



iBalance[®]

HTO SYSTEM

*Innovative
Solutions
for Varus Knee
Realignment*

*Guided instrumentation, a step-by-step technique,
and proven leading-edge PEEK implants*

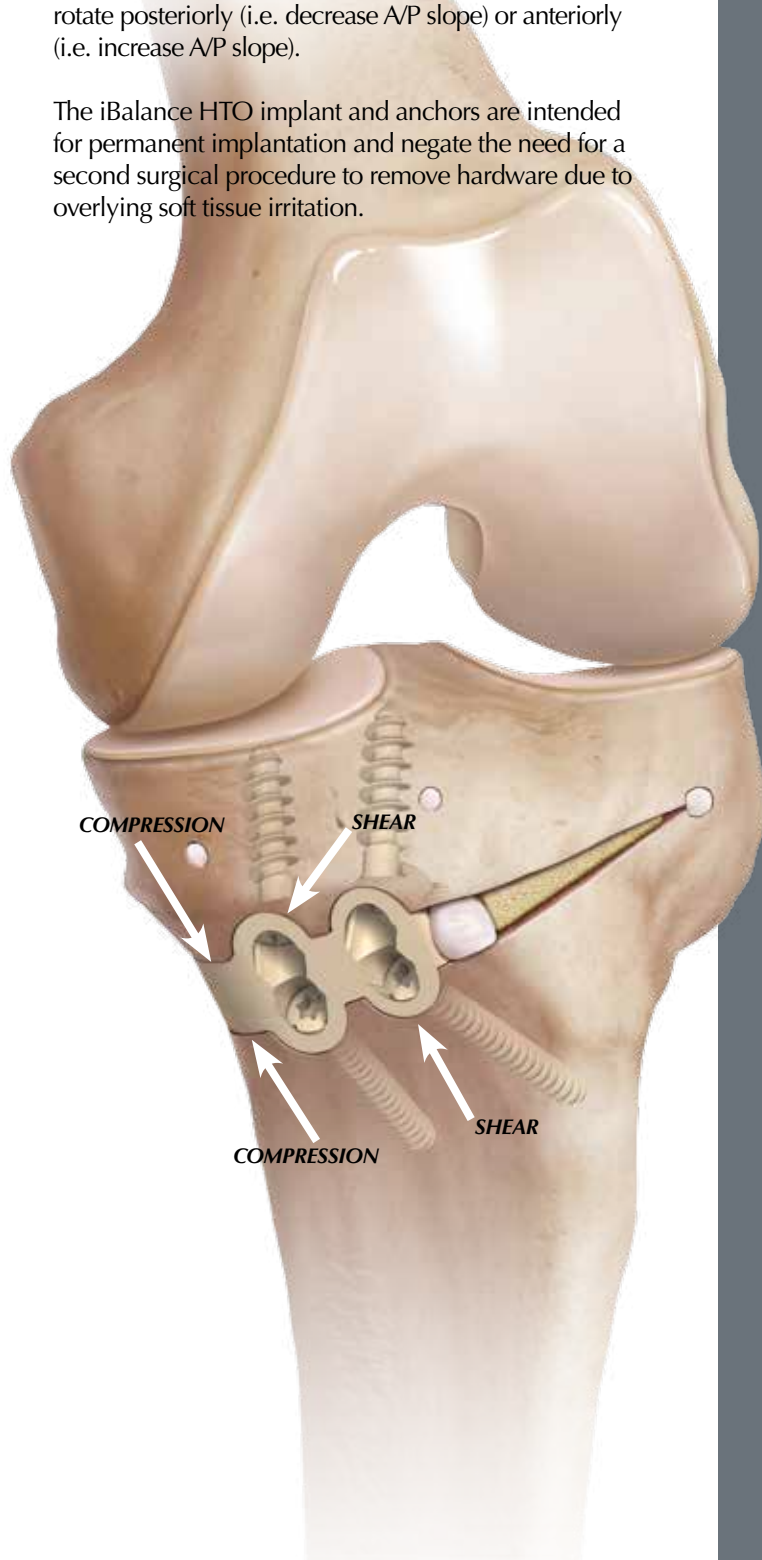
Arthrex[®]

