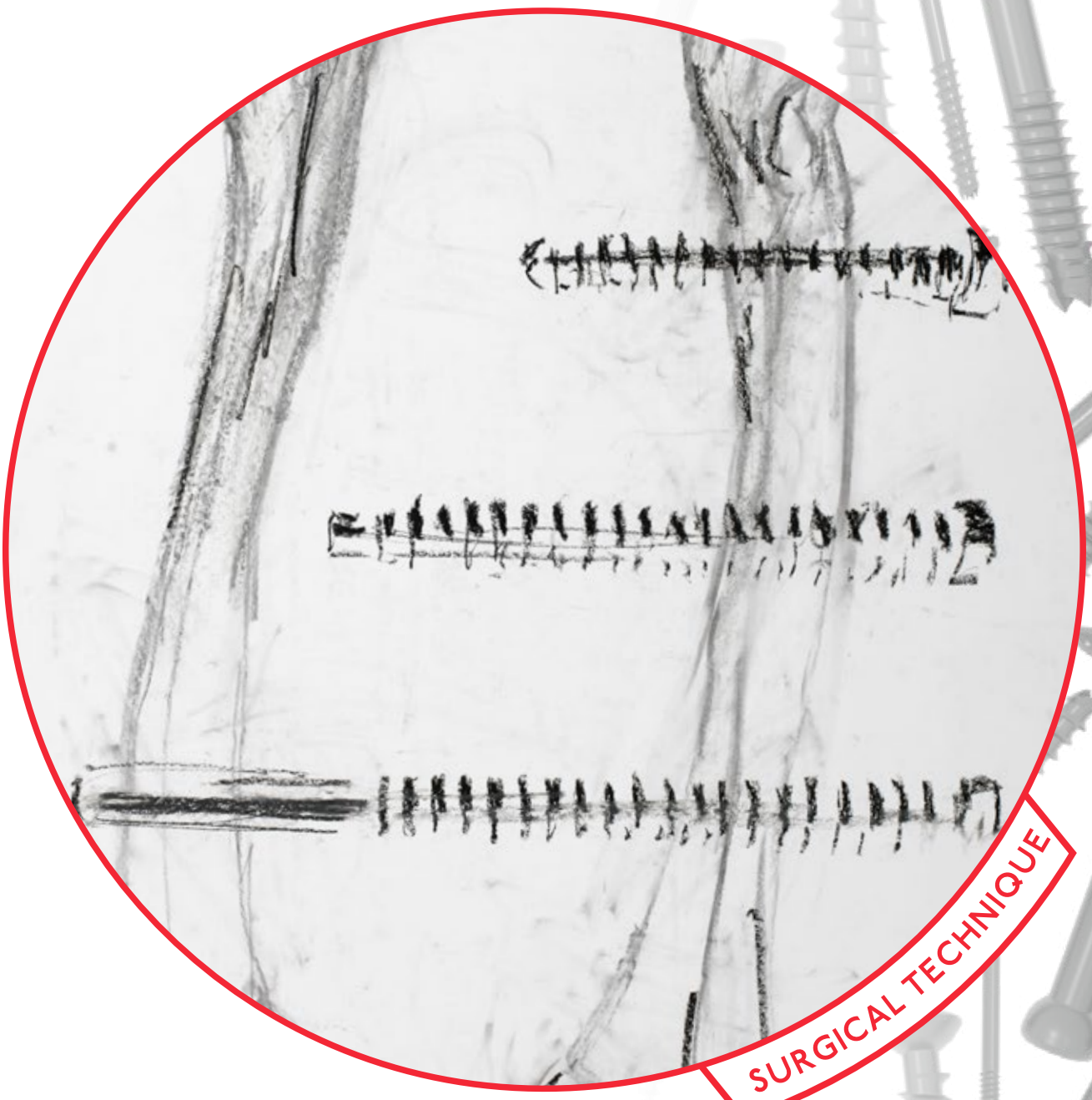
ITS.

Implants for Trauma Surgery



SURGICAL TECHNIQUE

CAnnulated Screws

ITS.
Implants for Trauma Surgery

THE ART of TRAUMA SURGERY

The Art of Trauma Surgery is a collaborative project between I.T.S. and Austrian artist Oskar Stocker that celebrates the skill, perseverance, and artistry of engineers and surgeons who work tirelessly to improve outcomes for trauma patients.

At I.T.S., we stand for long-term, trusting relationships with our customers, suppliers, and development partners. Through our devotion to innovation and development, we continuously seek to improve and optimize products and techniques in the field of traumatology.

We believe that the success of our mission lies in the combination of the technical expertise, compassion, and dedication of surgeons and engineers to help patients regain their health and well-being. Join us in celebrating these remarkable individuals and *The Art of Trauma Surgery*!

About the Artist

The Austrian artist Oskar Stocker (b. 1956) lives and works in Graz, Austria. He has become known internationally through the exhibition Facing Nations, which consists of portraits of more than 120 people of various nationalities living in Graz; it was shown first in Graz itself, then in Vienna, and later culminated in 2010 with its display at the UN Headquarters in New York City.

In addition to the portraits of individual people, he devotes himself to the depiction of landscapes and objects, down to the smallest detail.

All I.T.S. 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.

