

NALA-TOE

INTER PHALANGEAL SOLUTIONS



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NALA-TOE

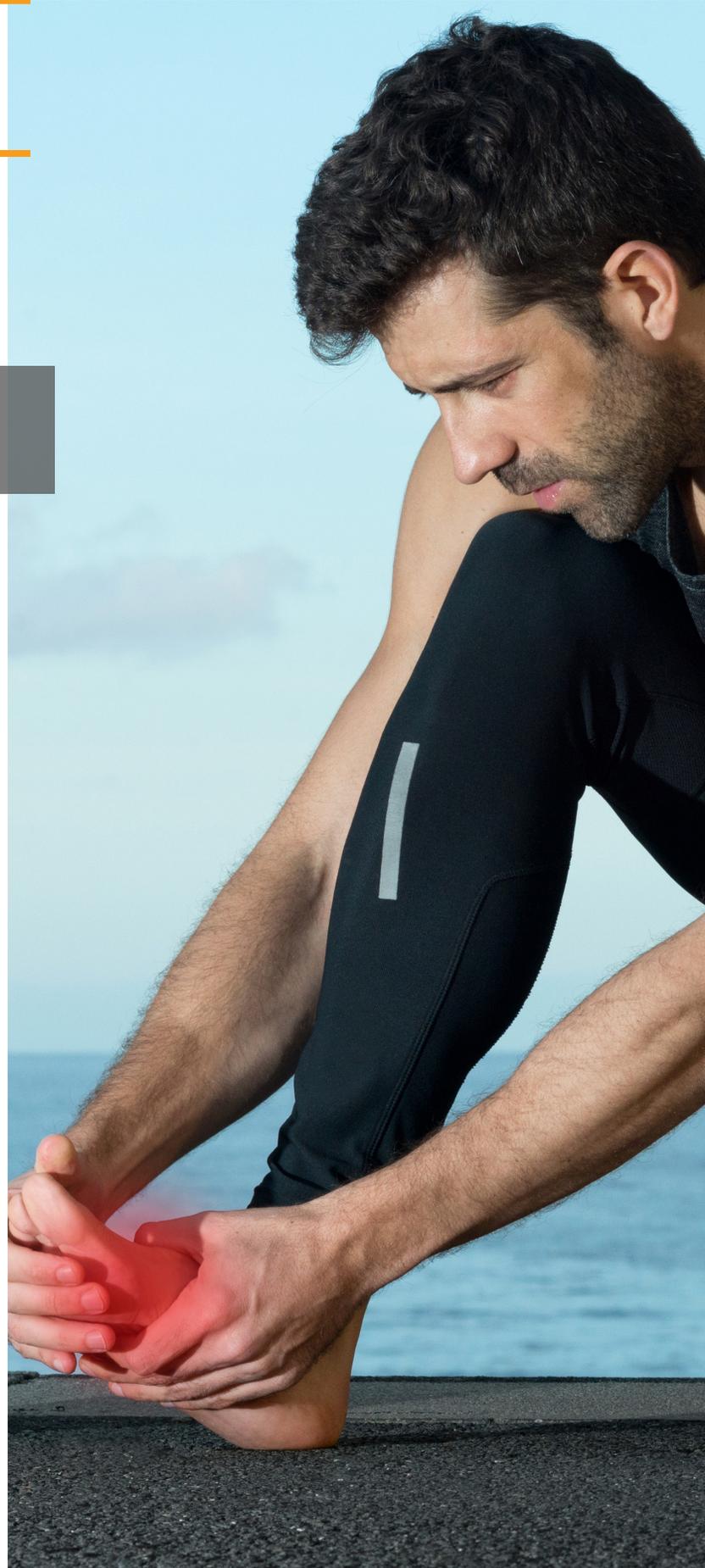
INTER PHALANGEAL SOLUTIONS

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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.





NALA-TOE

INTER PHALANGEAL SOLUTIONS



Kirschner wires are often used for the surgical treatment of proximal inter-phalangeal arthrodesis. This technique is associated with a possible lack of the important rotational stability that is required for proper bone fusion, as well as with the inconvenience during the 4 to 6 weeks healing period. Patients often feel embarrassed by the external remainder of the pin(s) and the need for pin removal.

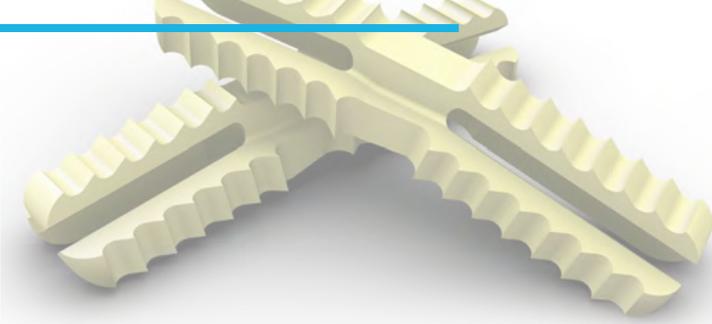
The NALA-TOE implant was designed with a group of foot surgeons. The innovative design of the NALA-TOE induces a cortical intra-medullary stability, reducing the non-union risk due to the axial and rotational bony fragments motion, improving the patient comfort. The Polyketone material radiolucency optimizes X-ray examination.

NALA-TOE ADVANTAGES

- Easy positioning by means of precise and dedicated instruments
- Primary stability is obtained by the 3 point fixation of the NALA-TOE
- Intra-medullary press-fit is achieved by the flexible implant prongs
- Polyketone material does not obscure X-rays
- Multiple sizes widely cover patient's anatomy
- 3 Angles for walking proprioception
- One piece sterile implant
- Intra-medullary fixation
- No implant removal needed after consolidation
- Possible revision



NALA-TOE



Primary stability is assured by the effective way the bony parts are kept together in close contact while preventing them from axial or rotational motion due to the **3 points** fixation principle of the NALA-TOE.

