



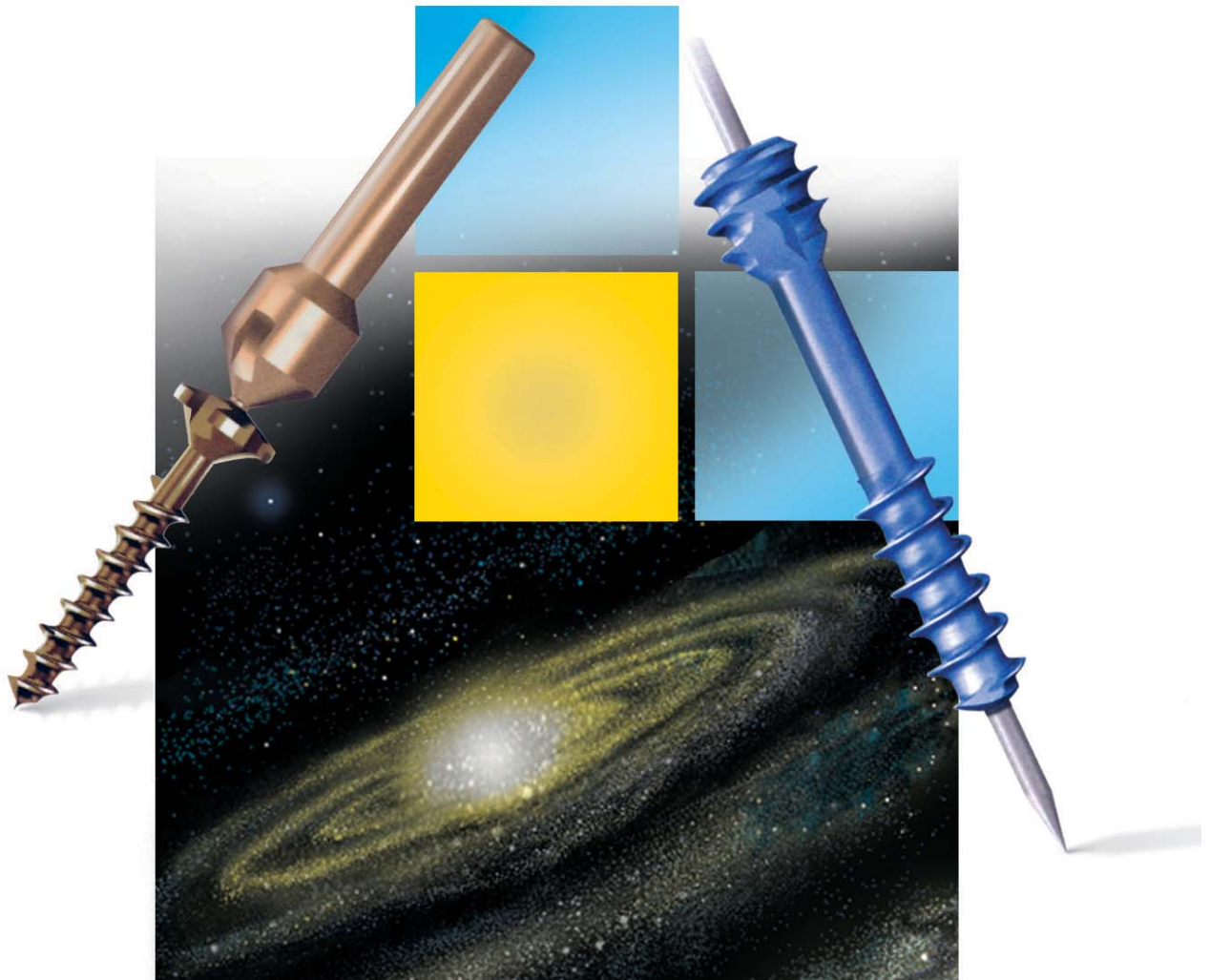
SNAP OFF SCREW SYSTEM

Self-drilling and Self-tapping

HBS COMPRESSION SCREW SYSTEM

Double threading for optimal compression

Scaphoid Bone Screws TITAN



HAND AND FOOT SURGERY



TREU - INSTRUMENTE

INSTRUMENTS



Recommended Sterilization Container for Set
Cat. No. T4700 (are not include in the Set)
Cat. No. 15-2162 Sterilization Container 310x190x65 mm,
Lid and Bottom perforated



