

# airlock<sup>®</sup>

Plating System

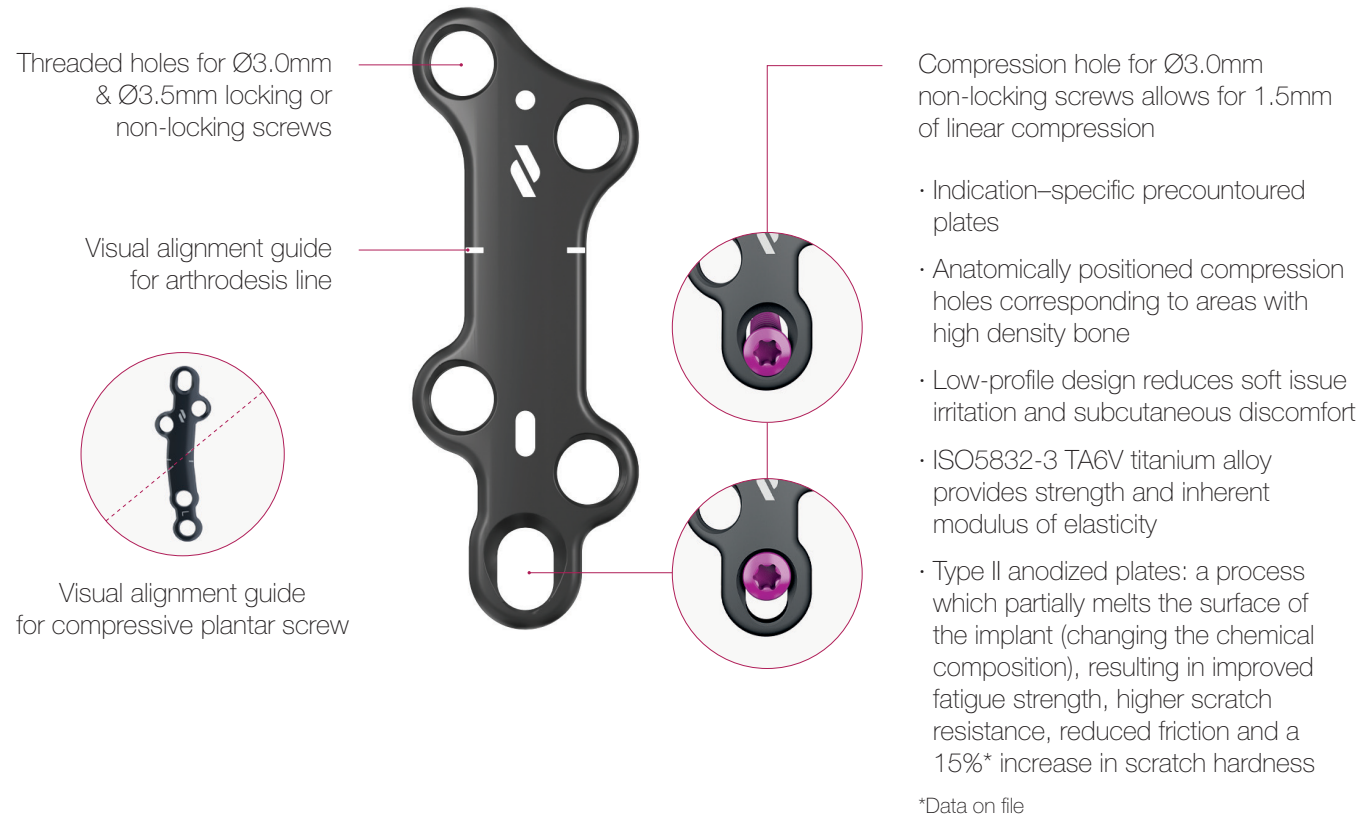
Anatomically contoured, low-profile  
forefoot and midfoot plates



