

MicroLift®

Controlled, single-axis transverse translation of a bone segment.

The MicroLift® Translation Fixator is a component of the Response Ortho Smart Fixator® – Hexapod System. MicroLift® provides controlled, single-axis transverse translation of a bone segment. It can be applied to a cortical bone flap of the tibia or to a segment of the fibula, and is used within the indications for use of the Smart Fixator® – Hexapod System.

15 mm

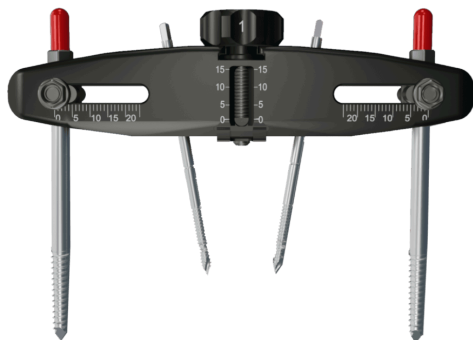
maximum
transport capacity

0.25 mm

per click, self-locking
ratchet

6

small incisions,
minimally invasive



Closed housing

Minimizes mechanical play along a predefined, single-axis distraction path.

V-shaped pins

Unicortical 3.0 mm transport pins in a V configuration resist pull-out.

Patient-friendly

UP/DOWN markings and a 1–4 indicator let the patient track the daily adjustments.

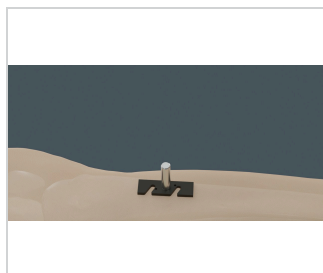
Standalone or hybrid

Use alone, or with a Smart Fixator® frame when deformity correction is also needed.

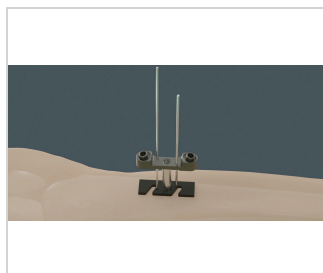
MicroLift® at a Glance

From template to translation

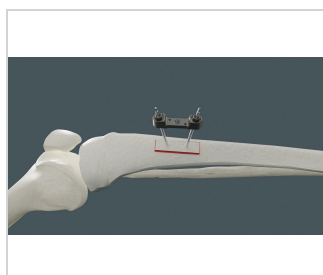
Operative Steps



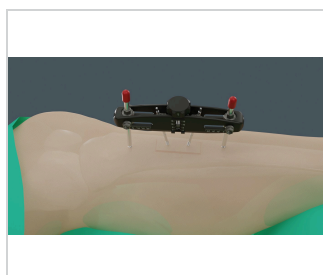
1 Position the bone flap template about 5 cm distal to the tibial tuberosity.



2 Slide the transport module on and insert the unicortical transport pins.



3 Outline the window with a 2.0 mm drill and free the flap with the osteotome.



4 Engage the device and stabilize with bicortical 5.0 mm shaft pins.

Postoperative Protocol

Latency	5 or 7 days
Distraction	0.25 mm × 2–4/day, over 14–28 days
Rest	3 days
Compression	up to 1 mm/day, ~14 days
Removal	2 weeks after compression

Rate and amount of distraction are prescribed by the treating physician.

Specifications

Transport capacity	15 mm, single axis
Adjustment	0.25 mm per click, auto-locking
Transport pins	3.0 mm, V-shaped, unicortical
Shaft pins	5.0 mm, bicortical
Bone flap template	1.5 × 5.0 cm

Indications for Use

The Smart Fixator - Hexapod System is indicated for adult patients and pediatric patients greater than 2 through 21 years of age for the following:

- Joint contracture resulting in loss of range of motion.
- Fractures and disease which generally may result in joint contractures or loss of range of motion.
- Fractures requiring distraction.
- Open and closed fracture fixation, including fractures of long bones (intracapsular, intertrochanteric, supracondylar, condylar).
- Correction of bony or soft tissue defects.
- Correction of bony or soft tissue deformities.
- Joint arthrodesis.
- Infected fractures or nonunion.
- Limb lengthening by epiphyseal or metaphyseal distraction.
- Pseudoarthrosis of long bones.

Prescription use only.

Hybrid Application



MicroLift® can be used alone, or mounted within a Smart Fixator® circular frame when deformity correction is also needed.