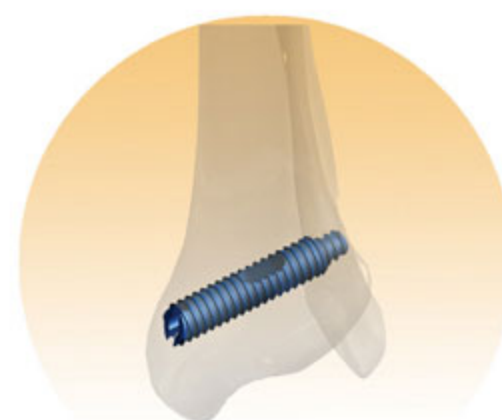


# TIBIA<sup>®</sup>

## Intramedullary Nail (TIN)

Patented



**titanium**

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# Implants and Instruments



## Tibia Intramedullary Nails

|             |   |
|-------------|---|
| 81520280710 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X7X280 mm Ti  |
| 81520300710 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X7X300 mm Ti  |
| 81520320710 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X7X320 mm Ti  |
| 81520340710 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X7X340 mm Ti  |
| 81520340710 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X7X360 mm Ti  |
| 81520340710 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X7X380 mm Ti  |
| 81520280810 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X8X280 mm Ti  |
| 81520300810 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X8X300 mm Ti  |
| 81520320810 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X8X320 mm Ti  |
| 81520340810 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X8X340 mm Ti  |
| 81520360810 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X8X360 mm Ti  |
| 81520360810 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X8X380 mm Ti  |
| 81520360810 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X8X400 mm Ti  |
| 81520300910 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X9X300 mm Ti  |
| 81520320910 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X9X320 mm Ti  |
| 81520340910 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X9X340 mm Ti  |
| 81520360910 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X9X360 mm Ti  |
| 81520380910 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X9X380 mm Ti  |
| 81520380910 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X9X400 mm Ti  |
| 81520301010 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X10X300 mm Ti |
| 81520321010 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X10X320 mm Ti |
| 81520341010 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X10X340 mm Ti |
| 81520361010 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X10X360 mm Ti |
| 81520381010 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X10X380 mm Ti |
| 81520381010 | TIBIA INTRAMEDULLARY NAIL (TIN) 10X10X400 mm Ti |
| 81520301111 | TIBIA INTRAMEDULLARY NAIL (TIN) 11X11X300 mm Ti |
| 81520321111 | TIBIA INTRAMEDULLARY NAIL (TIN) 11X11X320 mm Ti |
| 81520341111 | TIBIA INTRAMEDULLARY NAIL (TIN) 11X11X340 mm Ti |
| 81520361111 | TIBIA INTRAMEDULLARY NAIL (TIN) 11X11X360 mm Ti |
| 81520381111 | TIBIA INTRAMEDULLARY NAIL (TIN) 11X11X380 mm Ti |
| 81520381111 | TIBIA INTRAMEDULLARY NAIL (TIN) 11X11X400 mm Ti |
| 81520341212 | TIBIA INTRAMEDULLARY NAIL (TIN) 12X12X340 mm Ti |
| 81520361212 | TIBIA INTRAMEDULLARY NAIL (TIN) 12X12X360 mm Ti |
| 81520381212 | TIBIA INTRAMEDULLARY NAIL (TIN) 12X12X380 mm Ti |
| 81520401212 | TIBIA INTRAMEDULLARY NAIL (TIN) 12X12X400 mm Ti |
| 81520003411 | DISTAL SUPPORTIVE BOLT LOCKING SCREW 11X34 mm   |
| 81520003511 | DISTAL SUPPORTIVE BOLT LOCKING SCREW 11X35 mm   |
| 81520003611 | DISTAL SUPPORTIVE BOLT LOCKING SCREW 11X36 mm   |
| 81520003711 | DISTAL SUPPORTIVE BOLT LOCKING SCREW 11X37 mm   |
| 81520003811 | DISTAL SUPPORTIVE BOLT LOCKING SCREW 11X38 mm   |
| 81520004011 | DISTAL SUPPORTIVE BOLT LOCKING SCREW 11X40 mm   |
| 81520004211 | DISTAL SUPPORTIVE BOLT LOCKING SCREW 11X42 mm   |