HTO Medial PEEK Implant

A proven leading-edge solution for high tibial osteotomies

The iBalance HTO medial PEEK implant creates a stable construct by supporting the osteotomy opening along the posterior/medial and anterior/medial cortices of the tibia. The implant's construct, coupled with a very substantial lateral bone bridge provided by the hinge pin, promotes postoperative stability. Therefore, during load-bearing, the tibial plateau is not allowed to rotate posteriorly (i.e. decrease A/P slope) or anteriorly (i.e. increase A/P slope).

The iBalance HTO implant and anchors are intended for permanent implantation and negate the need for a second surgical procedure to remove hardware due to overlying soft tissue irritation.



Superior Strength in PEEK

- Supporting in excess of 18 kN (+4,000lbf) in compression*
- Resisted prolonged cyclic testing of 7500N (+1,600 lbf) for 5 million cycles without failure*
- Implant shape distributes loading along the posterior/medial and anterior/medial cortices of the proximal tibia
- Designed to improve progressive weight-bearing
- Keyholes: figure-eight design resists torsional forces and maintains alignment

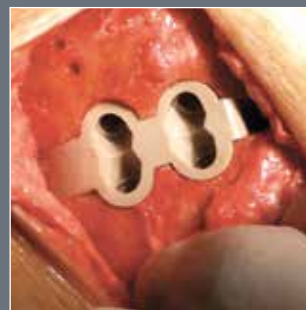
Anatomically-sized to the patient

- Implant profile flush with bone providing minimal soft tissue irritation
- Built-in slope preserving angles
- Provides an angular solution for the surgeon's angular correction
- Small = 6-15° Large = 5-15°
Medium = 5-15° X-large = 5-14°



Bone Growth

- PEEK material more closely matches modulus of bone versus metal implants
- Allows microstrain transfer to stimulate new bone growth*
- Intended for permanent implantation and facilitates revision to TKA
- OSferion β -TCP wedges and ^{IRF}StimuBlast™ DBM can be mixed with ACP prior to implantation



Patient - 3 years, 6 months post-op
Konrad Slynarski, M.D., PhD
CMS Clinic

*data on file

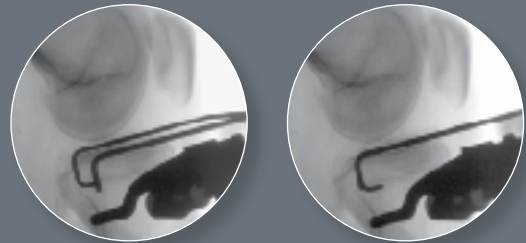
HTO Instrumentation

Making a historically artistic technique, guided, safe and reproducible



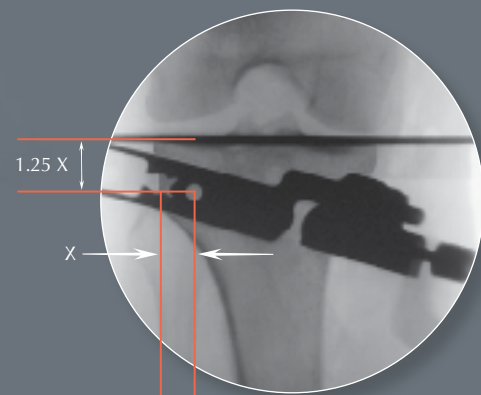
Reproducibility through the precision of fluoroscopy

In conjunction with fluoroscopy, the Biplanar Alignment Guide aligns the iBalance HTO instrumentation to the A/P slope plane and sagittal plane of the tibia.



Innovative Hinge Pin

The 4.5 mm bi-cortical hole defines the lateral end of the osteotomy cut, acting as a stress reliever, and dramatically reduces lateral cortex fracture. The Hinge Pin creates lateral border of the "safety envelope" during cutting.



