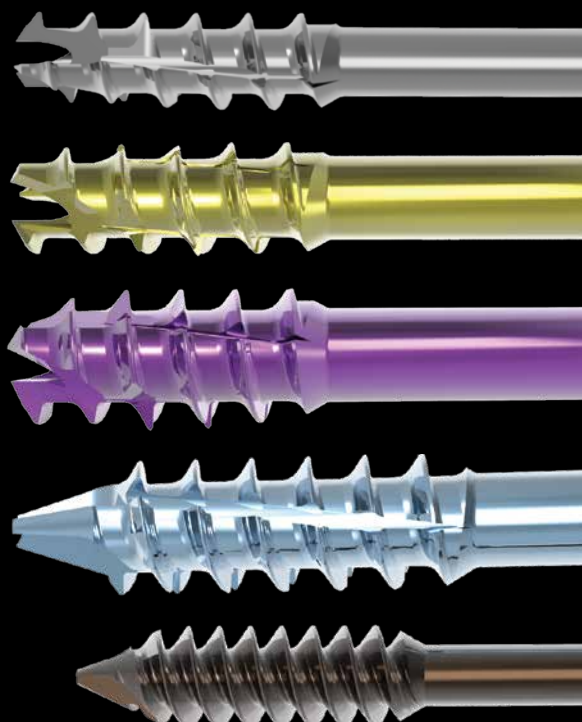
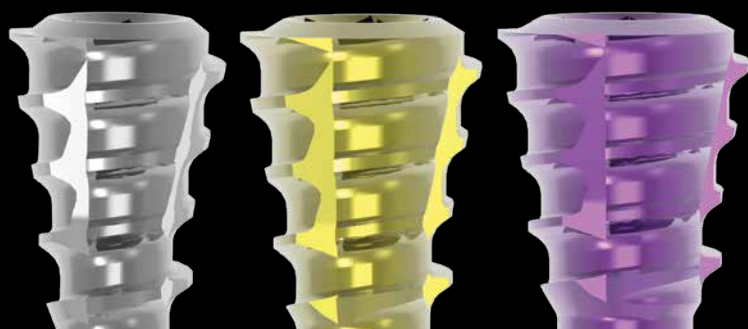
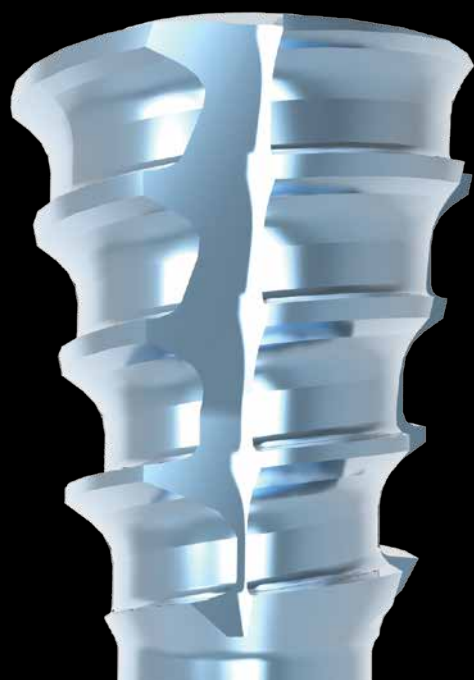




NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



## FOOTMOTION FOREFOOT

SCREWS / PERCUTANEOUS REAMERS /  
STAPLES

- ▶ Self-drilling and self-tapping screws
- ▶ Optimized compression
- ▶ Innovative ergonomic instruments

# FOOTMOTION

**Indication:** The implants of the Foot and Hand Motion range are intended for the fixation of bone fractures and osteotomies and for arthrodeses of foot and hand in adults.

**Contra-indication:**

- Serious vascular deterioration, bone devitalization,
- Pregnancy.
- Acute or chronic local or systemic infections.
- Lack of musculo-cutaneous cover, severe vascular deficiency affecting the concerned area.
- Insufficient bone quality preventing a good fixation of the implants into the bone,
- Muscular deficit, neurological deficiency or behavioral disorders, which could submit the implant to abnormal mechanical strains.
- Allergy to one of the materials used or sensitivity to foreign bodies.
- Serious problems of non-compliance, mental or neurological disorders, failure to follow post-operative care recommendations.
- Unstable physical and/or mental condition.

