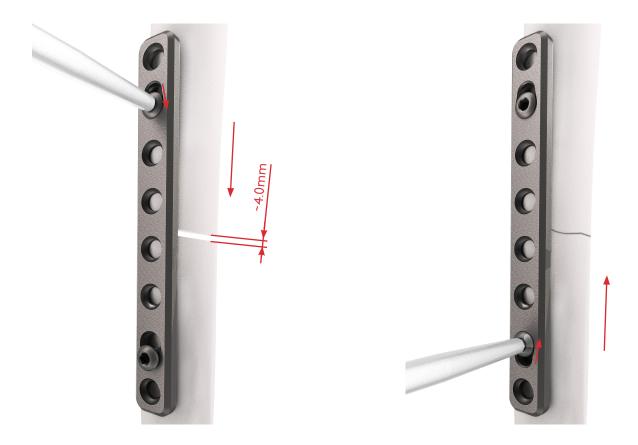
Plate insertion

- Anatomical reduction of the fracture parts
- Temporary fixation of the plate using forceps
- Subsequent control under fluoroscopy



Placement of the screws

For compression up to 8mm the D=4.5mm cortical screws or D=5.9mm cancellous screws (32455-XX/3059I-XX) are used at both sides of the fracture for compression.



Subsequently, place screws in the remaining plate holes.

Attention: It is recommended that locking screws are not used close to the fracture.

Finally, control plate position under fluoroscopy.



Postoperative treatment

- Drainage is recommended for 12-24 hours to prevent postoperative hematoma
- Proper bandage dressing for 2 weeks (until the wound heals)
- Physical therapy for 5-7 weeks
- When a locking screw connection has been used, it is necessary to be aware that a diagnosis of non-union may be very delayed

Explantation

If desired by the patient, the implant can be removed. Removal should be performed at the earliest 6 months - $1^{1/2}$ years later or after radiographic verification of the healed bone.

The problem of cold welding was resolved by using a special surface treatment (for further information see page 17).

Information



Locking

Locking works because:

- Screw material (TiAlV) is slightly harder than plate material (Titanium Grade 2)
- Screw head forms thread into the plate (no cutting)

Benefits:

- ± 15° and Locking
- No pre threading
- No cold welding
- No debris
- You can re-set the screw up to 3 times



Dotize®

Chemical process - anodization in a strong alkaline solution*

Type III anodization

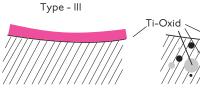
- Layer thickness 60-200nm
 - + Different colors

Discoloration

 Implant surface remains sensitive to: Chipping Peeling

Dotize Type II anodization

- Layer thickness 2000-I0 000nm
 - + Film becomes an interstitial part of the titanium
 - No visible cosmetic effect



Anodization Type II leads to following benefits*

- Oxygen and silicon absorbing conversion layer
- Decrease in protein adsorption
- Closing of micro pores and micro cracks
- Reduced risk of inflammation and allergy
- Hardened titanium surface
- Reduced tendency of cold welding of titanium implants
- Increased fatigue resistance of implants
- Improved wear and friction characteristics



