

# Inion FreedomSystem™

INION

Inion Freedom™ – A Bioabsorbable Solution



Inion FreedomPlate™ and Inion FreedomScrew™ together form a resorbable locking system, which is unique of its kind.

The principle behind the development of the Inion FreedomSystem™ has been to keep everything simple to use without altering standard operative techniques. The FreedomSystem™ is easy to use and offers all the benefits that absorbable implants provide.

Inion FreedomPlate™ and FreedomScrew™ are FDA-cleared and CE-marked medical devices (US Class II, CE Class III), manufactured by Inion Oy. The conformity assessment was conducted by BSI The Netherlands (CE 2797).

## Inion FreedomPlate™

Inion FreedomPlate™ is a versatile fracture fixation plate. The system includes a fully customizable plate which perfectly contours to all anatomies, and fixation screws which can be implanted polyaxially to provide the best possible fixation.

## Benefits

- Unique plate design for every patient by thermo forming and cutting to any desired size and shape
- Ability to be tailored along the operation to meet the challenging anatomies
- Low profile – low risk of tissue irritation
- Variable screw angulations
- Screws interlock to the plate – low risk of screw back-out
- Free placement of the screws
- Transparent and radiolucent
- Low inventory of plates and screws

## Indications

Maintenance of alignment and fixation of

- bone fractures
- osteotomies
- arthrodesis

of long bones, flat bones, short bones, irregular bones, appendicular skeleton and thorax, in the presence of appropriate additional immobilization or fixation.



Maintenance of relative position of weak bony tissue in trauma and reconstructive procedures, i.e.:

- bone grafts
- bone graft substitutes
- bone fragments in comminuted fractures

## Inion FreedomScrew™

Inion FreedomScrew™ is a strong and fully versatile resorbable screw for orthopaedic fixations. Because of its unique manufacturing method and intelligent technical properties, Inion FreedomScrew™ offers many clear benefits for the operating surgeon who appreciates easiness, reliability and versatility from the implant.

## Benefits

- High strength properties to meet the challenges of demanding orthopaedic fixations
- Low screw head profile and ability to create "a new screw head" at a chosen point of the screw shaft by a low temperature hot loop
- Delivered with a disposable metallic adapter, which is compatible with most of the universal instrumentation used in hospitals around the world:

### **ISO, ASIF, AO**

- Can be cut to any desired length during the operation
- Screws interlock with the plate
- Transparent and radiolucent
- Simple and quick insertion using the self-drilling tap

## Indications

The Inion FreedomScrew™ is intended for maintenance of alignment and fixation of bone fractures, comminuted fractures, osteotomies, arthrodesis or bone grafts (i.e., autografts or allografts) in the presence of appropriate additional immobilization (e.g., rigid fixation implants, cast or brace).

In addition, the Inion FreedomScrew™ 3.5/4.0/4.5 mm products are specifically intended for use in following indications:

- A. General indications: maintenance of reduction and fixation of cancellous bone fractures, osteotomies or arthrodesis of the upper extremity, ankle and foot in the presence of appropriate brace and/or immobilization.
- B. Specific indications: fractures and osteotomies of the malleoli, and ankle fractures.



Disposable insertion adapter and compatibility with generic (ISO, ASIF, AO) instrumentation



Good bite! - Optimized screw profile with improved pull-out strength properties







Memory Effect – ability to create new screw heads along the shaft by a low temperature hot loop

## Ordering Information - Plates and Screws



### Inion FreedomPlate™ - One plate fits them all

Art. No.	Description	Qty	
FRF-1066	FreedomPlate™ 20 x 100 mm, Concave	1	

### Inion FreedomScrew™ - Fully threaded

Art. No.	Description	Qty	
OSA-2020	FreedomScrew™ 2.0 x 20 mm	1	
OSA-2740	FreedomScrew™ 2.7 x 40 mm	1	
OSA-3545	FreedomScrew™ 3.5 x 45 mm	1	
OSA-4555	FreedomScrew™ 4.5 x 55 mm	1	



### Inion FreedomScrew™ - Fully threaded, Cannulated

Art. No.	Description	Qty	
OSC-3545	FreedomScrew™ 3.5 x 45 mm, Cannulated	1	
OSC-4555	FreedomScrew™ 4.5 x 55 mm, Cannulated	1	

### Inion FreedomScrew™ - Fully threaded, Cannulated - Syndesmosis screw

Art. No.	Description	Qty	
OSC-4090	FreedomScrew™ 4.0 x 90 mm, Cannulated	1	

### Inion FreedomScrew™ - Partially threaded (LAG), Cannulated

Art. No.	Description	Qty	
OSD-3530	FreedomScrew™ 3.5 x 30 mm (LAG), Cannulated	1	
OSD-3535	FreedomScrew™ 3.5 x 35 mm (LAG), Cannulated	1	
OSD-3540	FreedomScrew™ 3.5 x 40 mm (LAG), Cannulated	1	
OSD-3545	FreedomScrew™ 3.5 x 45 mm (LAG), Cannulated	1	
OSD-4535	FreedomScrew™ 4.5 x 35 mm (LAG), Cannulated	1	
OSD-4540	FreedomScrew™ 4.5 x 40 mm (LAG), Cannulated	1	
OSD-4545	FreedomScrew™ 4.5 x 45 mm (LAG), Cannulated	1	
OSD-4550	FreedomScrew™ 4.5 x 50 mm (LAG), Cannulated	1	



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