

INCLUDING

SURGICAL  
TECHNIQUE

# PANDA

## HAND PLATING SYSTEM

Made in Germany

English

AGO  MED



## INNOVATIVE MEDICAL TECHNOLOGY

EN

Working with AGOMED means working with a company committed to excellence. Our products are German engineered, biocompatible, and cutting-edge. Our team members collectively bring decades of medical technology experience to the table.

**We're reliable. We're flexible.  
We're inventive.**

AGOMED collaborates with distributors, hospitals, and doctors worldwide to create and develop exacting, state-of-the-art solutions for complex surgical problems. We work closely with specialists to insure that our implant systems for Traumatology/Orthopaedics of upper and lower extremities improve the patient's quality of life. Patient safety is always our number one priority.

DE

Mit AGOMED zu arbeiten, bedeutet mit einem Unternehmen zu arbeiten, das sich zur Exzellenz und Hochleistung verpflichtet. Unsere Produkte werden von deutschen Ingenieuren entwickelt, sind biokompatibel, innovativ und auf dem neuesten Stand der Technik. Unser Team hat jahrzehntelange Erfahrung im Bereich der Medizintechnik.

**Wir sind zuverlässig. Wir sind flexibel.  
Wir sind innovativ.**

AGOMED arbeitet weltweit mit Unternehmen, Krankenhäusern und Ärzten zusammen, um anspruchsvolle, hochmoderne Lösungen für komplexe chirurgische Probleme zu entwickeln. Wir arbeiten eng mit Spezialisten zusammen, um sicherzustellen, dass unsere Implantat-Systeme für Traumatologie/Orthopädie der oberen und unteren Extremitäten die Lebensqualität der Patienten verbessern. Die Sicherheit der Patienten steht bei uns immer an erster Stelle.

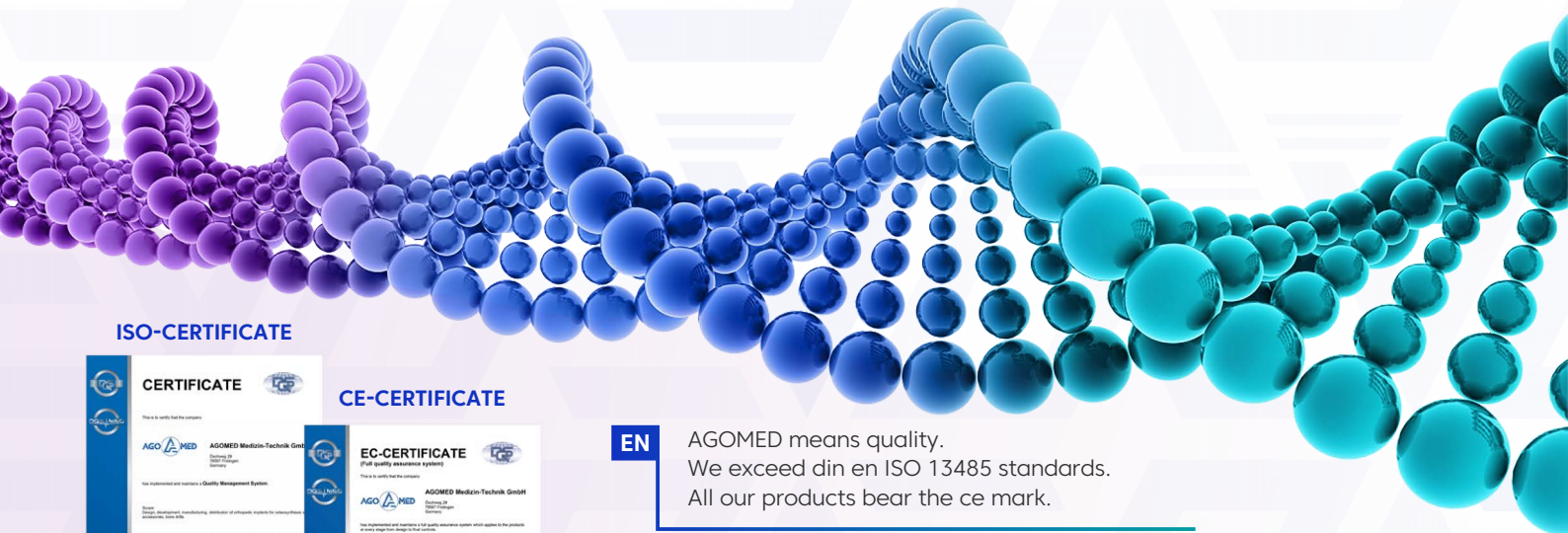
ES

Trabajar con AGOMED significa trabajar con una empresa comprometida con la excelencia. Nuestros productos son diseñados en Alemania, biocompatibles y de vanguardia. Los miembros de nuestro equipo aportan, de manera colectiva, décadas de experiencia en tecnología médica.

**Somos fiables. Somos flexibles.  
Somos innovadores.**

AGOMED colabora con distribuidores, hospitales y doctores a nivel mundial con el objetivo de desarrollar soluciones rigurosas para problemas quirúrgicos complejos con tecnología punta. Cooperamos estrechamente con especialistas para garantizar que nuestros sistemas de implantes e instrumentos para Traumatología/Ortopedia de las extremidades superiores e inferiores mejoren la calidad de vida de los pacientes. La seguridad de los pacientes siempre es nuestra prioridad.

# QUALITY IS PART OF OUR DNA



### ISO-CERTIFICATE



### CE-CERTIFICATE



EN

AGOMED means quality.  
We exceed din en ISO 13485 standards.  
All our products bear the ce mark.

DE

AGOMED bedeutet qualität.  
Wir sind zertifiziert nach din en ISO 13485.  
Alle unsere produkte tragen das ce zeichen.

ES

AGOMED es sinónimo de calidad.  
Superamos los estándares din en ISO 13485.  
Todos los productos llevan el signo ce.

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More information about other AGOMED products **Page 63**



## PANDA PLATING SYSTEM

### Available 2 profile thicknesses

- With color codification  
for easy identification.



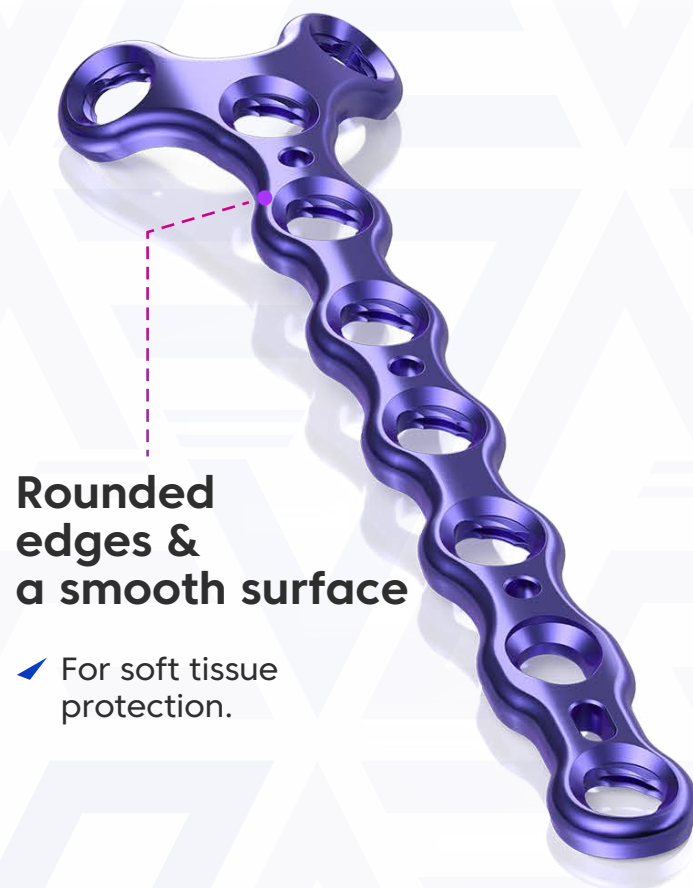


## PLATE FEATURES



### Available in different lengths

- Does not require plates to be shortened.
- Smooth edges.



### Rounded edges & a smooth surface

- For soft tissue protection.



### Available in a flexible choice of screw type

- Standard screws and locking screws fit all plate holes.

1.5 mm

2.0 mm

2.3 mm

## The new Panda hand system includes a wide selection of plates

- To accommodate the variety of hand fractures encountered during routine surgeries.



### Atraumatic, rounded contour

- Best possible embedding in soft tissue.

### Anatomical pre-shaped design

- Precise anatomical plate fit requires fewer intraoperative adjustments.
- Increased rigidity and strength from a less bendable structure.

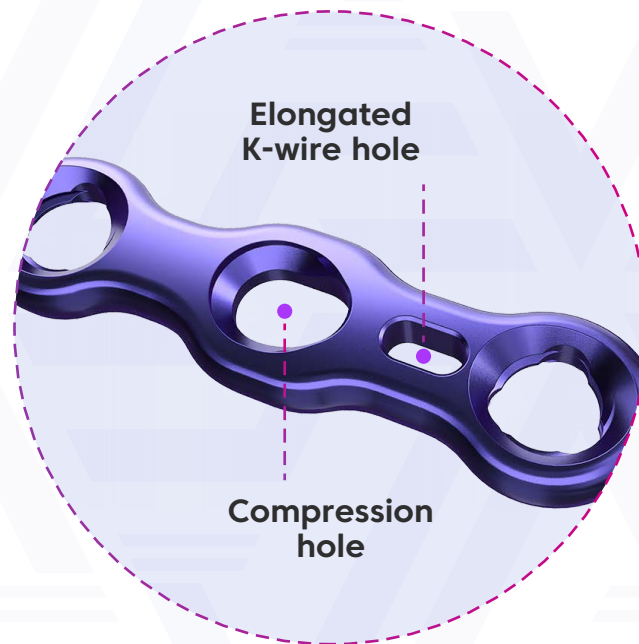




## ADVANTAGES OF THE SCREWS

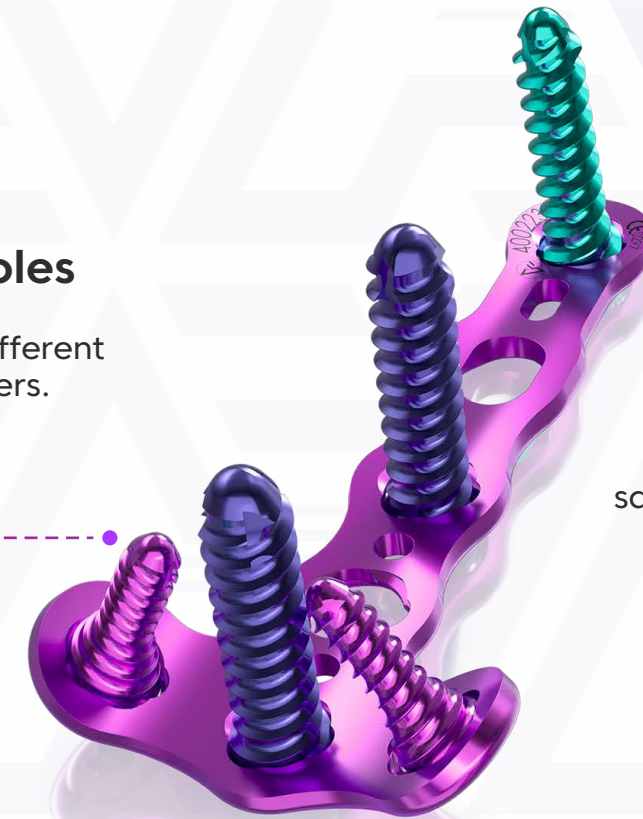
### Universal plate hole shapes

- Plates include an elongated K-wire hole and a compression hole.
- Secure closure of the fracture.



### Universal holes

- Allow using different screw diameters.



### Multiple combinations

- All standard and multidirectional locking screws with the different thread diameter due to the same diameter of the head can be used for all holes.



### Oval holes

- In some plates to allow longitudinal compression.

Multiple options allow an individual and best possible fracture treatment

### Color-coded identifiers

- Standard and multidirectional locking screws are distinguished through.



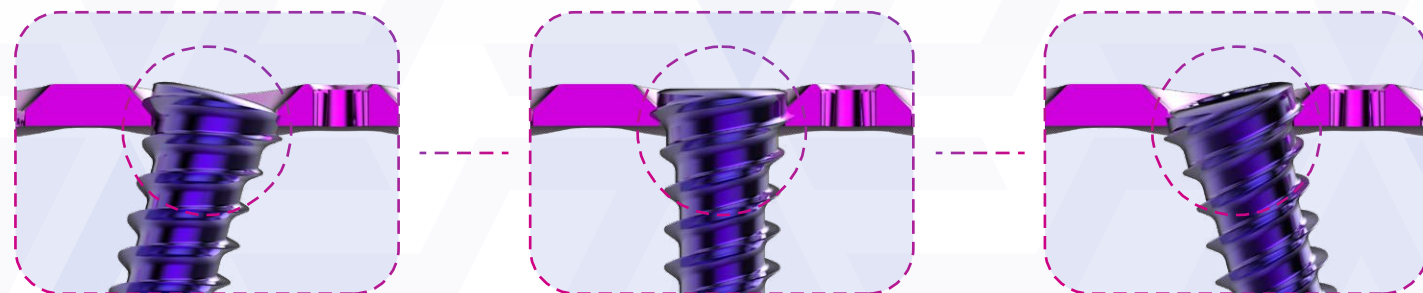
## Completely countersunk screw heads

### Atraumatic screw tip

- Offers soft tissue protection when inserting screws bicortically.