# Airlock® Technical Features

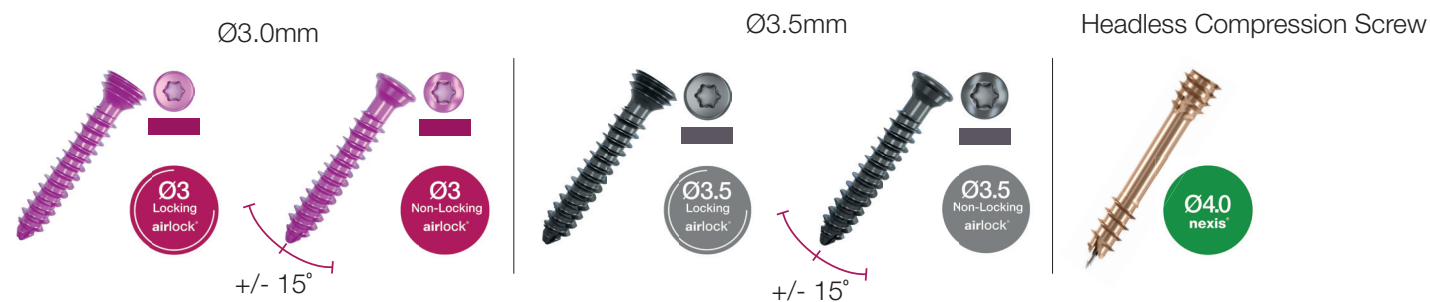
The Airlock® forefoot / midfoot platform is a comprehensive plating system that includes procedure-specific, anatomic plates with monoaxial and polyaxial screw options for fixation of osteotomies, fusions and fractures of the foot.

## Plate Features



## Screw Features

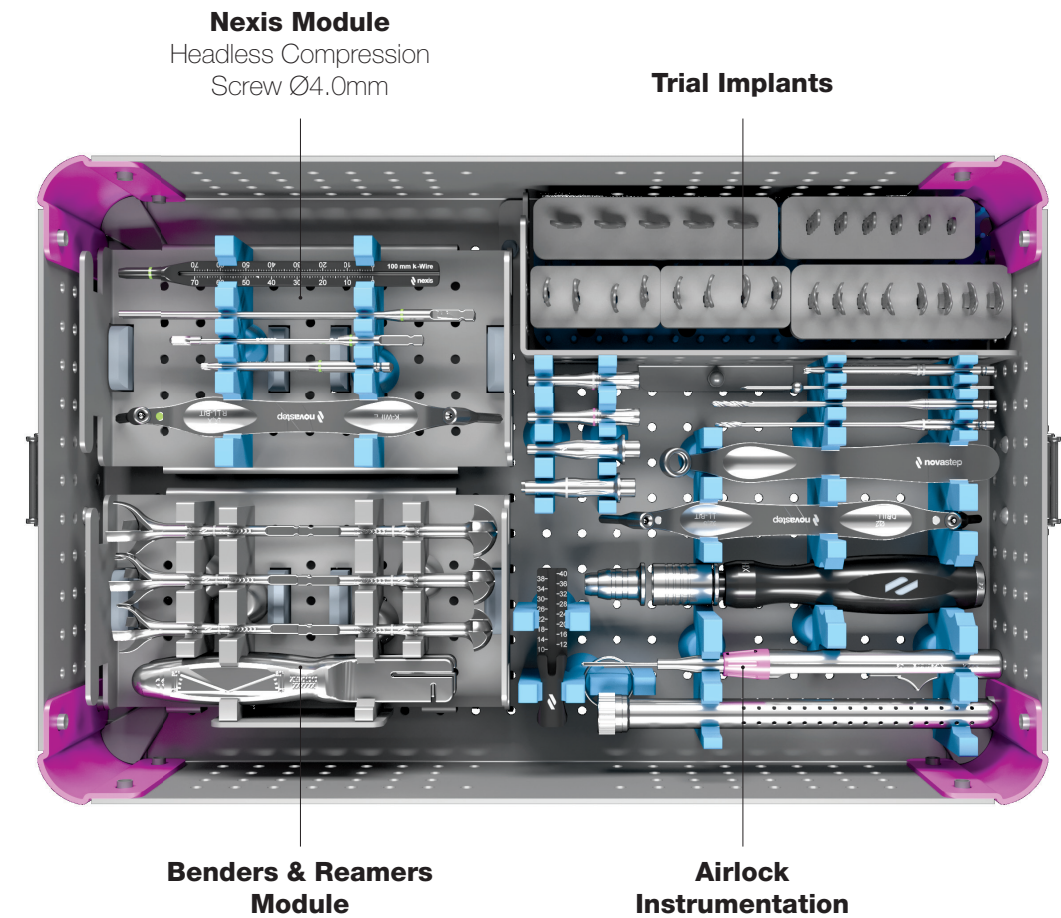
The Airlock® Ø3.0mm and Ø3.5mm locking and non-locking screws may be used in all Airlock plate fixation holes; however, the compression holes only accommodate Ø3.0mm non-locking screws. A Nexis Ø4.0mm headless compression screw of appropriate length may be used for additional plantar compression. All instrumentation is conveniently organized and color coded (see below).



