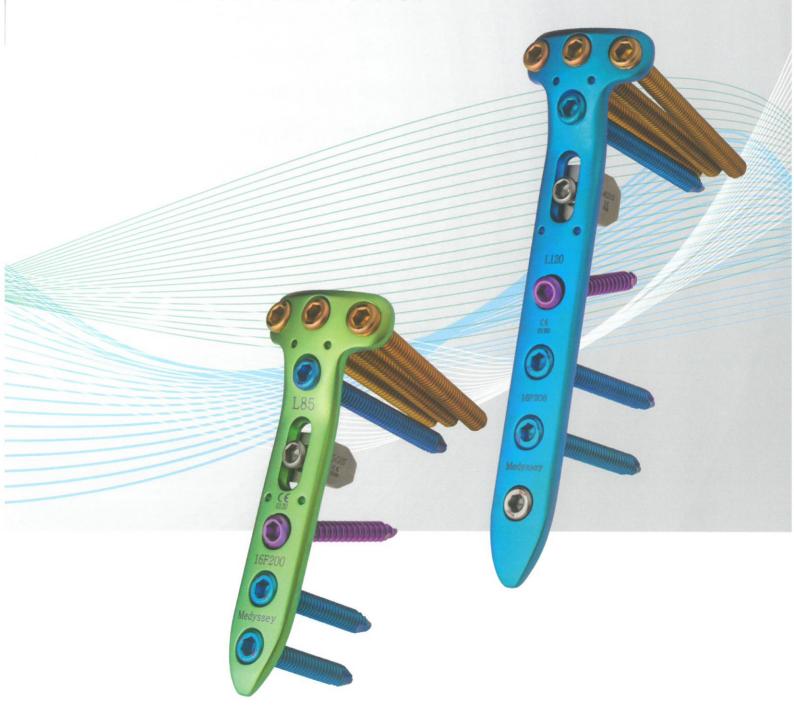
MEDYFIX

HIGH TIBIAL OSTEOTOMY SYSTEM







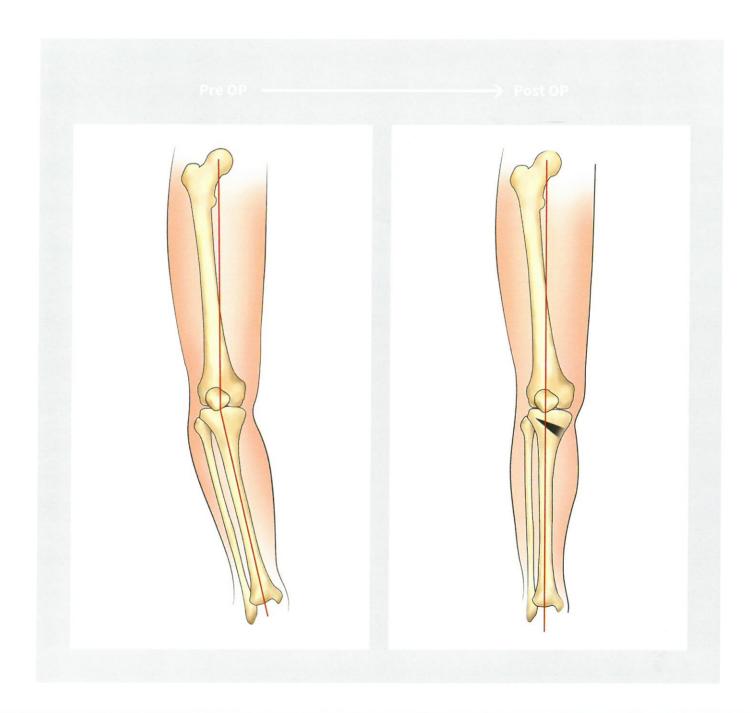


MEDYFIX

High Tibial Osteotomy(HTO)

is an established treatment for unicompartmental arthritis of the knee with malalignment. The classic procedure for correcting varus deformity is the lateral closed wedge osteotomy.

Open wedge osteotomy is interesting because its procedure is simple and there is no need for fibular osteotomy, or TF joint disruption, so personal nerve injury risk can be eliminated. The other advantages of open wedge osteotomy include restoration of anatomy of the diseased medial side, which will provide better bone stock for later TKA, the ability to achieve predictable correction in coronal and sagittal planes, tightening the loosely MCL.