### Minimal screw head protrusion

- Thanks to internal locking contour.

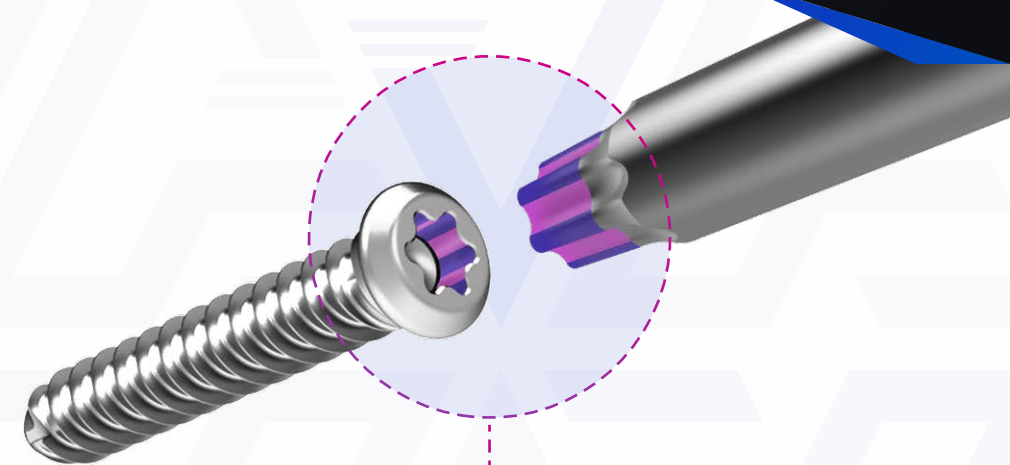


Soft tissue protection due to smooth screw head design. ✓

Screws can be relocked in the same screw hole at individual angles up to three times. ✓

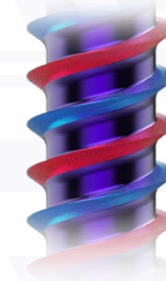
## Screw heads fit the same screwdriver

- One instrument for different screws.



### 2x faster insertion

- With double lead threads.



### Multidirectional angular stability $\pm 15^\circ$



### Rounded, low-profile screw heads

- An absence of screw head prominence provides less chance of soft tissue irritation even for maximum locking screw angulation.

### Perfect selfretaining function

- Easy pick-up, insertion, tightening and removal of screws.
- Screws can be unlocked then relocated and locked to another position if needed.





# ORDERING INFORMATION

Titanium plates  
0.8 mm



Straight

0.8 mm



4002056

4 holes



4002057

5 holes  
w/compression  
hole



4002058

6 holes  
w/compression  
hole



4002391

7 holes  
w/compression  
hole



4002390

16 holes  
w/compression  
hole

Hook

0.8 mm



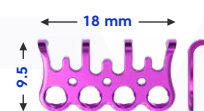
4002438

1 hole



4002495

2 holes



4002436

2x2 holes



Form

0.8 mm



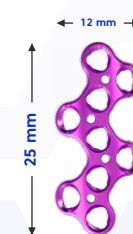
4002165

6 holes, right,  
w/compression  
hole



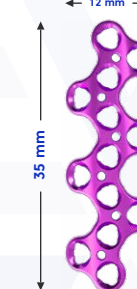
4002166

6 holes, left,  
w/compression  
hole



4002437

9 holes



4002468

13 holes

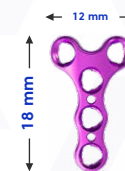
Frog

0.8 mm



4002168

6 holes,  
w/compression  
hole



4002123

5 holes



4002171

6 holes,  
w/compression  
hole



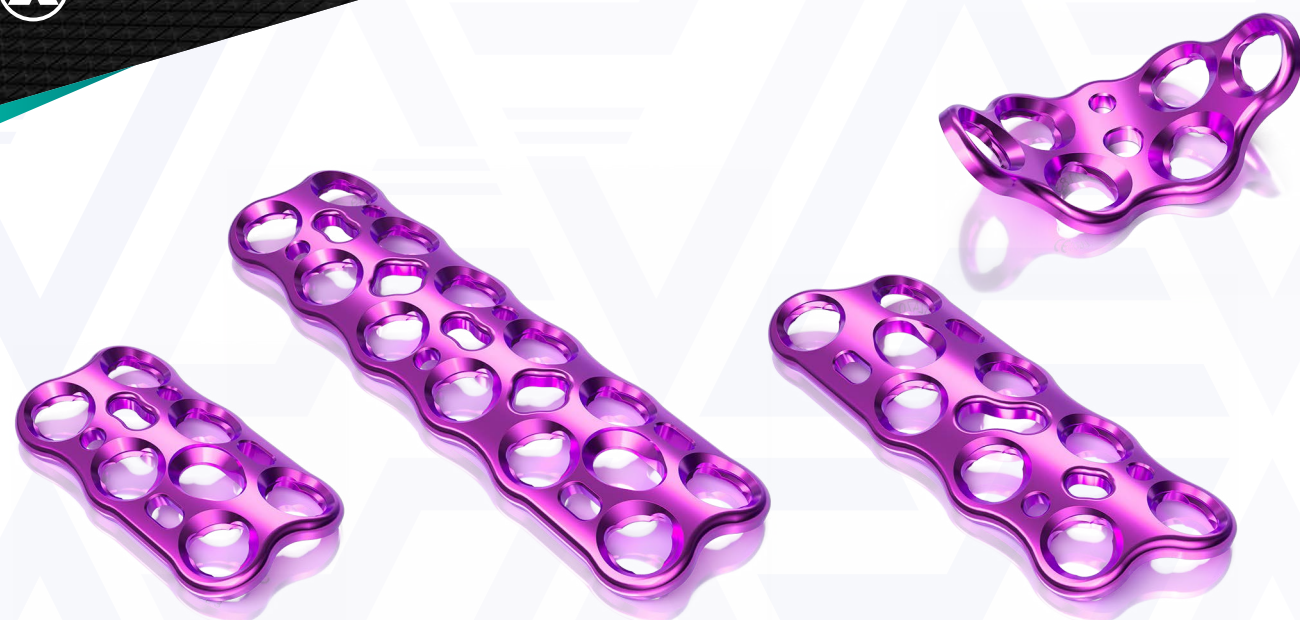
4002233

7 holes,  
w/compression  
hole

Form

0.8 mm





Form  0.8 mm

Form  0.8 mm

										
<b>4002435</b> 2x2 holes	<b>4002453</b> 3x2 holes w/compression hole	<b>4002467</b> 4x2 holes w/compression hole	<b>4002454</b> 5x2 holes w/compression hole	<b>4002469</b> 6x2 holes w/compression hole	<b>4002120</b> 2/3 holes	<b>4002169</b> 2/4 holes w/compression hole	<b>4002167</b> 2/5 holes w/compression hole	<b>4002170</b> 3/3 holes	<b>4002232</b> 3/4 holes w/compression hole	<b>4002381</b> 3/5 holes w/compression hole
										
<b>4002183</b> 2x2+2 holes	<b>4002297</b> 4x2 holes	<b>4002470</b> 4x2 holes replantation w/compression hole					<b>4002121</b> 5 holes, 110°, right, w/compression hole	<b>4002122</b> 5 holes, 110°, left, w/compression hole	<b>4002191</b> 9 holes	



Titanium plates  
1.2 mm



Form 1.2 mm

Straight 1.2 mm



**4002059**  
4 holes



**4002125**  
5 holes  
w/compression  
hole



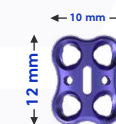
**4002179**  
6 holes  
w/compression  
hole



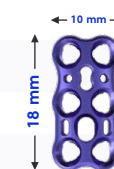
**4002243**  
7 holes  
w/compression  
hole



**4002288**  
8 holes  
w/compression  
hole



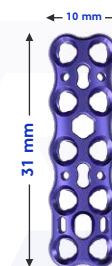
**4002439**  
2x2 holes



**4002455**  
3x2 holes  
w/compression  
hole



**4002471**  
4x2 holes  
w/compression  
hole



**4002174**  
5x2 holes  
w/compression  
hole



**4002175**  
6x2 holes  
w/compression  
hole



**4002493**  
7x2 holes  
w/compression  
hole

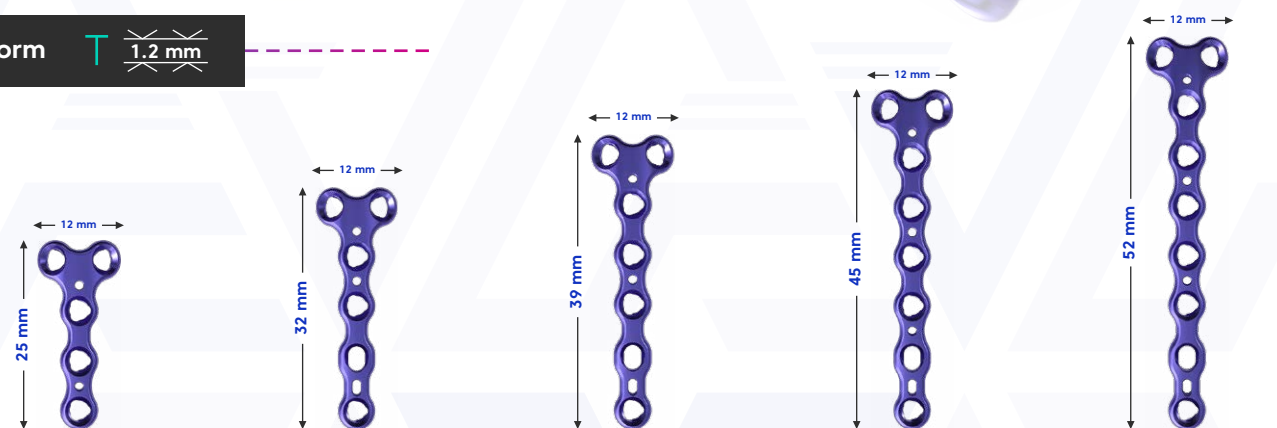


**4002494**  
8x2 holes  
w/compression  
hole





Form T 1.2 mm



4002176

2/3 holes

4002184

2/4 holes  
w/compression  
hole

4002190

2/5 holes  
w/compression  
hole

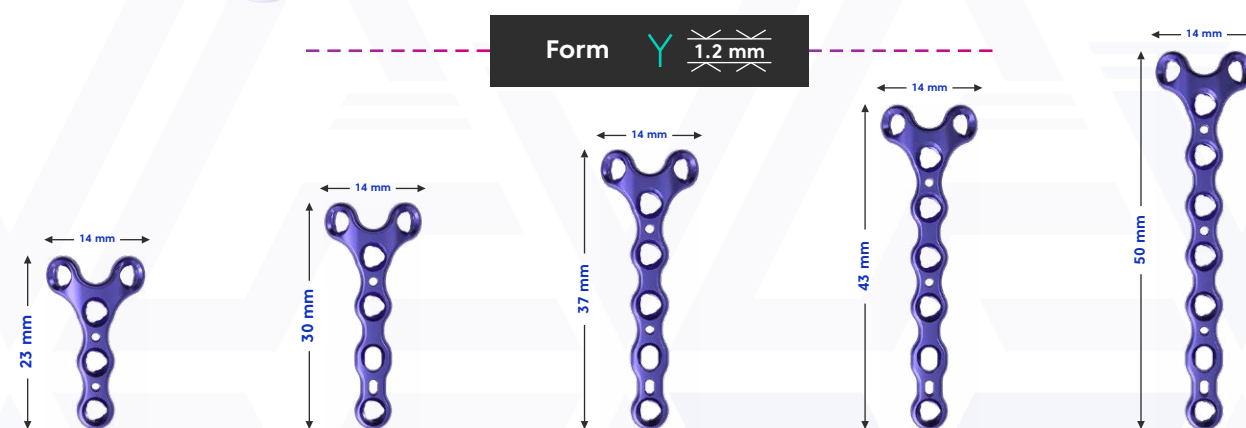
4002177

2/6 holes  
w/compression  
hole

4002496

2/7 holes  
w/compression  
hole

Form Y 1.2 mm



4002235

5 holes

4002237

6 holes  
w/compression  
hole

4002180

7 holes  
w/compression  
hole

4002181

8 holes  
w/compression  
hole

4002192

9 holes  
w/compression  
hole

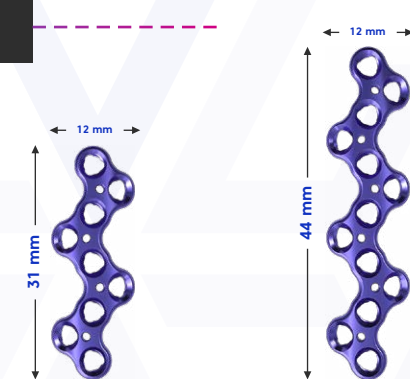
Frog 1.2 mm



4002187

6 holes  
w/compression  
hole

Form Z 1.2 mm

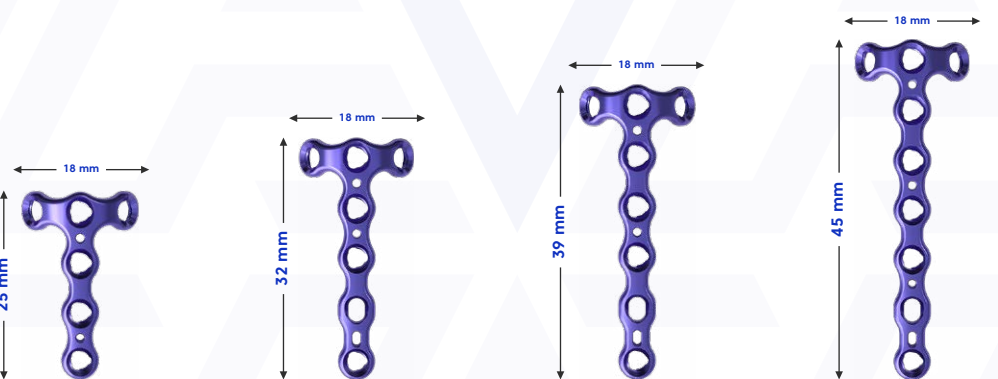


4002440

9 holes

4002472

13 holes



4002234

3/3 holes

4002236

3/4 holes  
w/compression  
hole

4002185

3/5 holes  
w/compression  
hole

4002186

3/6 holes  
w/compression  
hole



## FUSION PLATES

### Indications

- For fusion of scaphoid, trapezium and trapezoid (STT).
- For fusion of capitate, hamate, triquetrum and lunate.

