

Advanced Positioners with Goniometers



PATENTED

MVG's advanced patented positioners with goniometers represent a significant advancement in the high-accuracy angular alignment of components. Consisting of a goniometer, a rotational axis and a system base, they are designed to tilt the axes positioned above in small angles around the arch center. The carriage supports the positioner axes and the applied loads. They are offered as part of a complete positioning package.

Advanced Positioners with goniometers for Multi-Probe systems



	LOW-DUTY (UP TO 200 KG)*	MEDIUM-DUTY (UP TO 300 KG)*	HEAVY-DUTY (UP TO 1000 KG)*
Goniometer oversampling	Travel: $\pm 7.5^\circ / \pm 2.645^\circ$ Max Vertical Load: From 0-200 kg Accuracy: Not applicable Radius: 1946 mm Speed: 0.6°/sec ($\pm 10\%$)	Travel: $\pm 1.35^\circ$ Max Vertical Load: From 200 kg to 300 kg Accuracy: $\pm 0.05^\circ$ Radius: 3200 mm Speed: 0.3°/sec ($\pm 10\%$)	Travel: $\pm 1.4^\circ$ ($\pm 1.2857^\circ$ during measurement; sampling step between 2 adjacent probes is 2.5714°) Max. Vertical Load: From 300 kg to 1000 kg Accuracy: $\pm 0.05^\circ$ Radius: 4337.35 mm Speed: 0.22°/sec ($\pm 10\%$)
Azimuth (Theta)	Accuracy: 0.02° Speed: 30°/sec	Accuracy: $\pm 0.03^\circ$ Speed: 1.3 Rpm ($\pm 10\%$)	Accuracy: $\pm 0.03^\circ$ Speed: 12°/sec ($\pm 10\%$) No travel limit
Telescopic Mast	Not applicable	Optional Travel: ± 600 mm Vertical Load: From 120 kg to 240 kg Accuracy: ± 0.3 mm Speed: 3.3mm/sec ($\pm 10\%$)	Optional Travel: 1930 mm Max Load: From 300 kg to 1000 kg Accuracy: ± 0.05 mm Speed: 2.9 mm/sec ($\pm 10\%$)
X Alignment Positioning System	Not applicable	Optional Travel: 100 mm - 550 mm Vertical Load: From 150 kg to 300 kg Accuracy: ± 0.3 mm Speed: 6.7 mm/sec ($\pm 10\%$)	Optional Travel: ± 350 mm Max Load: From 300 kg to 1000 kg Accuracy: ± 0.05 mm Speed: 5.5 mm/sec ($\pm 10\%$)
Y Alignment Positioning System	Not applicable	Not applicable	Optional Travel: ± 350 mm Max Load: From 300 kg to 1000 kg Accuracy: ± 0.05 mm Speed: 5.5 mm/sec ($\pm 10\%$)
Static Mast	Not applicable	Not applicable	Not applicable
Elevation	Not applicable	* Optional for elevation pick up & alignment	* Optional for elevation pick up & alignment

* Based on standard models



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