Table of Contents

Introduction

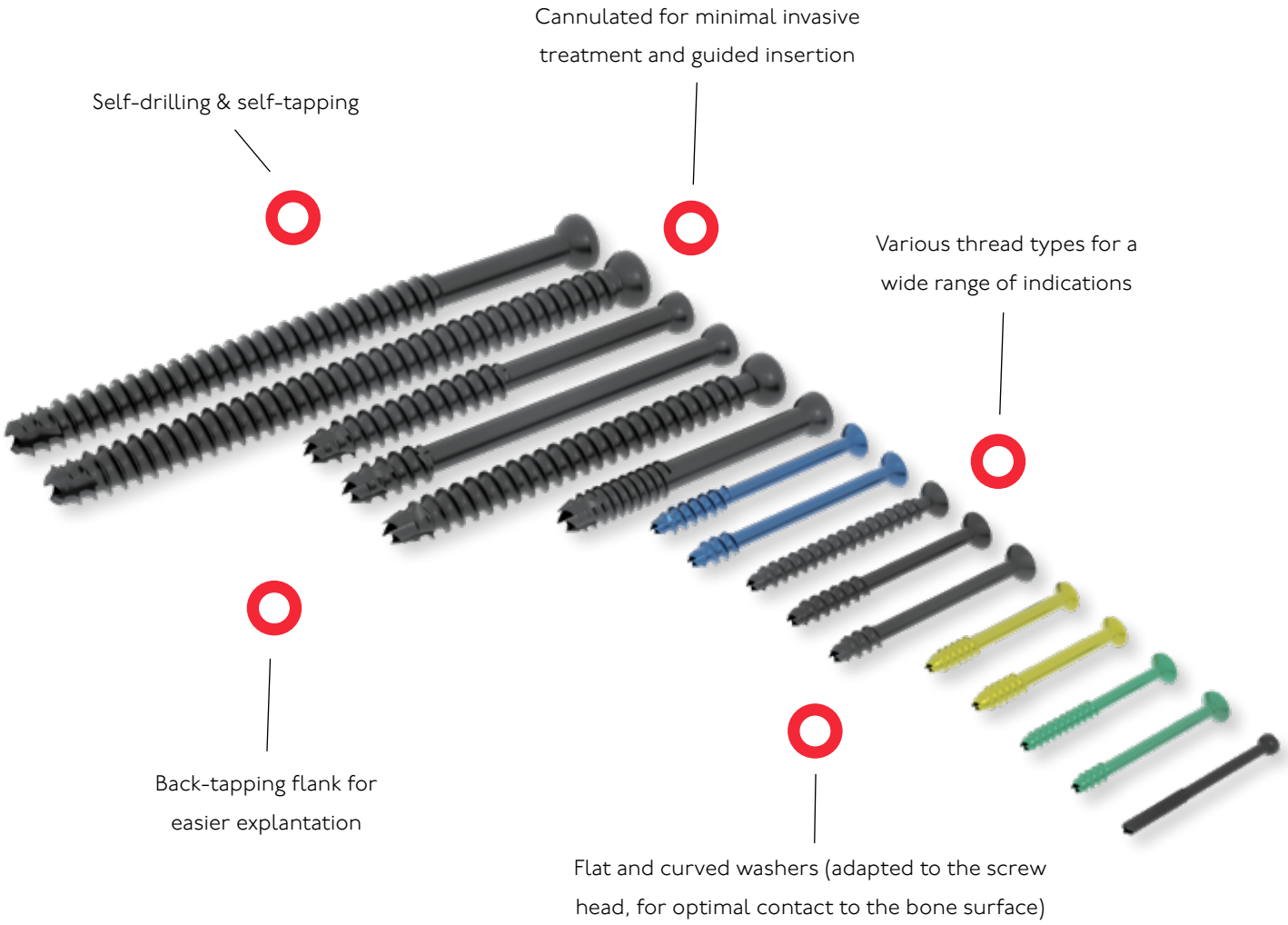
System Overview

I.T.S. provides various cannulated screw types with different diameters and lengths covering a wide range of indications for fracture treatment in trauma surgery.

Low-profile screw heads with small diameters help minimize soft tissue irritation and are suitable for minimally invasive methods.

We offer customized equipping of surgical trays so that users can have trays put together according to their needs and preferences.

Properties

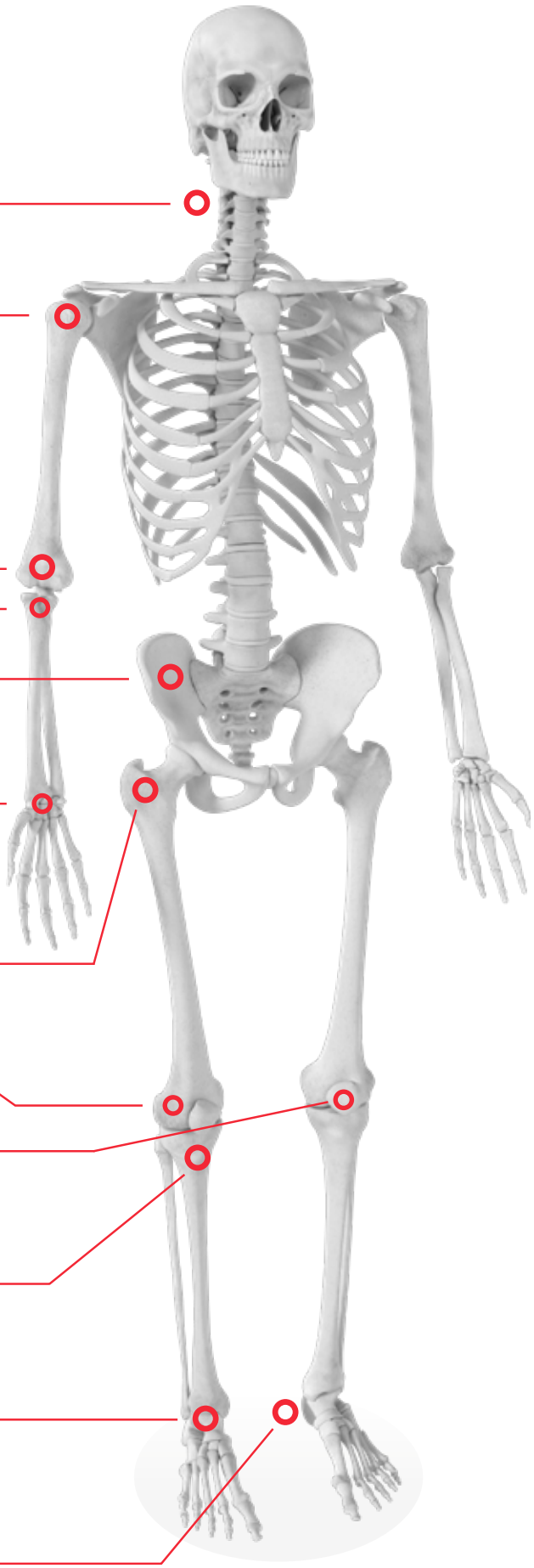

Cannulated for minimal invasive treatment and guided insertion
Self-drilling & self-tapping
Various thread types for a wide range of indications
Back-tapping flank for easier explantation
Flat and curved washers (adapted to the screw head, for optimal contact to the bone surface)

