



With courtesy of IBA

# *BizLink* **ORION**

## **Precision patient positioning system**

*Synchronicity with six degrees of freedom*

**FDA** ✓  
*cleared & CE marked*

*Improve throughput: prepare patient outside the treatment room with tool changer*

*State-of-the-art robotic couch*

*Sub-mm accuracy in a large treatment volume*

*Very high payload*



*Dynamic positioning control*



Basic technical data	Mechanical Unit	Control Unit
Dimensions (L x W x H)	[1968 x 800 x 877 mm] at Zero Position	[820 x 510 x 1320 mm]
Weight	1000 kg	170 kg
<b>Power supply connection</b>		
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	
<b>Cartesian Travel Range</b>		
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°)	
<b>Treatment volume</b>		
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	
<b>Payload</b>		
Safe workload with force torque sensor compensation	285 kg with couchtop	
Safe workload with external tracker sensor compensation	375 kg with couchtop	