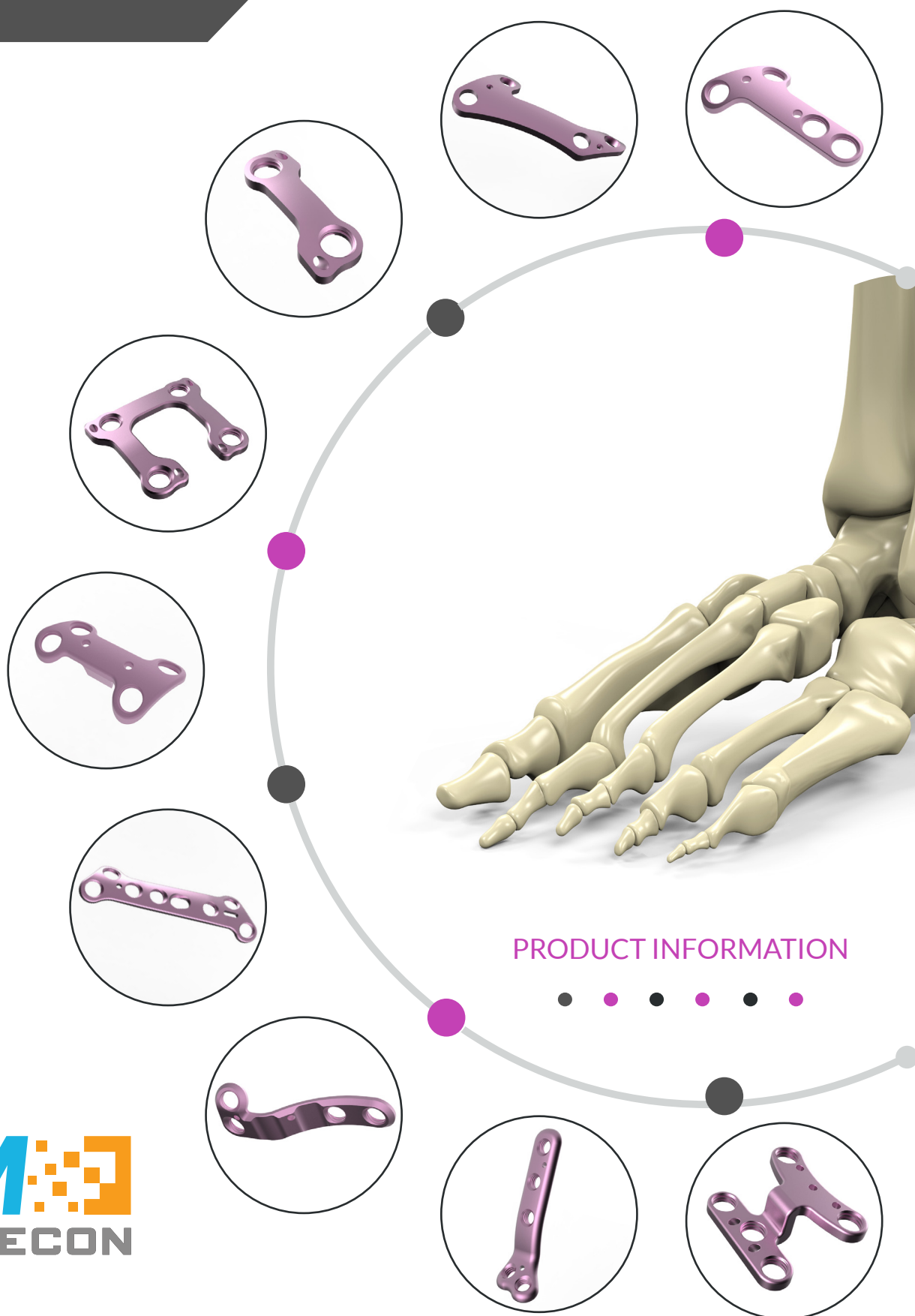


DRACO™

FOOT & ANKLE SYSTEM



PRODUCT INFORMATION

HNMT
TOTAL RECON



DRACO™

Foot & Ankle System

CONTENTS

MetaFuse L Plate	3
MetaFuse BLP Plate	4
MetaFuse Midfoot/Lisfranc Plate	5
MetaFuse U Midfoot/Lisfranc Plate	6
MetaFuse OpenWedge Plate	7
MetaFuse MTP Plate	8
MetaFuse Plantar Plate	9
MetaFuse ScarFuse	10
MetaFuse TT Fusion Plate	11
MetaFuse Calcaneus Offset Plate	12
MetaFuse LS Locking Screw	13
Snap-Off Screw	16



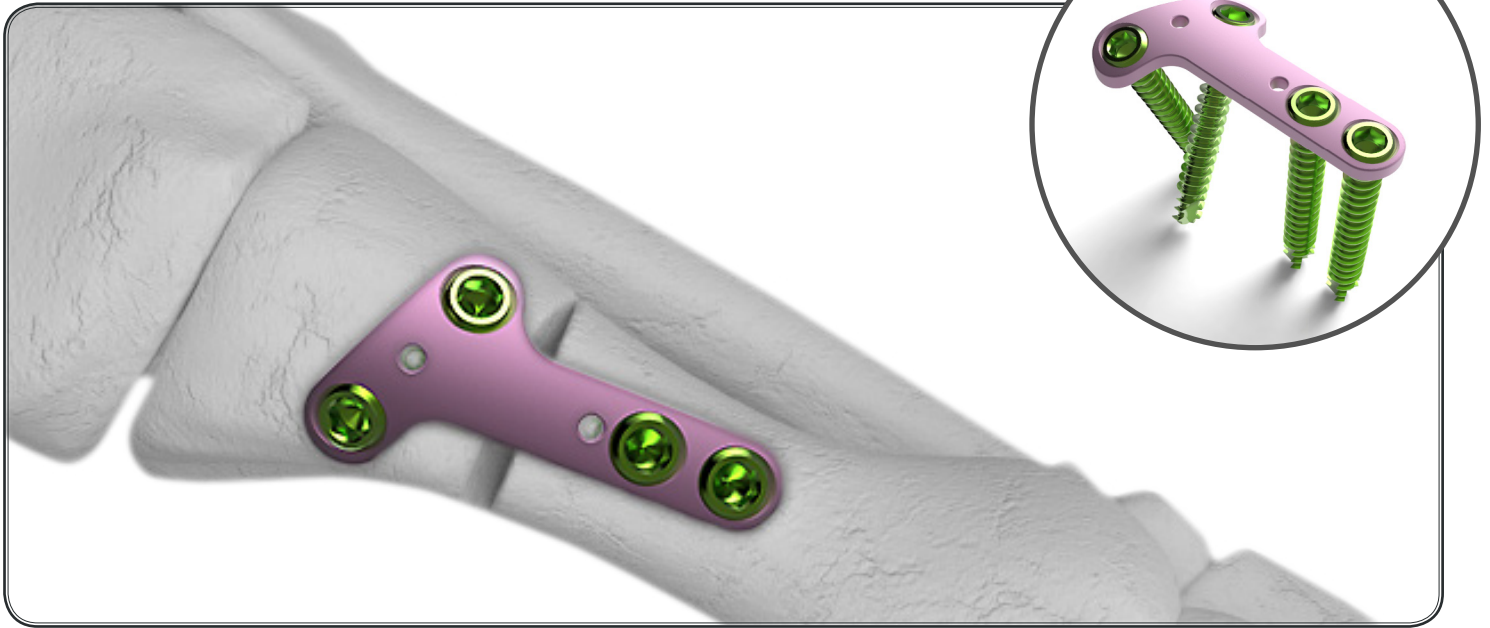
HNM Total Recon is committed in providing surgeons and health care professionals with advanced surgical solutions for effective and time-saving treatment of their patients. Our most important task is meeting surgeons' needs. We accomplish this by creating key partnerships and driving innovative product development.





