LEONI ORION

Precision patient positioning system

Synchronicity with six degrees of freedom

- Improve throughput: prepare patient outside the treatment room with tool changer
- Dynamic positioning control
- State-of-the-art robotic couch
- Sub-mm accuracy in a large treatment volume
- Very high payload

LEONI
### Basic technical data

<table>
<thead>
<tr>
<th></th>
<th>Mechanical Unit</th>
<th>Control Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (L x W x H)</td>
<td>[1968 mm x 800 mm x 877 mm] at Zero Position</td>
<td>[820 mm x 510 mm x 1320 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>1000 kg</td>
<td>170 kg</td>
</tr>
</tbody>
</table>

### Power supply connection

- **Rated supply voltage**: EU: 380 VAC, US: 480 VAC
- **Mains frequency**: 50 Hz ± 1 Hz or 60 Hz ± 1 Hz
- **Power input**: Max. 9 kW
- **Thermal power dissipation**: 790 W
- **Mains-side fusing**: 16 x 2 A slow-blowing (1 (2)x phase; 1x neutral conductor (optional))
- **Mains configurations**: TT, TN-S, TN-C-S
- **Number of controlled axes**: Max. 8

### Cartesian Travel Range

- **Lateral (isocenter at 0 mm from robot base reference)**: –2440 mm to 2440 mm, total range 4880 mm
- **Vertical without accessory (isocenter at 1250 mm from robot base reference)**: 507 mm to 1691 mm, total range 1184 mm
- **Vertical with QFix KView and tool changer (isocenter at 1250 mm from robot base reference)**: 778 mm to 1962 mm, total range 1184 mm
- **Longitudinal (isocenter at 1950 mm from robot base reference)**: 1220 mm to 3450 mm, total range 2230 mm
- **Top rotation (° about isocenter)**: ± 100°
- **Pitch and Roll (° about isocenter)**: High volumes performances ± 5° (max ± 15°)

### Treatment volume

- **Accuracy**: ± 0.5 mm (95%)
- **Dimensions (L x W x H)**: [1000 mm* 400 mm* 500 mm]
- **Optimal distance robot base frame to isocenter**: Long.: 1950 mm, Lat.: 0 mm, Vert.: 1250 mm

### Payload

- **Safe workload with force torque sensor compensation**: 285 kg with couchtop
- **Safe workload with external tracker sensor compensation**: 375 kg with couchtop