Hoffmann® II
Compact™ MRI

Over 60 Years Proven
External Fixation Experience
Stryker continues its long history of innovation in external fixation by introducing a completely new system specifically designed for use in the MRI environment:

**Hoffmann® II Compact™ MRI External Fixation System** has been designed in compliance with ASTM Designation F2503-05 and is intended for use in MRI environments up to 3.0 Tesla. The entire system was designed from the ground up for use in the MRI environment. The unique systemic approach of this design focuses in on the two key areas of concern in MRI use: frame displacement due to magnetic (mechanical) forces, and frame heating due to induced electrical currents (thermal forces):

### Addressing the Mechanical issues

Non-ferromagnetic materials are used to construct all the metallic components:

- Clamps and couplings are made from a combination of **aluminum and austenitic steel**
- Posts and Apex® Half Pins are made from austenitic stainless steel

Since these components are non-magnetic, the magnetic fields in the MRI environment will not cause the frame displacement that can pose a risk to the patient or scanner.
Of course the outstanding performance of the original Hoffmann® II Compact™ has been retained in the Hoffmann® II Compact™ MRI External Fixation System:

- **Patented Snap-fit connections** allow rapid frame construction. Also, additional clamps may be added at any time.
- **Single point of tightening** for rapid and easy frame construction.
- **Independent, multiplanar pin placement** allows flexibility in pin placement and very stable frame construction.
- **Small, lightweight clamps** for lower profile frames, better visualization and access to the fracture site, as well as increased patient comfort.
- **Color coded components** for easy identification.
- **Full System Compatibility** for quick bridging to the larger Hoffmann® II MRI system.

**Addressing the **Thermal** issue:**

Carbon Fiber rods are coated with Vectran:
- Electrically insulating
- Radiolucent
- Light weight
- Yellow color with easy to read size etchings

Whole frame testing indicates these rods insulate against the induced electrical currents in the MRI and significantly reduce half pin heating.³

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1. The first Hoffmann frame was introduced by Dr. Raoul Hoffmann in 1938. Asche, Roth, Schroeder. The External Fixator; Standard indications, operating instructions and examples of frame configurations. Einhorn-Presse Verlag 2002
2. Austenitic stainless steels are non-magnetic, non-heat-treatable steels that are usually annealed and cold worked
3. John Nyenhuis, PhD; Professor of Electrical and Computer Engineering, Purdue University. Magnetic Resonance Imaging Testing of External Fixation Frames: Stryker® Hoffmann® II MRI vs. Synthes® MRI Safe. Stryker White Paper 2005 Lit Number LSA55
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