METAFUSE L-PLATE

Proven Success for Hallux-Valgus Repair



I. V-Type



II. Closing Wedge



I. Opening Wedge I



III. Juvara



V. Crescentic



V. Lapidus



VI. Fusion GZ

INDICATIONS

- Closing Base Wedge Osteotomy
- Opening Base Wedge Osteotomy
- Modified Proximal Chevron Osteotomy
- Crescentic Base Osteotomy
- Lapidus/TMT-Fusion
- 1st MTP-Fusion

ADDITIONAL FEATURES

- MetaFuse L -Plate offers crossed proximal screw configuration
- Can be combined with MetaFuse LS locking screws $\varnothing 3.0\text{mm}$ and $\varnothing 3.5\text{mm}$
- Simple surgical technique
- Multiple lengths left and right
- Two k-wire holes allow temporary fixation of the plate to the bone

BENEFITS

- For moderate and severe deformities
- Inherent stability provides post-op control of elevation/depression-shortening/elongation-pronation/supination
- Minimizes post-op edema
- Early functional therapy improves ROM
- Immediate weight bearing only with physicians permission

Size	Item # (Left)	Item # (Right)
26 mm	HTR-03-020126	HTR-03-010626
28 mm	HTR-03-020228	HTR-03-010728
30 mm	HTR-03-020330	HTR-03-010830
32 mm	HTR-03-020432	HTR-03-010932
36 mm	HTR-03-020536	HTR-03-011036



METAFUSE BLP PLATE



INDICATIONS

- Proximal Chevron Osteotomy (V-Type)
- Closing Base Wedge Osteotomy
- Opening Base Wedge Osteotomy
- Crescentic Base Osteotomy
- Lapidus/TM T-Fusion
- 1st MTP-Fusion

BENEFITS

- For moderate and severe deformities
- Inherent stability provides post-op control of elevation/depression- shortening/elongation-pronation/supination
- Minimizes post-op edema due to locking stability
- Early functional therapy improves ROM
- Immediate weight bearing only with physicians permission in a post op-sandal

ADDITIONAL FEATURES

- MetaFuse BLP plate offers crossed proximal and distal screw configurations
- Can be combined with locking screws Ø 3.0 mm and Ø 3.5 mm
- Simple surgical technique
- Multiple lengths left and right
- Two k-wire holes allow temporary fixation of the plate to the bone
- Plates and screws made of titanium alloy

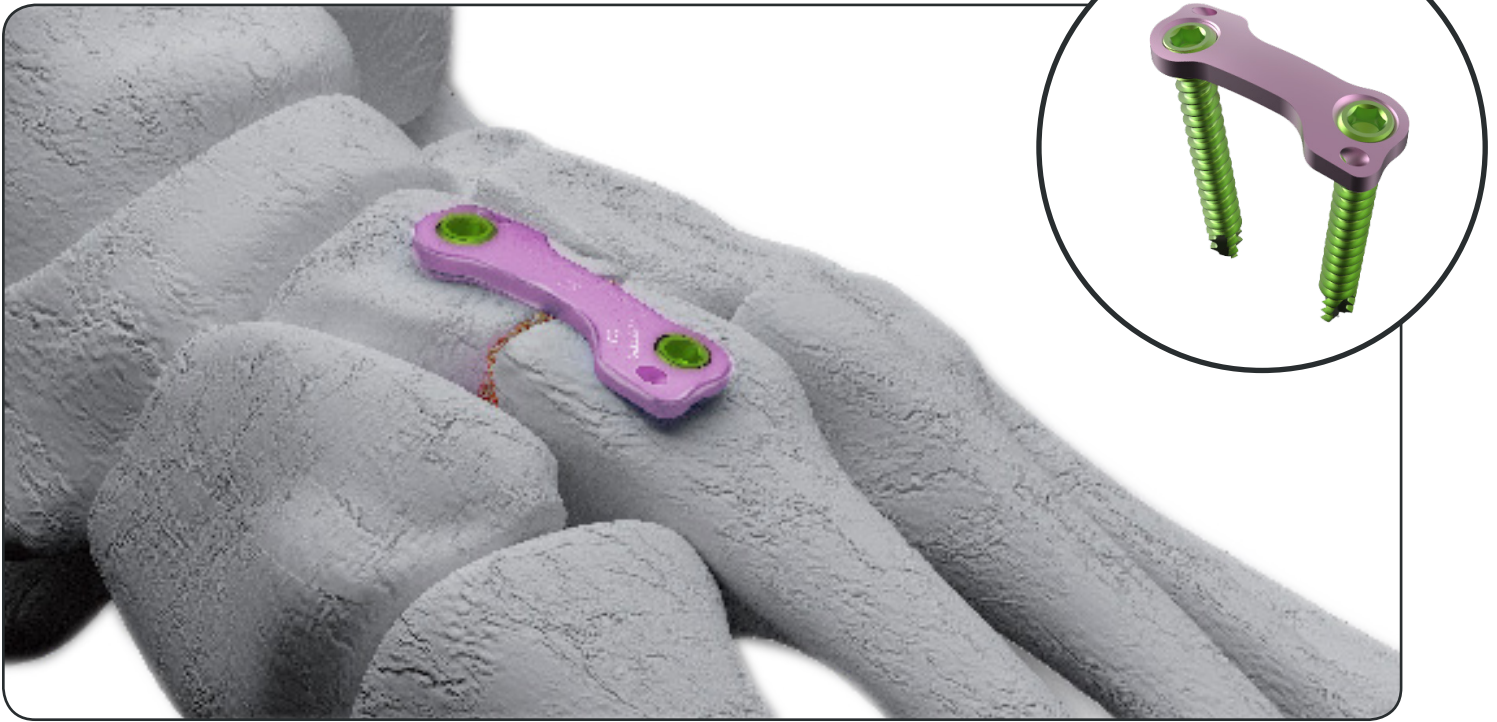
Size	Item # (Left)	Item # (Right)
31mm	HTR-03-200131	HTR-03-100231
33mm	HTR-03-020133	HTR-03-010433
35mm	HTR-03-020235	HTR-03-010535
37mm	HTR-03-020337	HTR-03-010637





MIDFOOT/LISFRANC PLATE

Locking Plate System for Fusion of the Tarsal Bones



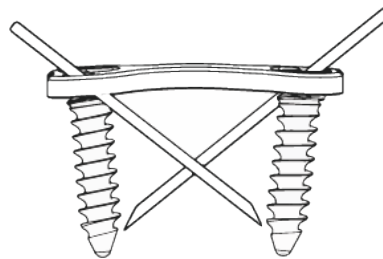
INDICATIONS

- Fusion of the Lisfranc joint
- Talo-Navicular-Fusion
- Naviculo-Cuneiforme-Fusion
- (Calcaneo-Cuboid-Fusion)



BENEFITS

- Plates and screws made of titanium alloy
- High stability and weight-bearing capacity due to shape of the plate
- Easy to use instruments
- Early weight bearing post-OP due to locking