Screw Overview

Description		Washer	Thread	Screw Length
OPTIONAL: CAS 2.0	Ø 2.45mm  Ø 2.0mm 31202-xx	-	Variable thread	8 - 30mm (Interval 2mm)
CAS 2.7	Ø 5.0mm  Ø 2.7mm 31272-xx	-	Short thread	12 - 30mm (Interval 2mm)
	Ø 5.0mm  Ø 2.7mm 31277-xx	-	Variable thread	12 - 32mm (Interval 2mm)
CAS 3.5	Ø 5.0mm  Ø 3.5mm 31352-xx	OPTIONAL:  36351 OD: 7mm ID: 3.6mm	Short thread	16 - 50mm (Interval 2mm) 50 - 70mm (Interval 5mm)
	Ø 5.0mm  Ø 3.5mm 31357-xx		Variable thread	16 - 50mm (Interval 2mm) 50 - 70mm (Interval 5mm)
CAS 4.0	Ø 6.5mm  Ø 4.0mm 31402-xx	 36431 OD: 11mm ID: 4.5mm	9mm thread	16 - 50mm (Interval 2mm) 50 - 70mm (Interval 5mm)
	Ø 6.5mm  Ø 4.0mm 31404-xx	 36432 OD: 11mm ID: 4.5mm	Variable thread	16 - 50mm (Interval 2mm) 50 - 80mm (Interval 5mm)
	Ø 6.5mm  Ø 4.0mm 31407-xx		Fully thread	35 - 60mm (Interval 5mm)
CAS 4.5	Ø 6.5mm  Ø 4.5mm 31452-xx	OPTIONAL:  36352 OD: 7mm ID: 4.6mm	Short thread	16 - 50mm (Interval 2mm) 50 - 70mm (Interval 5mm)
CAS 4.5	Ø 6.5mm  Ø 4.5mm 31457-xx		Variable thread	16 - 50mm (Interval 2mm) 50 - 70mm (Interval 5mm)

Description		Washer	Thread	Screw Length
CAS 6.5	Ø 8.0mm — 31652-xx — Ø 6.5mm	36651 OD: 14mm ID: 7.0mm 36653 OD: 12.6mm ID: 7mm OPTIONAL: 36652 OD: 12mm ID: 7mm	22mm thread	25 - 120mm (Interval 5mm)
CAS 7.3	Ø 10.0mm — 31731-xx — Ø 7.3mm	36731 OD: 15mm ID: 7.5mm 36732 OD: 14mm ID: 7.5mm	Fully threaded	50 - 120mm (Interval 5mm)
	Ø 8.0mm — 31732-xx — Ø 7.3mm		16mm thread	40 - 120mm (Interval 5mm)
	Ø 8.0mm — 31734-xx — Ø 7.3mm		Variable thread	35 - 120mm (Interval 5mm)
CAS 8.5	Ø 11.5mm — 31851-xx — Ø 8.5mm	36851 OD: 15/25mm ID: 9mm	Fully threaded	60 - 200mm (Interval 5mm) **Optional**: 205 - 250 mm
	Ø 11.5mm — 31854-xx — Ø 8.5mm		Variable thread Constant non-threaded section (35mm)	60 - 200mm (Interval 5mm) **Optional**: 205 - 250 mm

Indications



4.0mm (Dens Axis)

3.5 / 4.0 / 4.5mm

3.5 / 4.0 / 4.5mm

2.0 / 2.7 / 3.5/ 4.0/ 4.5mm

6.5 / 7.3 / 8.5mm (Pelvis)

2.0 / 2.7mm (distal Radius & Scaphoid Bone)
3.5 / 4.0mm

6.5 / 7.3mm

4.5 / 6.5 / 7.3mm

3.5 / 4.0mm (Patella)

4.5 / 6.5 / 7.3mm

3.5 / 4.0 / 4.5mm

2.0 / 2.7mm (Tarsal)
3.5mm (Tarsal, Talus)
4.0 / 4.5mm (Talus)
7.3mm (Calcaneus)

Screw	Indications	
2.0mm	• Proximal and distal Radius Fractures • Proximal Ulna Fractures	• Scaphoid Bone Fractures • Tarsal Fractures
2.7mm	• Proximal and distal Radius Fractures • Proximal Ulna Fractures	• Scaphoid Bone Fractures • Tarsal Fractures
3.5mm	• Malleolus medialis/ lateralis Fractures • Proximal and distal Radius and Humerus Fractures • Proximal Ulna Fractures • Patella Fractures	• Distal Tibia Fractures • Upper ankle Fractures • Tarsal Fractures • Talus Fractures • Ligament fication
4.0mm	• Dens Axis Fractures • Proximal and distal Radius and Humerus Fractures • Proximal Ulna Fractures • Patella Fractures	• Distal Tibia Fractures • Malleolus medialis/ lateralis Fractures • Talus Fractures • Ligament fixation
4.5mm	• Proximal and distal Radius and Humerus Fractures • Proximal Ulna and Radius Fractures • Pelvic Fractures • Supracondylar Fractures of the Femur	• Distal and proximal Tibia Fractures • Malleolus medialis/lateralis Fractures • Talus Fractures • Ligament fixation
6.5mm	• Pelvic Fractures • Sacroiliac joint Fractures • Femur neck Fractures • Supracondylar Fractures of the Femur	• Proximal Tibia Fractures • Arthrodesis of the upper and lower ankle
7.3mm	• Pelvic Fractures • Femur neck Fractures • Supracondylar fractures of the Femur	• Proximal Tibia Fractures • Calcaneus Fractures
8.5mm	• Pelvic Fractures	

Contraindications

- Diaphyseal fractures of long bones
- In advanced osteoporosis
- Obesity
- Lack of patient compliance

Time of Operation

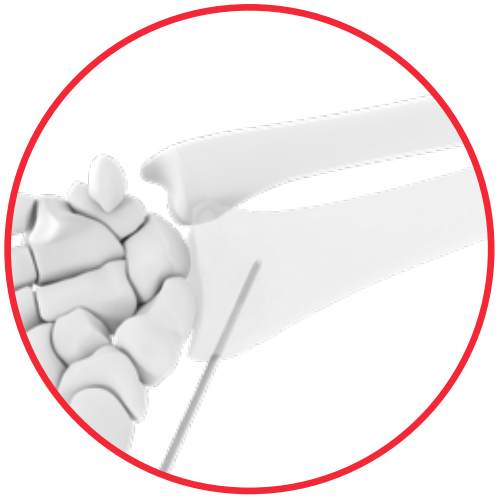
- Primary: Within the first hours after trauma
- Secondary: After swelling subsides, intermediate fixation with external fixation or extension

Surgical Technique

2.