Order list, Straight Locking Plate 1.5/2.0mm

Straight Plate, 1.5mm, 4-hole Straight Plate, 1.5mm, 5-hole Straight Plate, 1.5mm, 6-hole Straight Plate, 1.5mm, 7-hole Straight Plate, 1.5mm, 8-hole	21104-4 21104-5 21104-6 21104-7 21104-8	000000
Straight Plate, 1.5mm, 9-hole	21104-9	
Straight Plate, 2.0mm, 4-hole	21101-4	
Straight Plate, 2.0mm, 5-hole	21101-5	
Straight Plate, 2.0mm, 6-hole	21101-6	
Straight Plate, 2.0mm, 7-hole	21101-7	
Straight Plate, 2.0mm, 8-hole	21101-8	
Straight Plate, 2.0mm, 9-hole	21101-9	
Straight Plate, 2.0mm, 11-hole	21101-11	
Straight Plate, 2.0mm, 13-hole	21101-13	
Instruments and Screws, Straight Plate 1.5/2.0mm		
Cortical Screw, D=3.5mm, L=10mm	32351-10	Querra.
Cortical Screw, D=3.5mm, L=12mm	32351-12	- Constitution of the Cons
Cortical Screw, D=3.5mm, L=14mm	32351-14	•
Cortical Screw, D=3.5mm, L=16mm	32351-16	
Cortical Screw, D=3.5mm, L=18mm	32351-18	
Cortical Screw, D=3.5mm, L=20mm	32351-20	
Cortical Screw, D=3.5mm, L=22mm	32351-22	
Cortical Screw, D=3.5mm, L=24mm	32351-24	
Cortical Screw, D=3.5mm, L=26mm	32351-26	
Cortical Screw, D=3.5mm, L=28mm	32351-28	
Cortical Screw, D=3.5mm, L=30mm	32351-30	
Cortical Screw, D=3.5mm, L=32mm	32351-32	
Cortical Screw, D=3.5mm, L=34mm	32351-34	
Cortical Screw, D=3.5mm, L=36mm	32351-36	
Cortical Screw, D=3.5mm, L=38mm	32351-38	
Cortical Screw, D=3.5mm, L=40mm	32351-40	
Cortical Screw, D=3.5mm, L=42mm	32351-42	
Cortical Screw, D=3.5mm, L=44mm	32351-44	
Cortical Screw, D=3.5mm, L=46mm	32351-46	
Cortical Screw, D=3.5mm, L=48mm	32351-48	
Cortical Screw, D=3.5mm, L=50mm	32351-50	
Cortical Screw, D=3.5mm, L=55mm	32351-55	
Cortical Screw, D=3.5mm, L=60mm	32351-60	
Cortical Screw, Locking, D=3.5mm, L=12mm, SH	37351-12-N	(Compression and the service of the
Cortical Screw, Locking, D=3.5mm, L=14mm, SH	37351-14-N	A THE THE PARTY OF
Cortical Screw, Locking, D=3.5mm, L=16mm, SH	37351-16-N	-
Cortical Screw, Locking, D=3.5mm, L=18mm, SH	37351-18-N	
Cortical Screw, Locking, D=3.5mm, L=20mm, SH	37351-20-N	
Cortical Screw, Locking, D=3.5mm, L=22mm, SH	37351-22-N	
Cortical Screw, Locking, D=3.5mm, L=24mm, SH	37351-24-N	
Cortical Screw, Locking, D=3.5mm, L=26mm, SH	37351-26-N	
Cortical Screw, Locking, D=3.5mm, L=28mm, SH	37351-28-N	

