

Hoffmann® LRF smarHEX™



Bringing the future into the frame

Hoffmann LRF smarHEX is a platform designed to enhance frame versatility, support patient compliance, and drive connected care through semi-automatic controllers, mobile application guidance, additional components and reimagined software.

Controllers designed for **semi-automatic correction**

Semi-automatic correction ability via Bluetooth enabled controllers that adjust the struts according to the surgeon's correction plan.

- **Semi-automatic adjustments:** Lithium-ion battery powered controller attaches to support strut adjustments through the correction plan.
- **Compact controller:** Modular design helps maintain a streamlined frame profile.



Additional components and **enhanced technology**

Engineered with high-performance materials machined to precise tolerances, Hoffmann LRF smartHEX components are designed to be low profile while supporting enhanced physical access and radiographic visibility without compromising stability.

- **Tabbed rings and fixation:** Full, open, and long foot rings offered in both carbon and aluminum. Half-rings and U-plate offered in aluminum, while short foot and foot-arch offered in carbon. Rings marked for intuitive strut attachment.
- **Strut versatility:** Mini, extra short, short, medium, and long struts with double telescoping feature to increase length range and minimize strut changeouts.
- **Sensory feedback:** Hexapod struts with integrated clicking mechanism for pronounced audible and tactile feedback when controllers are not used.
- **Flexible placement:** Offset plates designed to help minimize strut changeouts, provide placement freedom above or below the ring, and allow close ring-to-ring distance.

Additional components

- Half-pins with longer HA coating, expanded size range*, cortical threads, and blunt tip designed to reduce the risk of thermal necrosis¹
- Streamlined instrumentation with one tissue sleeve and direct coupling to power pin connections
- Drill bits marked for depth gauge measurement
- Pin cubes and wire posts for height adjusted pins and wires
- Low profile apex pin adapter and angled pin adapter with locking mechanism
- Cannulated and slotted low-profile wire bolts (1.5mm above the ring)
- Teeth-like serrations on components designed for less rotation and better grip on both aluminum and carbon fiber rings
- Wire guide for straightened trajectories across the ring
- Bone transport and bone lengthening clickers with light weight, fully aluminum body
- Easy to identify ID caps and colored safety clips
- Controller trials for intra-op confirmation of placement

*Versus legacy Apex Pins

Mobile application for **connected guidance**

The mobile application helps to keep the correction plan visible and accessible, connecting patient guidance with surgeon oversight throughout treatment. Once connected to the software plan via Bluetooth, the patient will use the mobile app to guide the struts with a simple click of a button.



Stryker HexConnect

- **Plan guidance:** Mobile app connects to the software plan and guides the controllers through the correction, sending reminders to the patient throughout the treatment.
- **Shared visibility:** As the mobile app guides the controllers through the correction plan, the surgeon can see the progress made via the web app.
- **Remote support:** Supports streamlined remote residual correction when needed.
- **Patient compliance:** Semi-automatic controllers combined with the mobile app notifications designed to support patient compliance.

Reimagined software for modern correction planning

The Hoffmann LRF smartHEX web application offers assistance in planning corrections for a range of deformities and complex limb reconstruction procedures.

- **Line tool:** Gives surgeons the capability to visualize, analyze, and correct complex deformities.
- **Complete joint angle analysis module:** Uses full-length X-rays to support comprehensive joint angle assessment and deformity planning.
- **Enhanced capabilities:** Overcorrection, hinge point alignment, and ring-to-ring distance computation abilities.
- **Expanded mounting support:** Supports all strut mounting options and offset plates to give surgeons flexibility when planning frame constructs.
- **Non-orthogonal ring support:** Enables planning with non-orthogonal ring placement for flexibility in post-op constructs.
- **Single-page cloud-based web app:** Designed for speed, scalability, and streamlined access to correction planning tools.



Tailored solutions with diverse frame constructs

A broad set of frame options supports a range of correction needs and construct preferences, enabling the platform to adapt to the clinical objective.



Trauma & Extremities

1. Wikenheiser MA, Market MD, Lewallen DG, Chao EYS. Thermal response and torque resistance of five cortical half pins under simulated insertion technique. J.Orthop Res 1995; 13(4); 615-9

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