Form  1.2 mm



**4002188**

6 holes, right,  
w/compression  
hole



**4002189**

6 holes, left,  
w/compression  
hole



**4002172**

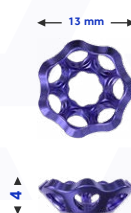
7 holes, right,  
w/compression  
hole



**4002173**

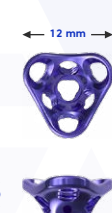
7 holes, left,  
w/compression  
hole

Gentian  1.2 mm



**4002061**

7 holes,  
round



**4002247**

6 holes,  
triangular

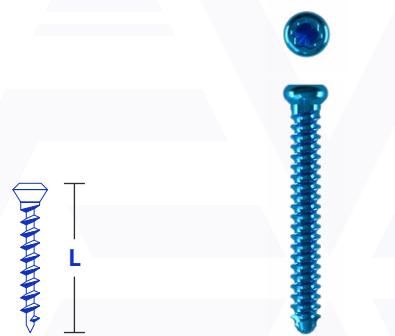


**4002246**

8 holes,  
square

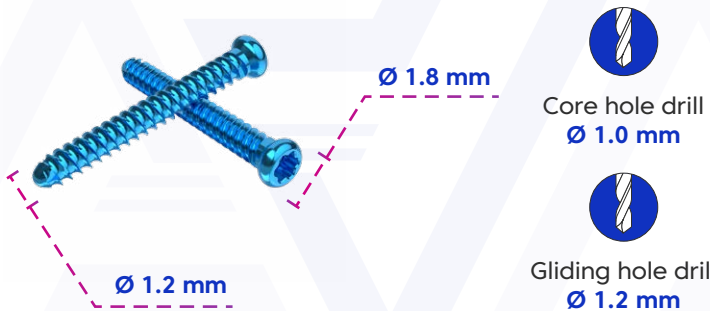


Titanium screws  
1.2 mm

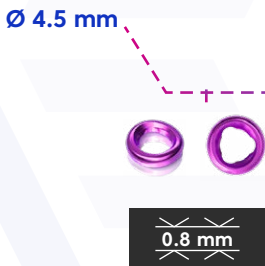


Length  
Self-tapping,  
Standard, TX 5

L	Ø 1.2 mm	Pack
4 mm	5020104	5
5 mm	5020105	5
6 mm	5020106	5
7 mm	5020107	5
8 mm	5020108	5
9 mm	5020109	5
10 mm	5020110	5
11 mm	5020111	5
12 mm	5020112	5
13 mm	5020113	5
14 mm	5020114	5



Core hole drill  
Ø 1.0 mm  
Gliding hole drill  
Ø 1.2 mm



4002062  
Titanium washer  
for 2.0 / 2.3 mm  
screws, pack/5



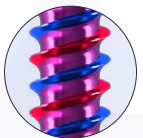
4002060  
Titanium washer  
for 2.0 / 2.3 mm  
screws, pack/5

Titanium screws  
1.5 mm

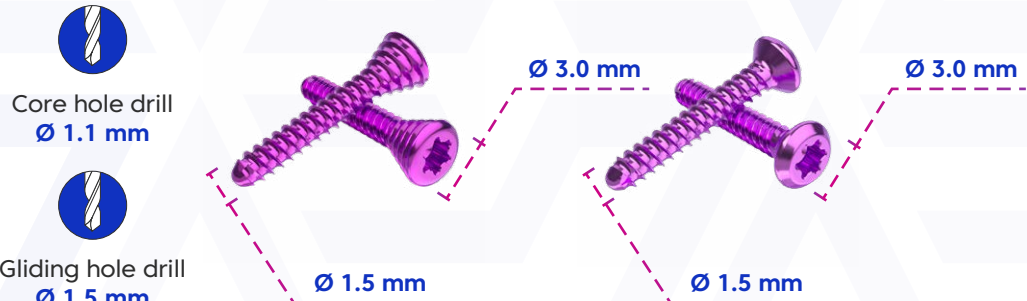


Length  
Multidirectional,  
Locking, TX 6  
Self-tapping,  
Standard, TX 6

L	Ø 1.5 mm	Ø 1.5 mm	Pack
4 mm	5015104	5015004	5
5 mm	5015105	5015005	5
6 mm	5015106	5015006	5
7 mm	5015107	5015007	5
8 mm	5015108	5015008	5
9 mm	5015109	5015009	5
10 mm	5015110	5015010	5
11 mm	5015111	5015011	5
12 mm	5015112	5015012	5
13 mm	5015113	5015013	5
14 mm	5015114	5015014	5
15 mm	5015115	5015015	5
16 mm	5015116	5015016	5
17 mm	5015117	5015017	5
18 mm	5015118	5015018	5
19 mm	5015119	5015019	5
20 mm	5015120	5015020	5
21 mm	5015121	5015021	5
22 mm	5015122	5015022	5
23 mm	5015123	5015023	5
24 mm	5015124	5015024	5



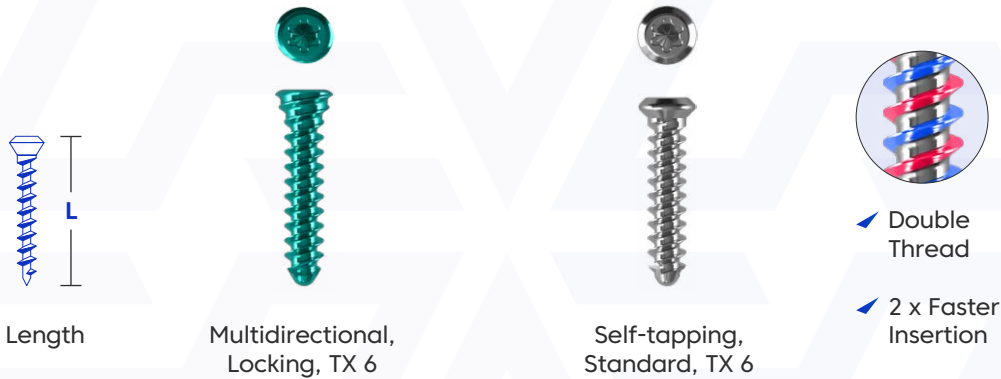
Double  
Thread  
2 x Faster  
Insertion



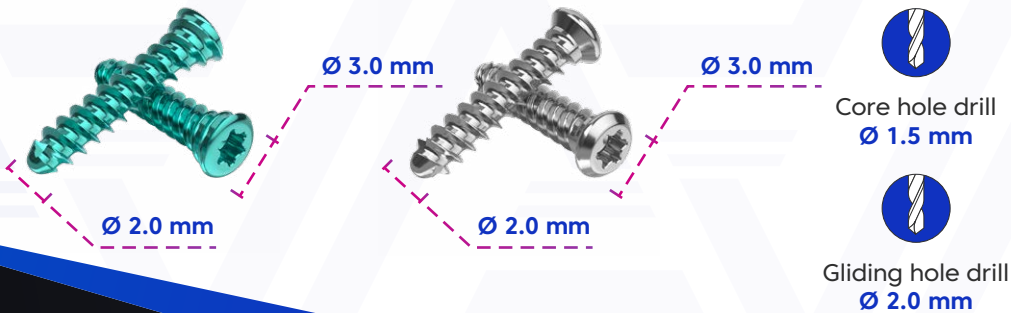
Core hole drill  
Ø 1.1 mm  
Gliding hole drill  
Ø 1.5 mm



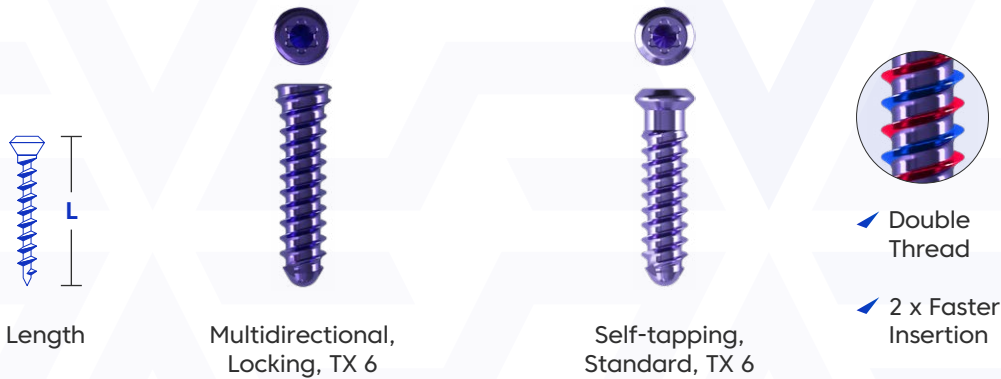
Titanium screws  
2.0 mm



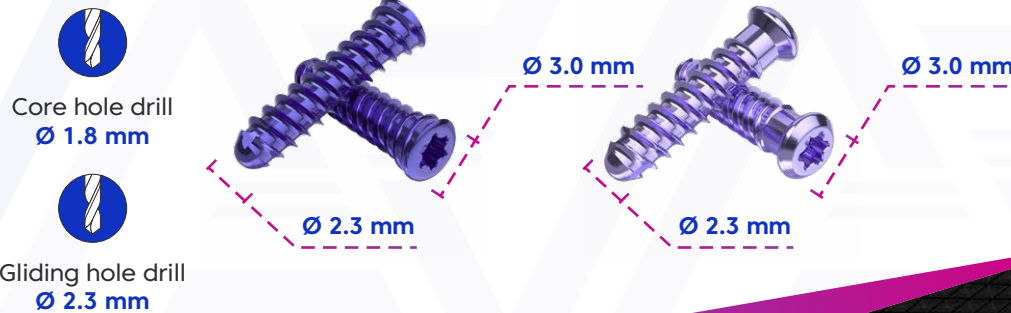
L	Ø 2.0 mm	Ø 2.0 mm	Pack
5 mm	5016105	5016005	5
6 mm	5016106	5016006	5
7 mm	5016107	5016007	5
8 mm	5016108	5016008	5
9 mm	5016109	5016009	5
10 mm	5016110	5016010	5
11 mm	5016111	5016011	5
12 mm	5016112	5016012	5
13 mm	5016113	5016013	5
14 mm	5016114	5016014	5
15 mm	5016115	5016015	5
16 mm	5016116	5016016	5
17 mm	5016117	5016017	5
18 mm	5016118	5016018	5
19 mm	5016119	5016019	5
20 mm	5016120	5016020	5
21 mm	5016121	5016021	5
22 mm	5016122	5016022	5
23 mm	5016123	5016023	5
24 mm	5016124	5016024	5
25 mm	5016125	5016025	5
26 mm	5016126	5016026	5
27 mm	5016127	5016027	5
28 mm	5016128	5016028	5
29 mm	5016129	5016029	5
30 mm	5016130	5016030	5



Titanium screws  
2.3 mm



L	Ø 2.3 mm	Ø 2.3 mm	Pack
5 mm	5031105	5031005	5
6 mm	5031106	5031006	5
7 mm	5031107	5031007	5
8 mm	5031108	5031008	5
9 mm	5031109	5031009	5
10 mm	5031110	5031010	5
11 mm	5031111	5031011	5
12 mm	5031112	5031012	5
13 mm	5031113	5031013	5
14 mm	5031114	5031014	5
15 mm	5031115	5031015	5
16 mm	5031116	5031016	5
17 mm	5031117	5031017	5
18 mm	5031118	5031018	5
19 mm	5031119	5031019	5
20 mm	5031120	5031020	5
21 mm	5031121	5031021	5
22 mm	5031122	5031022	5
23 mm	5031123	5031023	5
24 mm	5031124	5031024	5
25 mm	5031125	5031025	5
26 mm	5031126	5031026	5
27 mm	5031127	5031027	5
28 mm	5031128	5031028	5
29 mm	5031129	5031029	5
30 mm	5031130	5031030	5





## SURGICAL TECHNIQUES

## Surgical technique transverse fracture of the metacarpal bone

### Indications

**Treatment of fractures and reconstructive procedures on small bones and bone fragments, for arthrodeses of small joints, especially for:**

- ✓ Avulsion fractures.
- ✓ Shaft, comminuted and luxation fractures.
- ✓ Transverse, oblique and spiral fractures and fractures near joints with and without joint involvement.
- ✓ Arthrodeses and reconstructive procedures of the distal, middle and proximal phalanges as well as the metacarpals.
- ✓ DIP, PIP and Carpal Arthrodesis.

