

## Servo Electric Cylinder 6DOF Motion Platform Key Parameters

- (1) Load: 50KG-20000KG
- (2) Motion parameters

Position	Displacement	Speed	Acceleration	Positioning accuracy	Repeat positioning accuracy
Pitch (α)	±5°C~±35°C	≤60°/s	≤200°m/s2	0.03°	0.01°
Roll (β)	±5°C~±35°C	≤60°/s	≤200°m/s2	0.03°	0.01°
Yaw (y)	±5°C~±35°C	≤60°/s	$\leq 200^{\circ} \text{m/s} 2$	0.03°	0.01°
Vertical lift (z)	$\pm 10mm{\sim} \pm 500mm$	$\leq 1000 \text{mm}/\leq 1.0 \text{g}$		0.03mm	0.01mm
Longitudinal displacement (y)	$\pm 10mm{\sim} \pm 500mm$	$\leq 1000 \text{mm}/\leq 1.0 \text{g}$		0.03mm	0.01mm
Lateral displacement (x)	$\pm 10mm{\sim} \pm 500mm$	$\leq 1000 \text{mm}/\leq 1.0 \text{g}$		0.03mm	0.01mm

## Other Technica Parameters

Key Technical Parameters

- **Other Technical** (1) System response frequency: 0Hz-20Hz
  - (2) stroke hysteresis: less than or equal to 0.2mm
  - (3) drift: platform system for more than 12h continuous operation, any one of the electric cylinder position drift does not exceed 0.00025m
  - (1) sports platform control system with CanOpen bus communication and digital input and output functions of the motion controller, all-digital motor
  - (2) Ethernet interface, the integration of the high dynamic ball screw mechanical concept, to achieve a higher dynamic performance

## Controlling systems

- (3) the control room of the sports platform is done by the ergonomic graphical interface that allows the operator to save time while learning
- and implementing the system
- (4) The control software can copy the motion generated by the motion design software



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