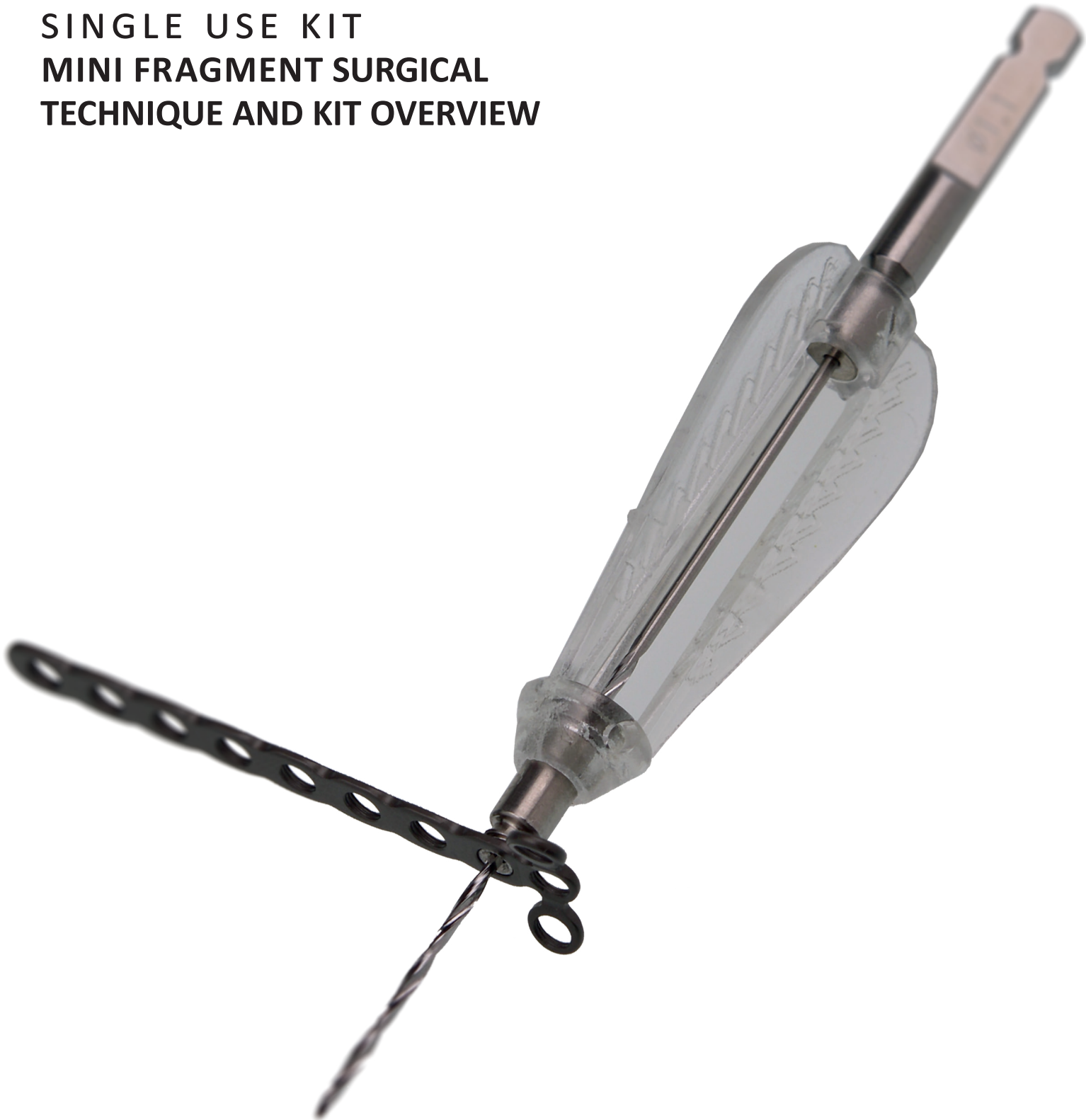


# [ti]win

SINGLE USE KIT  
MINI FRAGMENT SURGICAL  
TECHNIQUE AND KIT OVERVIEW



**mahe medical** – a committed specialist  
that cares for clinical resources

Specialized in the fields of orthopedics, traumatology and spinal column, mahe medical develops innovative products and solutions, from which you as a dealer benefit just like the respectively responsible doctor or the OP personnel and - beyond the economic and administrative aspect - clinic management as well.