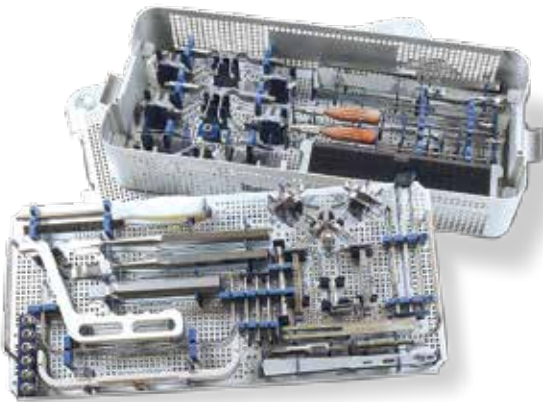
Safety

An innovative "safety envelope" (the safety field that protects soft tissue structures, created by the Hinge Pin, the Patellar Tendon Protector, and the NV Shield) insures confident cuts with a sagittal saw. It protects/isolates all soft tissues so patellar tendon and neurovascular structures are safe.¹

1. Jingo Kim, MD; Robert Allaire, MD; Christopher D. Harner, MD, *Vascular Safety During High Tibial Osteotomy - A Cadaveric Angiographic Study*, The American Journal of Sports Medicine, 2010, 38:810 (originally published online March 3, 2010).

Step-by-Step Technique

Allows predictable surgery times



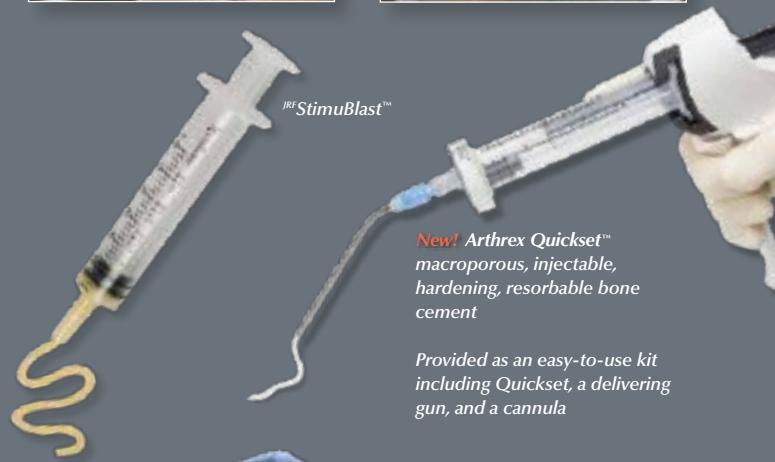
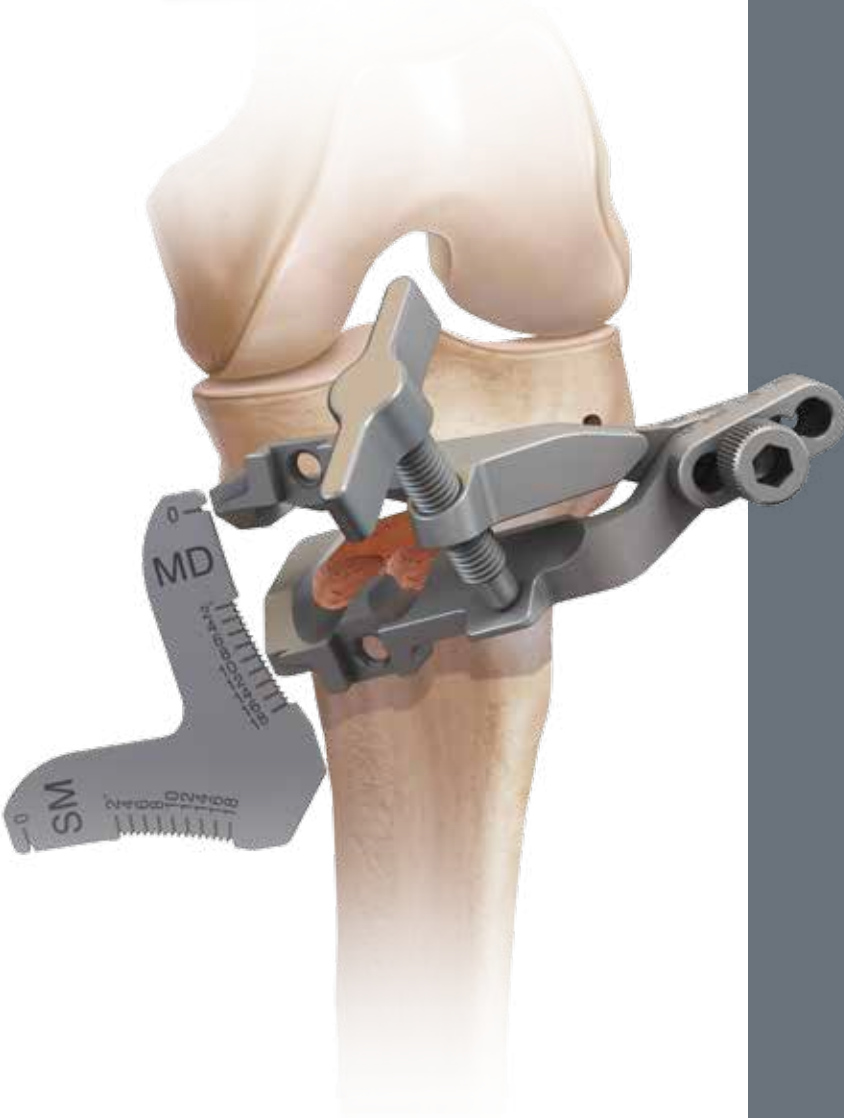
The step-by-step guided technique of the iBalance HTO System builds surgeon confidence through safety and reproducibility. The iBalance HTO System is ideal for any surgeon who desires to master high tibial osteotomies.