Patient adaptation is achieved by offering different sizes and angulations.

Bio-compatibility is warranted by using Polyketones to manufacture NALA-TOE.

X-ray examination is easier as Polyketones are radio-lucent.



INDICATIONS

NALA-TOE is indicated for use in the of the PIP and DIP joints of the toes.

1. Rigid PIP joint deformities
2. Rigid Hammertoe deformities
3. Claw toe deformities (PIP and DIP joints)
4. Revision hammertoe surgeries
5. Shortening osteotomies of the proximal phalanx

CONTRAINDICATIONS

- Infections
- Skin ulcerations



SURGICAL TECHNIQUE

PROXIMAL INTERPHALANGEAL ARTHRODESIS

JOINT SURFACE PREPARATION

The inter phalangeal joint is approached through a dorsal, longitudinal or transversal incision.

The proximal and middle phalanx articular surfaces are resected.

For the middle phalanx, the use of the calcar reamer (Art. Code: HTR-38-004410) is recommended to preserve as much as possible the subchondral bone.



Art. Code: HTR-38-004410)

PROXIMAL PHALANX INTRAMEDULLAR PREPARATION



The drill named Prox starter drill (Art. Code: HTR-38-014613), 2.0mm diameter is used to centre the proximal phalanx, followed by the Prox Xsmall drill, increasing sequentially the sizes until the optimal fit is found. (Art. Code: HTR-38-014714/HTR-38-014815/HTR-38-014916/HTR-38-014017/HTR-38-014118)



(Art. Code: HTR-38-014714/HTR-38-014815/HTR-38-014916/HTR-38-014017/HTR-38-014118)



MIDDLE PHALANX INTRA MEDULLAR PREPARATION

As for the proximal phalanx, the drill named Midd starter drill (Art. Code: HTR-38-014224) is used, followed by the Midd drills until the size predefined on the proximal phalanx is reached (Art. Code: HTR-38-014319/HTR-38-014420/HTR-38-014521/HTR-38-014622/HTR-38-014723/HTR-38-014224).



(Art. Code: HTR-38-014319/HTR-38-014420/HTR-38-014521/HTR-38-014622/HTR-38-014723/HTR-38-014224)

NALA-TOE IMPLANTATION

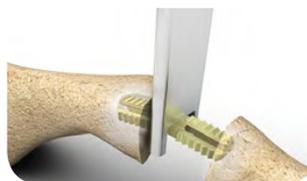


The longer part of the implant is inserted into the proximal phalanx first, with the appropriate holder.

The holder is removed and the middle phalanx is positioned over the shorter part of the implant, using the implant reducer (Art. Code: HTR-38-024803) to center the shorter part in the middle phalanx canal.



Art, Code: HTR-38-004909



Art, Code:HTR-38-024803





ORDERING INFORMATION

INSTRUMENTATION

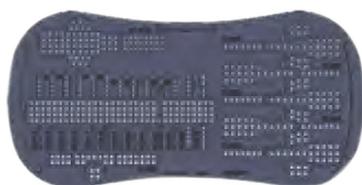
DESCRIPTION	ITEM #
NALA-TOE Prox Starter Drill	HTR-38-014613
NALA-TOE Prox XSmall Drill	HTR-38-014714
NALA-TOE Prox Small Drill	HTR-38-014815
NALA-TOE Prox Medium Drill	HTR-38-014916
NALA-TOE Prox Large Drill	HTR-38-014017
NALA-TOE Prox XLarge Drill	HTR-38-014118
Nala-Toe Midd Starter Drill	HTR-38-014224
Nala-Toe Midd XSmall Drill	HTR-38-014319
Nala-Toe Midd Small Drill	HTR-38-014420
Nala-Toe Midd Medium Drill	HTR-38-014521
Nala-Toe Midd Large Drill	HTR-38-014622
Nala-Toe Midd XLarge Drill	HTR-38-014723
Nala-Toe Implant Reducer	HTR-38-024803
Nala-Toe Holder XSmall	HTR-38-004909
Nala-Toe Holder Small	HTR-38-004006
Nala-Toe Holder Medium	HTR-38-004107
Nala-Toe Holder Large	HTR-38-004208
Nala-Toe Holder XLarge	HTR-38-004312
Nala-Toe Calcar Reamer	HTR-38-004410





Nala-Toe Handle

HTR-38-904510



Nala-Toe Instrument Tray

HTR-38-904510

IMPLANTS

DESCRIPTION	ITEM #
NALA-TOE XSmall 0°	HTR-38-014000
NALA-TOE XSmall 10°	HTR-38-014110
NALA-TOE XSmall 20°	HTR-38-014220
NALA-TOE Small 0°	HTR-38-024300
NALA-TOE Small 10°	HTR-38-024410
NALA-TOE Small 20°	HTR-38-024520
NALA-TOE Medium 0°	HTR-38-034600
NALA-TOE Medium 10°	HTR-38-034710
NALA-TOE Medium 20°	HTR-38-034820
NALA-TOE Large 0°	HTR-38-044900
NALA-TOE Large 10°	HTR-38-044110
NALA-TOE Large 20°	HTR-38-044220
NALA-TOE XLarge 0°	HTR-38-054300
NALA-TOE XLarge 10°	HTR-38-054410
NALA-TOE XLarge 20°	HTR-38-054520

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