## Monoaxial & Polyaxial Capability

- Monoaxial locking screws
- Polyaxial non-locking screws
- Tapered head
- Self-tapping design
- Self-retaining driver / screw interface

# Airlock® Instrument Tray



## AirlockGO® Product Delivery Option

AirlockGo™ combines Novastep's Airlock® plating system and cleanSTART® sterile packaged, single-use instrument kits with a selection of Nexis® Ø4.0mm headless compression screws; providing the user with a self-contained, all-inclusive unit that addresses a range of foot and ankle pathologies.

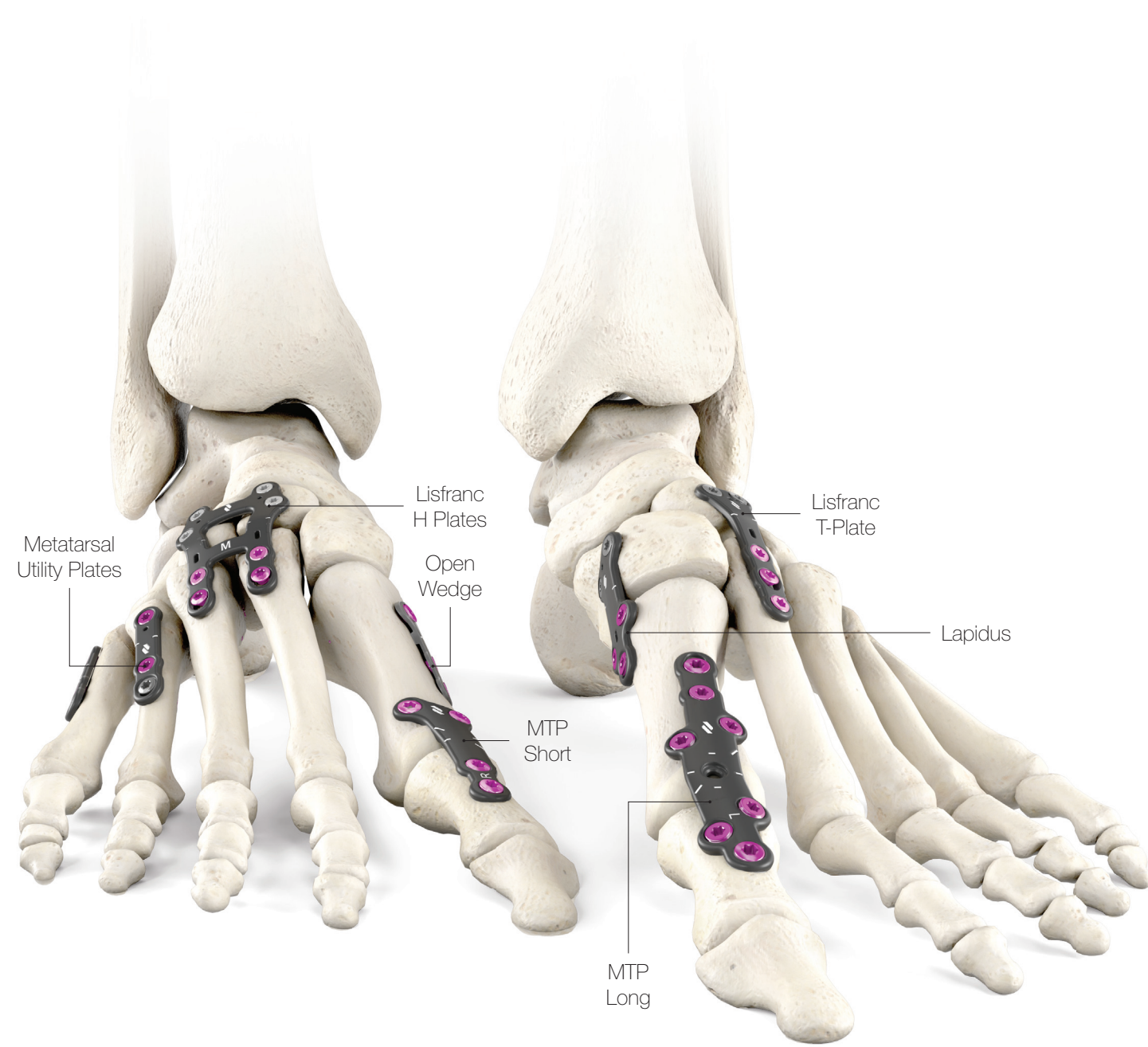
Each AirlockGo™ box features a unique, procedure-specific configuration of implants and instruments that includes precontoured low-profile plates, monoaxial locking, polyaxial non-locking and headless compression screws.