Precision and accuracy yield predictability

- Instrumented, guided-system approach, precise cuts with sagittal saw versus osteotomes
- Accurate correction through precise instrumentation
- Step-by-step surgical technique (LT0122) that references the patient's anatomy
- Guided instrumentation allows the same cut every time, making HTO reproducibility a reality

Opening Jack

- Opens the osteotomy in a controlled manner, enabling the cortical and cancellous trabecular micro structures to stress-relieve and aid in the prevention of macro fractures of the lateral cortex
- Allows surgeon to easily seat the implant into the osteotomy



New! Arthrex Quickset™ macroporous, injectable, hardening, resorbable bone cement

Provided as an easy-to-use kit including Quickset, a delivering gun, and a cannula

OSferion™ β -TCP wedges soaked in Autologous Conditioned Plasma (ACP) prior to implantation

Ordering Information

iBalance HTO Instrument Set (AR-13400S) includes:

Steel Rule, 120 mm	AR-13410
Cobb Elevator	AR-13411-01
Posterior Elevator	AR-13411-02
NV Shield, left, SM/MD	AR-13412-01
NV Shield, right, SM/MD	AR-13412-02
NV Shield, left, LG/XL	AR-13412-03
NV Shield, right, LG/XL	AR-13412-04
Fastener & Lock Washer	AR-13413
NV Shield Handle	AR-13414
Hex Driver	AR-13415
Adjustable Base, left	AR-13416-01
Adjustable Base, right	AR-13416-02
Keyhole Guide, left	AR-13417-01
Keyhole Guide, right	AR-13417-02
Alignment Handle	AR-13418
Hinge Pin Aimer	AR-13419-01
Hinge Pin Aimer, Collet Nut	AR-13419-02
Biplanar Alignment Mount	AR-13420-01
Biplanar Alignment Bar	AR-13420-02
Multi-Tool	AR-13421
Fixation Pin	AR-13422
Tissue Protector	AR-13423
Hinge Pin Drill, AO Connection	AR-13424-01
Hinge Pin Drill, Chuck Connection	AR-13424-02
Hinge Pin	AR-13424-03
Hinge Pin Drill Stop	AR-13424-04
Keyhole Reamer	AR-13425
Keyhole Provisional Pin	AR-13426
Cutting Guide, left, SM/MD	AR-13427-01
Cutting Guide, right, SM/MD	AR-13427-02
Cutting Guide, left, LG/XL	AR-13428-01
Cutting Guide, right, LG/XL	AR-13428-02
Medial Osteotome, beveled	AR-13429-01
Osteotome Handle	AR-13429-02
Opening Jack, back arm	AR-13430-01
Opening Jack, front arm	AR-13430-02
Opening Jack Fastener	AR-13430-03
Opening Jack Turn Key	AR-13430-04
Correction Guide, SM/MD	AR-13431-01
Correction Guide, LG/XL	AR-13431-02
Graft Tamp	AR-13432
Anchor Drill Guide	AR-13433
Anchor Drill, Chuck Connection	AR-13434-01
Anchor Drill, AO Connection	AR-13434-02
Anchor Depth Gauge	AR-13435
Anchor Tap Guide	AR-13436
Cortical Bone Tap, 4.5 mm	AR-13437
Driver Handle	AR-13438
Anchor Driver	AR-13439
iBalance Instrument Case	AR-13400C

