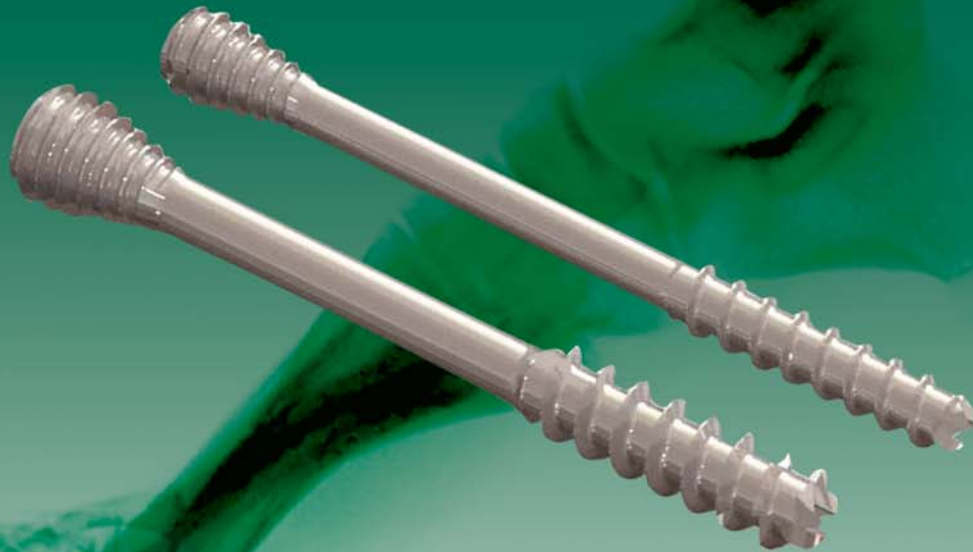


S U R G I C A L T E C H N I Q U E

SBi
SMALL BONE INNOVATIONS, INC.

- 3.0mm and 4.0mm Stainless Steel Screws
- Headless Screw Design
- Self Drilling, Self Tapping



AutoFIX™

3.0 / 4.0 Cannulated Compression Screw
Fixation for Small Bone Osteotomies,
Non Unions and Fractures

PROCEDURE

- 1 Reduce the fracture by means of: open reduction, external indirect manipulation, or by means of K-wire (“joy stick”) manipulation. Provide surgical exposure for implant.
- 2 Use the central hole of the multi-position wire guide (908-0020) to place a guide wire (451-0016) down the center of the intended implant path under fluoroscopic guidance.

FIGURE 1

The placement and positioning of the guide wire is crucial. The tip of the wire should just engage the subchondral bone at the far cortex of the fracture being repaired and the implant should be placed perpendicular to the fracture line.

Place an additional guide wire into one of the 6 adjacent parallel path holes located around the circumference of the guide. This second wire helps to stabilize the fragment and prevents the fragment from spinning when the self threading implant engages the near cortex of the fragment. After the second wire is placed, remove the multi-position wire guide. Deflect the second wire as necessary.

- 3 Place the depth gauge (909-0000) over the guide wire and note the length of the implant. The surgeon should deduct 2mm from the measured length to assure complete burial of the implant head. **FIGURE 2**