Cortical Screw, Locking, D=3.5mm, L=30mm, SH Cortical Screw, Locking, D=3.5mm, L=32mm, SH Cortical Screw, Locking, D=3.5mm, L=34mm, SH Cortical Screw, Locking, D=3.5mm, L=36mm, SH Cortical Screw, Locking, D=3.5mm, L=38mm, SH	37351-30-N 37351-32-N 37351-34-N 37351-36-N 37351-38-N	
Cortical Screw, Locking, D=3.5mm, L=40mm, SH	37351-40-N	
Cortical Screw, Locking, D=4.2mm, L=14mm, SH	37422-14-N	Market .
Cortical Screw, Locking, D=4.2mm, L=16mm, SH	37422-14-N	WAS SECULATED AND ADDRESS OF THE PARTY OF TH
Cortical Screw, Locking, D=4.2mm, L=18mm, SH	37422-18-N	
Cortical Screw, Locking, D=4.2mm, L=20mm, SH	37422-10-N	
	37422-20-N 37422-22-N	
Cortical Screw, Locking, D=4.2mm, L=22mm, SH		
Cortical Screw, Locking, D=4.2mm, L=24mm, SH	37422-24-N	
Cortical Screw, Locking, D=4.2mm, L=26mm, SH	37422-26-N	
Cortical Screw, Locking, D=4.2mm, L=28mm, SH	37422-28-N	
Cortical Screw, Locking, D=4.2mm, L=30mm, SH	37422-30-N	
Cortical Screw, Locking, D=4.2mm, L=32mm, SH	37422-32-N	
Cortical Screw, Locking, D=4.2mm, L=34mm, SH	37422-34-N	
Cortical Screw, Locking, D=4.2mm, L=36mm, SH	37422-36-N	
Cortical Screw, Locking, D=4.2mm, L=38mm, SH	37422-38-N	
Cortical Screw, Locking, D=4.2mm, L=40mm, SH	37422-40-N	
Cortical Screw, Locking, D=4.2mm, L=42mm, SH	37422-42-N	
Cortical Screw, Locking, D=4.2mm, L=44mm, SH	37422-44-N	
Cortical Screw, Locking, D=4.2mm, L=46mm, SH	37422-46-N	
Cortical Screw, Locking, D=4.2mm, L=48mm, SH	37422-48-N	
Cortical Screw, Locking, D=4.2mm, L=50mm, SH	37422-50-N	
Cortical Screw, Locking, D=4.2mm, L=55mm, SH	37422-55-N	
Cortical Screw, Locking, D=4.2mm, L=60mm, SH	37422-60-N	
Screwdriver, WS 2.5, self-holding sleeve	56252	
Spiral Drill, D=2.7mm, L=100mm, AO Connector	61273-100	
Depth Gauge, Solid Small Fragment Screws	59022	
Drill Guide, D=2.7/2.0mm	62202	
Temporary Plate Holder	58164-150	-
Sterilization Tray, Straight Plate 1.5mm	50166	
Sterilization Tray, Straight Plate 2.0mm	50166	

For detailed cleaning and sterilization instructions, please refer to package insert.

Order list, Straight Locking Plate 3.5/4.5mm

Straight Plate, 3.5mm, 5-hole	21102-5	
Straight Plate, 3.5mm, 6-hole	21102-6	
Straight Plate, 3.5mm, 7-hole	21102-7	
Straight Plate, 3.5mm, 8-hole	21102-8	
Straight Plate, 3.5mm, 9-hole	21102-9	
Straight Plate, 3.5mm, 10-hole	21102-10	
Straight Plate, 3.5mm, 11-hole	21102-11	
Straight Plate, 3.5mm, 12-hole	21102-12	
Straight Plate, 3.5mm, 13-hole	21102-13	
Straight Plate, 4.5mm, 5-hole	21103-5	
Straight Plate, 4.5mm, 6-hole	21103-5	
Straight Plate, 4.5mm, 7-hole	21103-7	
Straight Plate, 4.5mm, 8-hole	21103-8	
Straight Plate, 4.5mm, 9-hole	21103-9	
Straight Plate, 4.5mm, 10-hole	21103-10	
Straight Plate, 4.5mm, 11-hole	21103-11	
Straight Plate, 4.5mm, 12-hole	21103-12	
Straight Plate, 4.5mm, 13-hole	21103-13	
Cortical Screw, D=4.5mm, L=16mm	32455-16	
Cortical Screw, D=4.5mm, L=20mm	32455-20	
Cortical Screw, D=4.5mm, L=24mm	32455-24	
Cortical Screw, D=4.5mm, L=28mm	32455-28	
Cortical Screw, D=4.5mm, L=32mm	32455-32	
Cortical Screw, D=4.5mm, L=36mm	32455-36	
Cortical Screw, D=4.5mm, L=40mm	32455-40	
Cortical Screw, D=4.5mm, L=44mm	32455-44	
Cortical Screw, D=4.5mm, L=48mm	32455-48	
Cortical Screw, D=4.5mm, L=52mm	32455-52	
Cortical Screw, D=4.5mm, L=56mm	32455-56	
Cortical Screw, D=4.5mm, L=60mm	32455-60	
Cortical Screw, D=4.5mm, L=65mm	32455-65	
Cortical Screw, D=4.5mm, L=70mm	32455-70	
Cortical Screw, D=4.5mm, L=75mm	32455-75	
Cortical Screw, D=4.5mm, L=80mm	32455-80	
Cortical Screw, D=4.5mm, L=85mm	32455-85	
Cortical Screw, D=4.5mm, L=90mm	32455-90	
Cortical Screw, Locking, D=4.5mm, L=16mm	37455-16	
Cortical Screw, Locking, D=4.5mm, L=20mm	37455-20	Culling
Cortical Screw, Locking, D=4.5mm, L=24mm	37455-24	
Cortical Screw, Locking, D=4.5mm, L=28mm	37455-28	
Cortical Screw, Locking, D=4.5mm, L=32mm	37455-32	
Cortical Screw, Locking, D=4.5mm, L=36mm	37455-36	
Cortical Screw, Locking, D=4.5mm, L=40mm	37455-40	
Cortical Screw, Locking, D=4.5mm, L=44mm	37455-44	
Cortical Screw, Locking, D=4.5mm, L=48mm	37455-48	
Cortical Screw, Locking, D=4.5mm, L=52mm	37455-52	
Cortical Screw, Locking, D=4.5mm, L=56mm	37455-56 37455-60	
Cortical Screw, Locking, D=4.5mm, L=60mm	37455-60 37455-65	
Cortical Screw, Locking, D=4.5mm, L=65mm	37455-65	