Temporary Fixation with Guide Wire

- After placing a stab incision, provisionally fix the fracture segments using the guide wire corresponding to the screw diameter to be used *(see table below)*.



Screw Ø	Guide Wire Ø	Guide Wire Article Number
2.0	0.9	35094-100-H
2.7	1.2	35124-228
3.5	1.2	35124-228
4.0	1.6	35164-228
4.5	1.6	35164-228
6.5	3.2	35324-228
7.3	3.2	35324-228
8.5	3.2	35321-435

TIP: The 8.5mm Cannulated Screw can be inserted using the MIS Tissue Protection Sleeve in which a washer can be preloaded. For this technique, *see P.19*.

For free-hand insertion over a Guide Wire (with or without washer) and for all other screw diameters, follow the steps listed next to it.

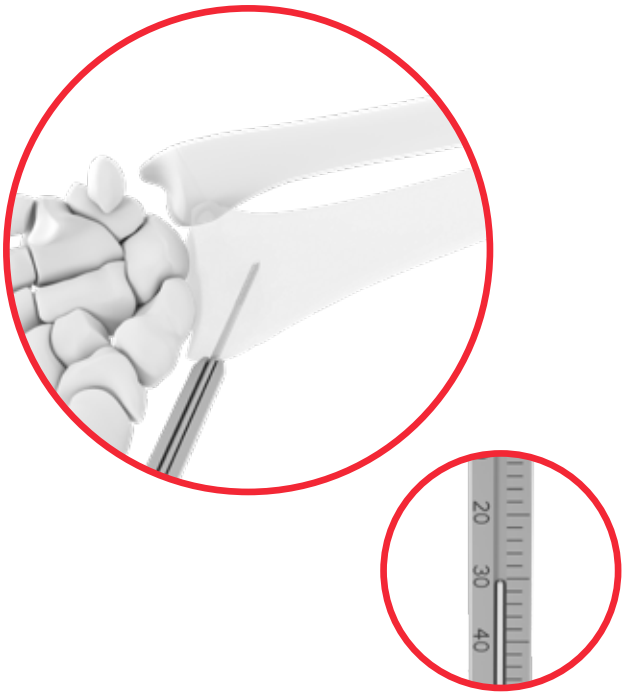
IMPORTANT: To aviod bending the guide wire, insert it carefully.

- Control the correct position of the guide wire under fluoroscopy.

Identification of Screw Length

- Place screw depth gauge over the guide wire and insert it through the soft tissue down to the bone.

- Read off the required length measurement at the end of the calibrated guide wire.



Screw Ø	K-Wire Ø	Depth Gauge Article Number
2.0	0.9	59029 & 59034
2.7	1.2	59162
3.5	1.2	59162
4.0	1.6	59162 (59163 Dens Axis)
4.5	1.6	59162
6.5	3.2	59321
7.3	3.2	59321
8.5	3.2	59328

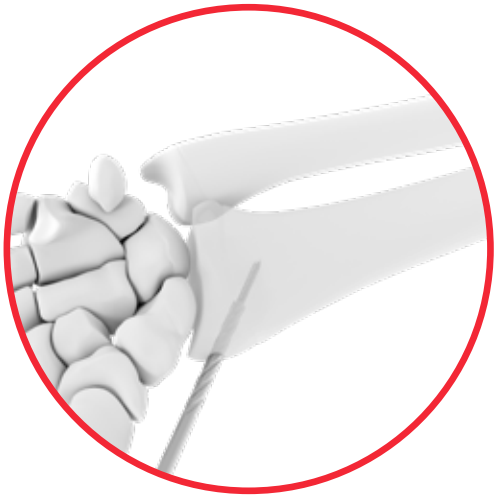
OPTIONAL: Drilling

Predrilling is possible in strong cortical bone with a drill point equal to the core diameter of the screw.

For easier insertion of the cannulated screw, place the spiral drill, cannulated, AO Connector over the guide wire and perform drilling under fluoroscopy.

IMPORTANT: Do not drill further than the tip of the guide wire as this would impair the firm fixation of the guide wire. It is recommended to drill up to approx. 5mm before the end of the guide wire.

Screw Ø	Drill Ø	Drill Article Number
2.0	1.5	61152-100
2.7	2	61201-100
3.5	-	-
4.0	2.6	61262-220
4.5	-	-
6.5	5	61502-200
7.3	5	61502-200
8.5	6.2	61620-420



ALTERNATIVE: For the 2.7, 3.5, 4.0 & 4.5mm screws, you can use the soft tissue protection sleeve (62301) and for 6.5 & 7.3mm (62304) with corresponding drill guides.

OPTIONAL: Washer

- When needed, a washer can be inserted along with the screw (for screw diameters 4.0 - 8.5).

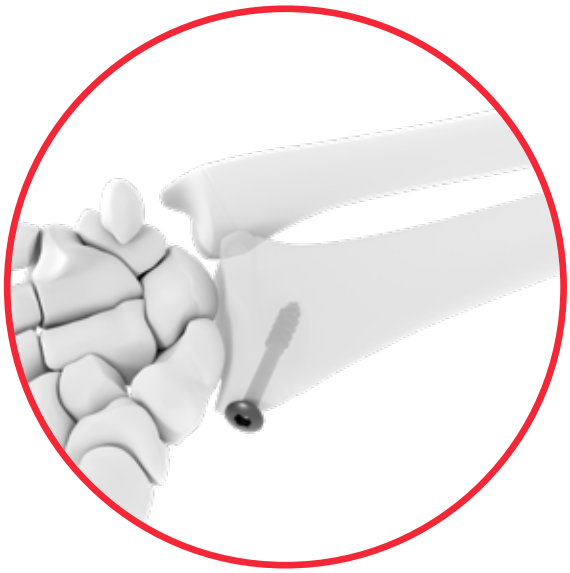
IMPORTANT: Through the additional bone contact surface, the screw load will be distributed across a larger are, thereby reducing countersinking of the screw head into osteoporotic bone.

Placement of the Screw

- Place the selected cannulated Cortical Screw with a short or a partial thread over the guide wire and insert it using the corresponding screwdriver, cannulated or Hexagon-/Torque-Shank.

Screw Ø	Screwdriver Article Number	Hexagon-/Torque*-Shank Articel Number
2.0	-	54097-80* or 54098-80*
2.7	56253-120	54100-100
3.5	56253-120	54100-100
4.0	56253-170	54100-100
4.5	56253-120	54100-100
6.5	56502	54502-120 or 54502-150
7.3	56502	54502-120 or 54502-150
8.5	56502-220	54502-150 or 54502-250

- Finally, remove the guide wire and confirm the correct position under fluoroscopy.



