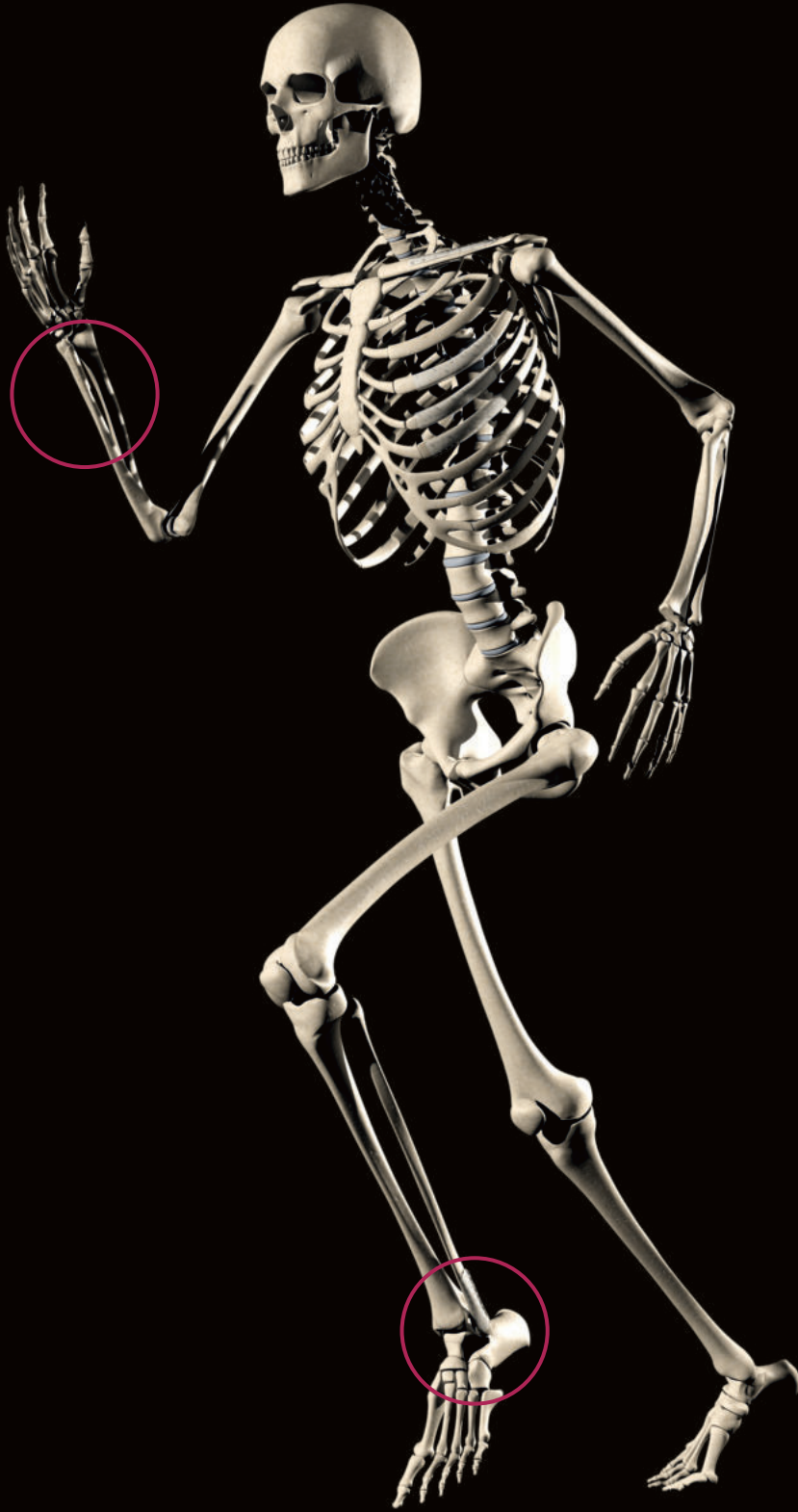


Inion Freedom™

INION

Inion Freedom™ – Biodegradable Solution



Indications

Fracture / Osteotomies / Arthrodesis / Syndesmosis / Hallux Valgus

- 소아 및 성인 단순골절 및 복합 골절
- 소아 및 성인 절골술 및 관절 고정술
- 경비인대결합
- 무지외반증



Ulna fracture



Fibular fracture

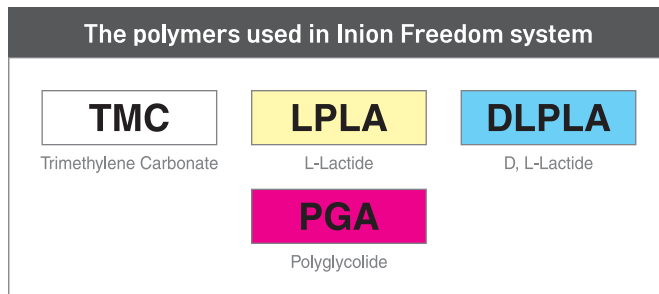


Clavicle fracture

Material

Inion® 생분해성 폴리머 구성

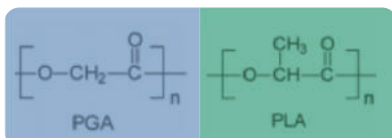
- L-Lactide + D, L-Lactide + Polyglycolide + TMC(Trimethylene Carbonate)