Spiral Drill, D=3.2mm, L=145mm, AO Connector Spiral Drill, D=3.5mm, L=110mm, AO Connector	61323-145 61353-110	
Screwdriver, WS 3.5, Conic, Self-holding	56352-SH	
Canadairea MC 7 F Cania Calf la alaire a	F/7F2 SII	
Cancellous Screw, D=5.9mm, L=90mm, Threaded	30371-70	
Cancellous Screw, D=5.9mm, L=85mm, Threaded	30591-85 30591-90	
Cancellous Screw, D=5.9mm, L=80mm, Threaded	30591-80 30591-85	
Cancellous Screw, D=5.9mm, L=80mm, Threaded		
Cancellous Screw, D=5.9mm, L=70mm, Threaded	30591-70 30591-75	
Cancellous Screw, D=5.9mm, L=65mm, Threaded	30591-65 30591-70	
Cancellous Screw, D=5.9mm, L=60mm, Threaded	30591-60 30591-65	
Cancellous Screw, D=5.9mm, L=56mm, Threaded	30591-56	
Cancellous Screw, D=5.9mm, L=52mm, Threaded	30591-52 30501-54	
Cancellous Screw, D=5.9mm, L=52mm, Threaded	30591-48	
Cancellous Screw, D=5.9mm, L=44mm, Threaded	30591-44	
Cancellous Screw, D=5.9mm, L=40mm, Threaded	30591-40	
Cancellous Screw, D=5.9mm, L=36mm, Threaded	30591-36	
Cancellous Screw, D=5.9mm, L=32mm, Threaded	30591-32	
Cancellous Screw, D=5.9mm, L=28mm, Threaded	30591-28	
Cancellous Screw, D=5.9mm, L=24mm, Threaded	30591-24	
Cancellous Screw, D=5.9mm, L=20mm, Threaded	30591-20	
Cancellous Screw, D=5.9mm, L=16mm, Threaded	30591-16	
Cancellous Screw, Locking, D=5.9mm, L=90mm	37592-90	
Cancellous Screw, Locking, D=5.9mm, L=85mm	37592-85	
Cancellous Screw, Locking, D=5.9mm, L=80mm	37592-80	
Cancellous Screw, Locking, D=5.9mm, L=75mm	37592-75	
Cancellous Screw, Locking, D=5.9mm, L=70mm	37592-70	
Cancellous Screw, Locking, D=5.9mm, L=65mm	37592-65	
Cancellous Screw, Locking, D=5.9mm, L=60mm	37592-60	
Cancellous Screw, Locking, D=5.9mm, L=56mm	37592-56	
Cancellous Screw, Locking, D=5.9mm, L=52mm	37592-52	
Cancellous Screw, Locking, D=5.9mm, L=48mm	37592-48	
Cancellous Screw, Locking, D=5.9mm, L=44mm	37592-44	
Cancellous Screw, Locking, D=5.9mm, L=40mm	37592-40	
Cancellous Screw, Locking, D=5.9mm, L=36mm	37592-36	
Cancellous Screw, Locking, D=5.9mm, L=32mm	37592-32	
Cancellous Screw, Locking, D=5.9mm, L=28mm	37592-28	
Cancellous Screw, Locking, D=5.9mm, L=24mm	37592-24	
Cancellous Screw, Locking, D=5.9mm, L=20mm	37592-20	Catholica
Cancellous Screw, Locking, D=5.9mm, L=16mm	37592-16	
Cortical Screw, Locking, D=4.5mm, L=30mm	37433-70	
Cortical Screw, Locking, D=4.5mm, L=85mm Cortical Screw, Locking, D=4.5mm, L=90mm	37455-85 37455-90	
Cortical Screw, Locking, D=4.5mm, L=80mm	37455-80	
Cortical Screw, Locking, D=4.5mm, L=75mm	37455-75	
Cortical Screw, Locking, D=4.5mm, L=70mm	37455-70	
C .: C	77455 70	