Application 8.5mm Cannulated Screws

MIS Tissue Guide Assembly with Washer

1. First step is to load the MIS Tissue Guide with the washer. Press the washer into the front opening until a click is heard and the washer locks into place.

Washer
36851

Guide Wire Insertion

2. Insert the 3.2mm guide wire *(35321-435)* through the K-wire sleeve within the MIS tissue protection sleeve *(64018)* via either an open approach or after placing a stab incision. Control its correct position under fluoroscopy.

Identification of Screw Length:

3. Remove the K-wire sleeve and place the screw depth gauge *(59328)* over the guide wire and insert it through the tissue protection sleeve down to the bone. Then read off the required length measurement at the end of the calibrated guide wire.

> **TIP:** If desired, the depth gauge can be used as stand-alone without the MIS Tissue Protection Sleeve. Also in this case, the depth gauge should be pushed down to the bone.

Drilling (Optional):

4. Predrilling is possible if needed in strong cortical bone. When drilling, insert the drill *(61620-420)* through the tissue protection sleeve, and drill to desired depth. Control through fluoroscopy.

TIP: As an alternative when predrilling, the screw length can be read off the calibrated markings on the drill against the drill sleeve.

Placement of the Screw:

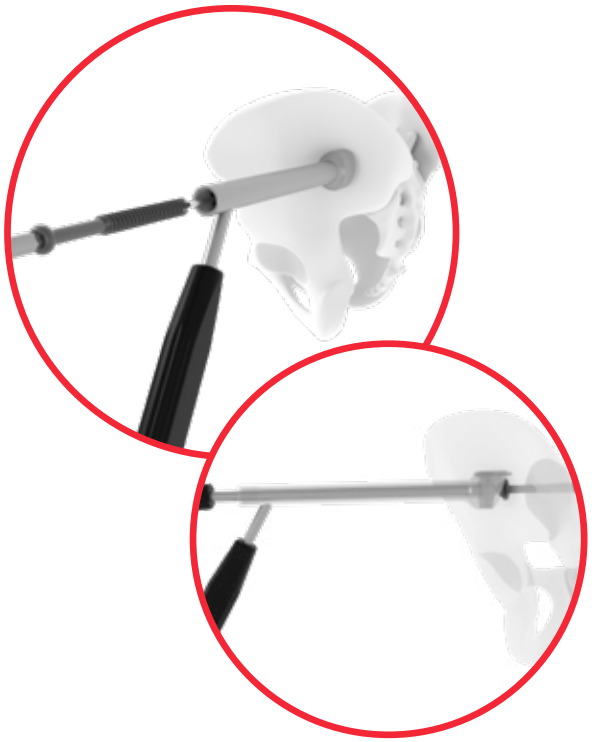
5. Place the D=8.5mm cannulated Cancellous Screw (partially threaded or fully threaded) over the guide wire and insert it using the cannulated screwdriver *(54502-250 or 56502-220)*.

TIP: When using a preloaded washer, the washer becomes released onto the bone with deployment of the screw.

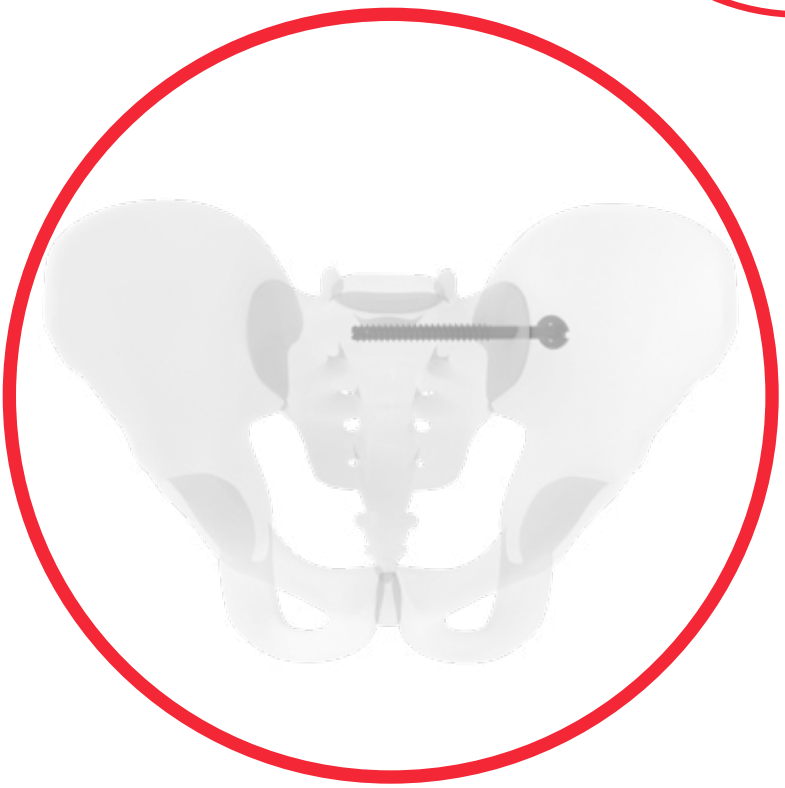
NOTE: Through the additional bone contact surface, the screw load will be distributed a larger area and reduce countersinking of the screw head into osteoporotic bone.

Fully threaded (31851-xx)

Partially threaded (31854-xx)



Finally remove the guide wire and MIS tissue protection sleeve. Then confirm the correct position under fluoroscopy.



Postoperative Treatment

IMPORTANT: The postoperative treatment may vary depending on the patient's age, bone quality or type of fracture.