Cat. No. T4701
Graphic Case (Tray in Steel) for Set Cat. No. T4701

INSTRUMENT / IMPLANT SET

Cat. No. T4700 HBS and Snap off Screw
Implant and Instrument Set



IMPLANTS

For Cat. No. see page 6!

Scaphoid bone screws in Titanium DIN ISO 5832-3
HBS bone screw system

Dia. 4.0 mm  Dia. 3.0 mm

For Cat. No. see page 9!

Self-drilling and tapping Snap off Screw Dia. 2.0 mm
in Titanium DIN ISO 5832-3 (weil osteotomy)

 Dia. 2.0 mm

Listing for Set Cat. No. T4700

Cat. No.: Instruments for HBS -Snap off Screw System	Pcs.:
4-739 HBS - Guide Wire Dia. 1.0 mm x Length 80 mm	-4-
4-740 HBS - Cannulated Drill Bit Dia. 2.1 mm / 3.3 mm	-1-
4-741 HBS - Cannulated Drill Bit Dia. 2.1 mm / 3.3 mm	-1-
4-742 HBS - Screw Length Gauge	-1-
4-743 HBS - Measuring Sleeve for Guide Wire	-1-
4-744 HBS - Cannulated Screw Driver, Hexagonal 2.0 mm	-1-
4-745 HBS - Screwdriver for Snap off Screws	-1-
4-184 Screw Forceps	-1-
Cat. No.: Dia. 3.0 mm Ti. HBS Screws, Cannulated	Pcs.:
4-712 Length 12 mm, Titanium	-4-
4-714 Length 14 mm, Titanium	-4-
4-716 Length 16 mm, Titanium	-4-
4-718 Length 18 mm, Titanium	-4-
4-720 Length 20 mm, Titanium	-4-
4-722 Length 22 mm, Titanium	-4-
4-724 Length 24 mm, Titanium	-4-
4-726 Length 26 mm, Titanium	-4-
4-728 Length 28 mm, Titanium	-4-
4-730 Length 30 mm, Titanium	-4-
Cat. No.: Dia. 2.0 mm Ti. Snap off Screws	Pcs.:
4-760 Length 11 mm, Titanium	-4-
4-762 Length 12 mm, Titanium	-4-
4-764 Length 13 mm, Titanium	-4-
4-766 Length 14 mm, Titanium	-4-



