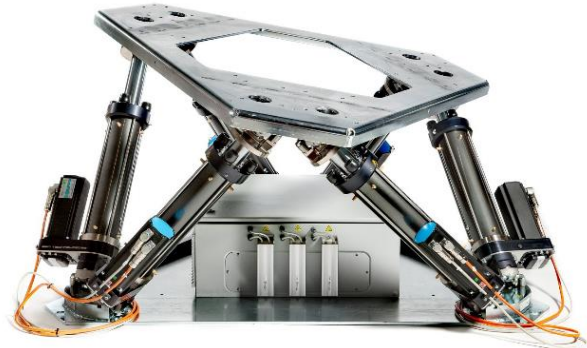


# eM6-300-1500

The eMove eM6-300-1500 is a six degrees of freedom electric motion system with 300mm stroke actuators, designed for use in simulation systems.

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



## System performance

	Excursions					Velocity		Acceleration	
	Single DOF		non-single DOF						
Surge	-0.24	0.27	-0.30	0.29	m	0.6	m/s	6	m/s <sup>2</sup>
Sway	-0.23	0.23	-0.30	0.30	m	0.6	m/s	6	m/s <sup>2</sup>
Heave	-0.19	0.19	-0.19	0.19	m	0.5	m/s	8	m/s <sup>2</sup>
Roll	-19	19	-22	22	deg	40	deg/s	300	deg/s <sup>2</sup>
Pitch	-19	23	-22	24	deg	50	deg/s	300	deg/s <sup>2</sup>
Yaw	-19	19	-22	22	deg	50	deg/s	500	deg/s <sup>2</sup>

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 <sup>2</sup>
	lyy	700 kg m <sup>2</sup>
	lzz	700 kg m <sup>2</sup>

CoG: Center of Gravity – MPC: Moving Platform Centroid

## Main dimensions

Total width	1.959	m
Total length	1.835	m
Settled height (floor to top of platform)	0.71	m
System weight	820	kg

## Power requirements

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