

# pedi**tst**

## Introduction

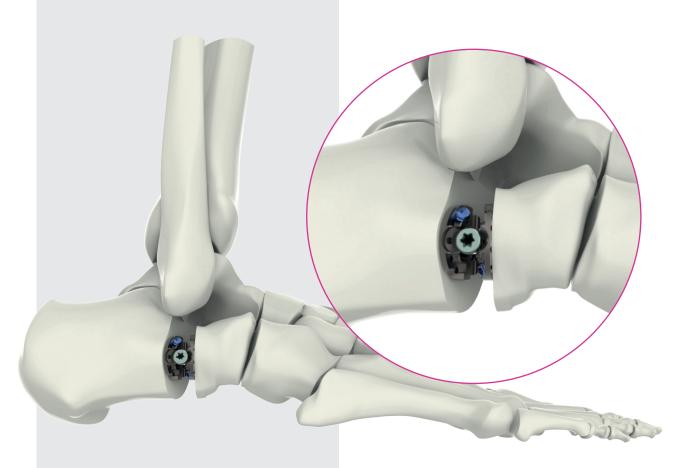
Planovalgus foot is a major source of disability in children with cerebral palsy (CP). Planovalgus foot is clinically associated with depression of the medial arch, walking disabilities, callosities and ulcerations, and pain. Shell Calcaneus Implant is developed for the treatment of planovalgus foot deformity in CP by calcaneal lengthening. The Plate can be inserted into the osteotomy gap based on the amount of talonavicular coverage. Optionally, Locking Peg Screws can be used for the fixation of the implant.

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#### Indications

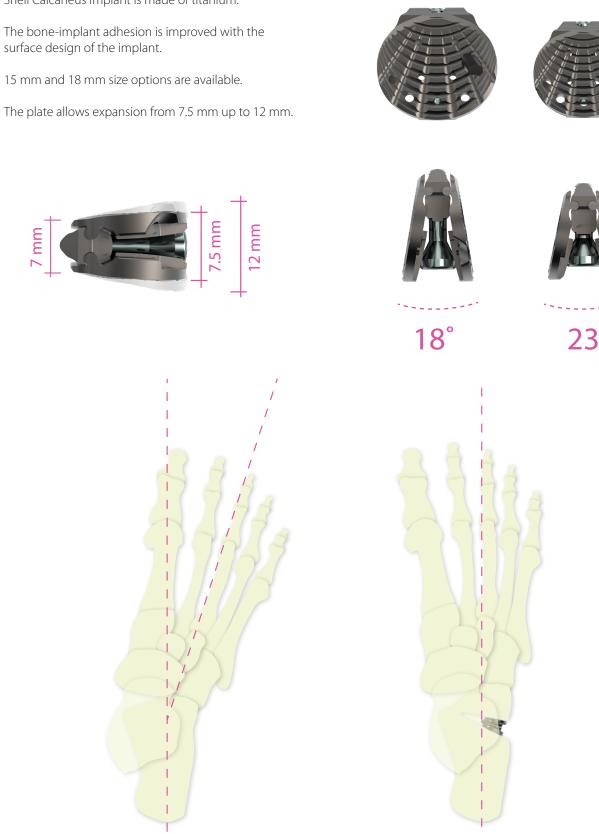
Pes planovalgus deformity
Hindfoot valgus
Midfoot plantar flexion
Collapsed medial longitudinal arc
Forefoot supination



### Features

Shell Calcaneus Implant is made of titanium.

The bone-implant adhesion is improved with the surface design of the implant.