All instrument kits and implants are individually packaged sterile with self-adhesive, UDI compliant data matrix labels.





# Airlock® Plating Applications



# Airlock® Plating Range

## HALLUX RIGIDUS

### MTP Fusion

Left option



Right option



### Short Plates

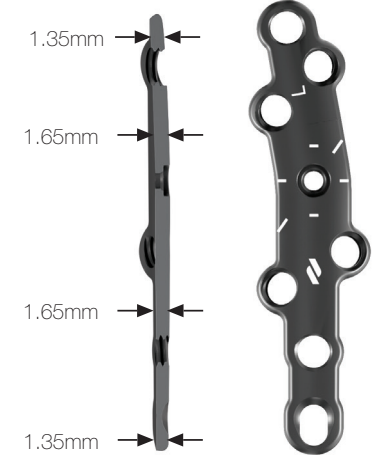
Length (mm): 34  
Thickness (mm): 1.35

### Standard Plates

Length (mm): 41  
Thickness (mm): 1.35

### Long Plates

Length (mm): 53  
\*Thickness (mm): 1.35  
\*Thickness increases to 1.65mm along the joint line



### MTP Reamers



**Convex reamer**  
Ø18mm  
Ø20mm  
Ø22mm



**Concave reamer**  
Ø18mm  
Ø20mm  
Ø22mm

# Airlock® Plating Range

## HALLUX VALGUS

### Lapidus

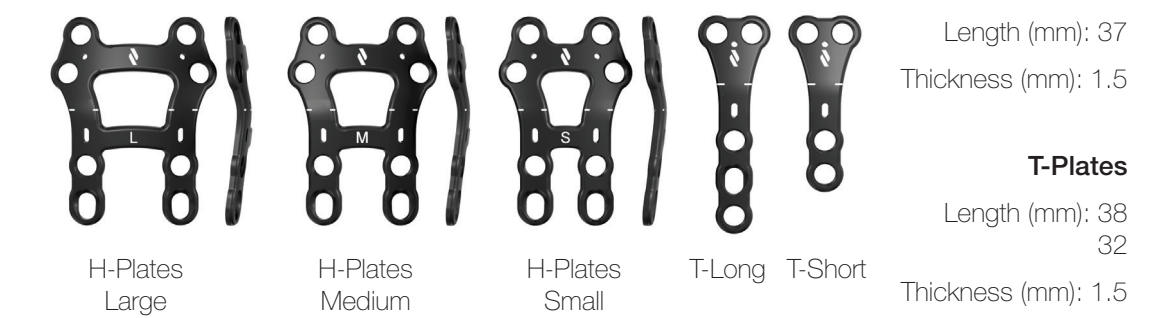


### Basal Osteotomy / Open Wedge

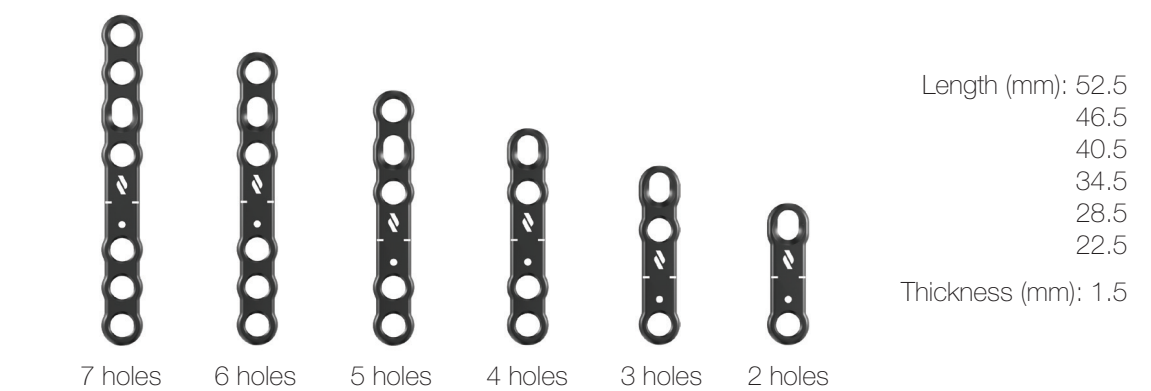


## MIDFOOT RECONSTRUCTION

### Lisfranc



### Utility





## Airlock® Plates Benefits

### MTP Fusion

#### Standard & Short MTP Plates

The unique screw hole design of the MTP plates keep the overall thickness to less than 1.4mm. The anatomic plates are designed with 0° dorsiflexion, delivering 15° of metatarsophalangeal dorsiflexion while preserving 10° anatomical phalangeal valgus.