The excellent quality and precision of our products, as well as the willingness to adapt our developments exclusively to your requirements, are the most important elements of our offered products and services.

Our product ideas help you to preserve the most precious resources of daily clinic operations: Nerves, time and money.

## CONGRATULATIONS

You are using the innovative [ti] win single-use implant system. Before the operation, we would like to explain to you the basic points of using our kit.

**Please note:** Each implant is individually packaged in sterile condition, with stickers attached for patient documentation. Please remove and open only the implants that you require for the operation. Implants that are removed from the packaging and contaminated may not be returned. Single-use instruments must be properly disposed of after the operation. If needed, we can provide you with special disposal containers. All kits are intended for one operation only.

### Colour coding ON THE PACKAGING

- 1.5 mm screws, implants, and instrument kit
- 2.0 mm screws, implants, and instrument kit

### INSTRUMENT KITS

#### Ref. No. 200-7100-400H-S (for 1.5 mm implants)

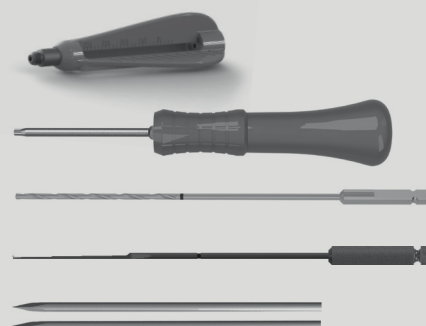
Tapping drill sleeve, ID 1.1 mm, Single-use

Screwdriver, TORX 7, Single-use

Drill, OD 1.1 mm, with AO coupling, Single-use

Measuring probe

Kirschner wires, 0.8 mm x 150 mm, Single-use



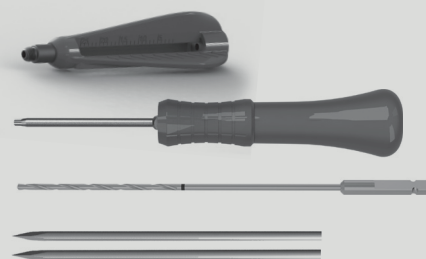
#### Ref. No. 200-7100-401H-S (for 2.0 mm implants)

Tapping drill sleeve, ID 1.5 mm, SINGLE-USE

Screwdriver, TORX 7, SINGLE-USE

Drill, OD 1.5 mm, with AO coupling, SINGLE-USE

Kirschner wires, 0.8 mm x 150 mm, SINGLE-USE



### Individually packaged instruments

Digital screw measuring instrument for 2.0 mm implants



## [ti] win Mini Fragment Implants

### MINI PLATES

All fixed-angle Mini Fragment implants are characterized by reduced plate thickness that minimizes soft tissue irritation. The fine contour of the back surface nestles perfectly against the bone of the finger or metacarpus. The 1.5 mm screw heads and 2.0 mm screws have a Torx attachment that firmly holds the screwdriver in place.

