



 intrauma®

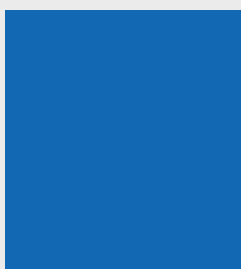
Precision and Stability in
Alignment

Osteotomy System.

Designed to meet the complex challenges of limb alignment and deformity correction in adult patients

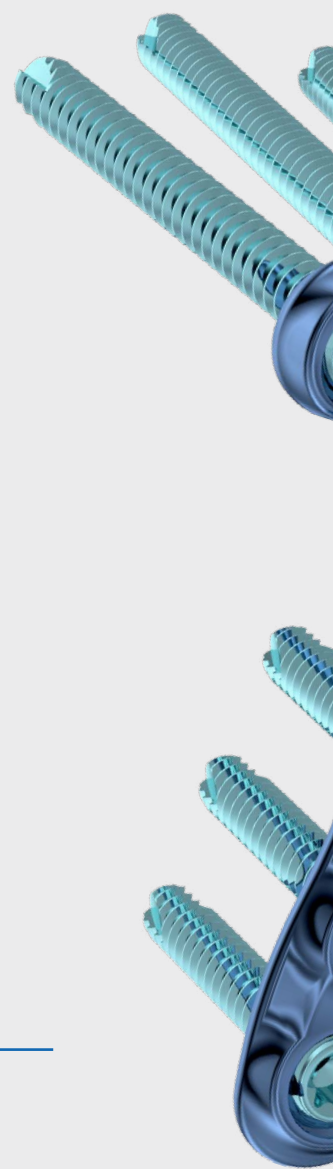
Precision and Stability in Alignment

Osteotomy System overview



Knee and Limb Alignment is Our Focus

The Intrauma Osteotomy System is a dedicated and comprehensive solution for corrective osteotomies. Designed to meet the complex challenges of limb alignment and deformity correction in adult patients, the system provides surgeons with anatomically contoured plates.





INTENDED PURPOSE

O'nil – Internal Plate/Screw Fixation System is designed as a means of osteosynthesis for the surgical treatment of bone fractures. In addition, certain devices are designed for orthopedic surgical procedures such as osteotomies and arthrodesis. The internal fixator system is intended for aid and accelerate the normal healing process, stabilizing the fracture, restoring and maintaining the proper anatomic alignment and the immobilization during the healing process. O'nil is a system composed of various components, such as plates, screws and accessories, which are intended to be used in combination to achieve internal fixation and promote bone healing. It is not intended to replace normal weight-bearing structures or completely withstand the stress placed by load-bearing during normal activities.

The Osteotomy Plates are intended for internal fixation in adult patients undergoing corrective osteotomies, fixation of bone and joint deformities and malalignments, fixation of associated fractures.

INDICATION FOR USE

- Osteotomies of the Distal Femur (DFO)
- Osteotomies of the Proximal Tibia (HTO)
- Osteotomies of the Distal Tibia (DTO)

The complete range of osteotomy plates

A versatile portfolio of anatomically specific plates designed for accurate corrective surgery.

The system features dedicated plates for the three most common areas requiring corrective osteotomy:

HTO

High Tibia Osteotomy - Proximal Extremity

DFO

Distal Femur Osteotomy

DTO

Distal Tibia Osteotomy

System technical features & benefits

Engineered for stability, ease of use, and biological advantage.

Anatomical Contour

No requirement for manual intraoperative shaping or bending, ensuring a precise fit and saving critical surgical time.

Limited Contact (LC) Shaft Profile

Minimizes bone-plate contact, which is designed to preserve periosteal blood supply and promote faster, more reliable bone healing.

Tapered Plate Tip (DFO & DTO)

Facilitates easier, less traumatic plate insertion and handling during surgery.

Minimized Screw Head Protrusion

Reduces the risk of soft tissue irritation.

Rounded Plate Edges

Minimizes the potential for secondary soft tissue complications.

L & R Configurations

Dedicated Left (L) and Right (R) versions for most plates ensure optimal fit and anatomical alignment.

Screws

Cortical screws, and V.A. Locking screws for comprehensive fixation solutions.

Materials & Surface treatments

High-performance materials for strength and biocompatibility. Implants made of titanium and titanium alloy.



Titanium

O'nil V.A. plates are made of Commercially Pure Titanium Grade 4 (CP. Ti Gr.4 – ISO 5832-2).