18 mm

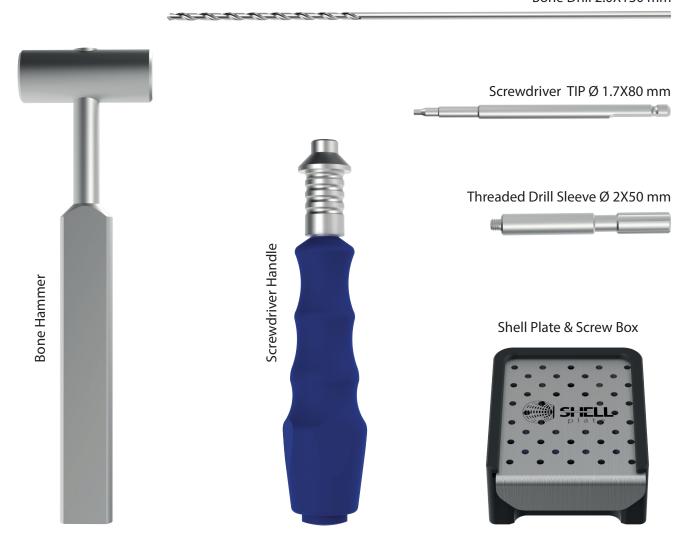
15 mm

### Instruments



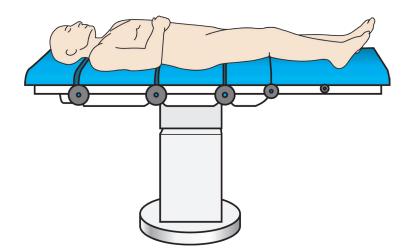
Screwdriver Star Tip T20

#### Bone Drill 2.0X130 mm



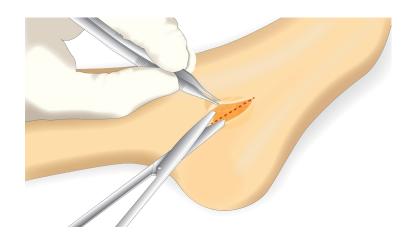
## Surgical Technique

The patient is placed in a supine position.

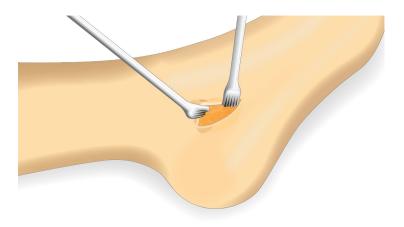


A skin incision of 3-4 cm is made, extending from the distal of the lateral malleolus to the proximal of the calcaneocuboid joint.

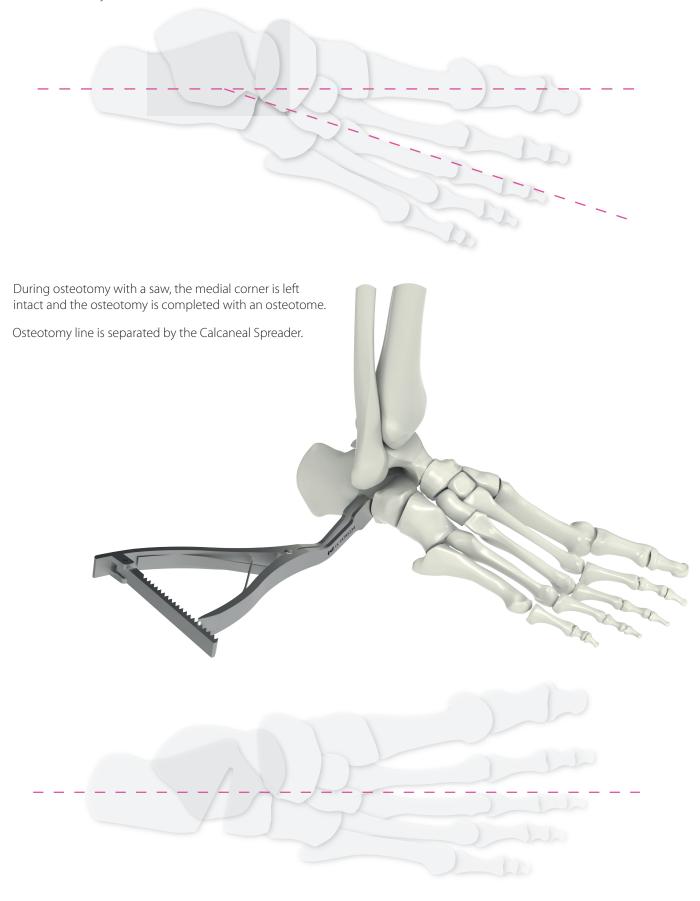
After the soft tissue is passed through, the periosteum covering the lateral corner of the calcaneus is reached (peroneal muscles must be preserved at this stage).



Retractors are placed by exposing the lateral surface of the calcaneus.



