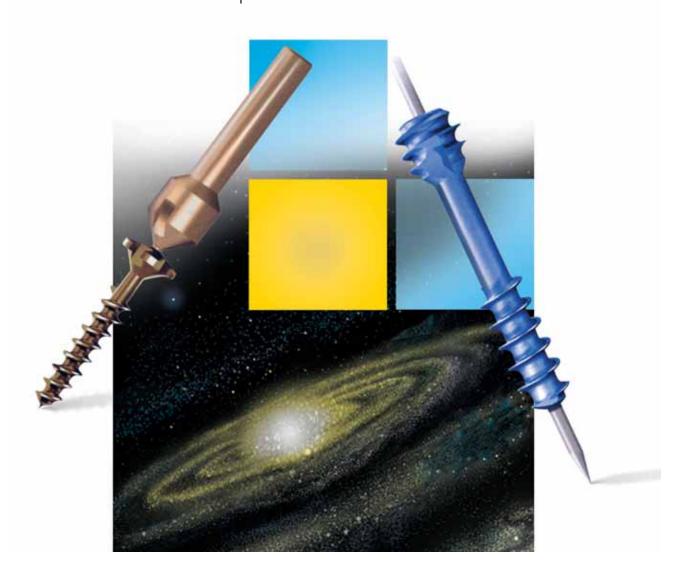


SNAP OFF SCREW SYSTEM

Self-drilling and Self-tapping

HBS COMPRESSION SCREW SYSTEM

Double threading for optimal compression Scaphoid Bone Screws TITAN



HAND AND FOOT SURGERY



Cat. No. T4701

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

INSTRUMENT/IMPLANT SET

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

HILLIAM WARE

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

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

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		
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

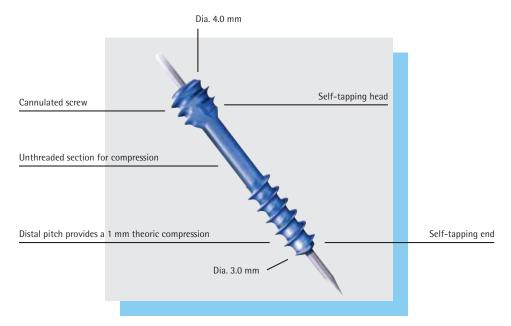
DOUBLE THREADING FOR OPTIMAL COMPRESSION

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

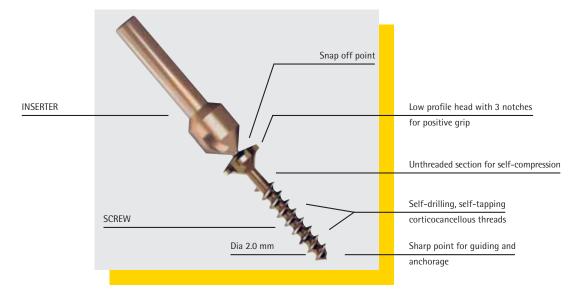
Design rationale & Main features

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 brouin.
- A Hinge spreader is inserted to protect the extensor muscles and afford good exposure for the osteotomy.





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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.

2



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



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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).

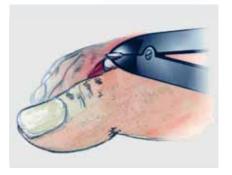
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RESECTION OF THE BONE PEAK

- 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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