iBalance Implants:

iBalance HTO Implant, SM 12°	AR-13400S-12
iBalance HTO Implants, SM 6°/MD 5° – SM 15°/MD 13°	AR-13400M-05 – 13
iBalance HTO Implant, MD 14° & 15°	AR-13400L-14 & 15
iBalance HTO Implant, LG 5°	AR-13400L-05
iBalance HTO Implants, LG 6°/XL 5° – LG 15°/XL 14°	AR-13400L-06 – 15

(please refer to the back of this brochure for a detailed list of implants)

iBalance Anchors:

iBalance HTO Anchors, cancellous, 20 mm – 32 mm	AR-13401-20 – 32
iBalance HTO Anchors, cortical, 24 mm – 52 mm	AR-13402-24 – 52

Suggested Bone Substitute:

OSferion Osteotomy Wedge, 7 mm x 30 mm	AR-13370-1
OSferion Osteotomy Wedge, 10 mm x 30 mm	AR-13370-2
OSferion Osteotomy Wedge, 12 mm x 35 mm	AR-13370-3
OSferion Osteotomy Wedge, 15 mm x 35 mm	AR-13370-4

Ordering Information

iBalance Implants:

iBalance HTO Implant, SM 12°	AR-13400S-12
iBalance HTO Implant, SM 6°/MD 5°	AR-13400M-05
iBalance HTO Implant, SM 7°/MD 6°	AR-13400M-06
iBalance HTO Implant, SM 8°/MD 7°	AR-13400M-07
iBalance HTO Implant, SM 9°/MD 8°	AR-13400M-08
iBalance HTO Implant, SM 10°/MD 9°	AR-13400M-09
iBalance HTO Implant, SM 11°/MD 10°	AR-13400M-10
iBalance HTO Implant, SM 13°/MD 11°	AR-13400M-11
iBalance HTO Implant, SM 14°/MD 12°	AR-13400M-12
iBalance HTO Implant, SM 15°/MD 13°	AR-13400M-13
iBalance HTO Implant, MD 14°	AR-13400M-14
iBalance HTO Implant, MD 15°	AR-13400M-15
iBalance HTO Implant, LG 5°	AR-13400L-05
iBalance HTO Implant, LG 6°/XL 5°	AR-13400L-06
iBalance HTO Implant, LG 7°/XL 6°	AR-13400L-07
iBalance HTO Implant, LG 8°/XL 7°	AR-13400L-08
iBalance HTO Implant, LG 9°/XL 8°	AR-13400L-09
iBalance HTO Implant, LG 10°/XL 9°	AR-13400L-10
iBalance HTO Implant, LG 11°/XL 10°	AR-13400L-11
iBalance HTO Implant, LG 12°/XL 11°	AR-13400L-12
iBalance HTO Implant, LG 13°/XL 12°	AR-13400L-13
iBalance HTO Implant, LG 14°/XL 13°	AR-13400L-14
iBalance HTO Implant, LG 15°/XL 14°	AR-13400L-15



For more information go to:
<http://iBalance.arthrex.com>

U.S. PATENT PENDING

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