## A COMPREHENSIVE RANGE OF SOLUTIONS FOR FOREFOOT

### SAFETY TRACEABILITY

The whole range is available sterile and non-sterile.

#### STERILE PACKAGING



#### NON-STERILE PACKAGING



In order to improve the traceability of non-sterile screws, a marker (provided with each screw, excepted snap-off screw) clearly indicates their batch number and length.



SCREWS



STAPLES

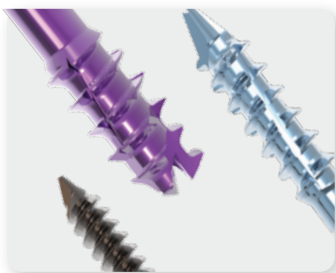


PERCUTANEOUS  
REAMERS

## TECHNICAL FEATURES

### → SELF-DRILLING SCREWS

The self-drilling extremity of all screws means that penetration is easier, whether the required angle correction is perpendicular or oblique to the bone.



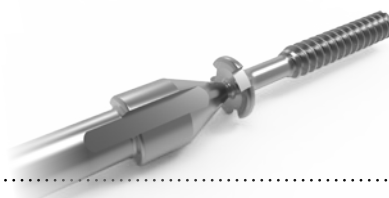
### SELF-COMPRESSIVE SCREWS

#### Cylindro-conical shape

The cylindro-conical shape head allows a non-traumatic insertion of the screw into the cortical bone and optimal compression of the osteotomy or fracture reduction, thus avoiding any risk of splitting the cortical bone.

#### Distal thread

The length and depth of the thread have been optimized to maximize the area of contact with the bone, thus allowing perfect compression between both bone fragments.



### → CANNULATED SCREWS

The 2.25 and 2.6/3.0 mm cannulated screws are guided by 0.8 and 1.0 mm pin. This makes their use easier for minimally invasive percutaneous surgery.



Ø 2,25 mm    Ø 2,6 mm    Ø 3,0 mm

### → NON-CANNULATED SCREWS

2 types of non-cannulated screws :

- Weil screw, Ø2.0mm: self-tapping and self-drilling screws for Weil osteotomy. Also available in snap-off screws.
- Chevron screw, Ø2.8mm : self-tapping and self-drilling screws for Chevron osteotomy.

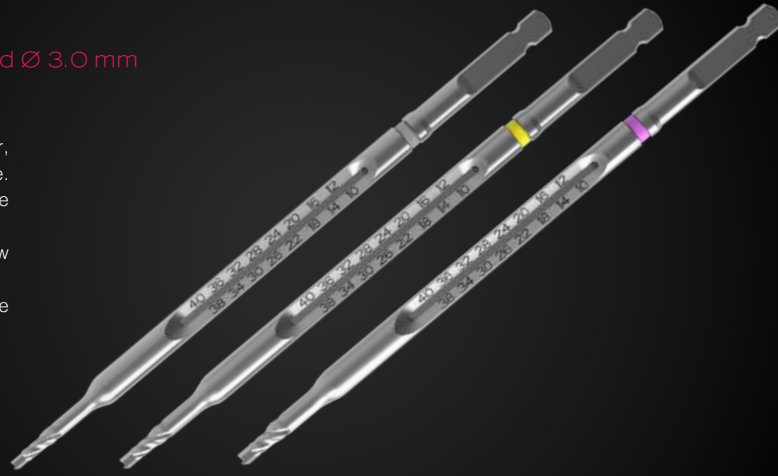
# FOOTMOTION

## ERGONOMICALLY DESIGNED INSTRUMENTS

### → 3-IN-1 INSTRUMENTS Ø 2.25 mm, Ø 2.6 mm and Ø 3.0 mm

The 3-in-1 instrument:

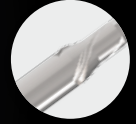
- combines three tools: screwdriver, countersink and depth gauge. Each tool is also available separately,
- is available for each screw diameter,
- is available with connection to the power tool.



