specifications

Exact IGRT Couch Precise Imaging. Personalized Treatment.
Exact optimization for IGRT

The Exact® IGRT couch from Varian is a vital new tool in patient positioning, designed to optimize safety and precision for image-guided radiation therapy (IGRT) treatment. Built with precise imaging and patient positioning in mind, the Exact IGRT couch for the Varian Clinac® iX and Trilogy™ linear accelerators and the Acuity™ treatment planning, simulation, and verification system helps you successfully implement advanced treatment techniques.

Features
- For use with the Clinac iX, Trilogy, and Acuity systems
- Identical couch for simulation and treatment aids in duplicating patient setup
- Fully compatible with existing Indexed Immobilization® accessories for accurate patient positioning
- Advanced carbon fiber construction
- Free of metal and other artifact-creating materials to facilitate radiographic, fluoroscopic, and CBCT imaging
- Supports patients up to 500 pounds
- Maximized clearance and minimized dose perturbation
- More rigid than IEC deflection standards
- Automated repositioning without re-entering the vault
- Available as an easy upgrade for the Exact couch (replace couch top only)
- Side panel controls to adjust all couch motions
- Switches for wall and back-pointer lasers, as well as room, field and range-finder lights
- Emergency off buttons on both sides of couch
- Grab handles for easy manual motion
**Mechanical Specifications**

**Couch Stretcher Top**

Overall size
- Width: 53.0 cm
- Length: 200.0 cm
- Clinically usable length: 120.0 cm (no imaging obstructions)
- Deflection (per IEC 60976): < 4 mm

Water equivalence
- Head & neck/upper thorax: 5.2 mm
- Lower abdomen/pelvis: 8.4 mm

Couch lift
- Capacity: 500 lbs. (227 kg)
- Range: 106 cm
- Lowest position: 63 cm above floor

Couch longitudinal
- Range: 145.8 cm nominal
- Clearance from isocenter (fully retracted): 51.9 cm nominal

Couch lateral
- Range: ±25 cm nominal

Couch turntable rotation
- Range: ±100 degrees about isocenter, nominal

**Accessories**

**Standard**
- Precision tip extension interface for easy and secure mounting of stereotactic accessories and CBCT calibration phantoms
- Detachable couch-mounted universal pendants Clinac, Trilogy, and Acuity: two included
- Two sets of user guide/maintenance manuals

**Optional**
- Spare control pendant
- A complete line of Indexed Immobilization accessories
- IEC scale convention

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**Exact IGRT couch motions**

<table>
<thead>
<tr>
<th>couch parameter</th>
<th>position limits</th>
<th>travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>longitudinal a—In</td>
<td>93.9 cm (36.9 in)</td>
<td>145.8 cm (57.4 in)</td>
</tr>
<tr>
<td>longitudinal b—Out</td>
<td>262 cm (103.1 in)</td>
<td></td>
</tr>
<tr>
<td>Vertical c—Up</td>
<td>169 cm (66.5 in)</td>
<td>106.0 cm (41.7 in)</td>
</tr>
<tr>
<td>Vertical d—Down</td>
<td>63 cm (24.8 in)</td>
<td>50.0 cm (19.7 in)</td>
</tr>
<tr>
<td>Lateral</td>
<td>±25.0 cm</td>
<td>±9.8 cm</td>
</tr>
<tr>
<td>Angular rotation</td>
<td>±100°</td>
<td>200°</td>
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Note: Dimension b is to the rear most extension of the couch pedestal when fully retracted.