O'nil V.A. screws are made of Titanium alloy Ti6Al4V - ISO 5832-3.



V.A. (Variable Angle) System

The O'nil V.A. system allows you to adapt the angles of the screws to the different types of fractures and anatomies with possible angles of up to 15° in all directions around the central axis of the plate hole.

O'nil V.A. features

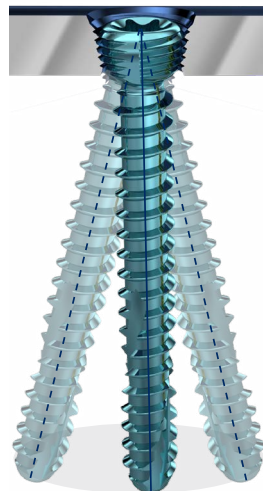
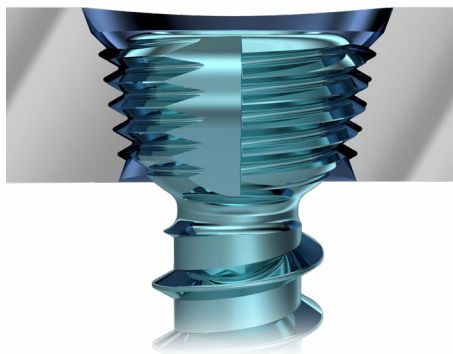
The O'nil V.A. screw has the following characteristics:
It offers optimal axial stability and easy grip of the screw.

Helps avoid soft tissue irritation in bicortical use.

Threaded head with longitudinal grooves to optimize coupling with the dedicated plate holes.

Titanium

O'nil V.A. screws are made of Titanium alloy
Ti6Al4V - ISO 5832-3.



± 15°

Plate range in detail

Application

Corrective osteotomies
of the proximal tibia
(High Tibia Osteotomy).

Configurations

Available in dedicated Left (L) and
Right (R) versions.

Materials Available

CP Titanium Gr. 4
(Anodized Ti-Color).

Opening Osteotomy



High Tibia Osteotomy

Medial Opening HTO Plate - L. 63mm



REF. 641.8101
LEFT



REF. 641.8102
RIGHT



High Tibia Osteotomy

Medial Opening HTO Plus Plate - L. 79mm



REF. 641.8201
LEFT



REF. 641.8202
RIGHT



High Tibia Osteotomy

Medial Opening HTO Plate with Ligamentoplasty - L. 73mm



REF. 641.8301
LEFT



REF. 641.8302
RIGHT

Closing Osteotomy



High Tibia Osteotomy

Lateral Closing HTO Plate - L. 56mm



REF. 641.2101
LEFT



REF. 641.2102
RIGHT



High Tibia Osteotomy

Medial Closing HTO Plate - L. 45mm



REF. 641.8501
LEFT



REF. 641.8502
RIGHT



Scale 1:2

Application

Corrective osteotomies of the distal femur.
(Distal Femur Osteotomy)

Configurations

Available in dedicated Left (L) and Right (R) versions.

Materials Available

CP Titanium Gr. 4 (Anodized Ti-Color).



Ø4.5

Distal Femur Osteotomy

Lateral Opening/Closing DFO Plate - L. 113mm



REF. 633.3101
LEFT



REF. 633.3102
RIGHT



Ø4.5

Distal Femur Osteotomy

Medial Opening/Closing DFO Plate - L. 104mm



REF. 633.7101
LEFT



REF. 633.7102
RIGHT



0 0 5 1

Scale 1:2

Application

Corrective osteotomies of the distal tibia (Distal Tibia Osteotomy).

Configurations

Available in dedicated Left (L) and Right (R) versions.

Unilateral (same plate used for Left and Right).

Materials Available

CP Titanium Gr. 4 (Anodized Ti-Color).



Distal Tibia Osteotomy

Antero-Lateral Closing DTO Plate - L. 77mm



REF. 643.2101
LEFT



REF. 643.2102
RIGHT



Distal Tibia Osteotomy

Medial Closing DTO Plate - L. 77mm



REF. 643.7101



Distal Tibia Osteotomy

Medial Opening DTO Plate - L. 76mm



REF. 643.7401



Scale 1:2

Screws

SCREW

V.A. Locking Screw

Ti6Al4V - ISO 5832-3

REF.	L. (mm)
103.3508	8
103.3510	10
103.3512	12
103.3514	14
103.3516	16
103.3518	18
103.3520	20
103.3522	22
103.3524	24
103.3526	26
103.3528	28
103.3530	30
103.3532	32
103.3534	34
103.3536	36
103.3538	38
103.3540	40
103.3542	42
103.3544	44
103.3546	46
103.3548	48
103.3550	50
103.3555	55
103.3560	60
103.3565	65
103.3570	70
103.3575	75
103.3580	80
103.3585	85
103.3590	90



