

Thermoplastics

User Manual

CIVCO

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INTENDED USE

- The intended use of this device is to immobilize the patient during radiation therapy.
- Devices are used to aid in the support and positioning of patients during an MRI.

CAUTION

- *Federal (United States) law restricts this device to sale by or on the order of a physician.*

WARNING

- Do not use if device appears damaged.
- Device should be used for a single patient throughout setup and treatment cycle.
- Ensure thermoplastic is properly aligned over patient before forming.
- Ensure nose mouth portal is aligned during molding to allow patient to breathe from nose and mouth during future use.
- Ensure patient is comfortable during molding process to ensure fit is comfortable during future use.
- Form thermoplastic to avoid contact with tracheotomy tube.
- Cutting thermoplastic masks may reduce the rigidity of the device. If cutting is necessary, ensure rigidity of mask is maintained by adding thermoplastic strips. Thermoplastic strips are not included with masks but can be purchased by contacting your CIVCO representative.
- Do not sterilize thermoplastic.
- Verify all angles of treatment and attenuation characteristics prior to treating patients.
- Ensure thermoplastic is properly attached using clamps, pins or quick fasteners.
- Accessory carbon fiber frames and profiles are not MR safe.

MRI SAFETY INFORMATION

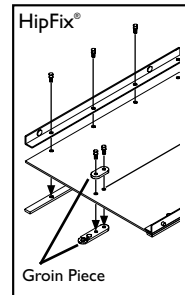
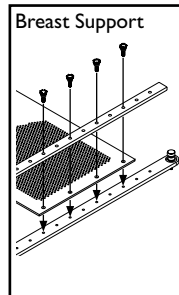
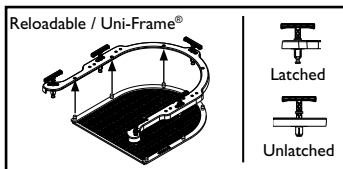
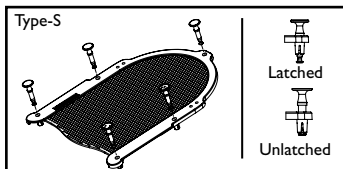


- Devices are MR Safe.
- HipFix Thermoplastic only: In non-clinical testing, the image artifact caused by the device extends up to 12.1mm from groin piece of the HipFix thermoplastic when imaged with a gradient echo pulse sequence and a 3.0 T MRI system.

Using Thermoplastic

WARNING

- *Type-S™*: Ensure pins are unlatched and parallel with edge of frame (refer to Type-S / Uni-Frame® illustration).
 - Ensure baseplate is secure on treatment platform.
1. Setup waterbath with 2–3" of water and heat (refer to table for appropriate temperature).
 2. Insert thermoplastic into reloadable frame or profile (if applicable).





3. Place thermoplastic into bath for directed time.

NOTE

- Improper heating time may cause difficult application.
4. Remove thermoplastic from waterbath.
5. Quickly remove excess water from thermoplastic (*less than five seconds*).
6. Position thermoplastic over treatment area. Gently pull down to appropriate attachment base (*refer to attachment base instruction*).

NOTE

- Overstretching of Posicast® material may affect rigidity of mask. After pulling thermoplastic mask, ensure rigidity of mask is maintained.
 - Some thermoplastic masks may require assistance in pulling of mask.
7. Use all available clamps, pins or quick fasteners (*as appropriate according to baseplate*) to latch thermoplastic to baseplate.
8. Gently mold material to contours of treatment area.
9. Allow thermoplastic to cool completely before releasing from attachment base.