### Contraindications

- ✓ Inadequate bone quantity.
- ✓ Patients with active infections.
- ✓ Patients with metal allergies and foreign body sensitivity.
- ✓ Patients with limited blood supply.
- ✓ Severely non-compliant patients with mental or neurological conditions who are unwilling or incapable of following postoperative care instructions.
- ✓ Patients with unstable physical and/or mental health conditions.

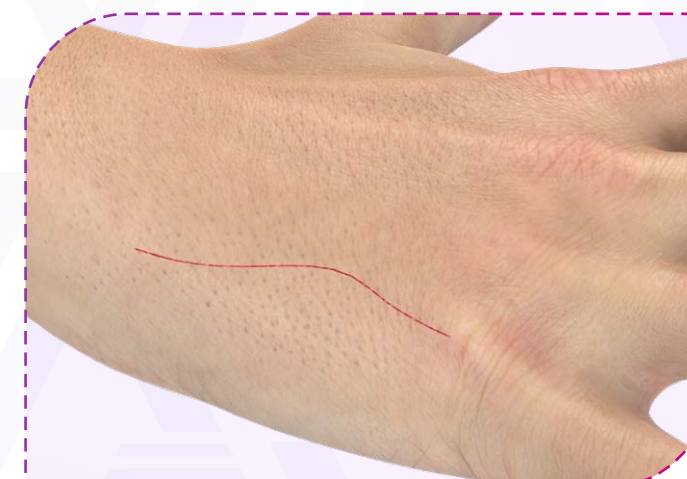


### Preoperative planning

- ✓ In addition to making standard exposures of the metacarpus with an A/P, strictly lateral and possibly also oblique beam, in the case of intra-articular fractures a high-resolution computed tomography scan is recommended for further clarification.

### Patient positioning

- ✓ The patient is placed in the supine position on the operating table. The hand to be operated on is placed in the pronation position of the lower arm on the hand side table.



### Step 1

- ✓ **Dorsal approach.**  
Opening is performed by making a dorsal, slightly curved incision above the relevant metacarpal bone.
- ✓ **Exposure of the fracture.**  
The skin incision is followed by blunt dissection of the subcutaneous tissue, protecting the dorsal veins of the hand and sensitive nerve branches.
- ✓ The extensor tendons are mobilized and retracted together with the loosely connected soft tissue, preferably without transecting the tendinous junction.
- ✓ In the next step the periosteum on the metacarpal is incised longitudinally and the dorsal interosseous muscles are partially released with the periosteum.

**Note:**  
Complete release of the muscles and injury of the palmar structures must be prevented.



## Step 2

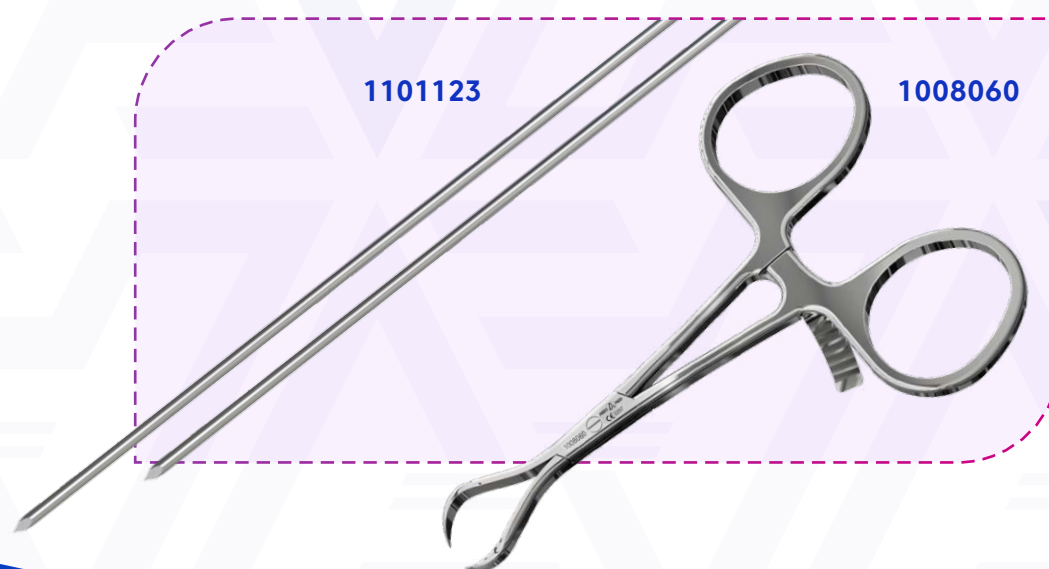


- **Reduction of the fracture.**  
For manual reduction there are various techniques available.
- It can be performed with maximum flexion of the MCP and PIP joints by applying slight thumb pressure to the middle phalanx and simultaneously applying counter pressure to the metacarpal with the other fingers.
- When all the fingers close to the MCP joint are flexed, rotational alignment is achieved.
- Optionally, if there is substantial instability, K-wires can be used for temporary fixation of the reduction.

## Step 3



- **Selection and placement of the osteosynthesis plate.**  
By way of example, treatment in the present indication is performed using a grid plate with a profile thickness of 1.2 mm. Since the grid plate has two rows, rotational stability can be increased, even if standard screws are used. However, the osteosynthesis plate is always selected according to the course of the fracture and the patient's anatomy.
- If necessary, the osteosynthesis plate is adapted to the anatomical situation using the two plate bending forceps (1005649).



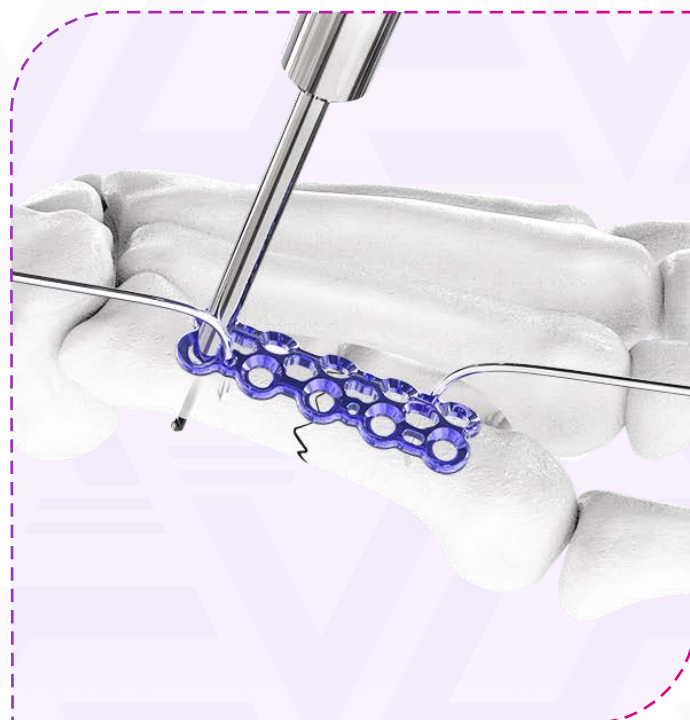
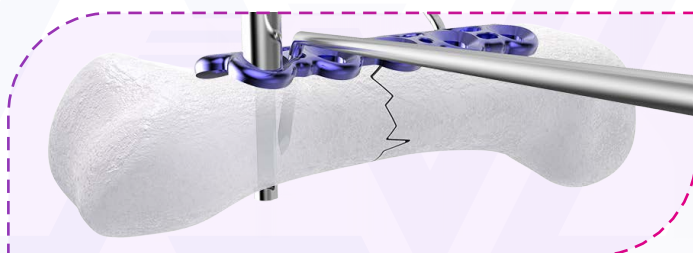
## Plates fixation

- In addition to the manual reduction of the fracture by the surgeon, either the small reduction forceps 1008060 integrated into the Panda system can be used for spiral fractures or oblique fractures.
- The plate can be temporarily fixated with plate holding forceps and/or alternately with K-wires (1101123). Special K-wire slots are provided for this purpose. If fixation is performed with K-wires, it is advisable to first introduce a K-wire to the circular hole close to the joint and then introduce another K-wire to the elongated K-wire hole, at the side distant from the fracture.



## Step 4

- **Determination of screw length.**  
Correct screw length is determined with depth gauge (1006032).



## Step 5

- **Placement of the first screw.**  
After precise reduction of the fracture the plate is fixated with a standard screw. For this purpose the screw is picked up and driven in with the color-coded screwdriver 1001013, which is used for diameters 1.5 mm, 2.0 mm and 2.3 mm.

Screwdriver blade 1001013 for diameters 1.5 mm / 2.0 mm y 2.3 mm.

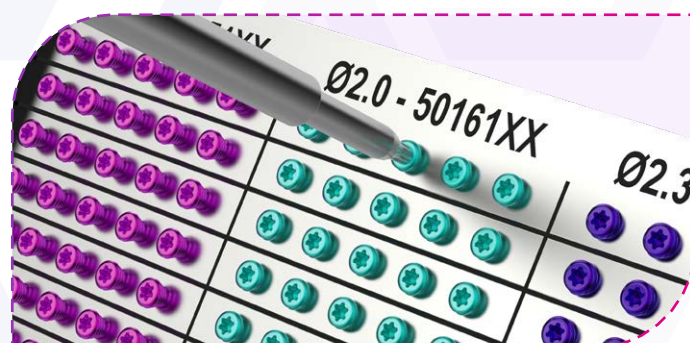


Screwdriver blade 1001045 for diameters 1.2 mm.

## Determination of screw length

**Note:**  
The depth gauge caliper has a hooked tip that is either inserted to the bottom of the hole or is used to catch the far cortex of the bone.

- To remove the screws from the implant container, insert the appropriate screwdriver perpendicularly into the screw head of the desired screw.
- Vertically extract the screw from the compartment.
- Check the screw length at the scale of the measuring module.



- Now more screws are placed by means of the technique described in steps 4-5. Optionally, multidirectional locking screws can be used to increase stability.
- At this point, it is advisable to conduct a clinical assessment of correct rotation and make an X-ray to check the position of the implants.



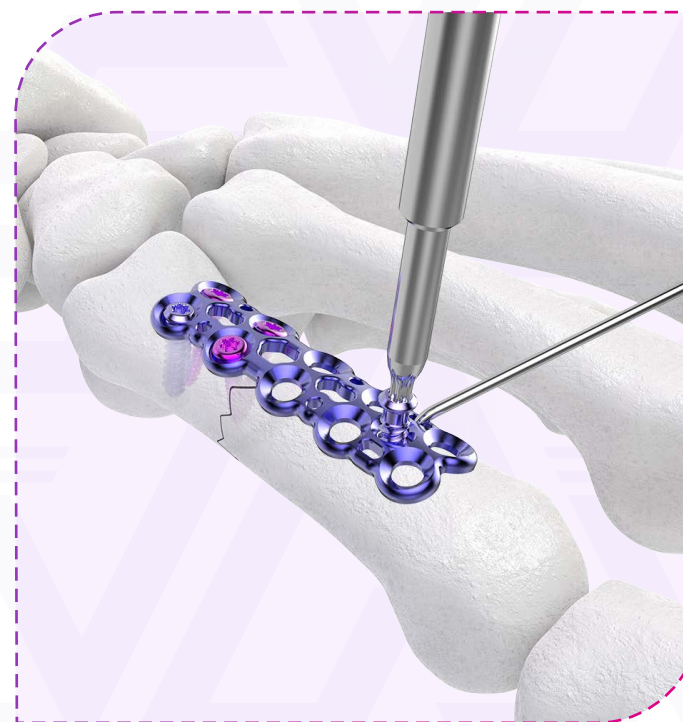
## Step 6

- **Placement of the compression screw.**  
If compression plate osteosynthesis is planned, after successful introduction of the first screws the compression screw is now introduced to the compression hole in order to securely close the fracture gap. Standard screws with diameters 1.5 mm, 2.0 mm and 2.3 mm can be used.

