NexFix™ snap-off screw

SELF TAPPING FIXATION DEVICE

TORNIER

self-tapping fixation

The NexFix™ Snap-Off Screw (NSO) System features a self-drilling and self-tapping screw system for fixation of fractures, fusions and osteotomies for the extremity surgeon. The long universal driver shafts are designed to snap off below the head of the screw producing a very low profile surface thus minimizing soft tissue irritation.

The NexFix Snap-off Screw Advantage

Design Feature	Advantage
Long Shafts	Designed to accommodate manual and power wire drivers
Snap Off Capability	Shaft snaps off below the head of the screw minimizing soft tissue disruptions
Self Measuring Clamp	Unique compression clamp measures screw length while holding osteotomy in desired orientation
Self Retaining Screwdriver	Allows for easy screw pick up and optimal control
Weil Procedure Specific Instrumentation	Clamp and bone pusher specific to Weil Procedure included in set

Surgical Technique

Through an intermetatarsal dorsal incision, perform a deep dissection to the metatarso-phalangeal joint between the extensor tendons and extending the incision distally to allow adequate access for the saw.

1 Osteotomy Preparation

The osteotomy is performed with an oscillating saw and should be made as parallel to the sole as possible, approximately 25-40 degrees. The cut generally extends 2-3 cm in length. Cuts should be adapted to the condition of the forefoot in order to avoid too short of a cut in pes cavus and too long of a cut in pes planus. The cut is initiated in the articular cartilage of the metatarsal head, approximately 2 mm from the dorsal border.

5 Screw Head Removal

The holding device of the NexFix Snap-Off screw will break off once the screw head comes into contact with the dorsal cortex or sooner. Stop advancing the NexFix Snap-Off screw if cortical bone is reached and the holding device has not broken off. If necessary, the screw head can be separated from the holding device by cutting the holding device flush with the head.

Weil Osteotomy Technique

Pre-operative x-ray examination: On the radiograph, mark the proposed length of metatarsal shortening. Use the x-ray template to measure the amount of shortening. The instrument set contains a calibrated bone pusher instrument that corresponds with the template to accurately determine the amount of metatarsal shortening.

2 Metatarsal Positioning

Immediately following the osteotomy, utilize the calibrated bone pusher instrument to move the metatarsal head proximally into the desired position. The pusher instrument is scored and may be used to measure how much shortening is achieved.

3 Screw Size Measurement

Use the compression clamp to hold the osteotomy in place and to determine the proper screw length. Grasp the metatarsal head with the clamp and lock securely. The screw size is indicated on the ratchet of the clamp.

4 Screw Insertion

Place the corresponding length NexFix Snap-Off screw into a power drill or into the self-retaining hand driver, and advance the NexFix Snap-Off screw while holding the metatarsal head in the proper orientation. The NexFix Snap-Off screw is placed 6-8 mm proximal to the edge of the osteotomy. No preparation of the dorsal bone is necessary as the NexFix Snap-Off screw is self tapping and self drilling. Pre-drilling with a K-wire may be advised to facilitate insertion into dense bone.

6 Screw Head Advancement

The screw head can be advanced with the hand driver to seat the screw flush with the surrounding bone. Once the NexFix Snap-Off screw is secure, check the plantar aspect of the metatarsal head to ensure that the screw does not penetrate into the joint.

7 Reshape Metatarsal Head

The distal and dorsal residual of the metatarsal shaft may then be removed with a sagittal saw or bone rongeurs to restore the curvature of the metatarsal head.

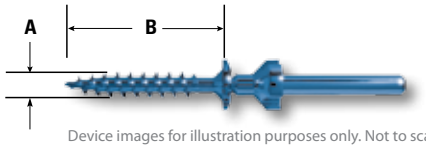
This surgical procedure is furnished for information only. Tornier does not recommend a particular surgical procedure. Proper surgical procedures and techniques are necessarily the responsibility of the medical professional. Each surgeon must evaluate the appropriateness of the procedure used based on personal medical training and experience.

Ordering Information

	A	B	CAT #
NexFix Snap-Off Screw			
●	2.0 mm	11 mm	NSO-2011
●	2.0 mm	12 mm	NSO-2012
●	2.0 mm	13 mm	NSO-2013
●	2.7 mm	13 mm	NSO-2713
●	2.7 mm	15 mm	NSO-2715
●	2.7 mm	17 mm	NSO-2717

NexFix Snap-Off System Implant & Instrument Set	NSO-SN01

NexFix™ Snap-Off Screw Sizing



Device images for illustration purposes only. Not to scale.

Tornier is pleased to bring you a comprehensive suite of lower extremity products.


NexFix™ Compression Pin


RFS® Screw and Pin


NexFix™ Compression Screw


StayFuse™


Futura™ LMP Implant

TORNIER

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Prior to using any Tornier device, please review the instructions for use and surgical technique for a complete listing of indications, contraindications, warnings, precautions, potential adverse events, and directions for use. Part # 19-5063