Ø 2.25 mm    Ø 2.6 mm    Ø 3.0 mm



a) Depth gauge



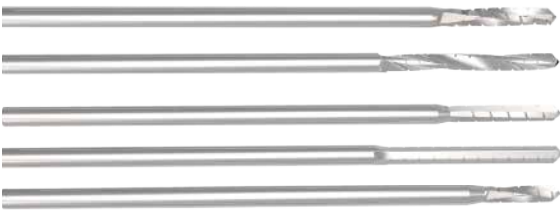
b) Countersink



c) Screwdriver

## PERCUTANEOUS REAMERS

### Ø 2.0 mm/Ø 2.2 mm SHANNON REAMER (straight or helical flute)



### Ø 3.0 mm SHANNON REAMER (straight or helical flute)



### Ø 4.0 mm WEDGE REAMER



### WEDGE CONICAL REAMER



#### APPLICATIONS

Percutaneous reamers are designed for minimally invasive surgery of the forefoot\*:

#### → Cylindrical reamers

- Ø4.0 mm wide and Ø3.0 mm long Shannon reamer: exostosectomy, arthrodesis and shortening osteotomy.

- Ø2.0 mm short and long Shannon reamer: lateral rays osteotomy, distal or proximal osteotomy of the first ray and osteotomy of the first phalanx.

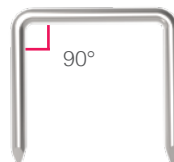
#### → Conical reamers

- Wedge: Distal monocortical osteotomy of the first ray and osteotomy of the first phalanx.

\* These applications are given as examples.

## STAPLES

Two designs are available (straight: 90° and oblique: 26°) with, for each one, two widths (8 and 10 mm).



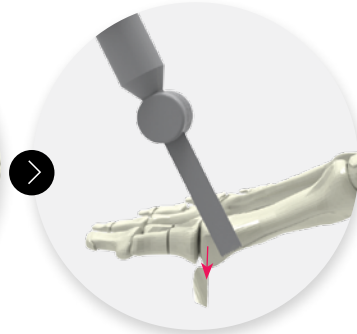
# HALLUX VALGUS SURGICAL TECHNIQUE

## STEP 1

## FIRST METATARSAL OSTEOTOMY (M1)

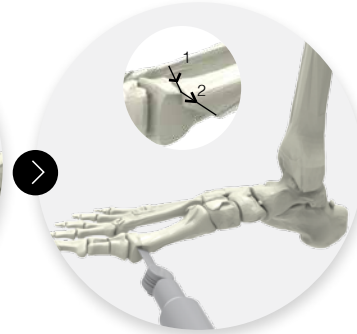


Hallux Valgus



### A. Exostectomy

Using an oscillating saw or a percutaneous reamer, perform metatarsal head resection so as to create a smooth surface.



### B. Chevron Osteotomy ('V-shaped' osteotomy)

1. The first cut is performed distally, dorsally and transversally under visual control, just behind the articular surface, and perpendicularly to the axis of the second metatarsal. The osteotomy depth should be about 5mm.  
2. The second cut is performed toward the plantar diaphysis.



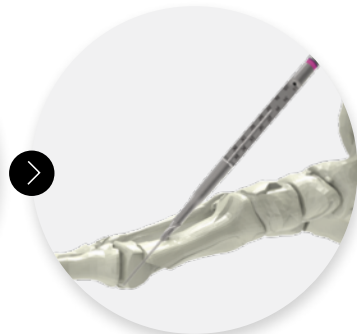
### C. Translation of bone fragment

Displace the distal fragment laterally to correct alignment. Temporary pin fixation can help maintaining the correct alignment.



### D. Positioning the guide pin

Using the appropriate guide, insert the pin corresponding to the chosen screw diameter (Ø0.8mm for Ø2.25mm screws / Ø1.0mm for Ø2.6 and 3.0mm screws – the colour code of the pin holders helps to clearly identify the suitable pin size).



### E. Determining screw lengths

Choose the 3-in-1 instrument (measuring device, countersink and screwdriver\*) corresponding to the screw diameter\*\* and insert it manually onto the guide pin until it touches the bone. Read the screw length on the measuring gauge at the tip of the pin.

