

eM6-400-1500

The eMove eM6-400-1500 is a six degrees of freedom electric motion system with an actuator stroke of 400mm, designed for use in simulation systems.

Typical applications are vehicle simulators for (racing) cars, trucks, buses, military vehicles, railway vehicles, etc. Other applications are entertainment, research and development platforms and test beds.



System performance

	Excursions					Velocity		Acceleration	
	Single DOF		non-single DOF						
Surge	-0.3	0.36	-0.39	0.39	m	0.65	m/s	6	m/s ²
Sway	-0.3	0.3	-0.39	0.39	m	0.65	m/s	6	m/s ²
Heave	-0.26	0.24	-0.26	0.24	m	0.5	m/s	8	m/s ²
Roll	-19	19	-22	22	deg	39	deg/s	400	deg/s ²
Pitch	-20	24	-21	24	deg	43	deg/s	400	deg/s ²
Yaw	-20	20	-23	23	deg	40	deg/s	600	deg/s ²

Performance reference point with respect to MPC (x,y,z): 110mm, 0mm, 0mm

Payload specification

Gross Moving Load	1500	kg (payload including upper frame of 200kg)
CoG height above MPC(*)	600	mm
Moments of Inertia	lxx	700 kg m ²
	lyy	700 kg m ²
	lzz	700 kg m ²

CoG: Center of Gravity – MPC: Moving Platform Centroid

Main dimensions

Total width	2.300	m
Total length	1.996	m
Settled height (floor to top of platform)	0.997	m
System weight	880	kg

Power requirements

Mains power	3-phase 380-480 VAC +/- 10%, 50/60 Hz
-------------	---------------------------------------