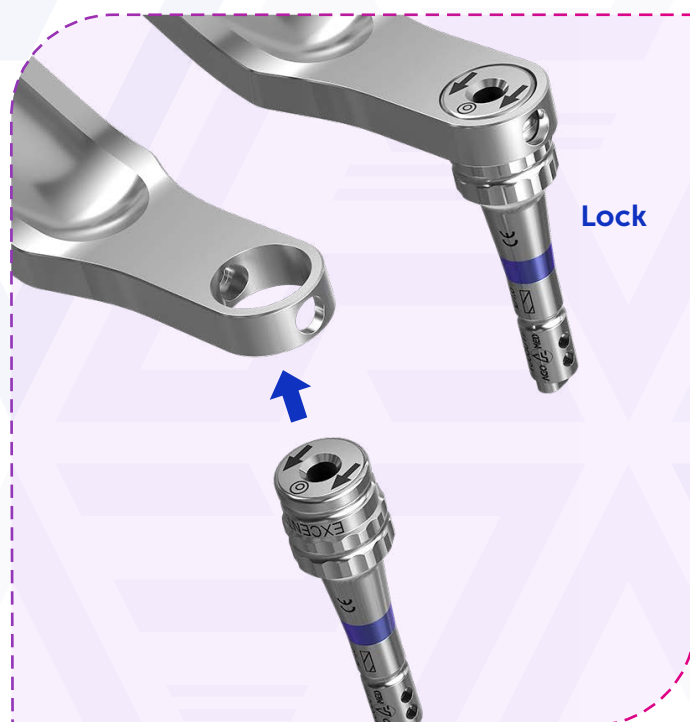


## Step 7

- **Closing the fracture gap.**  
When it is being driven in, the standard screw glides over the sloping surface integrated into the compression hole, toward the fracture gap, and closes it.
- To ensure that gliding takes place, the K-wire hole in the plate is also elongated so it allows the placed K-wire to also migrate when the fracture gap is being closed.



- For this purpose the compression drill sleeve is clicked into the open working end of the handle. The arrows on the compression drill sleeve point toward the fracture gap when drilling. By analogy with the first screws, the core hole is drilled and the length of the screw is determined.



**Note:**  
In the compression hole only standard screws are used.



## Step 8



- **Placement of further screws.**  
To achieve adequate early functional stability more distal plate holes are filled with screws. The procedure for this is described in steps 4 to 5.
- The number of screws and the selection of screw diameter and type depend on the specific anatomy of the patient and the required stability.

## Step 9



- **Wound closure.**  
The flat implant design usually permits closure of the periosteum above the implants in order to prevent tendon adhesions.
- That is followed by skin suture.

## Step 10



- **Postoperative treatment.**  
After surgery, a detachable splint surrounding the metacarpus should be applied to protect the wound and the osteosynthesis, without including the fingers or inhibiting the metacarpophalan-geal joints.
- If patients with stable internal fixation are cooperative, the splint can be removed when swelling has subsided, otherwise 4-6 weeks after osteosynthesis. At night the splint can be worn for a lengthy period if it helps to increase patient comfort.
- Patients should begin exercises themselves directly after surgery in order to achieve free mobility of all the fingers, and especially the basal joints. If problems arise, hand therapy should be initiated at an early stage.
- The stitches can be taken out 10 to 14 days after surgery.
- A confirmation X-ray is made 6 weeks after internal fixation.



## Surgical technique oblique fracture of the proximal phalanx

### Preoperative planning

- First of all, standard X-rays are taken in the A/P and lateral planes, with the hand in neutral position. In the case of intraarticular fractures a high-resolution computed tomography scan is recommended for further clarification.



### Patient positioning

- The patient is placed in the supine position on the operating table. The hand to be operated on is placed in the pronation position of the lower arm on the extension table.

### Step 1

- Approach.**  
With simple types of fracture the lateral approach is recommended, with mobilization of the oblique portion, extensor aponeurosis, and lateral placement of the osteosynthesis implants.
- In the case of complex fractures or comminuted fracture zones the opening is made by a dorsal, slightly curved incision, starting at the level of the MCP joint, up to the PIP joint.
- Exposure of the fracture.**  
The skin incision is followed by blunt spreading of the subcutaneous tissue, with protection and local coagulation of the veins. When the extensor hood has been exposed, it is subjected to a median longitudinal incision.
- That is followed by subperiosteal exposure of the fractured proximal phalanx.

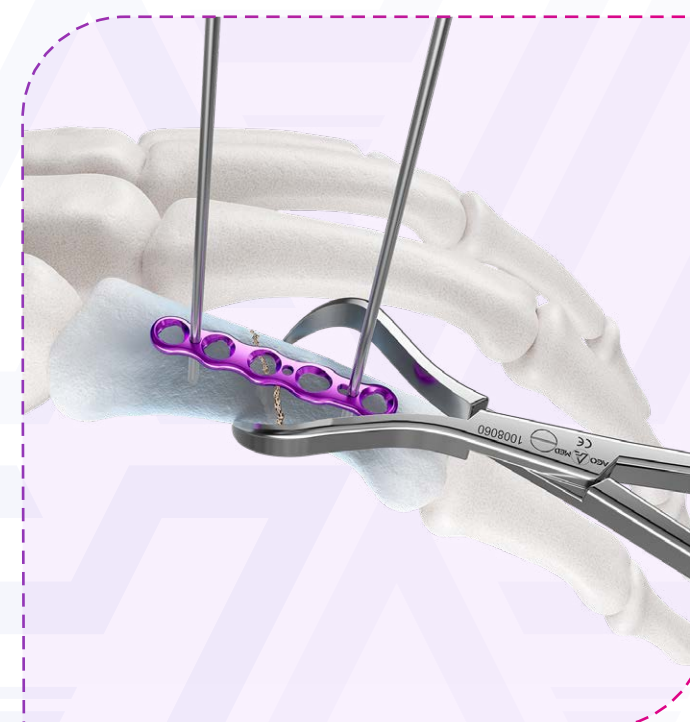
### Step 2



#### Reduction of the fracture.

In addition to manual reduction of the fracture by the surgeon, either the reduction forceps **1008060** integrated into the Panda System can be used.

### Step 3



#### Selection and placement of the osteosynthesis plate.

By way of example, treatment in the present indication is performed using a straight plate with a profile thickness of 0.8 mm. The osteosynthesis plate is always selected according to the course of the fracture and the patient's anatomy.

- The plate can be temporarily fixated with K-wires. Special K-wire holes are provided for this purpose. Alternatively, the reduction forceps **1008060** can also be used.

#### Note:

If necessary, the osteosynthesis plate is adapted to the anatomical situation using the two plate bending forceps (**1005649**).

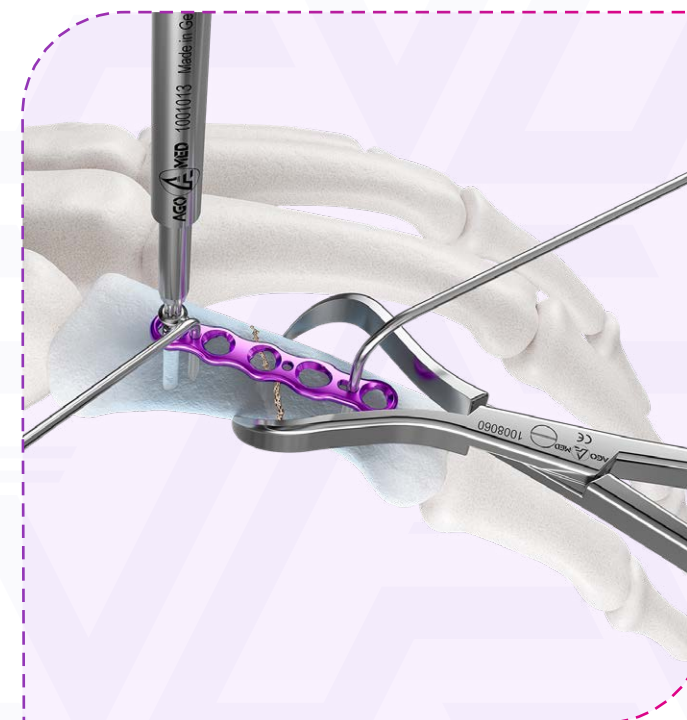


- **Drilling the first core hole.**  
Depending on the course of the fracture, fracture compression via the plate can be indicated. In this case the plate must first be fixated on the side opposite the compression hole.
- To this end the core hole is drilled with the aid of the drill guide and the appropriate core hole drill.
- The Panda system makes it possible to use standard and multidirectional locking screws with diameters 1.5 mm, 2.0 mm and 2.3 mm in all plate holes.



## Step 6

- **Placement of the first screw.**  
The plate is first fixated with a standard screw. For this purpose the screw is picked up and inserted with the color-coded screwdriver **1001013**, which is used for diameters 1.5 mm, 2.0 mm and 2.3 mm.

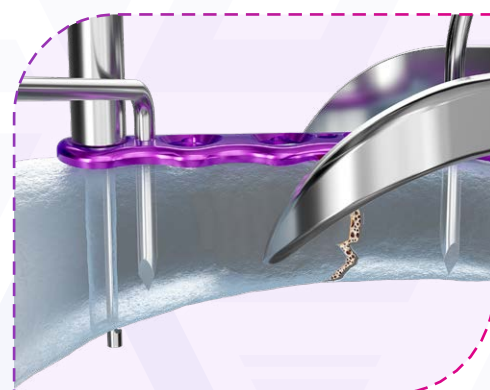


Screwdriver blade  
**1001013** for diameters  
1.5 mm / 2.0 mm /  
2.3 mm.

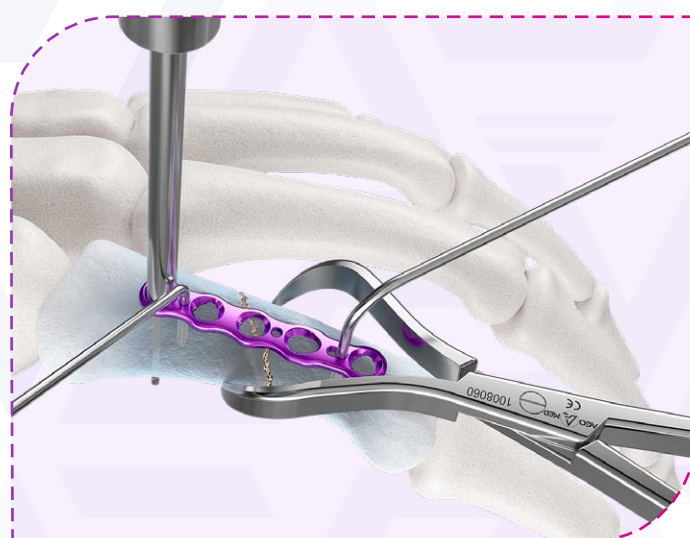


Screwdriver  
blade **1001045** for  
diameters 1.2 mm.

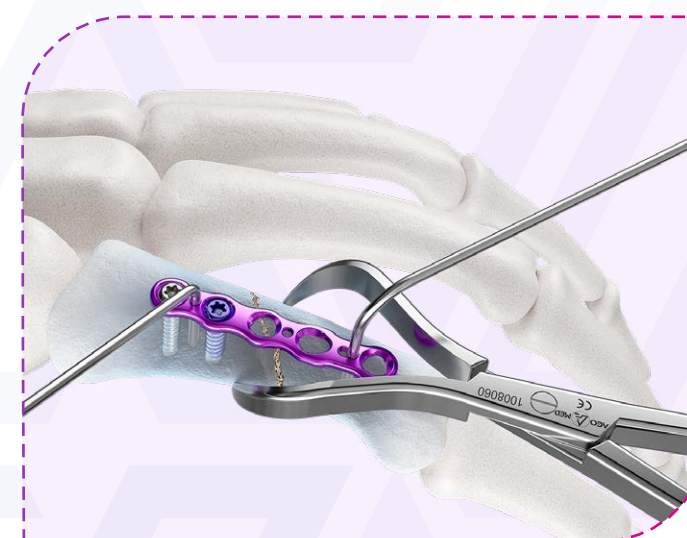
- **Determination of screw length.**  
Correct screw length is determined with depth gauge **1006032**, which can be used in all cases for screw diameters 1.2 and 2.3 mm.



## Step 5



**Note:**  
The depth gauge caliper has a hooked tip that is either inserted to the bottom of the hole or is used to catch the far cortex of the bone.



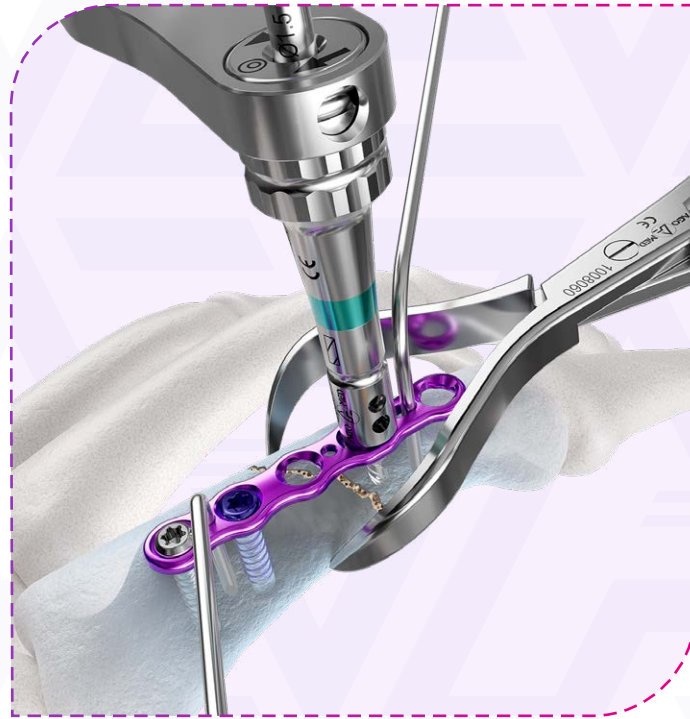
**Note:**  
In the compression hole only standard screws are used.