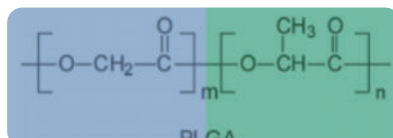
Inion® 생분해성 폴리머 장점 [3세대]

- 최적의 강도유지 및 용해 [3개월까지 100%, 6개월까지 80%강도를 유지한 후 서서히 용해 됩니다.]
- 비결정 구조로 이루어져 예측 가능한 점진적 용해
- 3세대 생분해성 폴리머 블렌드

1st Generation (1970's and 1980's)
▶ Homopolymers (PLLA, PGA)

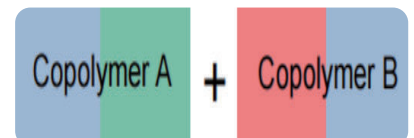


2nd Generation (1990's)
▶ Copolymers (PLDLA, PLGA)



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3rd Generation (2000's)
▶ Copolymer Blends



○ Benefits

● 생체분해성 재질

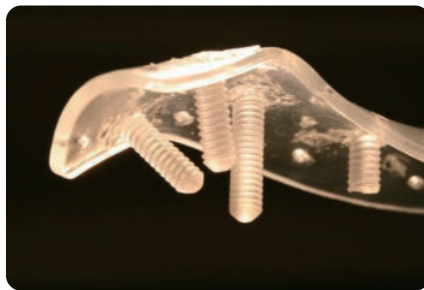
- 체내 분해되어서 안전하게 흡수 및 배출
- 재수술 및 제거 수술 불필요

● 환자 맞춤형 성형 재단 가능

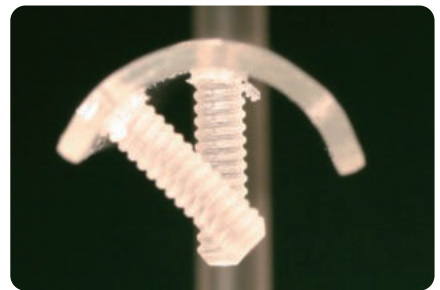
- Anatomy에 최적화된 형태
- Screw 각도를 변경할 수 있는 Polyaxial screw 시스템
- Locking Screw 구조를 통한 screw back-out 위험 감소 및 고정력 증대



Maintenance of alignment
of bone fractures



Polyaxial screw



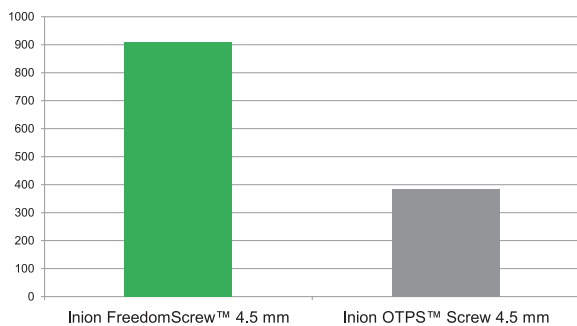
Locking Screw

● 차별화된 강도와 고정력

- 기존 세대 대비 약 **3배** 향상된 강도
- 방향성 비결정 구조를 통한 강도 향상 [Oriented Amorphous structure]

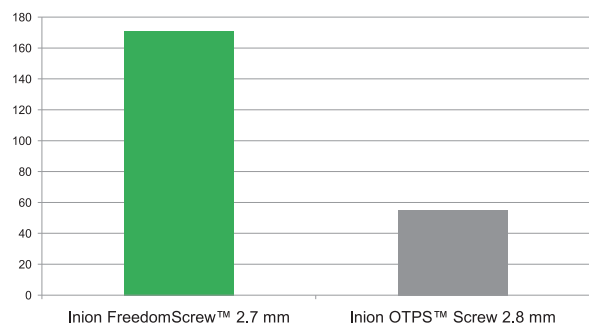
Maximum Shear Load Capacity (N)

Measured after 24 hours in 37°C



Max pull-out load capacity (N)

Measured after 24 hours in 37°C



25년 이상 생분해성 물질을 연구해온 **INION** 사는 세계 최고 수준의 의료기기 제조사입니다.

Ordering Information - Plates and Screws

• Inion FreedomPlate™

Art. No.	Description	Qty
FRF-1066	20 x 100 mm concave plate	1

• Inion FreedomScrew™ – Fully threaded

Art. No.	Description	Qty
OSA-2740	FreedomScrew 2.7 x 40 mm	1
OSA-3545	FreedomScrew 3.5 x 45 mm	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
OSD-4555	FreedomScrew 4.5 x 55 mm (LAG), Cannulated	1

• Inion FreedomScrew™ – Fully threaded, Cannulated

Art. No.	Description	Qty
OSD-3530	FreedomScrew 3.5 x 30 mm, Cannulated	1
OSD-3535	FreedomScrew 3.5 x 45 mm, Cannulated	1
OSD-3540	FreedomScrew 4.5 x 40 mm, Cannulated	1
OSD-3545	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



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