• General:	Partial weight bearing at week 4-6 Full weight bearing at week 6-10	
• Dens Axis:	Stiff Schanz' collar brace for 2 weeks Soft Schanz' collar brace for the following 6 weeks (depending on the fracture healing the Schanz' collar brace can be removed after 8 weeks)	
• Femoral neck:	Partial weight bearing (toe contact)	15kg at week 0-(6)-12 30kg at week 12-14
• Distal Femur:	Knee bandage in ligament fixation Partial weight bearing (toe contact)	15kg at week 0-6 30kg at week 6-10
• Patella:	Partial weight bearing (outstreched leg) 30kg at week 0-6 Full weight bearing at week 6-8 (isometric quadriceps excercises)	
• Proximal Tibia:	Knee bandage in ligament fixation Partial weight bearing (toe contact)	15kg at week 4-w8 30kg at week 6-10
• Malleolus:	Partial weight bearing (toe contact) Full weight bearing after week 6	15kg at week 0-4 30kg at week 4-6
• Calcaneus:	Removable plaster cast to avoid pes equinus position Partial weight bearing (toe contact) Full weight bearing after week 10-16	5kg at week 0-6 30kg at week 6-10

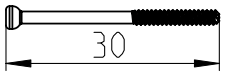
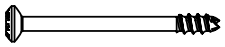
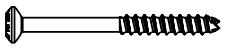
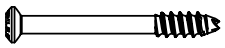
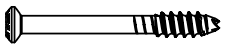
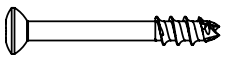
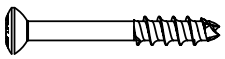
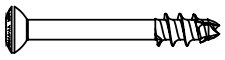
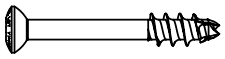
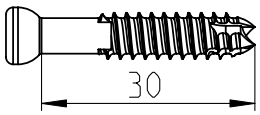
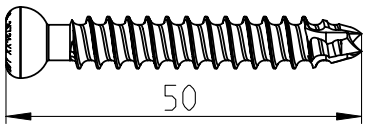
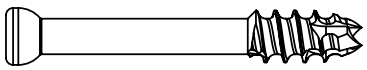
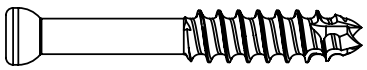
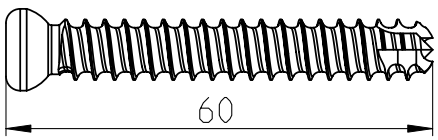
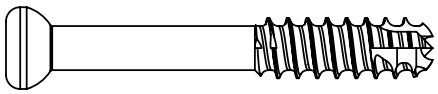
Explantation

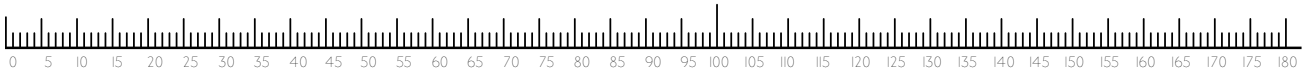
Removal is possible, if desired by the patient.
(Removal should be performed only after radiographic verification of the healed bone.)
The ITS. Type II anodization surface treatment reduces the risk of cold welding of titanium implants *(for more information, see page 27)*.

Information

3.

Technical Information

	Name	Article Number	Available Lengths
	Cortical Screw 2.0 Cannulated Variable thread	31202-xx	8-30mm
	Cortical Screw 2.7 Cannulated Short thread	31272-xx	10-30mm
	Cortical Screw 2.7 Cannulated Variable thread	31277-xx	12-32mm
	Cortical Screw 3.5 Cannulated Short thread	31352-xx	14-70mm
	Cortical Screw 3.5 Cannulated Variable thread	31357-xx	14-70mm
	Cancellous Screw 4.0 Cannulated 9mm thread	31402-xx	16-70mm
	Cancellous Screw 4.0 Cannulated Variable thread	31404-xx	16-80mm
	Cancellous Screw 4.0 Cannulated Fully threaded	31407-xx	35-60mm
	Cancellous Screw 4.5 Cannulated Short thread	31452-xx	16-70mm
	Cancellous Screw 4.5 Cannulated Variable thread	31457-xx	16-70mm
	Cancellous Screw 6.5 Cannulated 22mm thread	31652-xx	25-120mm
	Cancellous Screw 7.3 Cannulated Fully thread	31731-xx	50-120mm
	Cancellous Screw 7.3 Cannulated 16mm thread	31732-xx	40-120mm
	Cancellous Screw 7.3 Cannulated Variable thread	31734-xx	35-120mm
	Cancellous Screw 8.5 Cannulated Fully threaded	31851-xx	60-200mm (Optional 205-200mm)
	Cancellous Screw 8.5 Cannulated Partially threaded	31854-xx	60-200mm (Optional 205-200mm)



Not true to scale

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

Type II Anodization

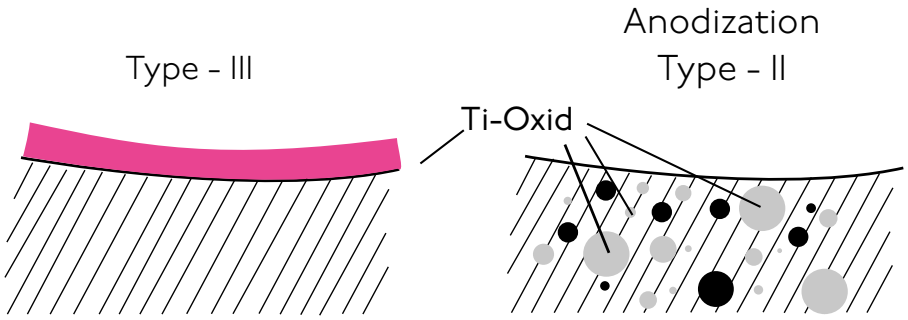
Chemical process - anodization in a strong alkaline solution*

Type III anodization

- Layer thickness 60-200nm
  - \+ Different colors
  - \- Implant surface remains sensitive to:
    Chipping
    Peeling
    Discoloration

Type II anodization

- Layer thickness 2000-10 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

* White Paper: Ti6Al4V with Anodization Type II: Biological Behavior and Biomechanical Effects; Axel Baumann, Nils Zander

Ordering Information

(OPTIONAL)CorticalScrew2.0Cannulated

Length	Variable thread
8	31202-8
9	31202-9
10	31202-10
11	31202-11
12	31202-12
13	31202-13
14	31202-14
15	31202-15
16	31202-16
17	31202-17
18	31202-18
19	31202-19
20	31202-20
22	31202-22
24	31202-24
26	31202-26
28	31202-28
30	31202-30

All implants are available sterile-packed optionally. Add „-S“ to the article number for sterile-packed implants (e.g. 37304-12-S; 21031-3-S). Delivery times, prices & minimum quantity vary from standard.