- Now the second screw is placed by means of the technique described in steps 4-6. Optionally, a multidirectional locking screw can be used to increase strength. At this point, it is advisable to conduct a clinical assessment of correct rotation and make an X-ray to check the position of the implants.



## Step 7

- **Placement of the compression screw.**  
If compression plate osteosynthesis is planned, after successful implantation of the first screws the compression screw is now introduced to the compression hole in order to securely close the fracture gap. Standard screws with diameters 1.5 mm, 2.0 mm and 2.3 mm can be used.

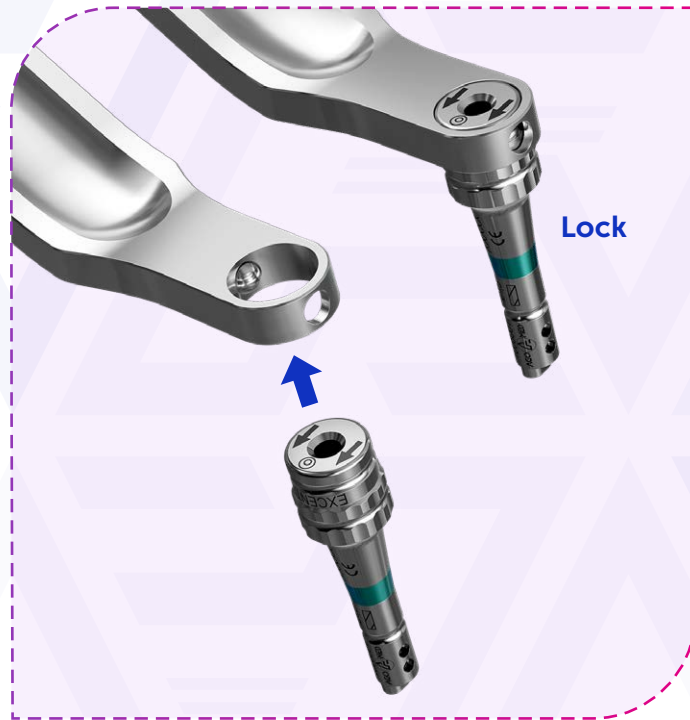


## Step 8

- **Closing the fracture gap.**  
When it is being inserted, the standard screw glides over the sloping surface integrated into the compression hole, toward the fracture gap, and closes it.



- For this purpose the compression drill sleeve is clicked into the working end of the handle. The arrows on the compression drill sleeve point toward the fracture when drilling. By analogy with the first screws, the core hole is drilled and the length of the screw is determined.



- To ensure that gliding takes place, the K-wire hole in the plate is also elongated so it allows the placed K-wire to also migrate when the fracture gap is being closed.





**Surgical technique  
bony extensor tendon avulsion  
of the distal phalanx**

## Step 9



- **Placement of further screws.**  
To achieve adequate early functional stability more plate holes are filled with screws. The procedure for this is described in steps 4 to 6.
- The number of screws and the selection of screw diameter and type depend on the specific anatomy of the patient and the required stability.

## Preoperative planning

- The X-rays are taken in the A/P and lateral planes, with the finger in neutral, focusing on the distal interphalangeal joint. The surgical indication for reduction and osteosynthesis is dislocation of the dorsal fragment and a fragment size that involves at least 1/3 of the joint surface, or palmar dislocation of the distal phalanx.

## Patient positioning

- The patient is placed in the supine position on the operating table. The hand to be operated on is placed in the pronation position of the lower arm on the extension table.

## Step 10



- **Wound closure.**  
The flat implant design usually permits suture of the periosteum in order to prevent adhesions. That is followed by side-to-side suture of the extensor tendon and skin suture.
- **Postoperative treatment.**  
Following surgery, immobilization for a few days may be advisable. Early functional after-treatment should commence as early as possible, adapted according to pain and swelling.
- The injured finger can be splinted to the adjacent finger in order to neutralize lateral forces acting on the finger.



## Step 1

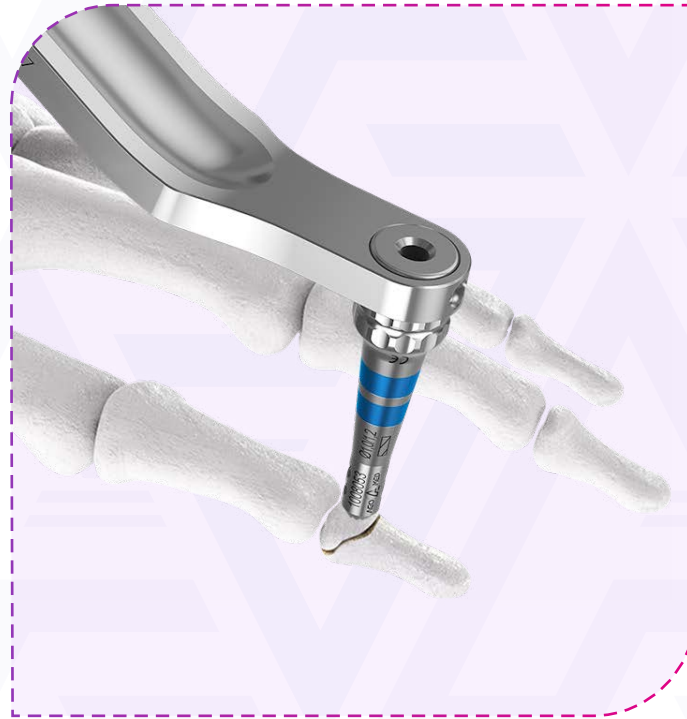
- **Dorsal approach.**  
Opening is performed by making a Y-shaped skin incision over the distal interphalangeal joint on the extensor side, whereby the longitudinal portion is above the extensor tendon and terminates at the level of the distal interphalangeal joint.
- From here radial and ulnar incisions, each approximately 1 cm in length, are made on the distal palmar side of the nail fold. During incision and further preparation the nail matrix must be reliably protected.
- **Exposure of the fracture.**  
Skin incision is followed by exposure of the extensor aponeurosis and the joint fragment of the distal phalanx base. The still intact ulnar and radial tendon fibers and the matrix of the nail root may not be damaged. The fragment and fragment bed are cleaned to remove clots.





## Step 2

- **Reduction of the fracture.**  
The DIP joint is extended. The fracture is reduced by applying light pressure to the palmar side of the distal phalanx and simultaneously applying counter pressure with the wide end of drill guide on the extensor side.
- The reduction is maintained with the horizontal drill guide until final fixation of the fracture.



## Step 4

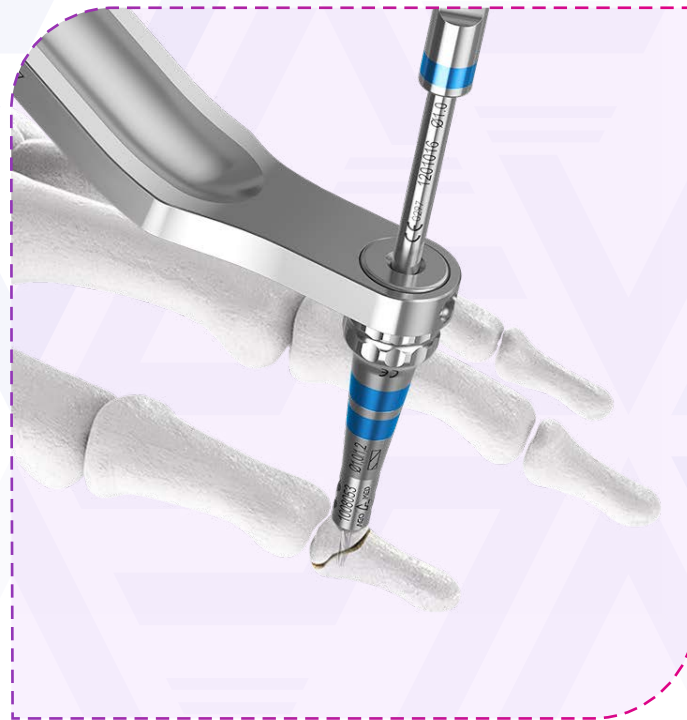
- **Determination of screw length.**  
Correct screw length is determined with depth gauge **1006032**.



**Note:**  
The depth gauge caliper has a hooked tip that is either inserted to the bottom of the hole or is used to catch the far cortex of the bone.

## Step 3

- **Drilling the core hole.**  
The core hole is drilled to a diameter of 1.0 mm using core hole drill. The core hole penetrates the cortical bone opposite.
- Using the **1008009** handle with the 1.0 mm guide (**1008053** with 2 blue rings) and the **1201016** drill (one blue ring), all two cortices are drilled, thus allowing the production of the hole by the compression screw. To protect the surrounding soft tissues, the guide (**1008019** two rings) and the 1.2 mm drill (**1201016** with two rings) are used, thus creating the sliding hole for the screw, preferably by free hand.



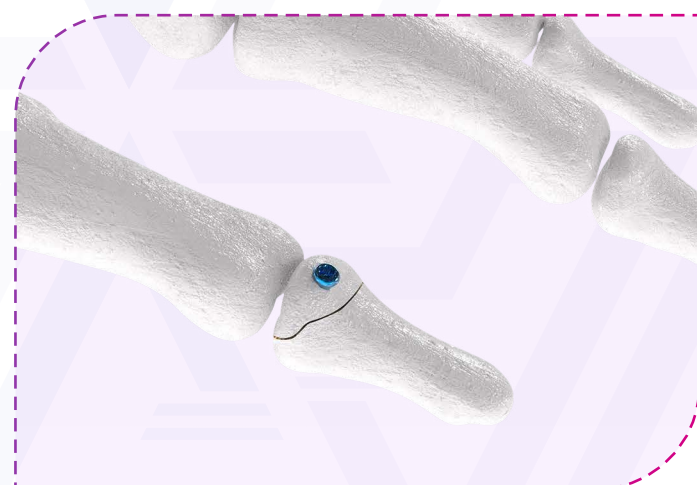
## Step 5

- **Placement of the screw.**  
The fracture is fixated with a 1.2 mm diameter standard screw.
- For this purpose the screw is picked up with color-coded screw-driver **1001045**. If screw length selected is ideal, the last thread turn grips in the opposite cortical bone while the atraumatic screw tip projects slightly.





## INSTRUMENTS



- An X-ray check is performed to verify the position of the screw.



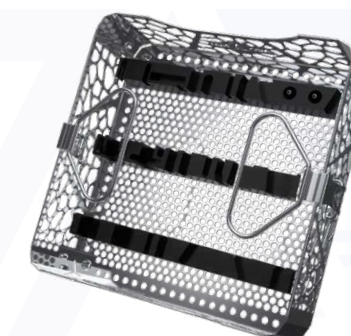
### Step 6

- **Wound closure.**  
Skin suture is performed with non-absorbable suture material using the single button technique.
- **Postoperative treatment.**  
After surgery, a lower-arm two-finger plaster splint is applied to the extensor side in the intrinsic-plus position, including the adjacent finger, or a plaster splint including the thumb.
- The arm should be systematically supported in a raised position and regular wound checks are recommended. Removal of the suture, usually accompanied by removal of the plaster cast, is performed about two weeks after surgery.
- Further immobilization of the joint that has been operated on can be achieved using a Stack splint if necessary.
- Physiotherapeutic exercise treatment (active and passive exercises) can commence.