\*Each tool is available separately and used with the quick-coupling handle, no power tool is necessary.

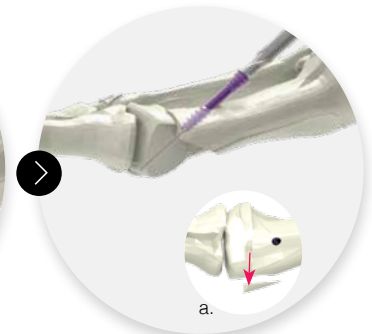
\*\*Each instrument is marked with a silicone colour ring matching the colour code of the used screw.



### F. Manual preparation of the first cortical surface

Prepare the first cortical surface using the countersink tip of the 3-in-1 instrument, so that the screw head can be safely inserted and flush with the cortex.

NB: The preparation of the cortex is critical in order to get an optimized fracture compression



### G. Inserting the screw

The self-drilling property of the screw allows its direct insertion without a pre-drill using the screwdriver tip of the 3-in-1 instrument\*. Finalize the screw insertion manually and check if the screw head is totally inserted. Remove the pins and excise the medial eminence of the dorsal fragment.

\*In case of a hard cortical bone it is recommended to drill before the screw insertion.

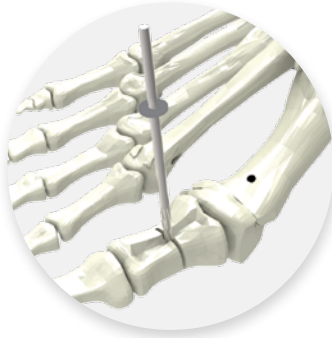


INTERMEDIATE RESULT

# HALLUX VALGUS SURGICAL TECHNIQUE

## STEP 2

## PHALANGEAL OSTEOTOMY (P1)



### H. Varus osteotomy

The Akin osteotomy of P1 is performed using a percutaneous reamer following the habits of the surgeons.



### I. Determining screw length

Stabilize the varus osteotomy with the pin corresponding to the chosen screw diameter. Insert it until lightly touching the second cortical surface. Choose the suitable 3-in-1 instrument to measure the screw length (cf. E).



### J. Manual preparation of the first cortical surface

Prepare the first cortical surface using the countersink tip of the 3-in-1 instrument, so that the screw head can be safely inserted and flush with the cortex.



### K. Inserting the screw

Insert the screw\* of the appropriate length, using the screwdriver tip of the 3-in-1 instrument. Finalize the screw insertion manually and check if the screw head is totally inserted. Remove the pin.

\*In case of a hard cortical bone or a bicortical fixation it is recommended to drill before the screw insertion.

### FINAL RESULT



# WEIL OSTEOTOMY SURGICAL TECHNIQUE

Weil osteotomy surgical technique with a snap off screws (WST2.0Lxx)



1. Perform a first horizontal cut using the oscillating saw starting at the junction of the dorsal cartilage (1).

Then perform the second parallel dorsal cut with the first cut and then remove the bone fragment (2).



2. The reduction is made manually by flexing the toe.



3. Insert the screw with the power tool. As soon as the compression is finished, the screw snaps off.

**NB:** In case of a hard cortical bone it is recommended to prepare the screw insertion using a Ø1.0 mm pin (33.0210.080).

*Caution:* In osteoporotic bone, it may be necessary to provoke release of the shank prior screw head reaches the cortical bone to avoid excessive screwing. Then, use the screwdriver to realize the compression.