INSTRUMENTS



Cat. No. 4-739 HBS- Guide Wire Dia. 1.0 mm x Length 80 mm



Cat. No. 4-740 HBS- Cannulated Drill Bit Dia. 2.1 mm/3.3 mm



Cat. No. 4-741 HBS- Cannulated Drill Bit Dia. 2.1 mm



Cat. No. 4-742 HBS- Screw Length Gauge



Cat. No. 4-743 HBS- Measuring Sleeve for Guide Wire 4-739



Cat. No. 4-744 HBS- Cannulated Screw Driver, Hex. 2.0 mm



Cat. No. 4-745 HBS- Screw Driver for Snap off Screws



Cat. No. 4-184 Screw Forceps



9-540 Verbrügge Bone Holding Forceps 175 mm



Cat. No. 13-3250 Inge 16.0 cm



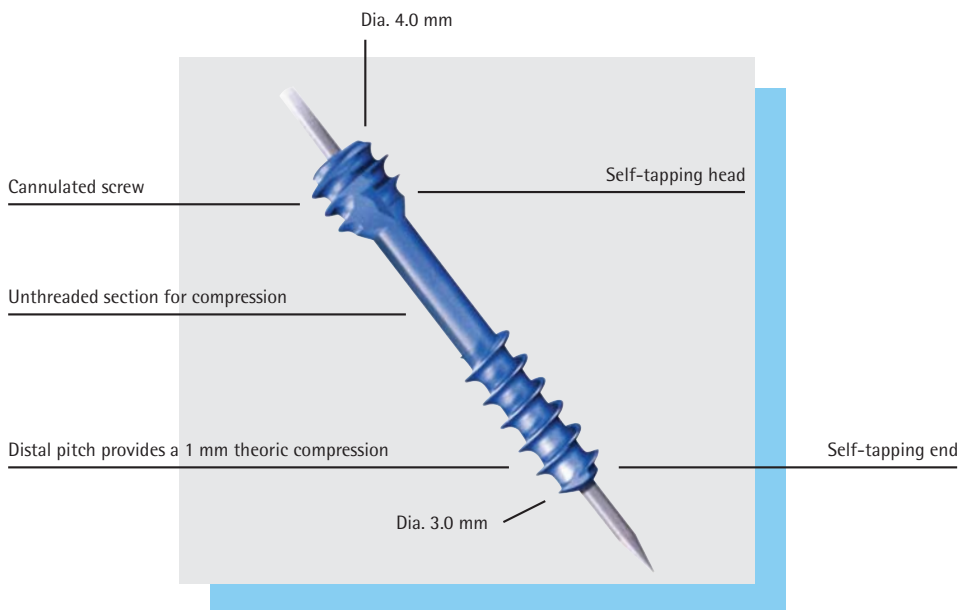
DOUBLE THREADING FOR OPTIMAL COMPRESSION

Design rationale & Main features

The Compression Screw is easy to insert (over a guide wire) and provides efficient compression (through two separate threadings with different pitches, and an intermediate unthreaded section), thus ensuring quick, dependable internal fixation.

INDICATIONS

- Distal & proximal metatarsal osteotomies
- SCARF osteotomy
- Uni and biocortical internal fixation (ex.: scaphoid)
- Small bone fusion



Cat. No.:	Total Length	Cat. No.:	Total Length
	Cannulated		non Cannulated
4-712	12 mm	4-713	12 mm
4-714	14 mm	4-715	14 mm
4-716	16 mm	4-717	16 mm
4-718	18 mm	4-719	18 mm
4-720	20 mm	4-721	20 mm
4-722	22 mm	4-723	22 mm
4-724	24 mm	4-725	24 mm
4-726	26 mm	4-727	26 mm
4-728	28 mm	4-729	28 mm
4-730	30 mm	4-731	30 mm



SELF-DRILLING & SELF-TAPPING

Design rationale & Main features

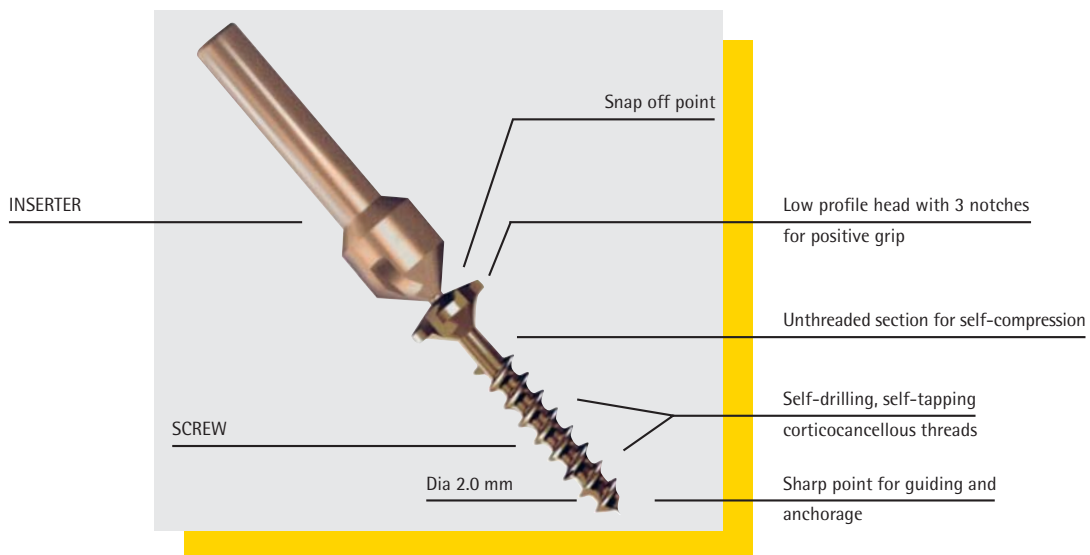
The Snap off Screw provides superior fixation: it saves time (no need for a pilot drill hole), and it is easy to use, safe (clean break), accurate (guide point), and efficient (self-compression).