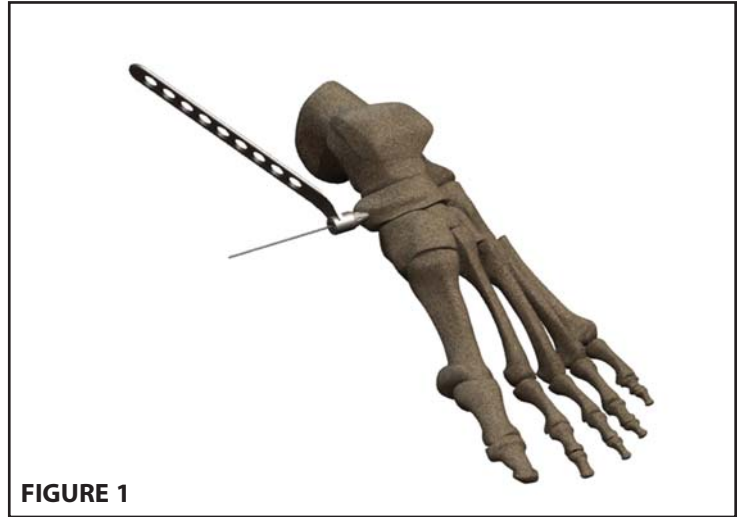


FIGURE 1

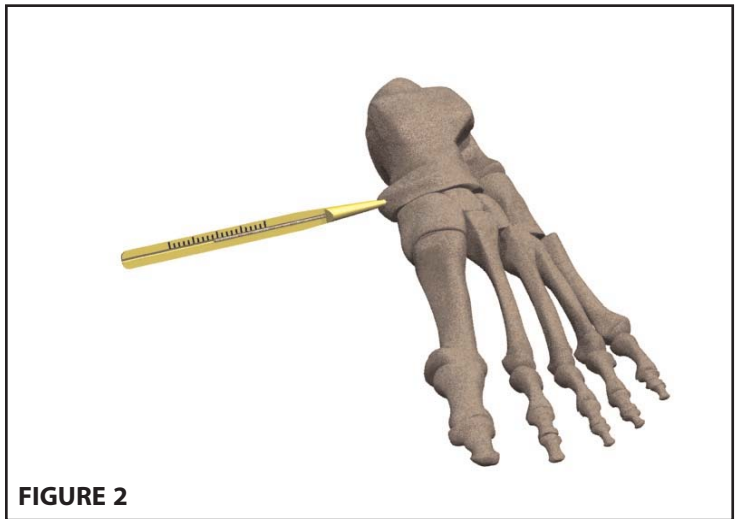


FIGURE 2

PROCEDURE

- 4 Insert the appropriate cannulated countersink (907-0013 for the 3.0mm/907-0012 for the 4.0mm) into the quick change cannulated handle (903-1006) and place the assembly over the centrally located guide wire.

Countersink the proximal cortex to facilitate insertion of the implant. **FIGURE 3**

Remove the cannulated countersink and insert the cannulated T10 driver blade (901-0011) into the quick change cannulated handle (903-1006). Use the **StickFIT™** driver blade to remove appropriate implant from the screw block and verify the size with the built in measuring gauge.

- 5 Place the **AutoFIX™** screw over central guide wire and advance the implant in a clockwise manner. Although these implants are self-drilling, some downward pressure at the initial insertion is required. Once the trailing threads contact the near cortex each full revolution of the screwdriver handle compress a 3.0mm implant .6mm and a 4.0mm implant .8mm. Use X-ray guidance to prevent over insertion of implant. **FIGURE 4**

- 6 Remove guide wires and verify that implant is flush with or below the surface of the cortical bone or articular cartilage.

TIPS:

- The general rule for screw use as applied to internal fixation is that fragments must be a minimum of 3 times the diameter of the implant head (12 mm for 3.0mm implant and 16 mm for 4.0mm implant.)
- It is possible to use more than one implant in a given fracture. Two screws will prevent fragment rotation, as well as provide additional strength and holding ability but it is up to the individual surgeon's discretion to maintain proper distances between implants.
- A solid modified T10 driver (901-0011) is provided to facilitate screw removal.

