

# HFD100 HEADHOLDER

MR conditional head positioning system for intraoperative imaging

Enables optimal head positioning for surgical access and intraoperative imaging.



HFD100 HEADHOLDER WITH 3-PIN FIXATION



HEADHOLDER AFFIXED TO SURGICAL TABLE



PATIENT'S HEAD MAY BE POSITIONED BELOW LEVEL OF TABLE

## FEATURES


- Made with MR conditional materials and titanium-reinforced joints for a rigid design.
- Designed to work with MR imaging coils and navigation.
- Torque screw pressure indicator provides immediate feedback.
- Head clamp has a smooth and precise ratchet mechanism for fine adjustment of pressure.
- HFD100 accessories enable quick and secure attachment of retractors, navigation reference frames, and IMRIS' flexible imaging coils.

## BENEFITS

- Three-piece design (table mount, linkage system, and skull clamp) enables the patient to be placed in prone, supine, or lateral position.
- Enables patient head positioning for appropriate fit within the MR scanner.
- Patient's head may be positioned lower than the level of the table while maintaining proper position for scanning in the bore of the magnet.
- Integrates six degrees of freedom for orientation of patient's head independently of the position.

# HFD100 HEADHOLDER

## TECHNICAL SPECIFICATIONS

General	Mechanical head fixation system that integrates six degrees of freedom for positioning. Designed to hold a patient's head and neck securely in the surgical position. Indicated for use in open and percutaneous craniotomies, as well as spinal surgery when rigid fixation is necessary. May be used for procedures with or without intraoperative MR imaging.
Fixation	3-pin fixation Optional 4-pin fixation and two choices of skull pin locations with HFD100 Rocker Arm Accessory. See below.
Compatibility	 MR conditional for both 1.5 and 3T field systems IMRIS HC150 and HC300 flexible imaging coils, as well as InSitu wireless imaging coil Standard two-hole interface to IMRIS OR tables
Maximum Load	20 kg (44 lb.)
Product Weight	8 kg (17.6 lb.)
Patient Positioning	Choice of two lengths of linkage, providing flexible positioning based on patient anatomy and desired location of head for both surgery and iMRI scan. The linkage system allows flexible positioning of the head with translational movement in x, y, z directions, as well as rotational swivel, tilt, and pivot adjustability. Locking mechanism: gear and screw tightened with ergonomic knobs.
Patient Pinning	Skull clamp supports heads up to 95th percentile size and weight Rocker arm adjustability: 360° rotation; step locks every 9°; +/- 20° swing adjustment Pin pressure mechanism: 0-360 N (0-80 lb.) Skull pins: MR conditional titanium pins for iMRI use; standard skull pins can be used for non-iMRI cases

## ORDERING INFORMATION

Please email the purchase order directly to [orders@imris.com](mailto:orders@imris.com).

### HFD100 part numbers with operator manual:

Part number	Name
<b>113803-000</b>	HFD100 ORT-100/200/300, Imperial
<b>119695-000</b>	HFD100 ORT-100/200/300, Metric
<b>119629-000</b>	HFD100 ORT-400, Imperial
<b>119630-000</b>	HFD100 ORT-400, Metric

### Part numbers for ordering HFD100 accessories separately:

<b>118492-000</b>	HFD100 Linkage Extension, +7.5cm
<b>117948-000</b>	HFD100 Rocker Arm Accessory
<b>119012-000</b>	HFD100 Starburst Adapter Kit
<b>802502-000</b>	Navigation Adapter, Stryker
<b>802503-000</b>	Navigation Adapter, Medtronic
<b>802504-000</b>	Navigation Adapter, Brainlab



#### STARBURST ADAPTER

Allows secure attachment of third party surgical accessory systems with two industry standard connections.



#### HFD100 WITH ROCKER ARM ACCESSORY FOR 4-PIN FIXATION

#### ROCKER ARM ACCESSORY

4-pin setup distributes skull clamp pressure across two points on the side the rocker arm accessory is added. May use inner or outer pin holes on each rocker arm depending on skull anatomy.