ADDITIONAL FEATURES

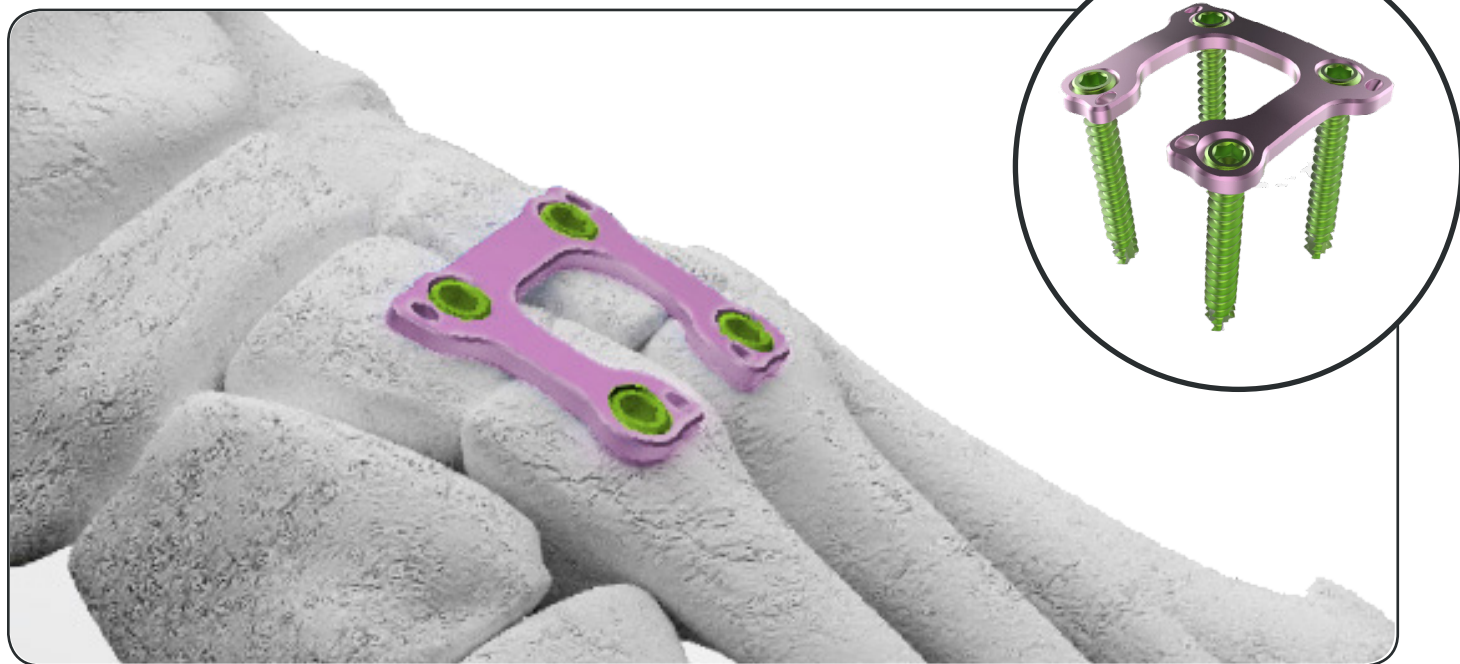
- Metafuse Midfoot /lisfranc plate in four sizes (21, 23, 25, 27)
- Can be combined with Ø 3.5 mm MetaFuse LS locking screws
- Two k-wire holes allow temporary fixation of the plate and the osteotomy with crossing k-wires
- Main area of loading is 1.7 mm thick reducing micromovements in the osteotomy

Size	Item #
21 mm	HTR-03-030721
23 mm	HTR-03-030823
25 mm	HTR-03-030925
27 mm	HTR-03-030925



METAFUSE U MIDFOOT/LISFRANC PLATE

Locking Plate System for Fusion of the Tarsal Bones



INDICATIONS

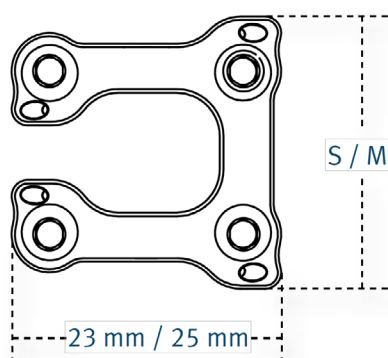
- Fusion of the Lisfranc joint
- Talo-Navicular-Fusion
- Naviculo-Cuneiforme-Fusion
- (Calcaneo-Cuboid-Fusion)

BENEFITS

- Plates and screws made of titanium alloy
- High stability and weight-bearing capacity due to shape of the plate
- Easy to use instruments
- Early weight bearing post-OP due to locking plate system

ADDITIONAL FEATURES

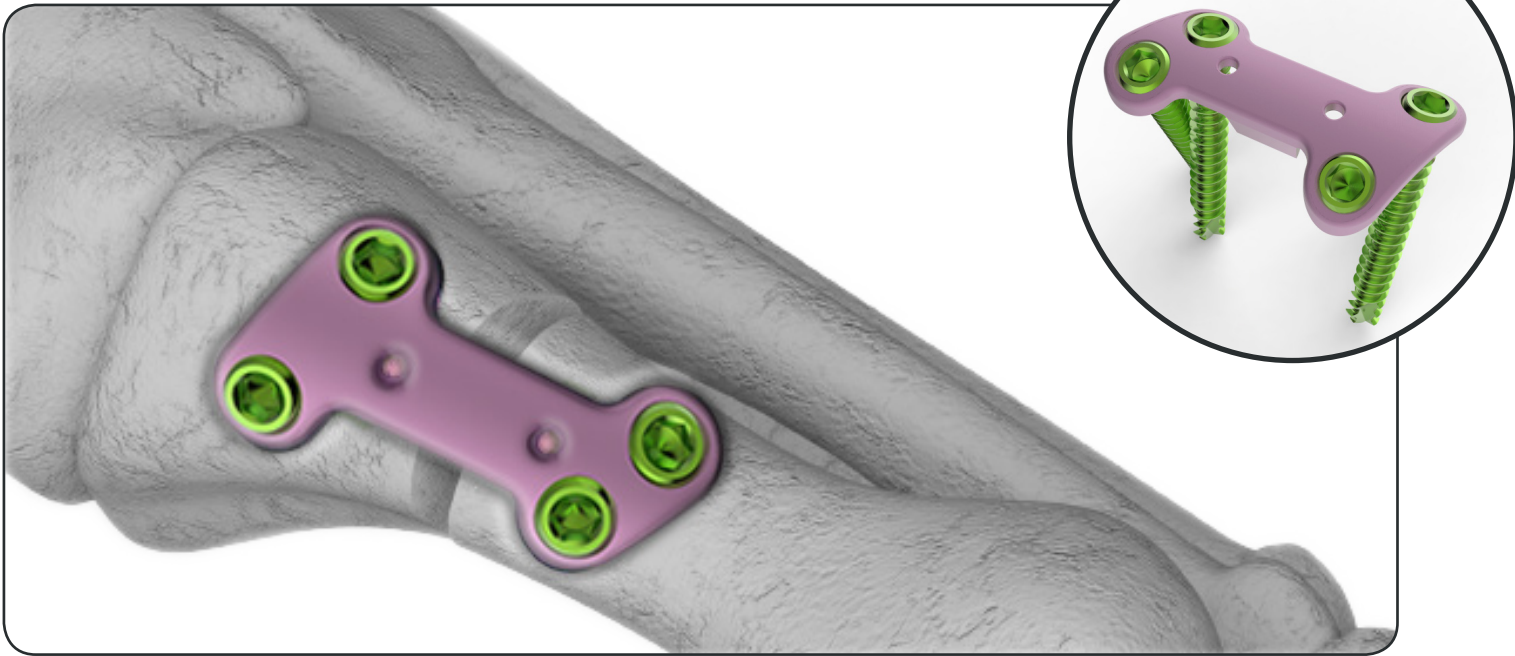
- Fusion plate in four sizes
- Can be combined with $\varnothing 3.5\text{mm}$ LS locking screws
- Two k-wire holes allow temporary fixation of the plate and the osteotomy with crossing k-wires
- Main area of loading is 1.7mm thick reducing micromovements in the osteotomy



