

stryker®

---

Trauma

# Hoffmann® II

## Compact™ MRI

---

Raising the Bar Once Again



# Hoffmann® II

## Compact™ MRI

Stryker continues its long history of innovation in external fixation by introducing a completely new system specifically designed to allow use in the MRI environment:

**Hoffmann® II Compact™ MRI External Fixation System** has been designed in compliance with ASTM Standard F2503-05 and may be used in MRI environments up to 3.0 Tesla. The entire system was **designed from the ground up for safety when placed 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):

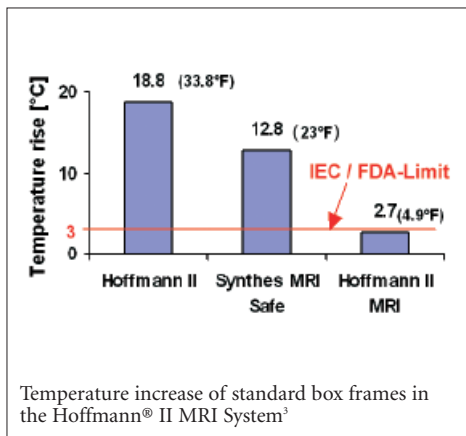


### Addressing the Mechanical issues

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

- Clamps and couplings are made from a combination of **aluminum and austenitic steel**<sup>2</sup>
- 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



## Addressing the **Thermal** issue:

Carbon Fiber rods are coated with Vectran™, which is:

- 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.**<sup>3</sup>

Of course the established 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.

## **Hoffmann® II Compact™ MRI**

Raising the bar once again.

<sup>1</sup> 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-Press Verlag 2002

<sup>2</sup> Austenitic stainless steels are non-magnetic, non heat-treatable steels that are usually annealed and cold worked

<sup>3</sup> 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

---

## Joint Replacements

---

## Trauma

---

## Spine

---

## Micro Implants

---

## Orthobiologics

---

## Instruments

---

## Interventional Pain

---

## Navigation

---

## Endoscopy

---

## Communications

---

## Imaging

---

## Patient Handling Equipment

---

## EMS Equipment

---

Stryker Orthopaedics

Mahwah, NJ USA

t: 201 831 5000

[www.stryker.com](http://www.stryker.com)

The information presented in this brochure is intended to demonstrate a Stryker product. Always refer to the package insert, product label and/or user instructions before using any Stryker product. Surgeons must always rely on their own clinical judgment when deciding which products and techniques to use with their patients. Products may not be available in all markets. Product availability is subject to the regulatory or medical practices that govern individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

Products referenced with <sup>TM</sup> designation are trademarks of Stryker.

Products referenced with ® designation are registered trademarks of Stryker.

Literature Number: LH2MRI-CMB Rev.1

MS/GS 1.5M 04/06

Copyright © 2005 Stryker

Printed in USA