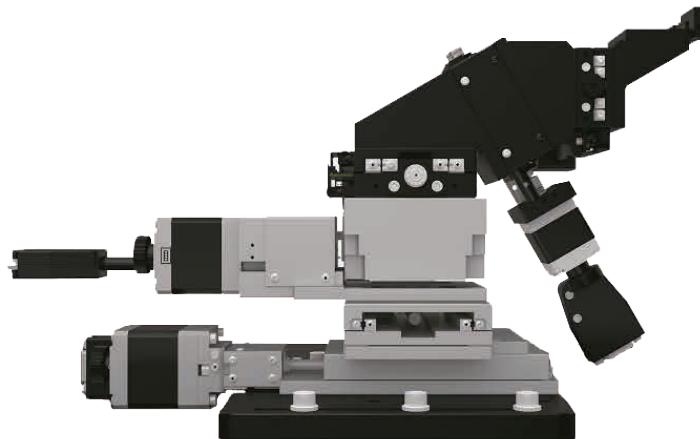




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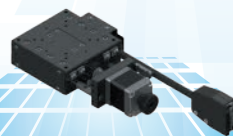
Fiber Alignment System



CYN8050
Precision motorized
linear stage



AZ7010
Precision motorized
horizontal lift stage



AXG6-75 · 100VMC
Precision motorized α -axis
goniometer stage



AXG4-40VM
Precision motorized α -axis
goniometer stage

Customized interface

High-efficient alignment algorithm

New process to enhance structural stability

Made in Taiwan

Features:

- High-efficient alignment algorithm: Three scanning modes, trajectory planning display, and display of light source scanning results.
- μ MMC Controller (Microcontroller-Based Multi-axis Motion Controller).
- With six-axis integration, ModbusTCP communication and trajectory planning function, it can be customized according to the customer's interface requirements to achieve precise control and meet customized interface needs.
- Models L or R can be selected according to customer requirements.

Product Description:

- The alignment algorithm is the optimal one obtained through mathematical model simulation.
- Motion control employs sophisticated mathematical equations to process the desired output positions for each sampling point, using a closed-loop feedback control approach.
- Interface integration utilizes a customized interface, incorporating self-developed libraries and the aforementioned techniques to achieve fiber scanning alignment applications, thereby reducing time and minimizing human resource consumption.
- The implementation of visual automation will streamline the process and enable automated adjustment of tool coordinates, leading to increased productivity and reduced manual intervention.

Axis	1 st axis	2 nd axis	3 rd axis	4 th axis	5 th axis	6 th axis
L	CXN8050-S2OPBN		AZ7010-S6OPL	AXG6-100VMC-2OPR	AXG6-75VMC-2OPR	AXG4-40VM-2P-L
R	CXN8050-S2OPBN		AZ7010-S6OPR	AXG6-100VMC-2OPL	AXG6-75VMC-2OPL	AXG4-40VM-2P-R
Travel Stroke	50mm		10mm	$\pm 3.4^\circ$	$\pm 4.4^\circ$	$\pm 8.2^\circ$
Ballscrew Lead	1mm		1mm (Slope 1:2)	N/A		
Reduction Ratio	N/A					
Oriental Motor	PKP544MN18B			PK523HPMB		
Resolution	1 μ m(Full)	0.5 μ m(Full)	1 μ m(Full)	0.001 $^\circ$ (Full)	0.0014 $^\circ$ (Full)	0.0025 $^\circ$ (Full)
Positioning Accuracy	5 μ m			N/A		
Repeatability Accuracy	$\pm 0.5\mu$ m			$\pm 0.003^\circ$		



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