#### MINI FRAGMENT 1,5 MM

**Ref. No. 150-4100-010-S**

Straight, 1.5 mm, 10-hole plate, 50 mm x 4.2mm



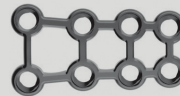
**Ref. No. 150-4100-118-S**

T-plate, 1.5 mm, 3/8-hole plate, 44 mm x 13.5 mm / 4.2 mm



**Ref. No. 150-4100-100-S**

Grid plate, 1.5 mm, 8-hole plate, 22.3 mm x 11.8 mm



**Screws**

1,5 TXL-screws

Thread diameter: 1.5 mm

Core diameter: 1.1 mm

Colour code: ●



**Material** Titanium alloy: TI 6Al 4V, Surface: anodised according to type II

#### MINI FRAGMENT 2,0 MM

**Ref. No. 150-4200-010-S**

Straight, 2.0 mm, 10-hole plate, 70 mm x 5.0 mm



**Ref. No. 150-4200-117-S**

T-plate, 2.0 mm, 3/7-hole plate, 54 mm x 16 mm / 5.0 mm



**Screws**

2.0 mm TXL screws

Thread diameter: 2.0 mm

Core diameter: 1.5 mm

Colour code: ●



**Material** Titanium alloy: TI 6Al 4V, Surface: anodised according to type II

## [ti] win Mini Fragment Implantate

### IMPLANTING THE PLATE

#### 1. Selecting the Plate Implant

First decide which plate you want to use for treating the fracture. Remove the corresponding implant from the sterile packaging. Make absolutely sure that you take out the matching sterile instrument kit:

1.5 mm plates = Instrument Kit 200-7100-400H-S

2.0 mm plates = Instrument Kit 200-7100-401H-S

#### 2. Determining the Plate Length

Lay the removed plate on the fractured bone and place it in the desired position. Determine the plate lengths. Shorten the plate after the last plate hole that you still want to place a screw through. When shortening the plate, make sure that you cut it between the plate holes. You can use a normal side cutting pliers to cut through the plate. If the anatomy of the bone requires that you bend a plate to mould it better to the bone, you can do this with standard plate bending pliers or two flat pliers. Make sure that the plate holes are not bent in the process!

#### 3. Attaching the Plate

Determine which plate hole you want to place a screw through first. Before positioning the plate on the bone, screw the tapping drill sleeve into the thread of the plate hole. With the fixed drill sleeve, you can get a very good grip on the small plate and position it on the bone.

#### 4. Drilling Holes in the Bone

Once the plate is lying on the bone in the desired position, insert the drill into the tapping drill sleeve and carefully drill the hole.