Advantage







HTO open wedge T-plate

- 1. Familiar and smaller anatomical design
- 2. Early weight bearing (2 weeks)
- 3. Stronger support of the osteotomy site (Wedge spacer)
- 4. Guide of screw insertion (Cannulated screw)
- 5. Easy removal of screws
- 6. Stronger plate (Titanium Alloy)

HTO open wedge Ti-plate

- 1. Two types (Low Profile/Locking)
- 2. Product minimization for easy surgery (≤42mm)
- 3. Small incision, Simple fixation → Shorter operation time
- 4. Prevent increase in posterior slope
- 5. Convenient for combined surgical procedures

Indications

- 1. Unicompartmental osteoarthritis with a well-maintained range of motion in a stable knee-classic indications
 - · Less than 65 years old
 - Non obese patient
 - Less than 10° to 15° of flexion contracture
 - · At least 90° flexion
 - Less than 15° of varus or valgus deformity
- 2. Varus deformed knee which combined ligament surgery is necessary for.
- 3. Pain in the medial aspect of the knee resulted from varus deformity with meniscus defects, articular cartilage defects, or osteochondritis dissecans.

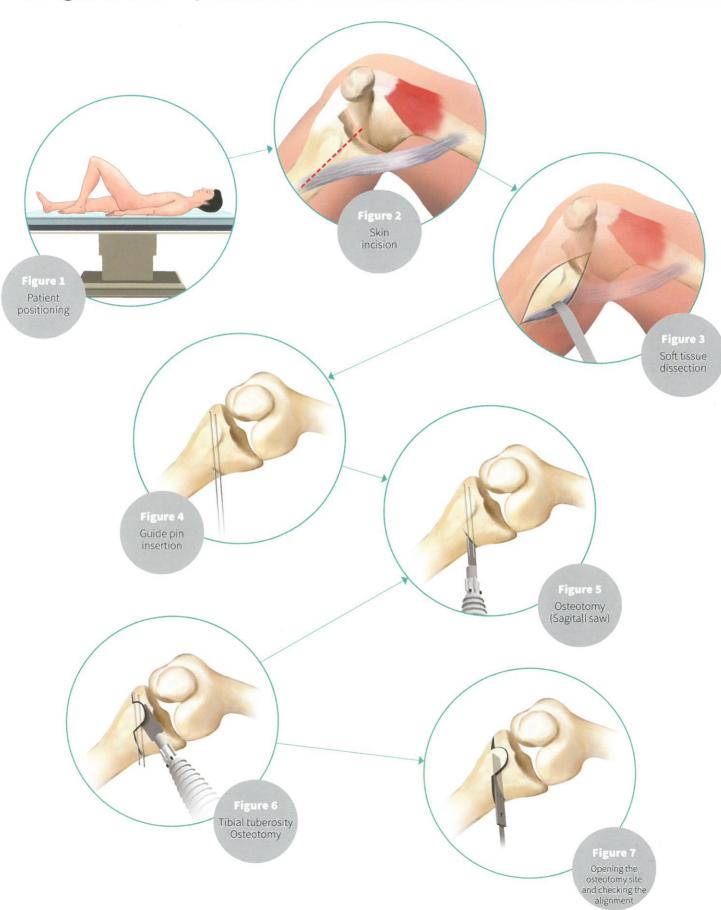
These conditions often require HTO to unload the affected compartment in either a combined or staged procedure.

Mechanical properties of orthopedic alloys developed and used as orthopedic implants

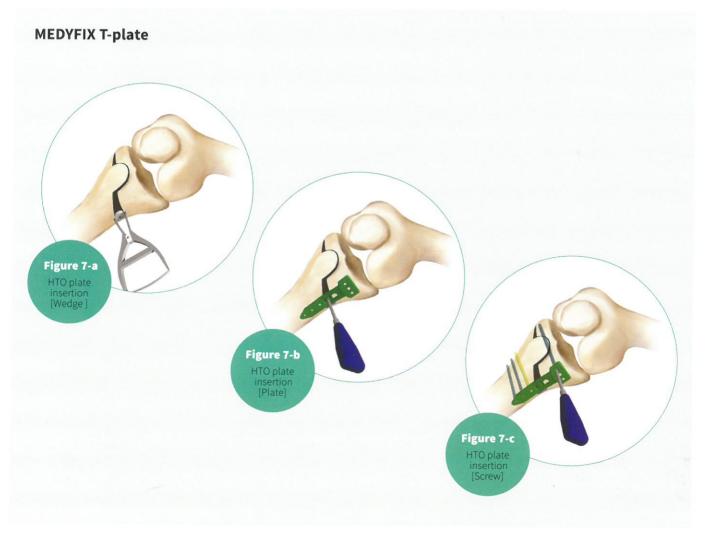
Alloy designation	Elastic modulus		Yield strength		Ultimate tensile strength	
	GPa	106psi	MPa	ksi	MPa	ksi
Pure Titanium	105	15	692	100	785	115
Ti-6Al-4V ELI	110	16	850	125~130	960~970	140~141

🔆 Ti-6AI-4V ELI: Titanium-6Aluminum-4vanadium ELI (Extra Low Interstitial) Alloy for Surgical Implant Applications.