### FINAL RESULT





# INSTRUMENTS REFERENCES

FOOTMOTION INSTRUMENTATION*		
Ref	Screw	Description
ANC104	●	1.5 mm quick coupling hexagonal prehensor screwdriver - cannula Ø0.9 mm
ANC105	●	Ø0.8 mm pin guide
ANC106	●	Ø1.7 mm quick coupling drill bit - cannula Ø0.9 mm
ANC108		Length gauge for pin Ø1.0 mm - L 150 mm
ANC125	● ●	Ø1.0 mm pin guide
ANC135	●	Ø2.0 mm quick coupling drill bit - cannula Ø1.1 mm
ANC137	●	Ø2.2 mm quick coupling drill bit - cannula Ø1.1 mm
ANC139	●	2.0 mm quick coupling hexagonal prehensor screwdriver - cannula Ø1.1 mm
ANC140	●	Ø1.7 mm countersink - cannula Ø0.9 mm
ANC141	●	Ø2.0 mm countersink - cannula Ø1.1 mm
ANC142	●	Ø2.2 mm countersink - cannula Ø1.1 mm
ANC145	●	Spatula for Weil screws
ANC148	●	1.8 mm quick coupling hexagonal prehensor screwdriver - cannula Ø1.1 mm
ANC161	●	1.5 mm quick coupling hexagonal screwdriver for Weil screws
ANC166	●	Pins support for Ø0.8 mm pin
ANC167	● ●	Pins support for Ø1.0 mm pin
ANC200	●	Pre-tapering countersink for Weil screws
ANC201	●	1.8 mm quick coupling hexagonal prehensor screwdriver for Chevron screws
ANC202	●	Pre-tapering countersink for Chevron screws
ANC350		Ø4.5 mm AO quick coupling handle - Size 1
ANC699	●	3 in 1 instrument for Ø2.25 mm screws
ANC700	●	3 in 1 instrument for Ø2.6 mm screws
ANC701	●	3 in 1 instrument for Ø3.0 mm screws
ANC770		Screwdriver for Ø2.0 mm Snap-off screws
33.0208.080	●	Pin Ø0.8 L80 mm
33.0210.080	● ●	Pin Ø1.0 L80 mm

OPTIONAL INSTRUMENTS		
Ref	Screw	Description
ANC144	● ● ●	16 cm forceps
ANC177		Holder Staple 90°
ANC178		Holder Staple 26°
ANC220	●	Chevron cutting guide - right side
ANC221	●	Chevron cutting guide - left side
14.33.53		Impactor Staple 90°
14.33.54		Impactor Staple 26°

\* Custom-made kits including only instruments designed for the desired screw diameters can be ordered (see opposite summary table of instruments corresponding to each diameter).

- Instruments for Ø2.25 mm cannulated screws
- Instruments for Ø2.6 mm cannulated screws
- Instruments for Ø3.0 mm cannulated screws
- Instruments for Ø2.0 mm Weil screws
- Instruments for Ø2.8 mm Chevron screws

## ▶ KIT DESCRIPTION



PERCUTANEOUS REAMERS**	
Ref	Description
ANC197	Ø4 mm large Shannon reamer - Helical flute L 16 mm
ANC198	Ø2.2 mm short Shannon reamer - Helical flute L 12 mm
ANC199	Ø4 mm wedge reamer - Flute L 13 mm
ANC203	Ø3 mm wedge reamer - Flute L 13 mm
ANC476	Ø2.0 mm long Shannon reamer - Helical flute L 20 mm
ANC537	Ø2.0 mm short Shannon Isham reamer - Straight flute L 13 mm

PERCUTANEOUS REAMERS**	
Ref	Description
ANC538	Ø2.2 mm long Shannon Isham reamer - Straight flute L 22 mm
ANC599	Ø2.0 mm ultra short Shannon reamer - Helical flute L 8 mm
ANC661	Ø3.0 mm long Shannon reamer - Helical flute L 21 mm
ANC842	Ø3.0 mm long Shannon reamer - Helical flute L 30 mm
ANC843	Ø3.0 mm long Shannon Isham reamer - Straight flute L 30 mm

\*\*The percutaneous reamers are only available on demand. They are supplied in a sterile single use package.