Ø

3.5

LENGHT

8÷90 mm

HEAD HL15



SCREW

V.A. Locking Screw

Ti6Al4V - ISO 5832-3

REF.	L. (mm)
103.4510	10
103.4512	12
103.4514	14
103.4516	16
103.4518	18
103.4520	20
103.4522	22
103.4524	24
103.4526	26
103.4528	28
103.4530	30
103.4532	32
103.4534	34
103.4536	36
103.4538	38
103.4540	40
103.4542	42
103.4544	44
103.4546	46
103.4548	48
103.4550	50
103.4555	55
103.4560	60
103.4565	65
103.4570	70
103.4575	75
103.4580	80
103.4585	85
103.4590	90
103.4595	95
103.4596	100
103.4597	105
103.4598	110



Ø

4.5

LENGHT

10÷110 mm

HEAD HL25



SCREW

Cortical Screw

Ti6Al4V - ISO 5832-3

REF.	L. (mm)
102.3508	8
102.3510	10
102.3512	12
102.3514	14
102.3516	16
102.3518	18
102.3520	20
102.3522	22
102.3524	24
102.3526	26
102.3528	28
102.3530	30
102.3532	32
102.3534	34
102.3536	36
102.3538	38
102.3540	40
102.3542	42
102.3544	44
102.3546	46
102.3548	48
102.3550	50
102.3555	55
102.3560	60
102.3565	65
102.3570	70
102.3575	75
102.3580	80
102.3585	85
102.3590	90



Ø

3.5

LENGHT

8÷90 mm

HEAD HL15



SCREW

Cortical Screw

Ti6Al4V - ISO 5832-3

REF.	L. (mm)
102.4510	10
102.4512	12
102.4514	14
102.4516	16
102.4518	18
102.4520	20
102.4522	22
102.4524	24
102.4526	26
102.4528	28
102.4530	30
102.4532	32
102.4534	34
102.4536	36
102.4538	38
102.4540	40
102.4542	42
102.4544	44
102.4546	46
102.4548	48
102.4550	50
102.4555	55
102.4560	60
102.4565	65
102.4570	70
102.4575	75
102.4580	80
102.4585	85
102.4590	90
102.4595	95
102.4596	100
102.4597	105
102.4598	110



Ø

4.5

LENGHT

10÷110 mm

HEAD HL25



SURGICAL TECHNIQUE

HTO OPENING OSTEOTOMY

1.

To perform the osteotomy, insert the guidewire, Ø2.2mm (S9224) at the insertion point of the knee tendon up to the lateral cortical bone.



2.

Coupling the desired size of the wedge (S9913/S9914) with the impactor (S9915) and gradually insert the wedge, keeping stable the lateral surface of the tibia.



3.

Insert a second wedge on the lateral surface to improve stability during osteosynthesis.

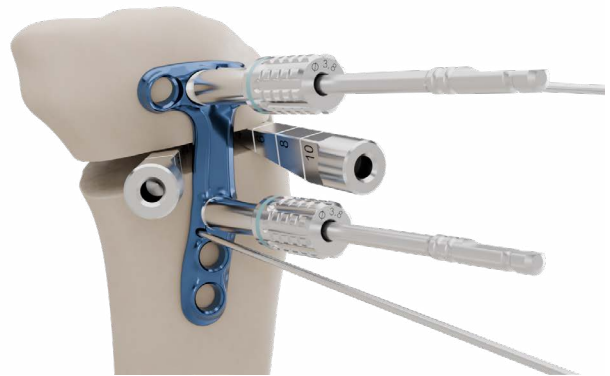


4.

Position the plate and temporarily stabilise it with Kirschner wire Ø1.6mm (S9223/S9234).

**5.**

Insert the threaded V.A. drill guide Ø3.8mm (S9103) into the first hole below the osteotomy.
 Drill with the Ø3.8mm helical drill bit (S9215/S9216).
 Insert a second threaded V.A. drill guide Ø3.8mm (S9103) and drill a second hole.
 Measure with the appropriate gauge (S9303) and insert the corresponding Ø4.5mm V.A. Locking screws of the measured size.