1000447

Agopaqx4 instrument tray  
f. Panda hand System,  
w/o instruments



1000150

Agopaqx4 tray for implant  
modules, w/4 lids,  
w/o implant modules



1000446

Plate-tray system Panda  
hand 0.8 mm, 1/1, w/o implants





1000445

Plate-tray System Panda  
hand 0.8 mm, 1/2, w/o implants



1000444

Plate-tray System Panda  
hand 1.2 mm, 1/1, w/o implants



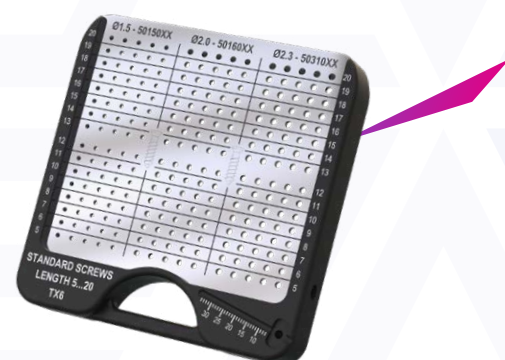
1000443

Plate-tray System Panda  
hand 1.2 mm, 1/2, w/o implants



1000388

Screw-tray f/1.5 / 2.0 / 2.3 mm,  
standard screws,  
Panda System, w/o implants



1000107

Screw-tray f/1.5 / 2.0 / 2.3 mm,  
locking screws, Panda System,  
w/o implants



1000108

Screw-tray f/1.2 / 1.5 / 2.0 / 2.3 mm,  
Panda System, w/o implants



1000455

Tray for drills 1.0 / 1.1 / 1.5 /  
1.8 mm, System Panda,  
w/o implants



1000456

Tray for drills 1.2 / 1.6 / 2.1 /  
2.4 mm, System Panda,  
w/o implants



1001013

Screwdriver blade TX 6,  
90 mm, AO shaft





1201016

Twist drill 1.0 x 80 mm,  
stop 22 mm, AO shaft,  
colour code blue



1201167

Twist drill 1.1 x 90 mm,  
stop 26 mm, AO shaft,  
colour code pink



1201168

Twist drill 1.5 x 100 mm,  
stop 36 mm, AO shaft,  
colour code turquoise



1201029

Twist drill 1.8 x 110 mm,  
stop 36 mm, AO shaft,  
colour code purple



1201169

Twist drill 1.2 x 70 mm,  
stop 10 mm, AO shaft,  
colour code blue



1201170

Twist drill 1.5 x 70 mm,  
stop 10 mm, AO shaft,  
colour code pink



1201171

Twist drill 2.0 x 70 mm,  
stop 10 mm, AO shaft,  
colour code turquoise



1201172

Twist drill 2.3 x 70 mm,  
stop 10 mm, AO shaft,  
colour code purple



1004036

Silicone screwdriverhandle  
black cannulated,  
12 cm, AO shaft



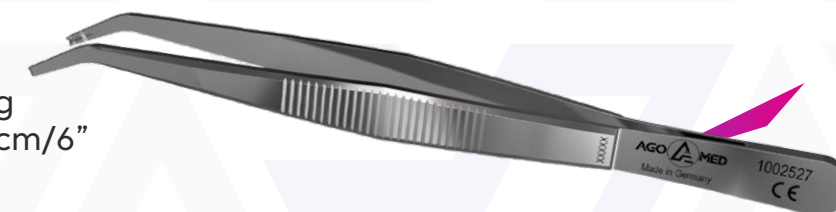
1006032

AGOMED meter,  
Panda system, 40 mm, round,  
for screws 1.2 mm and larger



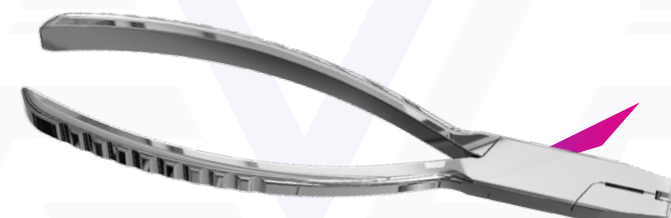
1002527

Plate- /screwholding  
forceps angled, 15 cm/6"



1005649

Bending pliers for plates,  
Panda System



1008060

Reduction forceps, 9 cm





1101123

Kirschner wires trocar/round  
1.0 x 100 mm, pack/10

1104009

K-wire dispenser 15 cm/6"  
for K-wire 0.8 - 1.6 mm diameter

1008009

Handle for drill-guide,  
only hand Systems

1008003

Drill-guide only, compression,  
variable, length 30 mm,  
drill Ø 1.1 mm, Panda System

1008001

Drill-guide only, compression,  
variable, length 30 mm,  
drill Ø 1.5 mm, Panda System

1008017

Drill-guide only, compression,  
variable, length 30 mm,  
drill Ø 1.8 mm, Panda System

1008053

Drill-guide only, variable,  
length 30 mm, drill Ø 1.0 / 1.2 mm,  
Panda System

1008018

Drill-guide only, variable,  
length 30 mm, drill Ø 1.1 / 1.5 mm,  
Panda System

1008019

Drill-guide only, variable,  
length 30 mm, drill Ø 1.5 / 2.0 mm,  
Panda System

1008002

Drill-guide only, variable,  
length 30 mm, drill Ø 1.8 / 2.3 mm,  
Panda System

## Optional instruments

1001045

Screwdriver blade TX 5,  
90 mm, AO shaft

1300581

Reamer Ø 13 mm  
for plates **4002061** /  
**4002247**, AO shaft

1300582

Reamer Ø 17 mm  
for plate **4002246**,  
AO shaft



## Optional drills (dental-shaft)

1201173

Twist drill 1.0 x 80 mm,  
stop 22 mm, dental-shaft,  
colour code blue



1201174

Twist drill 1.1 x 90 mm,  
stop 26 mm, dental-shaft,  
colour code pink



1201175

Twist drill 1.5 x 100 mm,  
stop 36 mm, dental-shaft,  
colour code turquoise



1201176

Twist drill 1.8 x 110 mm,  
stop 36 mm, dental-shaft,  
colour code purple



1201177

Twist drill 1.2 x 70 mm,  
stop 10 mm, dental-shaft,  
colour code blue



1201178

Twist drill 1.5 x 70 mm,  
stop 10 mm, dental-shaft,  
colour code pink



1201179

Twist drill 2.0 x 70 mm,  
stop 10 mm, dental-shaft,  
colour code turquoise



1201180

Twist drill 2.3 x 70 mm,  
stop 10 mm, dental-shaft,  
colour code purple



## Set S1489 – Panda hand System



Pos.	Cat.No.	Description	Qty.	Page
<b>Containers</b>				
1	1000447	Agopaqx4 instrument tray f. Panda hand System, w/o instruments	1	47
2	1000150	Agopaqx4 tray for implant modules w/4 lids, w/o implant modules	1	47
3	1000446	Plate-tray System Panda hand 0.8 mm, 1/1, w/o implants	1	47
4	1000445	Plate-tray System Panda hand 0.8 mm, 1/2, w/o implants	1	48
5	1000444	Plate-tray System Panda hand 1.2 mm, 1/1, w/o implants	2	48
6	1000443	Plate-tray System Panda hand 1.2 mm, 1/2, w/o implants	1	48
7	1000338	Screw-tray f1.5 / 2.0 / 2.3 mm, standard, screws, Panda System, w/o implants	1	48
8	1000107	Screw-tray f1.5 / 2.0 / 2.3 mm, locking screws, Panda System, w/o implants	1	49
9	1000108	Screw-tray f1.5 / 2.0 / 2.3 mm, Panda System, w/o implants	1	49
10	1000455	Tray for drills 1.0 / 1.1 / 1.5 / 1.8 mm, System Panda, w/o implants	1	49
11	1000456	Tray for drills 1.2 / 1.5 / 2.0 / 2.3 mm, System Panda, w/o implants	1	49
<b>Instruments</b>				
12	1001013	Screwdriver blade TX 6, 90 mm AO-shaft	2	49
13	1002527	Plate- /screwholding forceps angled, 15 cm/6"	1	51
14	1004036	Silicone screwdriverhandle black cannulated, 12 cm, AO shaft	2	51
15	1005649	Bending pliers for plates, Panda System	2	51

Pos.	Cat.No.	Description	Qty.	Page
16	1006032	AGOMED meter, Panda System, 40 mm, round, for screws 1.2 mm and larger	1	51
17	1008001	Drill-guide only, compression, variable, length 30 mm, drill Ø 1.5 mm, Panda System	1	52
18	1008002	Drill-guide only, variable, length 30 mm, drill Ø 1.8 mm, Panda System	1	53
19	1008003	Drill-guide only, compression, variable, length 30 mm, drill Ø 1.1 mm, Panda System	1	52
20	1008009	Handle for drill-guide, only hand-systems	2	52
21	1008017	Drill-guide only, compression, variable, length 30 mm, drill Ø 1.8 mm, Panda System	1	52
22	1008018	Drill-guide only, variable, length 30 mm, drill Ø 1.1 mm, Panda System	1	53
23	1008019	Drill-guide only, variable, length 30 mm, drill Ø 1.5 mm, Panda System	1	53
24	1008053	Drill-guide only, variable, length 30 mm, drill Ø 1.0 mm, Panda System	1	53
25	1008060	Reduction forceps, 9 cm	1	51
26	1101123	K-wires trocar/round 1.0 x 100 mm, pack/10	1	52
27	1104009	AGOMED K-wire dispenser 15 cm/6" for K-wire 0.8 - 1.6 mm diameter	1	52
28	1201016	Twist drill 1.0 x 80 mm, stop 22 mm AO shaft, colour code blue	2	50
29	1201029	Twist drill 1.8 x 110 mm, stop 36 mm AO shaft, colour code purple	2	50
30	1201167	Twist drill 1.1 x 90 mm, stop 26 mm AO shaft, colour code pink	2	50
31	1201168	Twist drill 1.5 x 100 mm, stop 36 mm AO shaft, colour code turquoise	2	50



Pos.	Cat.No.	Description	Qty.	Page
32	1201169	Twist drill 1.2 x 70 mm, stop 10 mm AO shaft, colour code blue	2	50
33	1201170	Twist drill 1.5 x 70 mm, stop 10 mm AO shaft, colour code pink	2	50
34	1201171	Twist drill 2.0 x 70 mm, stop 10 mm AO shaft, colour code turquoise	2	50
35	1201172	Twist drill 2.3 x 70 mm, stop 10 mm AO shaft, colour code purple	2	50
		<b>Plates</b>		
36	4002056	Titanium plate 4 hole, straight, 0.8 mm	1	12
37	4002057	Titanium plate 5 holes, straight, w/compression hole, 0.8 mm	1	12
38	4002058	Titanium plate 6 holes, straight, w/compression hole, 0.8 mm	1	12
39	4002059	Titanium plate 4 holes, straight, 1.2 mm	1	16
40	4002120	Titanium plate 2/3 holes T shape, 90°, 0.8 mm	1	15
41	4002123	Titanium plate 5 holes, Y shape, 0.8 mm	1	13
42	4002125	Titanium plate 5 holes, straight, w/compression hole, 1.2 mm	1	16
43	4002165	Titanium plate 6 holes, L shape, 90°, right w/compression hole, 0.8 mm	1	13
44	4002166	Titanium plate 6 holes, L shape, 90°, left w/compression hole, 0.8 mm	1	13
45	4002167	Titanium plate 2/5 holes, T shape, 90°, w/compression hole, 1.2 mm	1	15
46	4002168	Titanium plate 6 holes, frog, w/compression hole, 0.8 mm	1	13
47	4002169	Titanium plate 2/4 holes, T shape, 90°, w/compression hole, 0.8 mm	1	15
48	4002170	Titanium plate 3/3 holes, T shape, 90°, 0.8 mm	1	15
49	4002171	Titanium plate 6 holes, Y shape, w/compression hole, 0.8 mm	1	13
50	4002172	Titanium plate 7 holes, L shape, 90°, right w/compression hole, 1.2 mm	1	20
51	4002173	Titanium plate 7 holes, L shape, 90°, left w/compression hole, 1.2 mm	1	20
52	4002174	Titanium plate 5x2 holes, rectangular, w/compression hole, 1.2 mm	1	17
53	4002175	Titanium plate 6x2 holes, rectangular, w/compression hole, 1.2 mm	1	17
54	4002176	Titanium plate 2/3 holes, T shape, 90°, 1.2 mm	1	18
55	4002177	Titanium plate 2x6 holes, T shape, 90°, w/compression hole, 1.2 mm	1	18
56	4002179	Titanium plate 6 holes, straight, w/compression hole, 1.2 mm	1	16
57	4002180	Titanium plate 7 holes, Y shape, w/compression hole, 1.2 mm	1	19
58	4002181	Titanium plate 8 holes, Y shape, w/compression hole, 1.2 mm	1	19
59	4002184	Titanium plate 2/4 holes, T shape, 90°, w/compression hole, 1.2 mm	1	18
60	4002185	Titanium plate 3/5 holes, T shape, 90°, w/compression hole, 1.2 mm	1	18