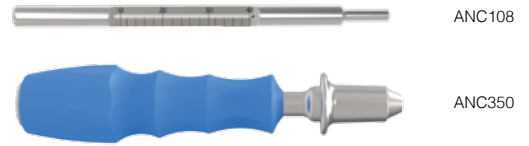
# KIT CONTENT

## → REFERENCES OF ONE-SIZE-FITS-ALL INSTRUMENTS

### For all diameters

Length gauge for pin Ø1.0 mm - L 150 mm	ANC108
Ø4.5 mm AO quick coupling handle - Size 1	ANC350

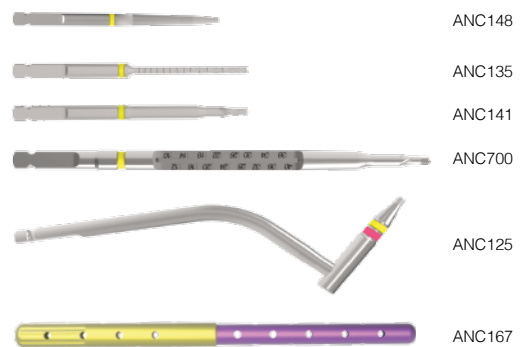
### One-size-fits-all instruments



## → REFERENCES OF INSTRUMENTS FOR CANNULATED SCREWS

	Ø 2.25 mm* Grey anodized	Ø 2.6 mm* Golden anodized	Ø 3.0 mm* Pink anodized
Hexagonal prehensor screwdriver	ANC104	ANC148	ANC139
Drill bit	ANC106	ANC135	ANC137
Countersink	ANC140	ANC141	ANC142
3-in-1 instrument	ANC699	ANC700	ANC701
Pin guide	ANC105	ANC125	
Pins support	ANC166	ANC167	
Pins	33.0208.080	33.0210.080	

### Example: Kit content for Ø2.6 mm screw

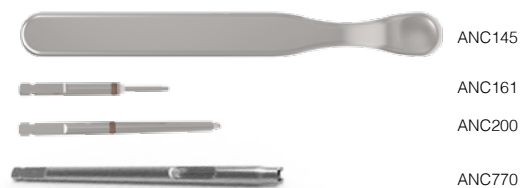


\* Each instrument is marked with a silicone colour ring matching the colour code of the used screw:  
 - Ø2.25 mm: grey ring  
 - Ø2.6 mm: yellow ring  
 - Ø3.0 mm: purple ring

## → REFERENCES OF INSTRUMENTS FOR WEIL AND CHEVRON SCREWS

	Ø2.0 mm* Weil screw Brown anodized	Ø2.0 mm* Snap-off Weil screw Not anodized	Ø2.8 mm* Chevron screw Light blue anodized
Spatula for Weil screws	ANC145		
Hexagonal screwdriver	ANC161		ANC201
Screwdriver for Ø2.0 mm Snap-off screws		ANC770	
Countersink	ANC200		ANC202
Chevron cutting guide			ANC220 (right side) ANC221 (left side)

### Instruments for Weil screw

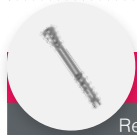


### Instruments for Chevron screw



\* Each instrument is marked with a silicone colour ring matching the colour code of the used screw:  
 - Ø2.0 mm - Weil screw: brown ring  
 - Ø2.8 mm - Chevron screw: blue ring

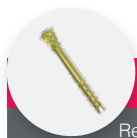
# IMPLANTS REFERENCES



## Ø2.25 MM CANNULATED SCREW\*

Ref.	Description
H0.9HFT2.25L10	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 10 mm
H0.9HFT2.25L12	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 12 mm
H0.9HFT2.25L14	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 14 mm
H0.9HFT2.25L16	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 16 mm
H0.9HFT2.25L18	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 18 mm
H0.9HFT2.25L20	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 20 mm
H0.9HFT2.25L22	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 22 mm
H0.9HFT2.25L24	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 24 mm
H0.9HFT2.25L26	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 26 mm
H0.9HFT2.25L28	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 28 mm
H0.9HFT2.25L30	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 30 mm
H0.9HFT2.25L32	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 32 mm
H0.9HFT2.25L34	Self-drilling self-compressive screw - Ø2.25 - cannulated Ø0.9 mm - L 34 mm

\* Grey anodized.