**6.**

Proceed in the same way to complete the implant, inserting the remaining Ø4.5mm V.A. Locking screws.



General instruments

S9001

Instruments case, V.A. Osteotomy (1 pc.)

S9013

Instruments case, V.A. Osteotomy - Complementary (1 pc.)

S9203

Helical Drill Bit, AO, Ø2.5mm L130mm (1 pc.)



S9208

Helical Drill Bit, AO, Ø2.8mm L150mm (1 pc.)



S9211

Helical Drill Bit, AO, Ø3.2mm L145mm (1 pc.)



S9215

Helical Drill Bit, AO, Ø3.8mm L145mm (1 pc.)



S9216

Helical Drill Bit, AO, Ø3.8mm L200mm (1 pc.)



S9102

V.A. threaded Drill Guide, Ø2.8mm (2 pcs)



S9106

V.A. Double Drill Guide, Ø2.8mm (1 pc.)



S9110

Non-locking Drill Guide, Ø2.5mm (1 pc.)



S9103

V.A. threaded Drill Guide Ø3.8mm (2 pcs)



S9107

V.A. Double Drill Guide, Ø3.8mm (1 pc.)



S9405

Screwdriver Shaft AO, HL25 L90mm (1 pc.)



S9406

Screwdriver Shaft AO, HL25 L140mm (1 pc.)



S9228

Tap shaft, AO, Ø3.5mm (1 pc.)



S9229

Tap shaft, AO, Ø4.5mm (1 pc.)

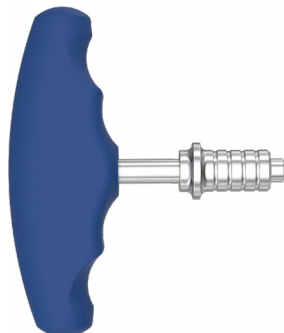




S9410
Handle, AO, Quick Coupling, Large (1 pc.)



S9411
T-Handle, AO, Quick Coupling (1 pc.)



S9011
Torque limiter 3.0Nm (1 pc.)



S9012
Torque limiter 5.5Nm (1 pc.)



S9111
Non-Locking Drill Guide, Ø3.2mm (1 pc.)



S9303
Depth gauge, HL25 (1 pc.)



S9223
Kirschner Wire Ø1.6mm, L180mm (2 pcs)



S9234
Kirschner Wire Ø1.6mm, L120mm (2 pcs)



S9116
**Kirschner Wire Sleeve Ø1.6mm,
Ø2.8mm Ext.** (2 pcs)



S9117
**Kirschner Wire Sleeve Ø3.8mm,
Ø2.8mm Ext.** (2 pcs)



S9402
**Screwdriver Shaft AO, HL15
L90mm** (1 pc.)



S9403
**Screwdriver Shaft AO, HL15
L140mm** (1 pc.)



S9302
Depth gauge, HL15 (1 pc.)



Osteotomy instruments

S9224

Guidewire, Ø2.2mm L180mm (4 pcs)



S9906

Bone Retractor (1 pc.)



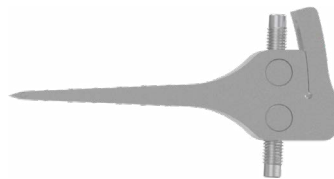
S9915

Wedge impactor (1 pc.)



S9911

Angle retractor, 0-20° (1 pc.)



S9913

Wedge, Small, 4-10mm (2 pcs)



S9914

Wedge, Large, 8-18mm (2 pcs)



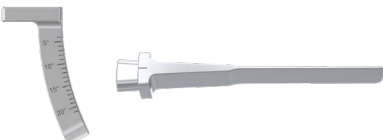
S9412

Hex Screwdriver Shaft, AO 3.5mm L90mm (1 pc.)



S9916

Osteotomy Guide (1 pc.)

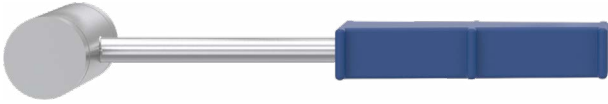


S9912

Osteotomy Gap Measuring Device 5-16mm (1 pc.)



S9004

Mallet, 500g (1 pc.)

S9917

Osteotomy Tissue Retractor (1 pc.)

S9902

Osteotome, 10mm (1 pc.)

S9903

Osteotome, 15mm (1 pc.)

S9904

Osteotome, 20mm (1 pc.)

S9905

Osteotome, 25mm (1 pc.)

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