Cortical Screw 2.7 Cannulated

Length	Short thread	Variable thread
12	31272-12	31277-12
14	31272-14	31277-14
16	31272-16	31277-16
18	31272-18	31277-18
20	31272-20	31277-20
22	31272-22	31277-22
24	31272-24	31277-24
26	31272-26	31277-26
28	31272-28	31277-28
30	31272-30	31277-30

All implants are available sterile-packed optionally. Add „-S“ to the article number for sterile-packed implants (e.g. 37304-12-S; 21031-3-S). Delivery times, prices & minimum quantity vary from standard.

Cortical Screw 3.5 Cannulated

Length	Short thread	Variable thread
14	31352-14	31357-14
16	31352-16	31357-16
18	31352-18	31357-18
20	31352-20	31357-20
22	31352-22	31357-22
24	31352-24	31357-24
26	31352-26	31357-26
28	31352-28	31357-28
30	31352-30	31357-30
32	31352-32	31357-32
34	31352-34	31357-34
36	31352-36	31357-36
38	31352-38	31357-38
40	31352-40	31357-40
42	31352-42	31357-42
44	31352-44	31357-44
46	31352-46	31357-46
48	31352-48	31357-48
50	31352-50	31357-50
55	31352-55	31357-55
60	31352-60	31357-60
65	31352-65	31357-65
70	31352-70	31357-70

Cortical Screw 4.0 Cannulated

Length	9mm thread	Variable thread	Fully thread
16	31402-16	31404-16	-
18	31402-18	31404-18	-
20	31402-20	31404-20	-
22	31402-22	31404-22	-
24	31402-24	31404-24	-
26	31402-26	31404-26	-
28	31402-28	31404-28	-
30	31402-30	31404-30	-
32	31402-32	31404-32	-
34	31402-34	31404-34	-
35	-	-	31407-35
36	31402-36	31404-36	-
38	31402-38	31404-38	-
40	31402-40	31404-40	31407-40
42	31402-42	31404-42	-
44	31402-44	31404-44	-
45	-	-	31407-45
46	31402-46	31404-46	-
48	31402-48	31404-48	-
50	31402-50	31404-50	31407-50
55	31402-55	31404-55	31407-55
60	31402-60	31404-60	31407-60
65	31402-65	31404-65	-
70	31402-70	31404-70	-
75	-	31404-75	-
80	-	31404-80	-

Cancellous Screw 4.5 Cannulated

Length	Short thread	Variable thread
16	31452-16	31457-16
18	31452-18	31457-18
20	31452-20	31457-20
22	31452-22	31457-22
24	31452-24	31457-24
26	31452-26	31457-26
28	31452-28	31457-28
30	31452-30	31457-30
32	31452-32	31457-32
34	31452-34	31457-34
36	31452-36	31457-36
38	31452-38	31457-38
40	31452-40	31457-40
42	31452-42	31457-42
44	31452-44	31457-44
46	31452-46	31457-46
48	31452-48	31457-48
50	31452-50	31457-50
55	31452-55	31457-55
60	31452-60	31457-60
65	31452-65	31457-65
70	31452-70	31457-70

All implants are available sterile-packed optionally. Add „-S“ to the article number for sterile-packed implants (e.g. 37304-12-S; 21031-3-S). Delivery times, prices & minimum quantity vary from standard.

Cancellous Screw 6.5 Cannulated

Length	22mm thread
25	31652-25
30	31652-30
35	31652-35
40	31652-40
45	31652-45
50	31652-50
55	31652-55
60	31652-60
65	31652-65
70	31652-70
75	31652-75
80	31652-80
85	31652-85
90	31652-90
95	31652-95
100	31652-100
105	31652-105
110	31652-110
115	31652-115
120	31652-120

All implants are available sterile-packed optionally. Add „-S“ to the article number for sterile-packed implants (e.g. 37304-12-S; 21031-3-S). Delivery times, prices & minimum quantity vary from standard.

Cancellous Screw 7.3 Cannulated

Length	Fully thread	16mm thread	Variable thread
35	-	-	31734-35
40	-	31732-40	31734-40
45	-	31732-45	31734-45
50	31731-50	31732-50	31734-50
55	31731-55	31732-55	31734-55
60	31731-60	31732-60	31734-60
65	31731-65	31732-65	31734-65
70	31731-70	31732-70	31734-70
75	31731-75	31732-75	31734-75
80	31731-80	31732-80	31734-80
85	31731-85	31732-85	31734-85
90	31731-90	31732-90	31734-90
95	31731-95	31732-95	31734-95
100	31731-100	31732-100	31734-100
105	31731-105	31732-105	31734-105
110	31731-110	31732-110	31734-110
115	31731-115	31732-115	31734-115
120	31731-120	31732-120	31734-120

All implants are available sterile-packed optionally. Add „-S“ to the article number for sterile-packed implants (e.g. 37304-12-S; 21031-3-S). Delivery times, prices & minimum quantity vary from standard.

Cancellous Screw 8.5 Cannulated

Length	Fully thread	Variable thread
60	31851-60	31854-60
65	31851-65	31854-65
70	31851-70	31854-70
75	31851-75	31854-75
80	31851-80	31854-80
85	31851-85	31854-85
90	31851-90	31854-90
95	31851-95	31854-95
100	31851-100	31854-100
105	31851-105	31854-105
110	31851-110	31854-110
115	31851-115	31854-115
120	31851-120	31854-120
125	31851-125	31854-125
130	31851-130	31854-130
135	31851-135	31854-135
140	31851-140	31854-140
145	31851-145	31854-145
150	31851-150	31854-150
155	31851-155	31854-155
160	31851-160	31854-160
165	31851-165	31854-165
170	31851-170	31854-170
175	31851-175	31854-175
180	31851-180	31854-180
185	31851-185	31854-185
190	31851-190	31854-190
195	31851-195	31854-195
200	31851-200	31854-200

(OPTIONAL)

Length	Full threaded	Variable thread
205	31851-205	31854-205
210	31851-210	31854-210
215	31851-215	31854-215
220	31851-220	31854-220
225	31851-225	31854-225
230	31851-230	31854-230
235	31851-235	31854-235
240	31851-240	31854-240
245	31851-245	31854-245
250	31851-250	31854-250

All implants are available sterile-packed optionally. Add „-S“ to the article number for sterile-packed implants (e.g. 37304-12-S; 21031-3-S). Delivery times, prices & minimum quantity vary from standard.

