

eM6-640-1800

The eMove eM6-640-1800 is a six degrees of freedom electric motion system with an actuator stroke of 640mm, designed for use in simulation systems.

Typical applications are flight simulators and 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	-0.48	0.60	-0.64	0.63	m	0.8	m/s	7	m/s ²
Sway	-0.50	0.50	-0.66	0.66	m	0.8	m/s	7	m/s ²
Heave	-0.41	0.41	-0.41	0.41	m	0.6	m/s	10	m/s ²
Roll	-23.8	23.8	-29.2	29.2	deg	35	deg/s	250	deg/s ²
Pitch	-23.7	26.0	-28.2	32.9	deg	35	deg/s	250	deg/s ²
Yaw	-25.4	25.4	-28.7	28.7	deg	40	deg/s	500	deg/s ²

Performance reference point with respect to MPC (x,y,z): 100mm, 0mm, 0mm

Payload specification

Gross Moving Load	1800	kg (payload including upper frame of 275kg)
CoG height above MPC(*)	1000	mm
Moments of Inertia	lxx	2000 kg m ²
	lyy	2000 kg m ²
	lzz	2000 kg m ²

CoG: Center of Gravity – MPC: Moving Platform Centroid

Main dimensions

Total width	2.867	m
Total length	2.825	m
Settled height (floor to top of platform)	1.267	m
System weight	1820	kg

Power requirements

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