Transverse calcaneal osteotomy is performed from the neck of the calcaneus starting from 10-20 mm proximal to the calcaneocuboid joint.



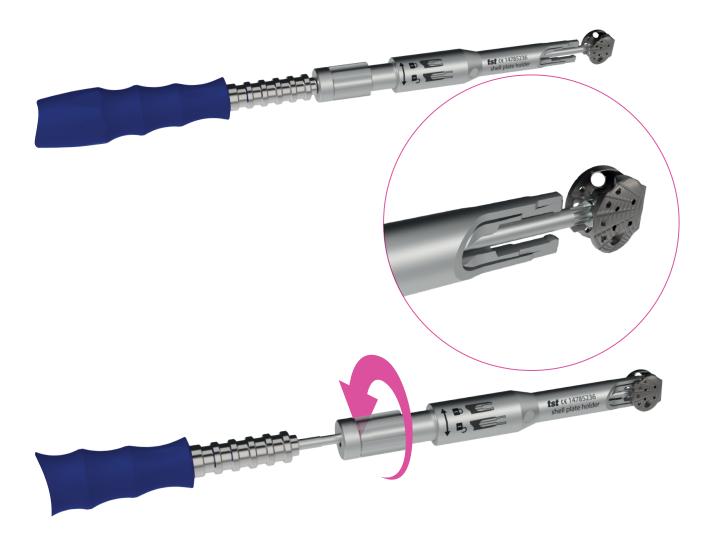
The adequacy of the talonavicular coverage is confirmed by the anteroposterior fluoroscopy.



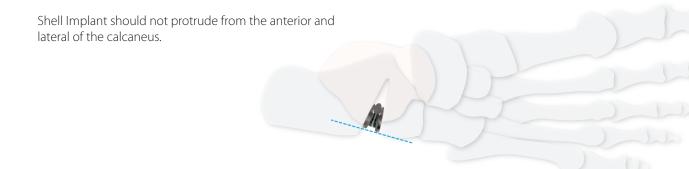
Appropriate width Shell Implant is chosen.

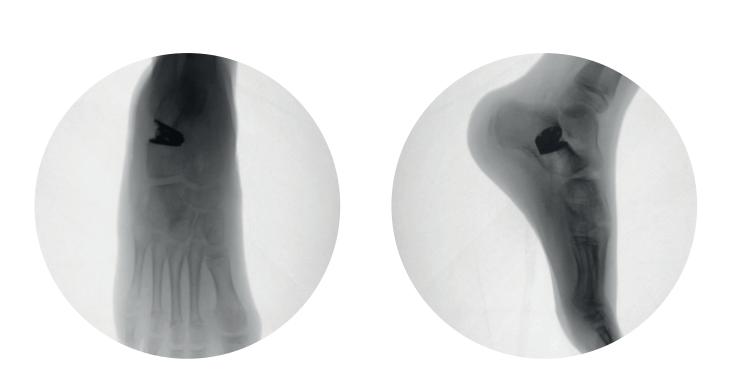
First, the Star Tip Screwdriver is attached to the screw of the shell implant by passing through the Shell Plate Holder.

Secondly, the Shell Plate Holder is mounted to the Shell Implant by tightening the upper part of the plate holder.



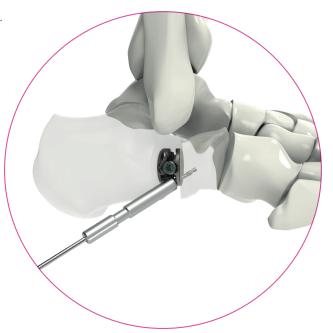




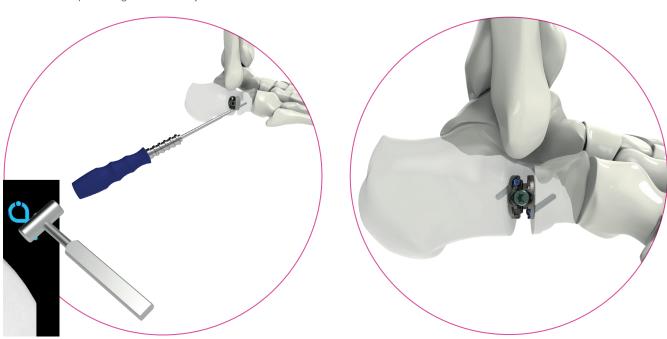


If necessary, it can be fixed to bone with two locking peg screws.