Size	Item #
23 SM	HTR-03-060123
25 SM	HTR-03-060225
23 MD	HTR-03-070323
25 MD	HTR-03-070425



METAFUSE OPENWEDGE PLATE



INDICATIONS

- MetaFuse Opening Wedge Plate Osteotomy
- Various Base Osteotomies (with plate size 0)

BENEFITS

- Low Profile, only 1.3mm
- May use either 3.0mm or 3.5mm LS locking screws
- K-wire holes allow temporary fixation of the plate and the osteotomy
- Operated using the proven MetaFuse Instruments
- Available in 4 different size blocks (0, 2, 4 and 6 mm) for left and right foot
- Slotted trapezoid shaped block to allow for bony in growth or the use of bone substitutes in between the osteotomy



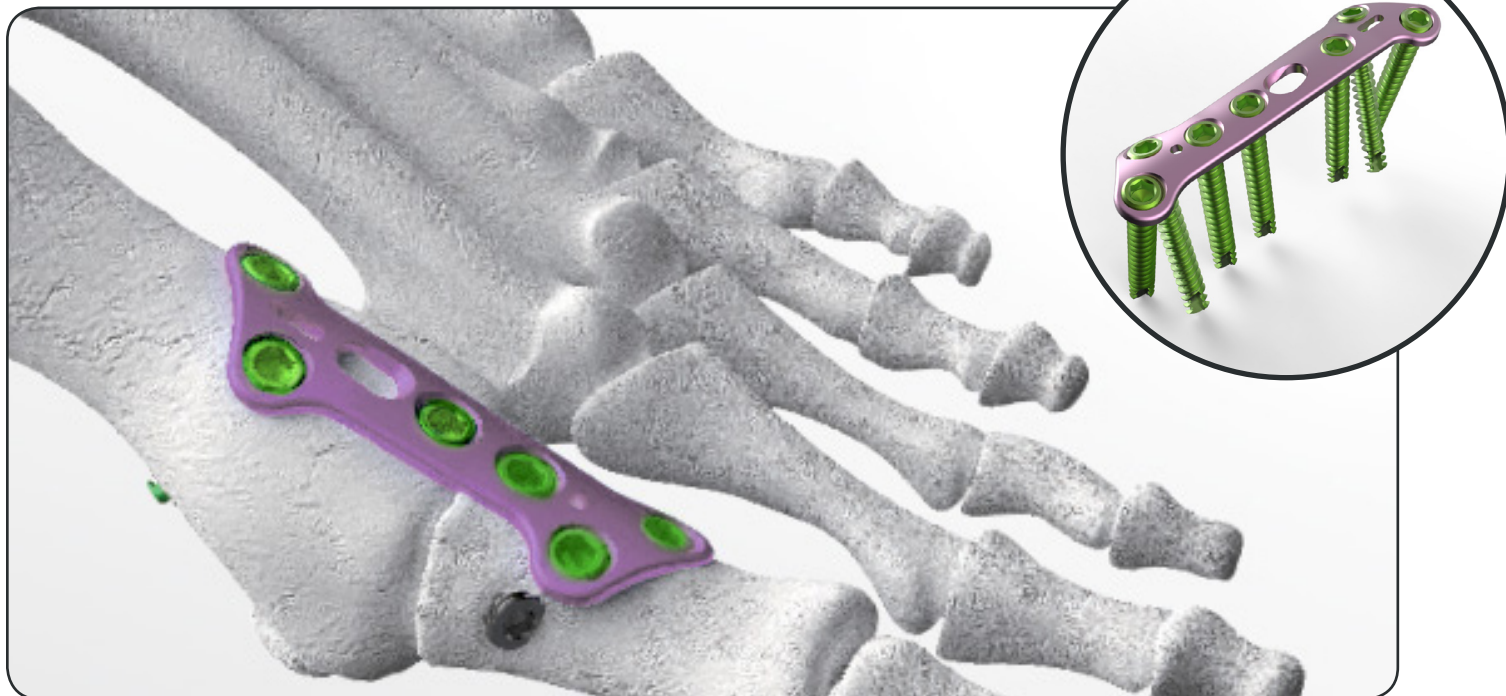
ADDITIONAL FEATURES

- Plates and screws made of titanium alloy
- High stability and load capacity due to anatomical shape of the plate
- Early weight bearing post-OP due to locking plate technique

Size	Item # (Left)	Item # (Right)
0	HTR-03-120500	HTR-03-130900
2	HTR-03-120602	HTR-03-131002
3	HTR-03-200302	HTR-03-300603
4	HTR-03-120704	HTR-03-130104
5	HTR-03-200405	HTR-03-300705
6	HTR-03-120806	HTR-03-130206



METAFUSE MTP PLATE



MetaFuse MTP System is a bone plate and screw system for the 1st Metatarsophalangeal (MTP) joint arthrodesis. The combination of anatomically designed plates with both locking and non locking screw capability provides a strong and stable construct. The system is made of titanium alloy (Ti6Al4V ELI, ISO 5832-3, ASTM F136).

INDICATIONS

- Fusion of the 1st Metatarsophalangeal-Joint (MTP)
- Hallux Rigidus
- Arthrosis
- Revision after failed Keller Procedure
- Revision after failed arthroplasty

ADDITIONAL FEATURES

- Concave and convex reamers Ø14, 18, 20, and 24mm for optimal preparation of the joint surfaces
- Proven and reliable instrument set