The Snap off Screw consists of two parts: implantable screw which provides firm anchorage inserter which allows powered insertion.

INDICATIONS

- Weil osteotomy
- Unicortical internal fixation

4-760 Snap off Screw Ø 2 mm Length 11 mm
4-762 Snap off Screw Ø 2 mm Length 12 mm
4-764 Snap off Screw Ø 2 mm Length 13 mm
4-766 Snap off Screw Ø 2 mm Length 14 mm



SURGICAL TECHNIQUE (WEIL OSTEOTOMY)

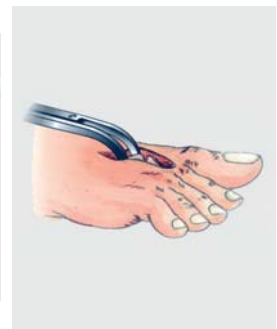
EXPOSURE

The procedure is performed using a dorsal intermetatarsal and/or transverse approach.

After the two extensor muscles have been separated:

- Hohmann retractors are placed on both metatarsal sides.
- The metatarsophalangeal joint is dislocated between the extensor digitorum longus and the extensor digitorum brevis.
- A Hinge spreader is inserted to protect the extensor muscles and afford good exposure for the osteotomy.

1





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OSTEOTOMY

Osteotomy is performed using an oscillating saw:

- Make a 3 cm (approximately) horizontal cut parallel to the sole, to increase the interfragmental contact area and thus enhance healing.
- Osteotomy results in spontaneous recession of the metatarsal head, which relieves tension on soft tissue.

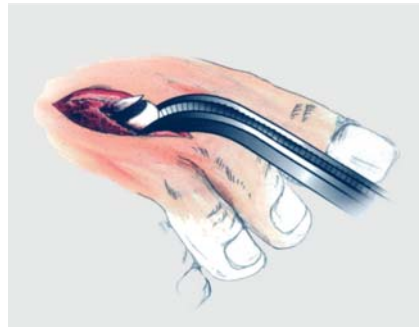
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TRANSLATION

- Grasp the metatarsal head with Kocher forceps
- Use the „Index Plus Minus“ formula and the Lelièvre Curve to determine the amount of recession of the metatarsal head.
- The metatarsal head must be held in the correct position for subsequent screw fixation.

3



INSERTION OF THE SNAP OFF SCREW

- Connect the screw inserter to the power drill, and drive the screw into the metatarsal.
- The inserter snaps off as soon as the screw head makes contact with the dorsal cortex.
- If necessary, insertion of the screw can be completed with the special screwdriver (with 3 notches).

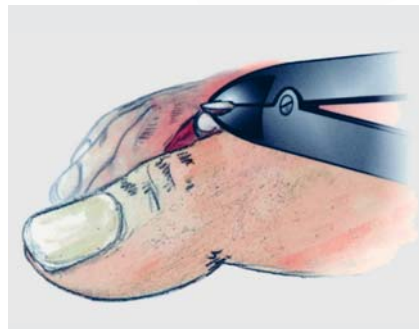
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RESECTION OF THE BONE PEAK

- Bone peak is resected using Liston pliers. This allows deep flexion of the metatarsophalangeal joint.
- It may be necessary to perform a Z-shaped release (Green technique) of the extensor muscles.

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