## Screws

|             |                                     |
|-------------|-------------------------------------|
| 81521500001 | SET SECREW 15 mm                    |
| 81521700001 | SET SECREW 17 mm                    |
| 81521900001 | SET SECREW 19 mm                    |
| 81522000001 | SET SECREW 20 mm                    |
| 81522300001 | SET SECREW 23 mm                    |
| 20228250045 | SELF TAPPING CORTICAL SCREW 5X25 mm |
| 20228300045 | SELF TAPPING CORTICAL SCREW 5X30 mm |
| 20228350045 | SELF TAPPING CORTICAL SCREW 5X35 mm |
| 20228400045 | SELF TAPPING CORTICAL SCREW 5X40 mm |
| 20228450045 | SELF TAPPING CORTICAL SCREW 5X45 mm |
| 20228500045 | SELF TAPPING CORTICAL SCREW 5X50 mm |
| 20228550045 | SELF TAPPING CORTICAL SCREW 5X55 mm |
| 20228600045 | SELF TAPPING CORTICAL SCREW 5X60 mm |
| 20228650045 | SELF TAPPING CORTICAL SCREW 5X65 mm |
| 20228700050 | SELF TAPPING CORTICAL SCREW 5X70 mm |
| 81520001000 | TIN COMPRESSION SCREW 0 mm          |
| 81520001000 | TIN LENGTHENING SCREW 5 mm          |
| 81520001000 | TIN LENGTHENING SCREW 10 mm         |
| 81520001500 | TIN LENGTHENING SCREW 15 mm         |
| 81520002000 | TIN LENGTHENING SCREW 20 mm         |

## Instruments

|             |  |
|-------------|--|
| 08050000000 | NAIL HOLDER-INSERTER                         |
| 08050000005 | DSBLS GUIDE                                  |
| 08050000007 | PROXIMAL LOCKING SCREW GUIDE                 |
| 08050000006 | PROXIMAL DRILL BIT GUIDE                     |
| 22310250042 | BONE DRILL BIT 4.2 X 250 mm                  |
| 08050000008 | AA 3,5 SCREWDRIVER                           |
| 08050000009 | AA 2,5 SCREWDRIVER                           |
| 08201000003 | PROXIMAL ENTRY HOLE OPENING DEVICE (AWL)     |
| 08050000018 | GRADED CANNULATED DRILL BIT 8.5 X 5.0 mm     |
| 08050000010 | 0 ALUMINIUM PLATE (PATELLA PROTECTOR)        |
| 08050000011 | 400 mm LONG STAINLESS RULER                  |
| 08050000012 | FLEXIBLE REAMER Ø 7 mm                       |
| 08050000013 | FLEXIBLE REAMER Ø 8 mm                       |
| 08050000014 | FLEXIBLE REAMER Ø 9 mm                       |
| 08050000015 | FLEXIBLE REAMER Ø 10 mm                      |
| 08050000016 | FLEXIBLE REAMER Ø 11 mm                      |
| 08050000017 | FLEXIBLE REAMER Ø 12 mm                      |
| 08050000019 | DISTAL KIRSCHNER WIRE GUIDE                  |
| 23410250120 | KIRSCHNER WIRE 2 X 250 mm                    |
| 02051000450 | CANNULATED DRILL BIT Ø 5 mm                  |
| 08050000023 | DISTAL GUIDE FOR CANNULATED DRILL BIT Ø 5 mm |
| 08050000024 | DISTAL GUIDE FOR GRADED DRILL BIT            |
| 08040000400 | HAMMER                                       |
| 08050000004 | NAIL EXTRACTOR                               |
| 08201000006 | ARTICULATED HAMMER                           |
| 08050000002 | NAIL DRIVER                                  |
| 08050000001 | DSBLS HOLDER-INSERTER                        |
| 08050000021 | SCREW LENGTH GAUGE                           |
| 08050000022 | DISTAL SCREW LENGTH GAUGE                    |

## Introduction

A lot different fixation methods are used in problems regarding Tibia bone. As in the other long bones (tubular), Intramedullary locking nail fixation for Tibia too is widespread used in the most recent years as indications are getting expanded.

Nail systems which they function as providing locking in the proximal and distal with the interlocking screws is preferable. However elimination studies of nail and screw breakage problems and of difficulties in placing the distal locking screws (intensive scopy usage) are getting continued.

New nail system searchings are for that ideal intramedullary fixation method has not be able to be developed. New intramedullary locking nail system which can include the advantages of the intramedullary fixation method the most, which its distal locking design is too different and can perform any required function with only one screw in every directions, has been developed for Tibia.

## Aims (Need for Development)

- ♦ To decrease the numbers of the surgical devices (tool-equipment, instrument) which will be used.
- ♦ To be able to insert and extract easily and so to decrease the operation time.
- ♦ To be able to perform controlled compression.
- ♦ To provide the maximum necessary resistance against to the rotation and angulation (bending) forces.
- ♦ To be able to be perform the locking in both ends (proximal and distal) easily as eliminating the need of scopy and guide or decreasing it to the least (to minimize).
- ♦ To eliminate the nail migration on the ends (proximal and distal migration).
- ♦ To prevent the breakage of the screw and nail.
- ♦ To prevent screw removal.
- ♦ To prevent translation as the nail being at the single plan (profile) and with the single distal locking screw.
- ♦ To provide necessary and possible the most strong fixation (maximum stabilization) on all of the planes.
- ♦ To eliminate the need of external fixation, and to perform intramedullary fixation which allows early movement and loading.

