



 GPS|KNEE

Hardware, Software and Tensioner

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**COMPETITIVE COMPARISON**

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SOFTWARE							
Femur and Tibia Pre-Resection Planning	√	√	√	√	√	√	√
Femur and Tibia First Planning Workflows	√	√	√	√	√	√	N/A
Gap Balancing Planning	√	√	√	√	√	√	√
Kinematic Alignment Planning	√	√	N/A	√	N/A	N/A	N/A
CT-Based Pre-Operative Planning Software	N/A	√	N/A	N/A	√	N/A	N/A
Intra-Operative Planning	√	√	√	√	√	N/A	N/A
Accuracy	0.6mm / <1 degree	1mm/1 degree	1mm/1 degree	1mm/1 degree	1mm/1 degree	1mm/1 degree	5mm/5 degree
HARDWARE							
Camera Refresh Rate	116Hz	60Hz	200Hz	60Hz Hydrophobic Rays	60Hz	60Hz	N/A
Tracker Technology	Active Infrared Trackers	Passive	Passive	Passive	Passive	Passive	N/A
Robotic Arm	N/A	√	√	√	√	√	N/A
Robotic Arm Device	N/A	Saw Blade	Bur	Saw Blade	Cutting Guide	Cutting Guide	N/A
TENSIONER							
Range of Motion	Calibrated Tensioner Device Every 0.5mm	Every 0.5mm Digital Tensioner Software Only	Pre Cut Only Digital Tensioner Connected Instrument	Digital Tensioner Software - ACCUBALANCE Every 1mm	Digital Tensioner 0, 30, 45, 60, 90, & 120 Degrees	Digital Tensioner Connected Instrument <i>BalanceBot</i> Every 1mm	N/A
Force (N)	90N Calibrated	N/A	50±10N, 100±10N, or 150±10N	N/A	N/A	Robotic Lamina Spreader with Force Sensor Force Mode (Consistent Tension) Gap Mode (Pressure Only)	N/A
SPACE AND COST EFFICIENCY							
Disposable Required for Tracker	N/A	√	√	√	√	√	Single Use
Camera/Station System	Single iPad Size Screen + Camera Mounted on Table	Computer Station and Robotic Arm	Single Computer + Screen + Camera Station	Computer Station and Robotic Arm	Computer Station and Robotic Arm	Single Computer + Screen + Camera Station	No Camera Magnetic Interface Handheld Design
Capital Cost and Maintenance Contracts Required	N/A	√	√	√	√	√	N/A
In-Situ Site Tracker Pin Placement	√	Additional Site Wound Tibia Pin Placement	Additional Site Wound Tibia Pin Placement	Additional Site Wound Tibia Pin Placement	Additional Site Wound Tibia Pin Placement	Additional Site Wound Tibia Pin Placement	N/A

## REFERENCES

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7. <https://www.orthalign.com/lantern/>

*The information was collected from publicly available sources and accurate at the time of publication.*

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