Before inserting the locking peg screw, the relevant site is drilled with the Bone Drill 2.0X130 mm through the Threaded Drill Sleeve 2.5 X250 mm.



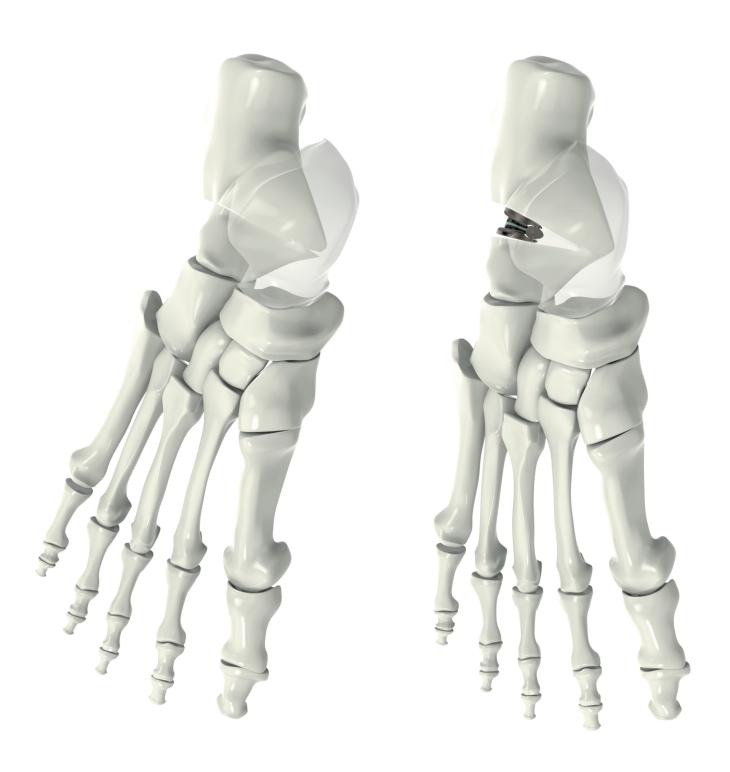
Locking Peg Screw is inserted with Screwdriver TIP  $\emptyset$  1.7X80 mm by hammering until threaded part of the screw. The threaded part is tightened finally.



It is closed in accordance with the skin and subcutaneous procedure.

A short leg cast is made in neutral dorsoflexion of the ankle.

Particular care should be taken to avoid plaster pressure on the ankle and heel during the casting.



pre-op



## | Set Detail

no	code	ubb	description	qty
1	00000305000	8680858442225	SHELL PLATE & SCREW BOX	1
	31627010015	8680858441136	SHELL PLATE 15 MM	2
	31627010012	8680858441129	SHELL PLATE 18 MM	2
	24627142027	8699931010671	SMALL HEAD LOCK.PEG SCREW TI 2.7X14 MM	4
	24627162027	8699931010688	SMALL HEAD LOCK.PEG SCREW TI 2.7X16 MM	4
	24627182027	8699931010695	SMALL HEAD LOCK.PEG SCREW TI 2.7X18 MM	4
	24627202027	8699931010701	SMALL HEAD LOCK.PEG SCREW TI 2.7X20 MM	4
2	03161700020	8680858441150	SCREWDRIVER STAR TIP T20	1
_				1
3	03161700001	8680858441143	SHELL PLATE HOLDER	ı
4	03161700002	8680858442249	CALCANEAL SPREADER	1
5	01193003009	8699931028133	BONE HAMMER - SMALL	1
6	02000480017	8699931029253	SCREW DRIVER QUICK HEX. TIP Ø 1.7X80 MM	2
7	02010101001	8698673441187	SCREWDRIVER HANDLE SMALL	1
8	22310130020	8698673450400	BONE DRILL 2.0X130 MM	2
9	02005805020	8680858425730	THREADED DRILL SLEEVE Ø 2X50 MM FOR SMALL HEAD SCR	2
	00235235070	8680858451883	CONTAINER 235X235X70 MM	1