## Ø2.6 MM CANNULATED SCREW\*

Ref.	Description
H1.1HFT2.6L10	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 10 mm
H1.1HFT2.6L12	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 12 mm
H1.1HFT2.6L14	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 14 mm
H1.1HFT2.6L16	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 16 mm
H1.1HFT2.6L18	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 18 mm
H1.1HFT2.6L20	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 20 mm
H1.1HFT2.6L22	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 22 mm
H1.1HFT2.6L24	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 24 mm
H1.1HFT2.6L26	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 26 mm
H1.1HFT2.6L28	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 28 mm
H1.1HFT2.6L30	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 30 mm
H1.1HFT2.6L32	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 32 mm
H1.1HFT2.6L34	Self-drilling self-compressive screw - Ø2.6 mm - cannulated Ø1.1 mm - L 34 mm

\* Golden anodized.



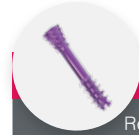
## Ø 2.8 MM CHEVRON SCREW\*

Ref.	Description
WT2.8L16	Chevron screw - Ø2.8 mm - L16 mm
WT2.8L18	Chevron screw - Ø2.8 mm - L18 mm
WT2.8L20	Chevron screw - Ø2.8 mm - L20 mm
WT2.8L22	Chevron screw - Ø2.8 mm - L22 mm
WT2.8L24	Chevron screw - Ø2.8 mm - L24 mm
WT2.8L26	Chevron screw - Ø2.8 mm - L26 mm
WT2.8L28	Chevron screw - Ø2.8 mm - L28 mm

\* Blue anodized.

### Remark :

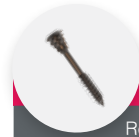
Please note that all implants are also available in sterile packaging.  
The Sosafe tube packaging is handy and easy to use.  
An 'ST' code is added at the end of the reference.  
Ex : «H1.1HFT2.6L12-ST»



## Ø3.0 MM CANNULATED SCREWS\*

Ref.	Description
H1.1HFT3.0L10	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 10 mm
H1.1HFT3.0L12	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 12 mm
H1.1HFT3.0L14	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 14 mm
H1.1HFT3.0L16	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 16 mm
H1.1HFT3.0L18	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 18 mm
H1.1HFT3.0L20	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 20 mm
H1.1HFT3.0L22	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 22 mm
H1.1HFT3.0L24	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 24 mm
H1.1HFT3.0L26	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 26 mm
H1.1HFT3.0L28	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 28 mm
H1.1HFT3.0L30	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 30 mm
H1.1HFT3.0L32	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 32 mm
H1.1HFT3.0L34	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 34 mm
H1.1HFT3.0L36	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 36 mm
H1.1HFT3.0L38	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 38 mm
H1.1HFT3.0L40	Self-drilling self-compressive screw - Ø3.0 mm - cannulated Ø1.1 mm - L 40 mm

\* Purple anodized.



## Ø2.0 MM WEIL SCREW\*

Ref.	Description
WT2.0L08	Weil screw - Ø2.0 mm - L08 mm
WT2.0L09	Weil screw - Ø2.0 mm - L 09 mm
WT2.0L10	Weil screw - Ø2.0 mm - L 10 mm
WT2.0L11	Weil screw - Ø2.0 mm - L 11 mm
WT2.0L12	Weil screw - Ø2.0 mm - L 12 mm
WT2.0L13	Weil screw - Ø2.0 mm - L 13 mm
WT2.0L14	Weil screw - Ø2.0 mm - L 14 mm
WT2.0L15	Weil screw - Ø2.0 mm - L 15 mm

\* Brown anodized.



## Ø2.0 MM SNAP-OFF WEIL SCREW\*

Ref.	Description
WST2.0L11-ST	Snap-Off Weil screw - Ø2.0 mm - L 11 mm - STERILE
WST2.0L12-ST	Snap-Off Weil screw - Ø2.0 mm - L 12 mm - STERILE
WST2.0L13-ST	Snap-Off Weil screw - Ø2.0 mm - L 13 mm - STERILE
WST2.0L14-ST	Snap-Off Weil screw - Ø2.0 mm - L 14 mm - STERILE
WST2.0L15-ST	Snap-Off Weil screw - Ø2.0 mm - L 15 mm - STERILE

\* Not anodized.

## OPTIONAL IMPLANTS : STAPLES

Ref.	Description
80	Staple 90° - width 8 mm
81	Staple 90° - width 10 mm
82	Staple 26° - width 8 mm
83	Staple 26° - width 10 mm

