

MP6D-M15450 6-DoF Motion Platform

High performance · Robust · Versatile

- Compact 6-DoF motion base for mounting medium payloads (recommended 1000kg max)
- High performance and load capacity in a compact form
- Configurable for multi-user purposes
- Easily adapted with customised habitation



6-DoF platform, deck omitted for clarity

Powered by 6 ALM-50 linear actuators, the motion platform is built to deliver powerful performance and minimum maintenance in a compact form.

- Ball-raced fully supported ball screw actuator mechanism (no plain bearings)
- High powered BLDC motors utilising high speed closed loop FO control system



ACTUATE MOTION

Delta Kinetic motion platforms utilise Actuate Motion, a modern motion software interface which natively supports many commercial titles. Its SDK has dedicated plugins for Unity and Unreal Engine 4 and UDP access for other programmes, allowing integration with almost any software.

Key data

Degrees of freedom 6 (pitch, roll, yaw, heave, surge and sway)

Payload 1000 kg (Max. recommended)

Dimensions (mm), with standard deck, excluding superstructure

Footprint	Deck dimensions	Deck height at rest	Weight
1640 (l) x 1890 (w)	1250 (l) x 1480 (w)	760	124 Kg

Motion

	Pitch	Roll	Yaw	Heave	Surge	Sway
Range	+38°, -32°	+/-31°	+/-42°	650 mm	+/-600 mm	+/-520 mm
Speed	71 °/s	63 °/s	85 °/s	656 mm/s	1212 mm/s	1050 mm/s
Force/torque	18400 Nm	20760 Nm	15390 Nm	3547Kgf	1920Kgf	2216Kgf
Resolution	0.0002°	0.0002°	0.0003°	0.002 mm	0.004 mm	0.004 mm

Power requirements (UK) 220VAC, 50Hz, 13A single phase

Control interface USB or RS485 connection to host PC

Safety features Normally closed failsafe emergency stop loop for multiple e-stop buttons. Stop and hold position on loop break. Fall arrest on power failure.

*** Figures are approximate only. Actual figures will depend on configuration & usage conditions.*

A multi-purpose motion platform for applications including land, sea & air vehicle training



The 6-DoF platform can be easily adapted to provide specialised training simulators for a range of land, sea & air vehicles.

The deck can be customised to replicate many cabin environments and vehicle controls, to enable trainees to undergo fully immersive VR vehicle training.

Furthermore, the deck can be made to any shape and size, to allow for whole crew vehicle operations training.

Image shows 6-DoF platform with crew training deck