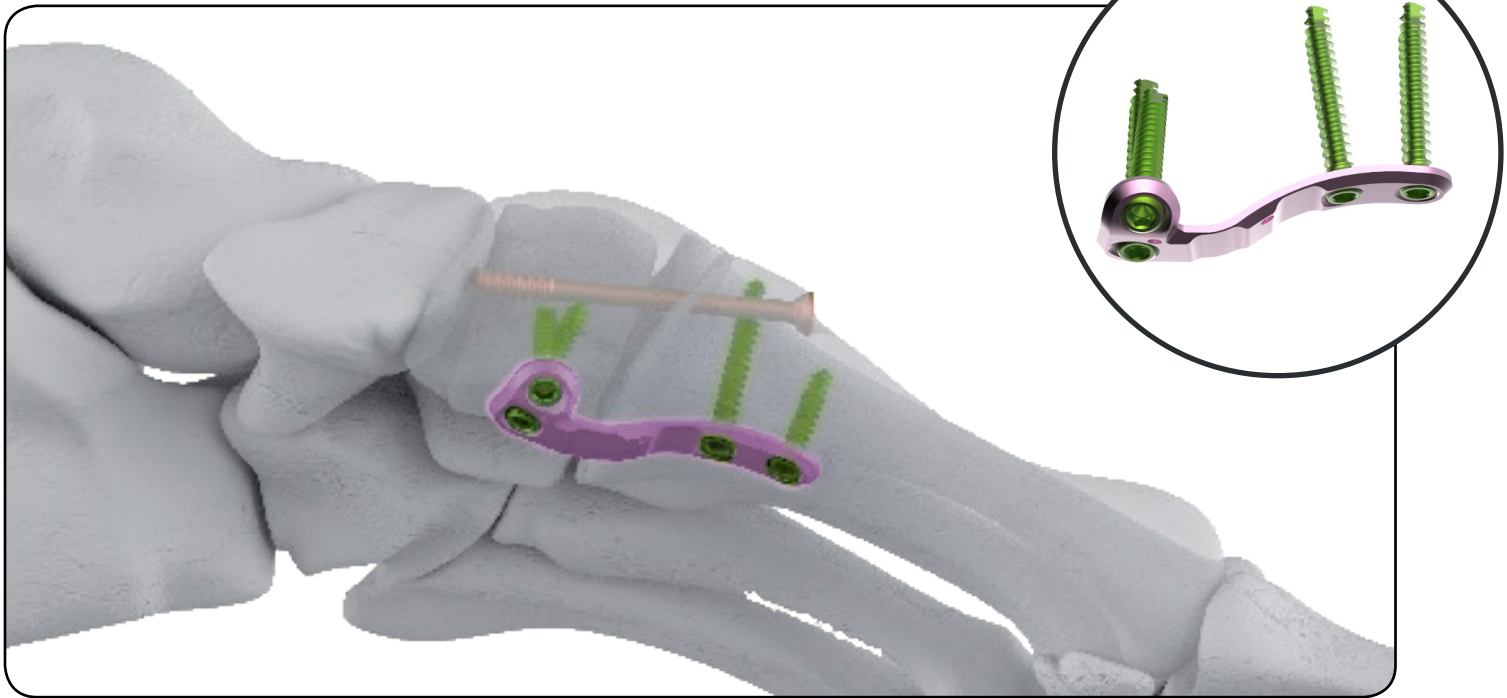
BENEFITS

- 2 plate lengths (39 and 52mm) left and right
- The plate can be secured with MetaFuse LS locking screws in Ø3.0mm/Ø3.5mm and MetaFuse Cannulated PCS screws in Ø 3.0mm
- Anatomically formed „Low Profile“ plate with 5° of dorsi-flexion and 5° valgus
- Proximal and distal k-wire holes for temporary plate fixation
- Additional HNM Cannulated HCS Ø3.0mm and Ø4.3mm headless compression screws for interfragmentary fixation included in tray

Size	Item # (Left)	Item # (Right)
39 mm	HTR-03-020339	HTR-03-010539
52 mm	HTR-03-020452	HTR-03-010652



METAFUSE PLANTAR PLATE



MetaFuse Plantar Plate system is an innovative, user-friendly and angle-stable implant system for a safe stabilisation of Lapidus Arthrodesis. The proximal medial arm of the plate allows an optimal and neat initial fixation which greatly simplifies the placement of the other locking screws. The biomechanically optimal plantar tension band placement allows an early weightbearing and encourages a rapid mobilization of the patient.

INDICATIONS

- Moderate to severe Hallux valgus
- Hypermobility in the first tarsometatarsal joint
- Osteoarthritis of the first tarsometatarsal joint
- Elevatus deformity of the Metatarsale-I
- Troubleshooting after failed osteotomy of the shaft

BENEFITS

- Stabilization of the Lapidus Arthrodesis with a plantar plate and a dorsal compression screw
- Low-profile, anatomically formed plate in two sizes, left and right
- Proven MetaFuse basic instrument set with Draco LS $\varnothing 3.0\text{mm}$ and $\varnothing 3.5\text{mm}$ screws is complemented with Draco Cannulated PCS dorsal compression screws
- All implants are made from titanium alloy Ti6Al4V ELI

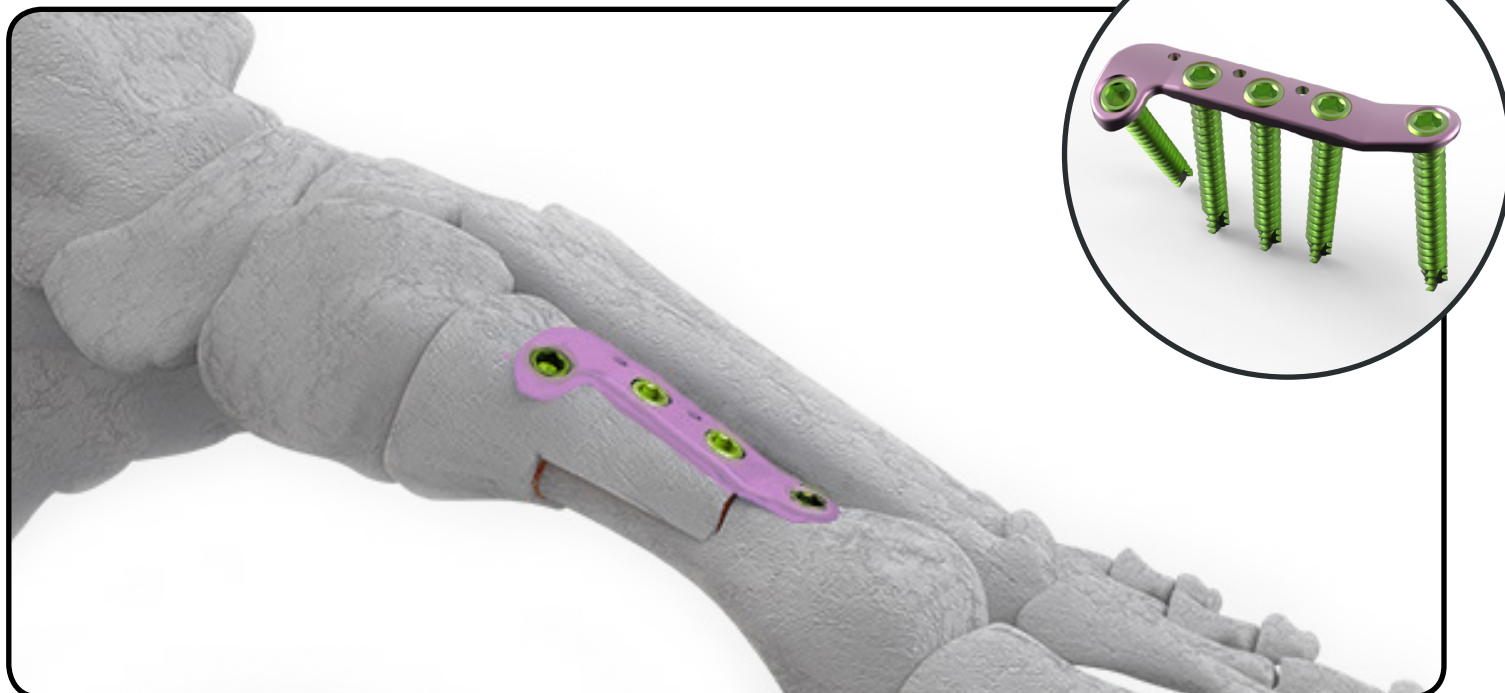
ADDITIONAL FEATURES

- Proximal medial flap of the plate allows optimal primary fixation of the plate with a unidirectional locking screw, thereby facilitating the introduction of further screws
- Biomechanically optimal positioning of the plate allows early weight bearing and rapid mobilization due to plantar tension band
- Plate covered with soft tissue, e.g. abductor hallucis
- Correction of medium and large intermetatarsal angles, even after failed corrections in the shaft area
- High primary stability eliminates loss of correction due to angle stability
- Special bending zones allow the plate to be adjusted without damaging the threaded holes
- K-wire holes in the plate for temporary fixation

Size	Item # (Left)	Item # (Right)
37mm	HTR-03-110715	HTR-03-110816
40 mm	HTR-03-110510	HTR-03-110611



METAFUSE SCARFUSE PLATE



MetaFuse ScarFuse Plate is designed to provide a stronger osteotomy fixation in comparison to the two screw fixation thus allowing early weight bearing by minimizing displacement, proximal stress fractures and troughing concerns. The plate is low profile and anatomically contoured to fit the first metatarsal and applies both angled and locking screws. It can be used for adult and pediatric patients. Indications for use include fixation of fresh fractures, revision procedures, joint fusion and reconstructions of small bones of the feet.