Pos.	Cat.No.	Description	Qty.	Page
61	4002186	Titanium plate 3/6 holes, T shape, 90°, w/compression hole, 1.2 mm	1	18
62	4002187	Titanium plate 6 holes, frog, w/compression hole, 1.2 mm	1	19
63	4002190	Titanium plate 2/5 holes, T shape, 90°, w/compression hole, 1.2 mm	1	18
64	4002232	Titanium plate 3/4 holes, T shape, 90°, w/compression hole, 0.8 mm	1	15
65	4002233	Titanium plate 7 holes, Y shape, 90°, w/compression hole, 0.8 mm	1	13
66	4002234	Titanium plate 3/3 holes, T shape, 90°, 1.2 mm	1	18
67	4002235	Titanium plate 5 holes, Y shape, 1.2 mm	1	19
68	4002236	Titanium plate 3/4 holes, T shape, 90°, w/compression hole, 1.2 mm	1	18
69	4002237	Titanium plate 6 holes, Y shape, 90°, w/compression hole, 1.2 mm	1	19
70	4002243	Titanium plate 7 holes, straight, w/compression hole, 1.2 mm	1	16
71	4002381	Titanium plate 3/5 holes, T shape, 90°, w/compression hole, 0.8 mm	1	15
72	4002435	Titanium plate 2 x 2 holes, rectangular, 0.8 mm	1	14
73	4002437	Titanium plate 9 holes, Z shape, 0.8 mm	1	13
74	4002439	Titanium plate 2 x 2 holes, rectangular, 1.2 mm	1	17
75	4002440	Titanium plate 9 holes, Z shape, 1.2 mm	1	19
76	4002453	Titanium plate 3 x 2 holes, rectangular, w/compression hole, 0.8 mm	1	14
77	4002454	Titanium plate 5 x 2 holes, rectangular, w/compression hole, 0.8 mm	1	14
78	4002455	Titanium plate 3 x 2 holes, rectangular, w/compression hole, 1.2 mm	1	17
79	4002467	Titanium plate 4 x 2 holes, rectangular, w/compression hole, 0.8 mm	1	14
80	4002468	Titanium plate 13 holes, Z shape, 0.8 mm	1	13
81	4002469	Titanium plate 6 x 2 holes, rectangular, w/compression hole, 0.8 mm	1	14
82	4002471	Titanium plate 4 x 2 holes, rectangular, w/compression hole, 1.2 mm	1	17
83	4002472	Titanium plate 13 holes, Z shape, 1.2 mm	1	19
		<b>Screws</b>		
84	4002060	Titanium washer f. 2.0 / 2.3 mm screws, 1.2 mm, pack/5	1	22
85	4002062	Titanium washer f. 2.0 / 2.3 mm screws, 0.8 mm, pack/5	1	22
86	5015005	Titanium screw 1.5 x 5 mm, TX 6, standard, self-tapping, pack/5	1	23
87	5015006	Titanium screw 1.5 x 6 mm, TX 6, standard, self-tapping, pack/5	1	23
88	5015007	Titanium screw 1.5 x 7 mm, TX 6, standard, self-tapping, pack/5	1	23
89	5015008	Titanium screw 1.5 x 8 mm, TX 6, standard, self-tapping, pack/5	1	23
90	5015009	Titanium screw 1.5 x 9 mm, TX 6, standard, self-tapping, pack/5	1	23
91	5015010	Titanium screw 1.5 x 10 mm, TX 6, standard, self-tapping, pack/5	1	23
92	5015011	Titanium screw 1.5 x 11 mm, TX 6, standard, self-tapping, pack/5	1	23

Pos.	Cat.No.	Description	Qty.	Page
93	5015012	Titanium screw 1.5 x 12 mm, TX 6, standard, self-tapping, pack/5	1	23
94	5015013	Titanium screw 1.5 x 13 mm, TX 6, standard, self-tapping, pack/5	1	23
95	5015014	Titanium screw 1.5 x 14 mm, TX 6, standard, self-tapping, pack/5	1	23
96	5015015	Titanium screw 1.5 x 15 mm, TX 6, standard, self-tapping, pack/5	1	23
97	5015016	Titanium screw 1.5 x 16 mm, TX 6, standard, self-tapping, pack/5	1	23
98	5015017	Titanium screw 1.5 x 17 mm, TX 6, standard, self-tapping, pack/5	1	23
99	5015018	Titanium screw 1.5 x 18 mm, TX 6, standard, self-tapping, pack/5	1	23
100	5015019	Titanium screw 1.5 x 19 mm, TX 6, standard, self-tapping, pack/5	1	23
101	5015020	Titanium screw 1.5 x 20 mm, TX 6, standard, self-tapping, pack/5	1	23
102	5015105	Titanium screw, 1.5 x 5 mm, TX 6, threaded head, pack/5	1	23
103	5015106	Titanium screw, 1.5 x 6 mm, TX 6, threaded head, pack/5	1	23
104	5015107	Titanium screw, 1.5 x 7 mm, TX 6, threaded head, pack/5	1	23
105	5015108	Titanium screw, 1.5 x 8 mm, TX 6, threaded head, pack/5	1	23
106	5015109	Titanium screw, 1.5 x 9 mm, TX 6, threaded head, pack/5	1	23
107	5015110	Titanium screw, 1.5 x 10 mm, TX 6, threaded head, pack/5	1	23
108	5015111	Titanium screw, 1.5 x 11 mm, TX 6, threaded head, pack/5	1	23
109	5015112	Titanium screw, 1.5 x 12 mm, TX 6, threaded head, pack/5	1	23
110	5015113	Titanium screw, 1.5 x 13 mm, TX 6, threaded head, pack/5	1	23
111	5015114	Titanium screw, 1.5 x 14 mm, TX 6, threaded head, pack/5	1	23
112	5015115	Titanium screw, 1.5 x 15 mm, TX 6, threaded head, pack/5	1	23
113	5015116	Titanium screw, 1.5 x 16 mm, TX 6, threaded head, pack/5	1	23
114	5015117	Titanium screw, 1.5 x 17 mm, TX 6, threaded head, pack/5	1	23
115	5015118	Titanium screw, 1.5 x 18 mm, TX 6, threaded head, pack/5	1	23
116	5015119	Titanium screw, 1.5 x 19 mm, TX 6, threaded head, pack/5	1	23
117	5015120	Titanium screw, 1.5 x 20 mm, TX 6, threaded head, pack/5	1	23
118	5016005	Titanium screw, 2.0 x 5 mm, TX 6, standard, self-tapping, pack/5	1	24
119	5016006	Titanium screw, 2.0 x 6 mm, TX 6, standard, self-tapping, pack/5	1	24
120	5016007	Titanium screw, 2.0 x 7 mm, TX 6, standard, self-tapping, pack/5	1	24
121	5016008	Titanium screw, 2.0 x 8 mm, TX 6, standard, self-tapping, pack/5	1	24
122	5016009	Titanium screw, 2.0 x 9 mm, TX 6, standard, self-tapping, pack/5	1	24
123	5016010	Titanium screw, 2.0 x 10 mm, TX 6, standard, self-tapping, pack/5	1	24
124	5016011	Titanium screw, 2.0 x 11 mm, TX 6, standard, self-tapping, pack/5	1	24
125	5016012	Titanium screw, 2.0 x 12 mm, TX 6, standard, self-tapping, pack/5	1	24

Pos.	Cat.No.	Description	Qty.	Page
126	5016013	Titanium screw, 2.0 x 13 mm, TX 6, standard, self-tapping, pack/5	1	24
127	5016014	Titanium screw, 2.0 x 14 mm, TX 6, standard, self-tapping, pack/5	1	24
128	5016015	Titanium screw, 2.0 x 15 mm, TX 6, standard, self-tapping, pack/5	1	24
129	5016016	Titanium screw, 2.0 x 16 mm, TX 6, standard, self-tapping, pack/5	1	24
130	5016017	Titanium screw, 2.0 x 17 mm, TX 6, standard, self-tapping, pack/5	1	24
131	5016018	Titanium screw, 2.0 x 18 mm, TX 6, standard, self-tapping, pack/5	1	24
132	5016019	Titanium screw, 2.0 x 19 mm, TX 6, standard, self-tapping, pack/5	1	24
133	5016020	Titanium screw, 2.0 x 20 mm, TX 6, standard, self-tapping, pack/5	1	24
134	5016105	Titanium screw, 2.0 x 5 mm, TX 6, threaded head, pack/5	1	24
135	5016106	Titanium screw, 2.0 x 6 mm, TX 6, threaded head, pack/5	1	24
136	5016107	Titanium screw, 2.0 x 7 mm, TX 6, threaded head, pack/5	1	24
137	5016108	Titanium screw, 2.0 x 8 mm, TX 6, threaded head, pack/5	1	24
138	5016109	Titanium screw, 2.0 x 9 mm, TX 6, threaded head, pack/5	1	24
139	5016110	Titanium screw, 2.0 x 10 mm, TX 6, threaded head, pack/5	1	24
140	5016111	Titanium screw, 2.0 x 11 mm, TX 6, threaded head, pack/5	1	24
141	5016112	Titanium screw, 2.0 x 12 mm, TX 6, threaded head, pack/5	1	24
142	5016113	Titanium screw, 2.0 x 13 mm, TX 6, threaded head, pack/5	1	24
143	5016114	Titanium screw, 2.0 x 14 mm, TX 6, threaded head, pack/5	1	24
144	5016115	Titanium screw, 2.0 x 15 mm, TX 6, threaded head, pack/5	1	24
145	5016116	Titanium screw, 2.0 x 16 mm, TX 6, threaded head, pack/5	1	24
146	5016117	Titanium screw, 2.0 x 17 mm, TX 6, threaded head, pack/5	1	24
147	5016118	Titanium screw, 2.0 x 18 mm, TX 6, threaded head, pack/5	1	24
148	5016119	Titanium screw, 2.0 x 19 mm, TX 6, threaded head, pack/5	1	24
149	5016120	Titanium screw, 2.0 x 20 mm, TX 6, threaded head, pack/5	1	24
150	5031005	Titanium screw, 2.3 x 5 mm, TX 6, standard, self-tapping, pack/5	1	25
151	5031006	Titanium screw, 2.3 x 6 mm, TX 6, standard, self-tapping, pack/5	1	25
152	5031007	Titanium screw, 2.3 x 7 mm, TX 6, standard, self-tapping, pack/5	1	25
153	5031008	Titanium screw, 2.3 x 8 mm, TX 6, standard, self-tapping, pack/5	1	25
154	5031009	Titanium screw, 2.3 x 9 mm, TX 6, standard, self-tapping, pack/5	1	25
155	5031010	Titanium screw, 2.3 x 10 mm, TX 6, standard, self-tapping, pack/5	1	25



Pos.	Cat.No.	Description	Qty.	Page
156	5031011	Titanium screw, 2.3 x 11 mm, TX 6, standard, self-tapping, pack/5	1	25
157	5031012	Titanium screw, 2.3 x 12 mm, TX 6, standard, self-tapping, pack/5	1	25
158	5031013	Titanium screw, 2.3 x 13 mm, TX 6, standard, self-tapping, pack/5	1	25
159	5031014	Titanium screw, 2.3 x 14 mm, TX 6, standard, self-tapping, pack/5	1	25
160	5031015	Titanium screw, 2.3 x 15 mm, TX 6, standard, self-tapping, pack/5	1	25
161	5031016	Titanium screw, 2.3 x 16 mm, TX 6, standard, self-tapping, pack/5	1	25
162	5031017	Titanium screw, 2.3 x 17 mm, TX 6, standard, self-tapping, pack/5	1	25
163	5031018	Titanium screw, 2.3 x 18 mm, TX 6, standard, self-tapping, pack/5	1	25
164	5031019	Titanium screw, 2.3 x 19 mm, TX 6, standard, self-tapping, pack/5	1	25
165	5031020	Titanium screw, 2.3 x 20 mm, TX 6, standard, self-tapping, pack/5	1	25
166	5031105	Titanium screw, 2.3 x 5 mm, TX 6, threaded head, pack/5	1	25
167	5031106	Titanium screw, 2.3 x 6 mm, TX 6, threaded head, pack/5	1	25

Pos.	Cat.No.	Description	Qty.	Page
168	5031107	Titanium screw, 2.3 x 7 mm, TX 6, threaded head, pack/5	1	25
169	5031108	Titanium screw, 2.3 x 8 mm, TX 6, threaded head, pack/5	1	25
170	5031109	Titanium screw, 2.3 x 9 mm, TX 6, threaded head, pack/5	1	25
171	5031110	Titanium screw, 2.3 x 10 mm, TX 6, threaded head, pack/5	1	25
172	5031111	Titanium screw, 2.3 x 11 mm, TX 6, threaded head, pack/5	1	25
173	5031112	Titanium screw, 2.3 x 12 mm, TX 6, threaded head, pack/5	1	25
174	5031113	Titanium screw, 2.3 x 13 mm, TX 6, threaded head, pack/5	1	25
175	5031114	Titanium screw, 2.3 x 14 mm, TX 6, threaded head, pack/5	1	25
176	5031115	Titanium screw, 2.3 x 15 mm, TX 6, threaded head, pack/5	1	25
177	5031116	Titanium screw, 2.3 x 16 mm, TX 6, threaded head, pack/5	1	25
178	5031117	Titanium screw, 2.3 x 17 mm, TX 6, threaded head, pack/5	1	25
179	5031118	Titanium screw, 2.3 x 18 mm, TX 6, threaded head, pack/5	1	25
180	5031119	Titanium screw, 2.3 x 19 mm, TX 6, threaded head, pack/5	1	25
181	5031120	Titanium screw, 2.3 x 20 mm, TX 6, threaded head, pack/5	1	25

Notes

Notes



## Notes

## Notes

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## Notes

## More of our products

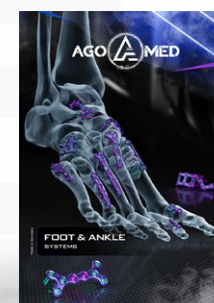
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2010015

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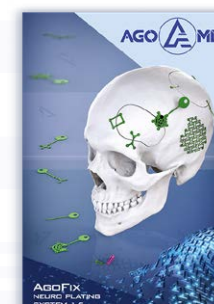
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