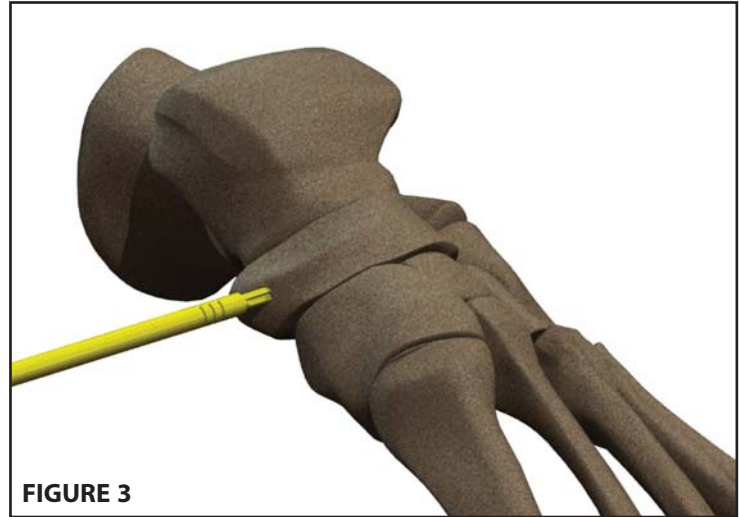


FIGURE 3

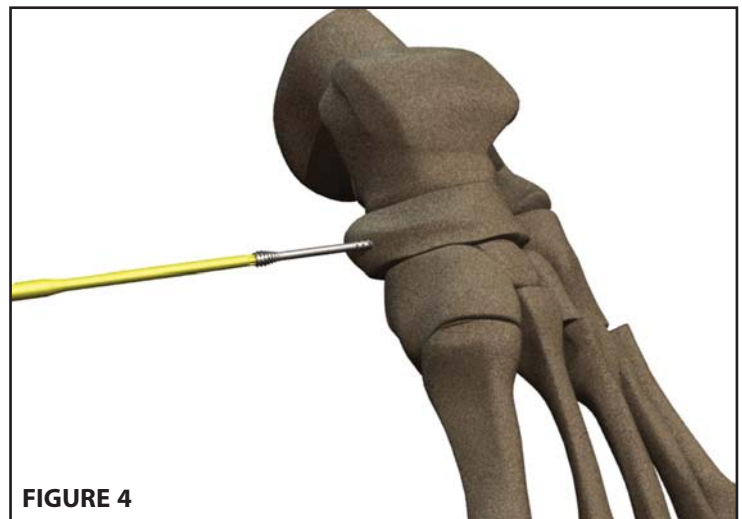


FIGURE 4

“ USA Federal Law restricts sale of these devices to sale to or on the order of a physician.”

Headless Screw Design Optimizes use in Articular Surfaces of Joints and Areas of Minimal Soft Tissue Coverage

- **Stainless Steel for strong fixation in bones of the foot**
- **Opposing buttress thread design to optimize compression toward fractures/osteotomy**
- **Self drilling, self tapping screws for easy insertion**
- **Stickfit screw head design to provide easy/ secure handling in the OR**
- **Modified T10 drive mechanism reduces stripping of screws as compared to hex drive mechanisms**
- **Simple, economic one-piece implant design**



AUTOFIX 3.0MM /4.0MM CANNULATED SCREWS

Part No.	Screw Sizes	Part No.	Screw Sizes
141-3012	3.0mm x 12mm	141-4020	4.0mm x 20mm
141-3014	3.0mm x 14mm	141-4022	4.0mm x 22mm
141-3016	3.0mm x 16mm	141-4024	4.0mm x 24mm
141-3018	3.0mm x 18mm	141-4026	4.0mm x 26mm
141-3020	3.0mm x 20mm	141-4028	4.0mm x 28mm
141-3022	3.0mm x 22mm	141-4030	4.0mm x 30mm
141-3024	3.0mm x 24mm	141-4032	4.0mm x 32mm
141-3026	3.0mm x 26mm	141-4034	4.0mm x 34mm
141-3028	3.0mm x 28mm	141-4036	4.0mm x 36mm
141-3030	3.0mm x 30mm	141-4038	4.0mm x 38mm
141-3032	3.0mm x 32mm	141-4040	4.0mm x 40mm
141-3034	3.0mm x 34mm	141-4042	4.0mm x 42mm
141-3036	3.0mm x 36mm	141-4044	4.0mm x 44mm
141-3038	3.0mm x 38mm	141-4046	4.0mm x 46mm
141-3040	3.0mm x 40mm	141-4048	4.0mm x 48mm
		141-4050	4.0mm x 50mm
		451-0016	K-wire 1x110mm

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