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

FDA cleared & CE marked

LEONI
## Basic technical data

<table>
<thead>
<tr>
<th>Power supply connection</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
- Pitch and Roll: Max. ± 25 °
- Top Rotation: ±95 °

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