The linear ("non-clover") distal column allows the plate to be seated underneath the EHL tendon and away from the surgical incision to reduce the risk of post-operative infection or hardware protrusion.

These low-profile plates allow treatment of patients with very thin tissue envelopes. The standard and long plates have a proximal oblong hole for an additional point of fixation and compression.



#### Long (Revision) MTP Plate

This plate was designed to reduce irritation to the soft tissue structures surrounding the MTP joint, by tapering the distal and proximal ends of the plate to a thickness of 1.35mm.

For improved strength, the plate increases in thickness to 1.6mm along the joint line.

The long plate includes a porthole for the insertion of graft into the fusion site once the plate is secured.

This hole will also accommodate a Nexis® Snap-off screw, to secure any cancellous graft in place.

## Airlock® Plates Benefits

### Lapidus

The Lapidus plates are less than 1.5mm thick, reducing the risk of hardware prominence in areas where there is minimal soft tissue. This plate is available in four step options with a right/left universal design to accommodate surgeon preference.

All plates allow for usage of Ø3.0mm or Ø3.5mm locking and non-locking screws. Each plate has an oblong hole for additional fixation and compression across the fusion site with a Ø3.0mm non-locking screw.



### Basal Osteotomy / Open Wedge

The Basal Osteotomy plates come in left and right configurations and are only 1.0mm thick to accommodate the limitations of the soft tissue envelope of the medial column.

Three wedge sizes allow a range of opening angles, whereas the 0mm (no wedge) plate facilitates the fixation of closing osteotomies. All screw holes allow usage of Ø3.0mm or Ø3.5mm, locking and non-locking screws.



## Airlock® Plates Benefits

### Lisfranc

The 1.5mm profile of the Lisfranc plates provides strength and stability as it addresses patients with shallow tissue envelopes. These plates are precontoured with a built-in ridge angle to accommodate metatarsal declination.

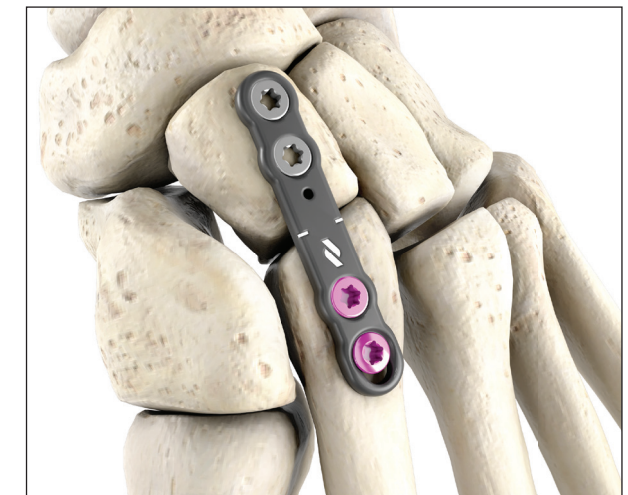
This anatomic bend reduces the risk of accidental ray elevation during fixation, which can lead to transfer lesions of the adjacent metatarsals. All plates allow for the option of locking and non-locking Ø3.0mm or Ø3.5mm screws and include an oblong hole for additional metatarsal compression and fixation.



### Utility

The versatile, high-strength, low-profile utility plates are 1.5mm thick, allowing for usage in nearly all soft tissue environments and are available in a range of sizes.

The oblong compression hole accommodates a Ø3.0mm non-locking screw. Locking and non-locking screws of Ø3.0mm and Ø3.5mm may be used in all other fixation holes.



Notes

Notes



[www.novastep.life](http://www.novastep.life)

**Distributed by:**

Novastep Inc.  
930 Sylvan Ave, Suite 125  
Englewood Cliffs, NJ 07632  
(877) 287-0795  
[cs@novastep-us.com](mailto:cs@novastep-us.com)

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