INDICATIONS

- Medium to severe Hallux valgus
- Hallux rigidus
- Arthrosis of Tarsometatarsal-joint I
- Revision after failed Keller procedure
- Revision after failed arthroplasty

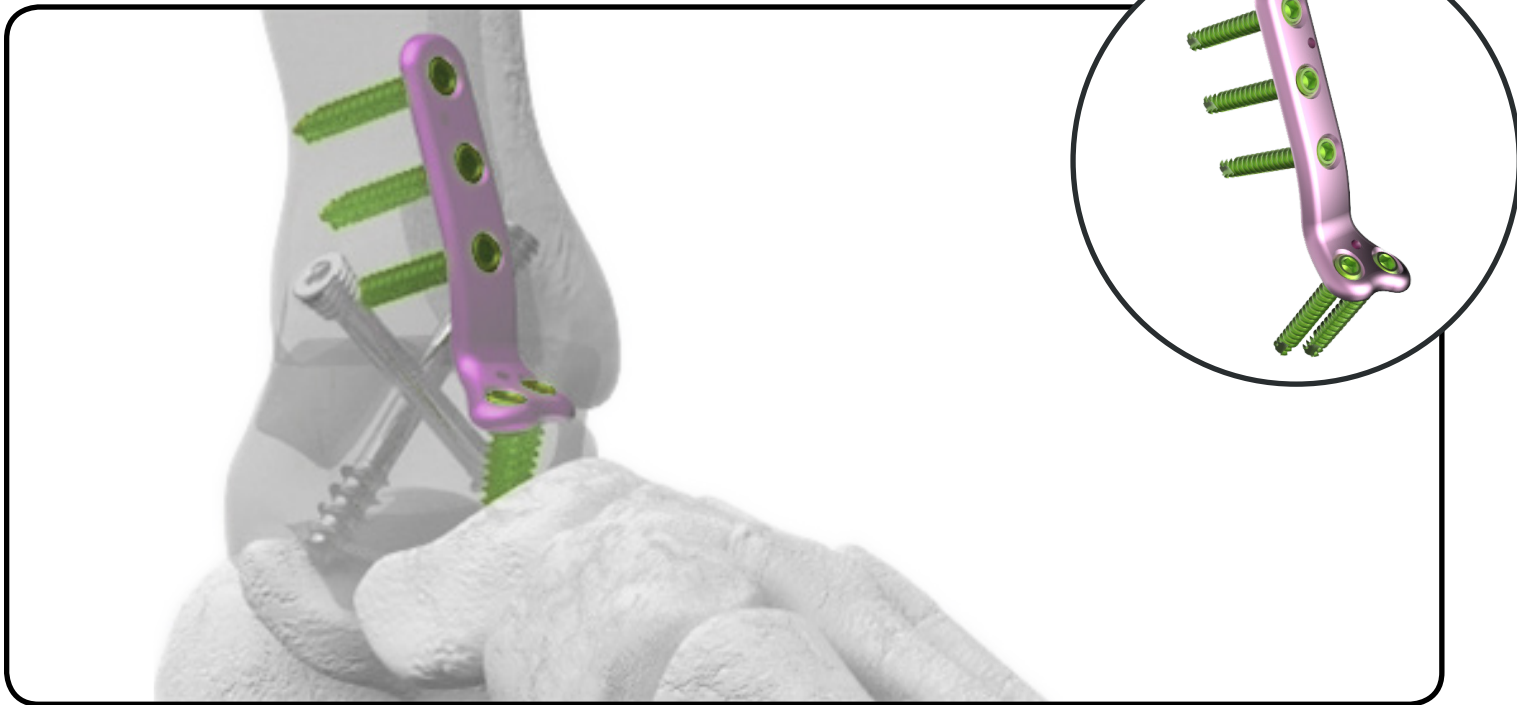
ADDITIONAL FEATURES

- Rigid fixation eliminating displacement concerns
- Anatomically contoured to fit the first metatarsal
- Low profile plate with both angled and locking screw fixation

Size	Item # (Left)	Item # (Right)
34 mm	HTR-03-400134	HTR-03-400334
40 mm	HTR-03-400240	HTR-03-400440



TT FUSION PLATE



MetaFuse TT Fusion Plate is an arthrodesis plate for the upper ankle which is characterized by its high primary stability. This is achieved by the combination of two intersecting $\varnothing 6.5$ mm Cannulated HCS screws and the ventrally attached Draco MetaFuse TT Fusion plate. This type of arthrodesis stands out for a technically less demanding procedure with a small anterior approach. The system is made of a titanium alloy (TiAl6V4 ELI, ISO 5832-3).

INDICATIONS

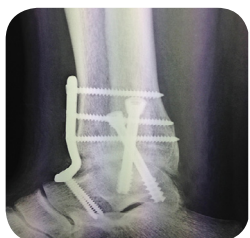
- End stage arthritis (osteoarthritis, post trauma and others)
- Revision after failed ankle fusion
- Varus deformity arthritis
- Valgus deformity arthritis

BENEFITS

- High primary stability due to five $\varnothing 3.8$ mm locking screws and two $\varnothing 6.5$ mm compression screws
- 2 different angled plates: 99° and 111°
- Plate thickness 3.0 mm

ADDITIONAL FEATURES

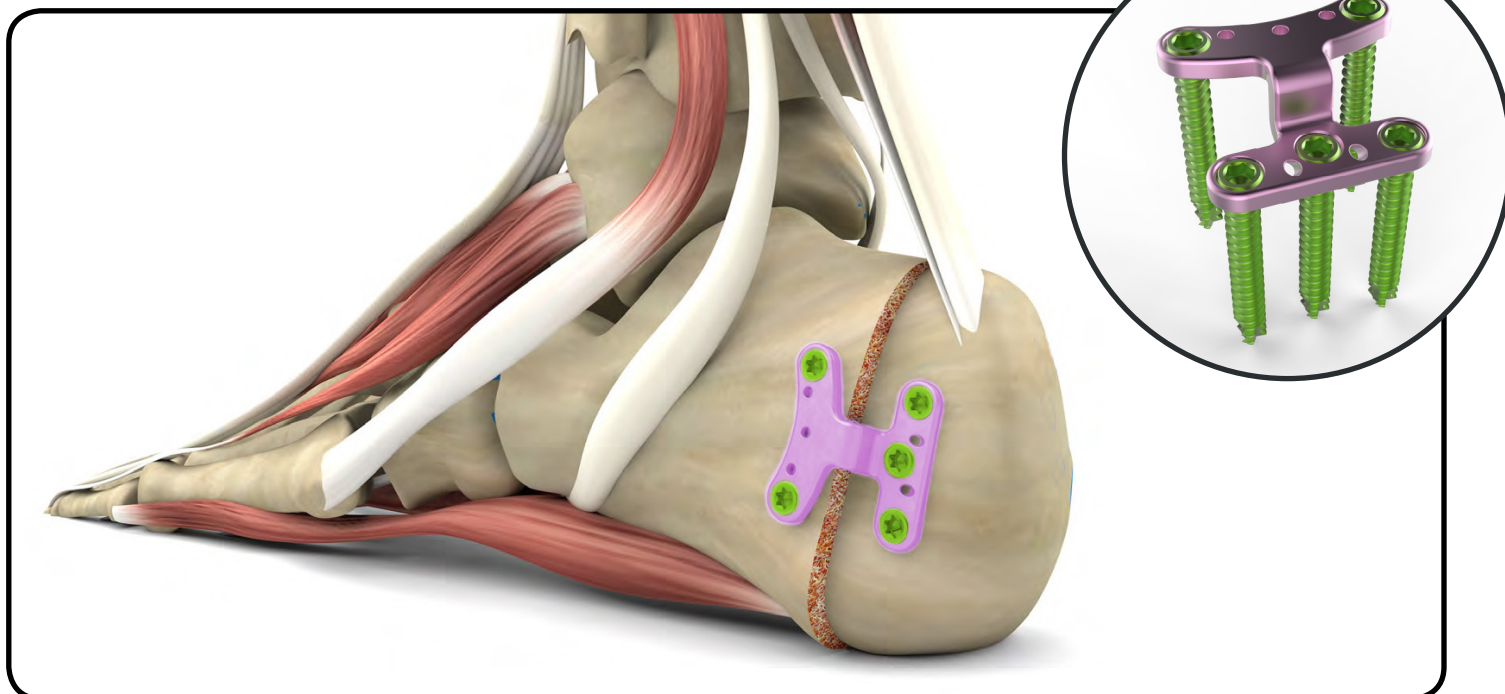
- Good overview due to small 4-5 cm anterior approach
- Adequate and simple access to the ankle joint
- Anatomically contoured to fit the left or right ankle joint
- Allows Mini-Open hybrid fixation