#### 5. Determining the Screw Length with the Drill

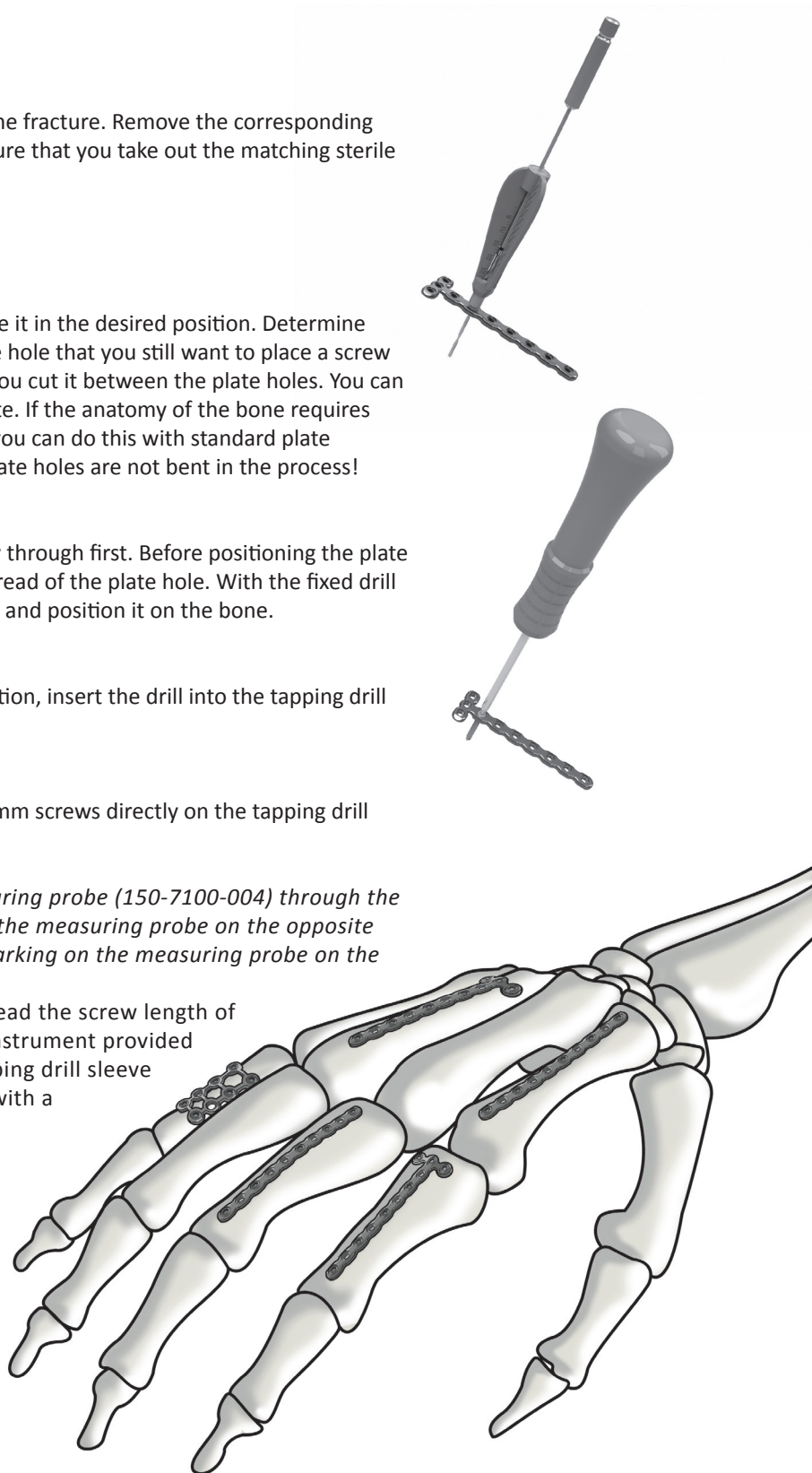
You can read the screw length of the 1.5 mm and 2.0 mm screws directly on the tapping drill sleeve with the aid of the laser marking on the drills.

**Optional for 1.5 mm screws** Insert the small measuring probe (150-7100-004) through the tapping drill sleeve and the hole in the bone. Hook the measuring probe on the opposite cortex and read the screw length using the laser marking on the measuring probe on the drill directly at the tapping drill sleeve.

**Optional for 2.0mm screws** You can conveniently read the screw length of 2.0 mm screws using the digital screw measuring instrument provided separately. To do this, you need to remove the tapping drill sleeve from the plate. The procedure is the same as that with a mechanical measuring gauge.

#### 6. Inserting the Screws

Remove the selected screw from the sterile packaging and firmly press the Torx attachment of the screwdriver into the screw head. In this way, the screws are self-holding. Turn the screw into the bone. Make sure that the screw is firmly secured in the thread of the plate hole. All plates and screws are high-quality anodised titanium according to type II. This is a special surface hardening process, which considerably reduces the risk of cold welding between the screw and plate.



## [ti] win Mini Fragment Implants

### Using the [ti] win Kit

- » First remove the surgical technique and read the information on how to use the implant and the surgical technique.
- » The implants and instrument kits are packaged in sterile condition.
- » Please take care to ensure sterile handling when opening the packaging and handing over the implants and instruments.
- » Special Features of the Radius Plate  
Before surgery, the surgeon should decide whether he would like to use a drill guide or a tapping drill sleeve. When using the drill guide, please make sure that the plate is aligned properly (right – left).
- » The screws and plates are colour coded.
- » Please remove and open only the screws that you require for this operation.  
The supply price always refers to the use of one plate and the maximum number of screws possible per plate (radius plate: 10 screws).

