





Two-Axis Automatic Mechanical Interface

New EVO-AMI Series:

New two-axis automatic mechanical interface system for positioning providing two separated limited motions



Two-Axis Automatic Mechanical Interface



New EVO-AMI System:

EVO-AMI is a servo-loop system with motors and position sensors

EVO-AMI is controlled by the Modular Control Unit included ProAxe Motion Axis Controller and ProAxe Graphical User Interface Software

Modular Control Unit For EVO-Series Tables with *ProAxe* Controller (Power and control axis command fully integrated in a 19" & 5U box)



Master PC For EVO-Series Tables with *ProAxe* Software (User Graphical Interface for local or remote control)







3

New EVO-AMI System:

Associated with the single-axis EVO-10M positioning and rate table for providing three axis simulation motion

Two-Axis Automatic Mechanical Interface providing 2nd and 3rd axis limited motions For single-axis EVO-10M positioning and rate tables



New EVO-AMI System:

single-axis EVO-10M

positioning table for

providing 3-axis

PC required

simulation motion



Combination of Single-Axis EVO-10M Series unit and EVO-AMI Series unit providing three degrees of freedom





Two-axis Automatic Mechanical Interface		
General Specifications		
Payload	Up to 5 kg 185 mm x 165 mm x 100 mm (height)	
Payload fixing	Upon request	
Power control	Modular Control Unit (19", 5 U) included iXMotion <i>ProAxe</i> Controller integrated in MCU	
PC control with 17" flat panel monitor	External Desktop <i>Master PC</i> Or Optional Internal <i>Master PC</i> in MCU	
Standard communication interface for PC control	RS-232 – Optional IEEE	
Input/output interfaces (by axis, optional)	I/O Analog Module I/O Digital Module	
Standard electrical access to payload	34 ways @ 2A	
Maximum volume size	Φ 565 mm & 480 mm height	
Weight (with payload)	30 kg Inertia 0,7 kg.m ²	
Power supply	230VAC ±10%, 50Hz, Single-phase Or 110VAC ±10%, 50Hz, Single-phase	





Two-axis Automatic Mechanical Interface			
Performance specifications	Inner Axis	Outer Axis	
Limited rotational freedom	360 deg, with mechanical end limits		
Unlimited rotational freedom (optional)	Unlimited motion with sliprings (20 ways, 2A)		
Drive mechanism	Direct / AC Brushless motor		
Axis orthogonality	+/- 1 arc min		
Wobble	< 1 arc min		
Position accuracy	+/- 10 arc sec		
Rate range	+/- 0,01 deg/sec - +/- 200 deg/sec		
Maximum acceleration	+/- 200 deg/sec ²	+/- 100 deg/sec ²	
Bandwith	$10 \text{ Hz} (f^2 a = 5)$	$10 \text{ Hz} (f^2 a = 2)$	



Г



Two-axis Automatic Mechanical Interface Single-axis EVO-10M table (see appropriated datasheet)		
Table top	Φ 450 mm	
Pedestal	Pedestal required Height upon request	
Power control	Modular Control Unit (19", 5 U) included iXMotion <i>ProAxe</i> Controller integrated in MCU	
PC control with 17" flat panel monitor	External Desktop <i>Master PC</i> Or Optional Internal <i>Master PC</i> in MCU	
Standard communication interface for PC control	RS-232 – Optional IEEE	
Input/output interfaces (by axis, optional)	I/O Analog Module I/O Digital Module	
Standard electrical access to payload	Sliprings 34 ways @ 2A	
Maximum rate performance	+/- 150 deg/sec	
Maximum acceleration with payload	$+/-50 \text{ deg/sec}^2$	
MPU option	Not applicable	





Two-Axis Automatic Mechanical Interface associated with Single-axis EVO-10M Positioning and Rate Table And Thermal Chamber New EVO-AMI System:

EVO-AMI product is designed to be used in a temperature chamber, with or not Single-Axis EVO-10M positioning and rate table



Thermal Chamber is monitored through ProAxe Graphical User Interface or RS232 interface for remote control





Two-axis Automatic Mechanical Interface		
Thermal chamber option		
Mechanically refrigerated temperature chamber	Range: - 40 °C / + 70 °C Stability: +/- 0,5 °C Temperature change rate (standard specification without load): +/- 2 °C/min	
Interior size	650 mm x 650 mm x 650 mm	
PC Control	Through Master PC control with <i>ProAxe</i> graphical interface	
Power supply	3 x 400VAC ±10% / 50Hz	
Others	Designed to work with EVO-10M Table associated with EVO-AMI System Door window	