Size	Item # (Left)	Item # (Right)
99°	HTR-03-610699	HTR-03-600899
111°	HTR-03-610711	HTR-03-600911



METAFUSE CALCANEUS OFFSET PLATE



MetaFuse Calcaneus Offset Plate is a step plate used to correct acquired flatfoot. The plate is available in different step heights (0 mm - 12 mm), to be selected depending on the severity of the condition. In order to ensure sufficient stability of the calcaneus correction, the MetaFuse Calcaneus plate is screwed into place using five fixed-angle Ø 3.8 mm MetaFuse LS screws.

INDICATIONS

- Acquired adult flatfoot deformity (AAFD) or tibialis posterior tendonitis
- Post-traumatic rearfoot deformities (varus, valgus)
- Pes cavus deformities
- Other (additive) calcaneus osteotomies (e.g., upper ankle joint endoprosthesis)

BENEFITS

- Low-profile implant is supplied with a displacement device to allow quantifiable repositioning and temporary fixation of distal
- Calcaneus fragment for guided positioning and optimal ease-of-use.

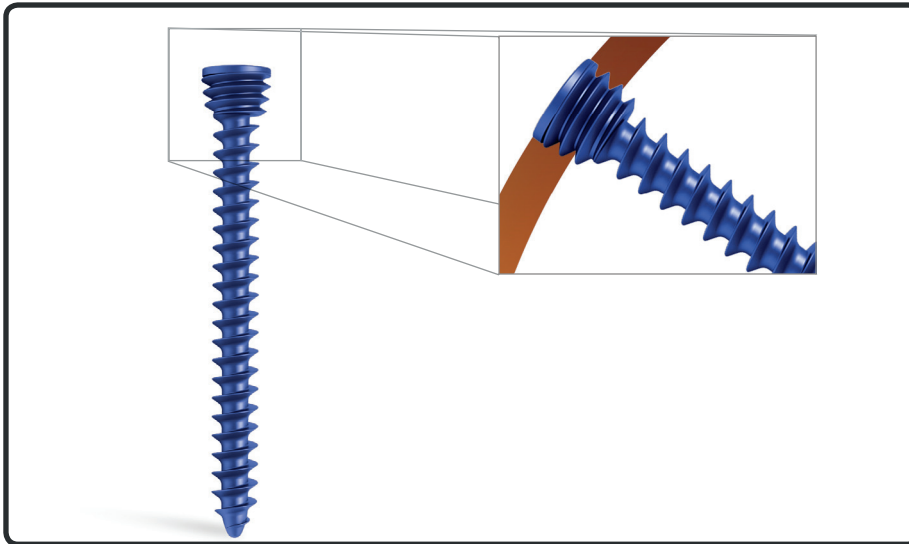
ADDITIONAL FEATURES

The instrumentation includes a saw template for guided osteotomies to insure reduced non-union rates and early load bearing through a smooth fusion site post-operatively.

Size	Item #
0	HTR-03-400900
2	HTR-03-401002
4	HTR-03-400104
6	HTR-03-400206
8	HTR-03-400308
10	HTR-03-400410
12	HTR-03-400512



LOCKING SCREWS - FULLTHREADED Ø 3.0 MM

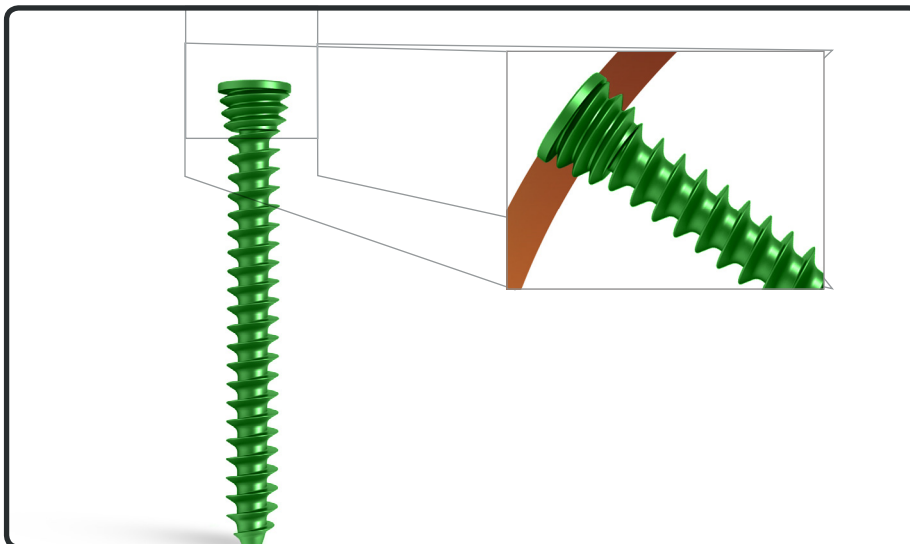


Length	Item #
12mm	HTR-03-300312
14mm	HTR-03-300414
16mm	HTR-03-300516
18mm	HTR-03-300618
20mm	HTR-03-300720
22mm	HTR-03-300822
24mm	HTR-03-300924
26mm	HTR-03-301026
28mm	HTR-03-300128
30mm	HTR-03-300230
32mm	HTR-03-300332

MetaFuse Locking Screws can be used with all HNM Draco foot plates.

The heads of MetaFuse LS locking screws have a conical thread and lock up unidirectionally into the threaded holes of the plate without cold welding. The MetaFuse LS locking screws can be screwed flush into the plate with little effort and if desired, effort may be increased to sink the screws further into the plate. Depending on indication and bone stock of the patient, a Ø3.0mm or Ø3.5mm screw may be chosen. The screws are available in Ø3.0mm or Ø3.5mm with a length of 12 - 32mm and may be used with any HNM locking plate, thus reducing storage and replacement costs.