## [ti] win Mini Fragment Implants

### Overview

<u>Ref. No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Colour Code</u>
<b>200-7100-431-S [ti] win SINGLE-USE MINI 1.5 &amp; 2.0 MM KIT</b>			
150-4100-100-S	[ti] win MF 1.5 Double-Bar Plate, 8-Hole	1	●
150-4100-010-S	[ti] win MF 1.5 Straight Plate, 10-Hole	1	
150-4100-118-S	[ti] win MF 1.5 T-Plate, 3/8-Hole	1	
<b>Fixed-angle 1.5 mm screws</b>			
150-4015-006TXL-S	Cort. Screw 1.5 mm with Head Thread L 6 mm	2	●
150-4015-007TXL-S	Cort. Screw 1.5 mm with Head Thread L 7 mm	3	
150-4015-008TXL-S	Cort. Screw 1.5 mm with Head Thread L 8 mm	3	
150-4015-009TXL-S	Cort. Screw 1.5 mm with Head Thread L 9 mm	2	
150-4015-010TXL-S	Cort. Screw 1.5 mm with Head Thread L 10 mm	2	
150-4015-011TXL-S	Cort. Screw 1.5 mm with Head Thread L 11 mm	2	
150-4015-012TXL-S	Cort. Screw 1.5 mm with Head Thread L 12 mm	2	
150-4015-013TXL-S	Cort. Screw 1.5 mm with Head Thread L 13 mm	2	
150-4015-014TXL-S	Cort. Screw 1.5 mm with Head Thread L 14 mm	1	
150-4015-015TXL-S	Cort. Screw 1.5 mm with Head Thread L 15 mm	1	
150-4015-016TXL-S	Cort. Screw 1.5 mm with Head Thread L 16 mm	1	
150-4015-018TXL-S	Cort. Screw 1.5 mm with Head Thread L 18 mm	1	
<b>Specific Instruments</b>			
200-7100-400H-S	Instrument Kit for 1.5 mm Screws (Single-use) » 150-1911-011 Drill, 1.1 mm, with AO Coupling » 150-4300-001H Tapping Screw Thread, ID 1.1 mm » 150-4300-003 Mini Screwdriver, Torx 7 » 150-6801-008 K-Wires, 0.8 X 150 mm (2 PCS.) » 150-4300-004 Measuring Probe	1	●
150-4200-010-S	[ti] win MF 2.0 Straight Plate, 10-Hole	1	
150-4200-117-S	[ti] win MF 2.0 T-Plate, 3/7-Hole	1	●
<b>Fixed-Angle 2.0 mm Screws</b>			
150-4020-010TXL-S	Cort. Screw 2.0 mm with Head Thread L 10 mm	2	●
150-4020-011TXL-S	Cort. Screw 2.0 mm with Head Thread L 11 mm	3	
150-4020-012TXL-S	Cort. Screw 2.0 mm with Head Thread L 12 mm	3	
150-4020-013TXL-S	Cort. Screw 2.0 mm with Head Thread L 13 mm	2	
150-4020-014TXL-S	Cort. Screw 2.0 mm with Head Thread L 14 mm	2	
150-4020-015TXL-S	Cort. Screw 2.0 mm with Head Thread L 15 mm	2	
150-4020-016TXL-S	Cort. Screw 2.0 mm with Head Thread L 16 mm	1	
150-4020-017TXL-S	Cort. Screw 2.0 mm with Head Thread L 17 mm	1	
150-4020-018TXL-S	Cort. Screw 2.0 mm with Head Thread L 18 mm	1	
150-4020-019TXL-S	Cort. Screw 2.0 mm with Head Thread L 19 mm	1	
150-4020-020TXL-S	Cort. Screw 2.0 mm with Head Thread L 20 mm	1	
<b>Specific Instruments</b>			
200-7100-401H-S	Instrument Kit for 2.0 mm Screws (Single-use) » 150-1911-015 Drill, 1.5 mm, with AO Coupling » 150-4300-002H Tapping Drill Sleeve, ID 1.5 mm » 150-4300-003 Mini Screwdriver, Torx 7 » 150-6801-008 K-Wires, 0.8 X 150 mm (2 Pcs.)	1	●
EDG5B	Digital Screw Length measuring Instrument (Single-use) only for 2.0 mm Screws	1	



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