Washer

	Description	Article Number
	Washer, Flat, OD=11.0mm, ID=4.5mm	36431
	Washer, Concave, OD=11mm, ID=4.5mm,PPS	36432
	Washer, Flat, OD=14.0mm, ID=7.0mm	36651
	Washer, Concave, OD=12.6mm, ID=7.0mm	36653
	Washer, Flat, OD=15.0mm, ID=7.5mm	36731
	Washer, Concave, OD=14.0mm, ID=7.5mm	36732
	Washer, OD=16/25mm, ID=9mm	36851

(OPTIONAL)

	Description	Article Number
	Washer, Flat, OD=7.0mm, ID=3.6mm	36351
	Washer, Flat, OD=7.0mm, ID=4.6mm	36352
	Washer, Flat, OD=12.0mm, ID=7.0mm	36652

All implants are available sterile-packed optionally. Add „-S“ to the article number for sterile-packed implants (e.g. 37304-12-S; 21031-3-S). Delivery times, prices & minimum quantity vary from standard.

Instruments

Guide Wire

35094-100

35124-228

35164-228

35324-228

35321-435

Description	Article Number
Guide Wire, Steel,D=0.9mm, L=100mm, TR, RD	35094-100
Guide Wire, Steel,D=1.2mm, L=228mm, TR, w. thread	35124-228
Guide Wire, Steel,D=1.6mm, L=228mm, TR, w. thread	35164-228
Guide Wire, Steel,D=3.2mm, L=228mm, TR, w. thread	35324-228
Guide Wire, Steel, D=3.2mm, L=435mm, TR, RD	35321-435

Depth Gauge - Guide Wire

59029

59034

Description	Article Number
Depth Gauge, for D=0.9mm Guide Wire	59029
Depth Gauge, for D=0.9mm Guide Wire, Long	59034

Depth Gauge

59162

59163

59321

59328

Description	Article Number
Depth Gauge 1.6mm Can. 4.0mm Screw, var. thread	59162
Depth Gauge 1.6mm Can. 4.0mm Screw, 9mm thread	59163
Depth Gauge 3.2mm Can. 6.5mm/7.3mm Screw	59321
Depth Gauge 3.2mm, Can. 8.5mm Screw	59328

Spiral Drill

6I152-I00

6I20I-I00

6I262-220

6I502-200

6I620-420

Description	Article Number
Spiral Drill, Cannulated, D=I.5mm/D=I.0mm	6I152-I00
Spiral Drill, Cannulated, D=2.0mm/I.3mm, L=I00mm, AO Connector	6I20I-I00
Spiral Drill, Cannulated, D=2.6mm, L=220mm, AO Connector	6I262-220
Spiral Drill, Cannulated, D=5.0mm, L=200mm	6I502-200
Spiral Drill, Cannulated, Large AO Connector, D=6.2mm, L=420mm	6I620-420

(Optional)

6I620-230

Description	Article Number
Spiral Drill, Cannulated, Large AO Connector, D=6.2mm, L=230mm	6I620-230

Screwdriver

56253-120 WS 2.5

56253-170 WS 2.5

56502 WS 5

56502-220 WS 5

Description	Article Number
Screwdriver, Handle 25mm, WS 2.5, L=120mm, Can. 1.7mm	56253-120
Screwdriver, Handle 25mm, WS 2.5, L=170mm, Can. 1.7mm	56253-170
Screwdriver WS 5.0, Cannulated	56502
Screwdriver, Cannulated, WS 5.0, L=220mm	56502-220

Hexagon-/Torque Shank

54097-80 T7

54098-80 T7

54100-100 WS 2.5

54502-120 WS 5

54502-150 WS 5

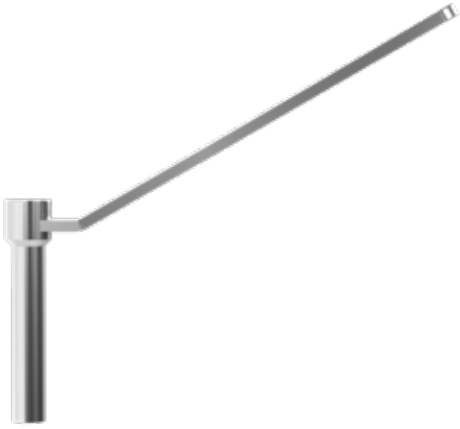
54502-250 WS 5

Description	Article Number
Torque Shank, T7x80, AO Connector	54097-80
Torque Shank, T7x80, Cannulated, AO Connector	54098-80
Hexagon Shank, WS 2.5, L=100mm Cannulated, AO Connector	54100-100
Hexagon Shank, Cannulated, WS 5, L=120mm	54502-120
Hexagon Shank, Cannulated, WS 5, L=150mm	54502-150
Hexagon Shank, Cannulated, Large AO Connector, WS 5, L=250mm	54502-250

Drill Guide / Tissue Protection Sleeve

57041

62300



62301

62209

62213

62210

62214

62212

Description	Artivle Number
Trochar, w. Sleeve	57041
Tissue Protection Sleeve, Can. 4.0mm Screw, 9mm Thread	62300
Tissue Protection Sleeve	62301
Drill Guide, D=1.3mm	62209
Drill Guide, D=1.7mm	62210
Drill Guide, D=2.9mm	62212
Drill Guide, D=3.1mm	62213
Drill Guide, D=3.6mm	62214

62304-1

62304-2

62304-3

64018

64018-2

Description	Article Number
Parallel Drill Guide, 6.5/7.3/8.5mm Cann. Screws	62304-1
K-Wire Sleeve, Parallel Drill Guide, 6.5/7.3/8.5mm Cann. Screws	62304-2
Fixation Nut, K-Wire Sleeve, Parallel Drill Guide, 6.5/7.3/8.5mm Cann. Screws	62304-3
Tissue Protection Sleeve, Cannulated Cancellous Screw D=8.5mm	64018
K-Wire Sleeve, D=3.3mm, Tissue Protection Sleeve, Cannulated Cancellous Screw D=8.5mm	64018-2

Notes

Notes

Disclaimer:

The intended users are limited to medical personnel with appropriate product training by the medical product consultants or knowledge of the surgical procedure to be applied. The medical staff must ensure that the use of I.T.S. GmbH medical devices is appropriate, taking into account the medical condition and medical history of the patient. Prior to product use, medical personnel must refer to complete information on product label and in IFU, including, but not limited to, indications, contraindications, warnings and preventative measures, and cleaning and sterilization instructions. Product availability is dependent on country registrations and clearances. For more information, please visit www.its-implant.com or contact us at office@its-implant.com. Unless otherwise noted, all information herein is the intellectual property of I.T.S. GmbH.

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