LOCKING SCREWS - FULLTHREAD Ø3.5MM

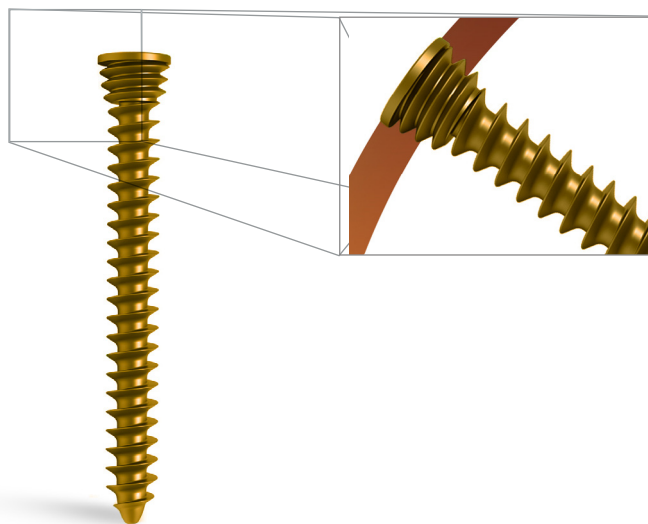


Length	Item #
12mm	HTR-03-350412
14mm	HTR-03-350514
16mm	HTR-03-350616
18mm	HTR-03-350718
20mm	HTR-03-350820
22mm	HTR-03-350922
24mm	HTR-03-351024
26mm	HTR-03-350126
28mm	HTR-03-350228
30mm	HTR-03-350330
32mm	HTR-03-350432



LOCKING SCREWS - FULLTHREAD

Ø 3.8MM



Length	Item #
12mm	HTR-03-350412
14mm	HTR-03-350514
16mm	HTR-03-350616
18mm	HTR-03-350718
20mm	HTR-03-350820
22mm	HTR-03-350922
24mm	HTR-03-351024
26mm	HTR-03-350126
28mm	HTR-03-350228
30mm	HTR-03-350330
32mm	HTR-03-350432





COMPRESSION SCREWS - SHORT THREAD

ø 3.0 MM



INDICATIONS

- Fracture fixation, reconstruction of various bones
- Osteotomy in foot or hand
- Fixation of small bone fragments in foot or ankle
- Compression screw for MetaFix® System

BENEFITS

- Self drilling, self tapping
- Cannulated
- K-Wire: Ø 1.0 mm
- Material: Titanium alloy (Ti6Al4V ELI, ISO 5832-3, ASTM F136)

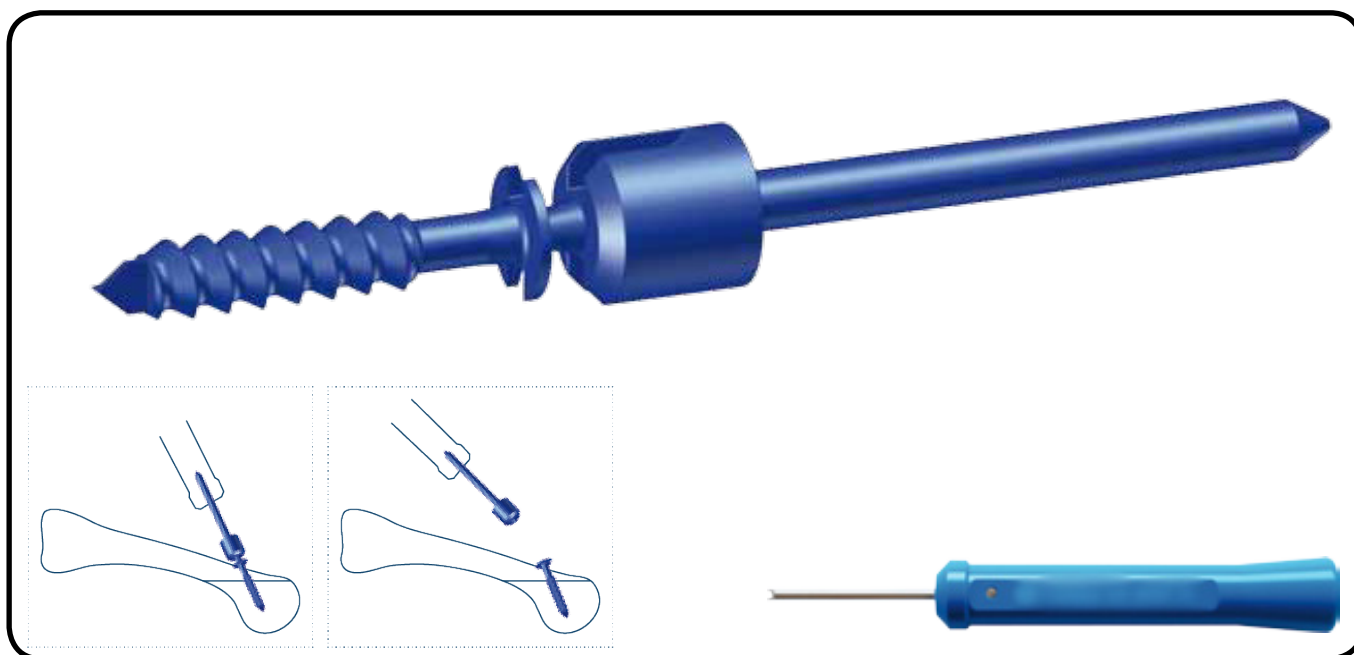
Available in the DRACO Screw Tray combined with HNM Cannulated HCS Headless Compression Screws 3.0 mm, 4.3 mm and TwistCut™-Snap-Off 2.0 mm, incl. instruments (p. 16)

Length	Item #
12mm	HTR-03-011060
14mm	HTR-03-010161
16mm	HTR-03-010262
18mm	HTR-03-010363
20mm	HTR-03-010464
22mm	HTR-03-010565
24mm	HTR-03-010666
26mm	HTR-03-010767
28mm	HTR-03-010868
30mm	HTR-03-350330
32mm	HTR-03-350432
34mm	HTR-03-010171
36mm	HTR-03-010272
38mm	HTR-03-010373
40mm	HTR-03-010474



TWISTCUT SNAP-OFF

Snap-Off Screw, Self Drilling & Self Tapping, Ø 2.0 mm



With longer shaft length and smaller diameter, fits into a standard k-wire driver.

- Shaft length 15.5mm
- Shaft Ø1.5mm

The self-drilling and self-tapping TwistCut™ Snap-Off Bone Screw is made of titanium alloy (Ti6Al4V ELI, ISO 5832-3, ASTM F136). The shaft separates from the screw when the head meets cortical bone.

The screw is 2.0 mm in diameter and 11 mm to 15 mm in length.

INDICATIONS

- Small-Bone Fracture Fixation
- Weil-Osteotomy
- Mono-Cortical Fixation
- Osteotomies and fracture fixation in foot and hand

Size	Item #
11mm	CB30011
12 mm	CB30012
13 mm	CB30013
14 mm	CB30014
15 mm	CB30015

TWIST-CUT FEATURES

- Snap-Off screw for small bone fracture fixation or Weil Osteotomy
- Self-drilling and self-tapping
- Shaft fits in standard k-wire driver
- 5 lengths (11, 12, 13, 14 and 15 mm)
- Screwdriver to tighten or remove the screw

STERILIZING CASE

Size	Item #
Case with 20 Twist-Cut - Snap-Off screws (5 screws of lengths 11 - 14mm) and 1 screwdriver	CB30011

Also available in the Forefoot Screw Tray combined with HNM Cannulated HCS Headless Compression Screws 3.0 mm, 4.3mm and HNM Cannulated PCS Compression Screws Ø 3.0mm, incl.

[illegible]

[illegible]

[illegible]



20855 Northeast 16th Avenue, Suite C15
Miami, FL 33179



1.866.291.8498 - 1.888.608.9788



www.hnmmedical.com



Info@hnmmedical.com