Depth Gauge, Solid Small Fragment Screws	59022	
Drill Guide, D=2.5/3.5mm	62252	
Sterilization Tray, Straight Plate 3.5/4.5mm	50223	
Optional (on request)*		
Cortical Screw, D=4.5mm, L=95mm Cortical Screw, D=4.5mm, L=100mm Cortical Screw, D=4.5mm, L=105mm Cortical Screw, D=4.5mm, L=110mm Cortical Screw, D=4.5mm, L=115mm Cortical Screw, D=4.5mm, L=120mm	32455-95 32455-100 32455-105 32455-110 32455-115 32455-120	
Cortical Screw, Locking, D=4.5mm, L=95mm Cortical Screw, Locking, D=4.5mm, L=100mm Cortical Screw, Locking, D=4.5mm, L=105mm Cortical Screw, Locking, D=4.5mm, L=110mm Cortical Screw, Locking, D=4.5mm, L=115mm Cortical Screw, Locking, D=4.5mm, L=120mm	37455-95 37455-100 37455-105 37455-110 37455-120	
Cancellous Screw, Locking, D=5.9mm, L=95mm Cancellous Screw, Locking, D=5.9mm, L=100mm Cancellous Screw, Locking, D=5.9mm, L=105mm Cancellous Screw, Locking, D=5.9mm, L=110mm Cancellous Screw, Locking, D=5.9mm, L=115mm Cancellous Screw, Locking, D=5.9mm, L=120mm	37592-95 37592-100 37592-105 37592-110 37592-115 37592-120	
Cancellous Screw, D=5.9mm, L=95mm, Threaded Cancellous Screw, D=5.9mm, L=100mm, Threaded Cancellous Screw, D=5.9mm, L=105mm, Threaded Cancellous Screw, D=5.9mm, L=110mm, Threaded Cancellous Screw, D=5.9mm, L=115mm, Threaded Cancellous Screw, D=5.9mm, L=120mm, Threaded	30591-95 30591-100 30591-105 30591-110 30591-115 30591-120	Callebook

For detailed cleaning and sterilization instructions, please refer to package insert.

Notes	



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