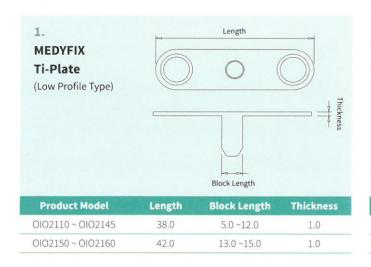
Surgical Technique

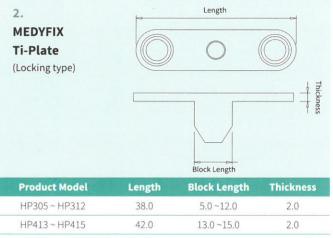


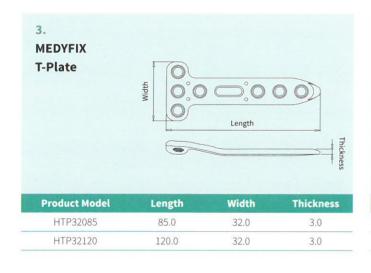


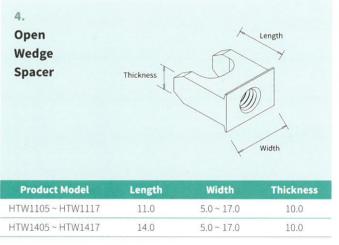


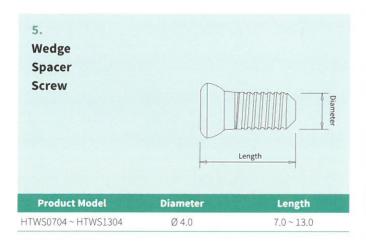
Specification

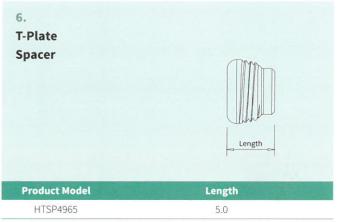


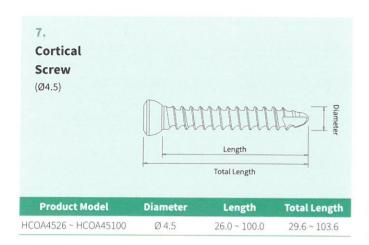


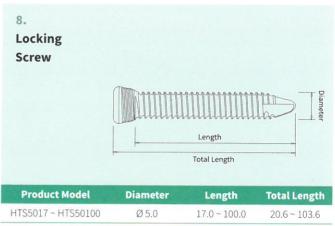


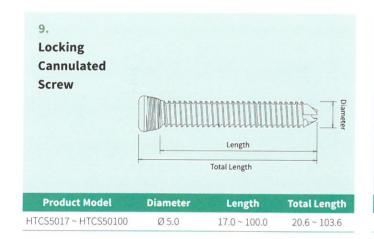


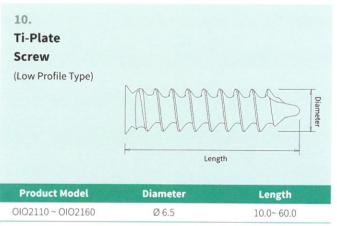












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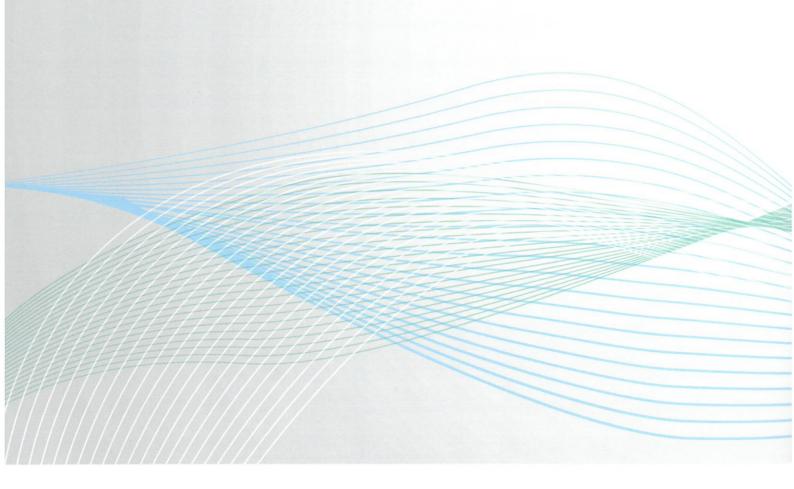
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Products shown are protected

by Korea Patent Numbers: 20-0399039, 20-0410476, 10-2007-0011197, 20-0299664, 20-0208706

by U.S. Patent Numbers : US6.723.128.B2 by Japan Patent Numbers : 3148465

as well as other pending U.S. and foreign patent applications.





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