

# eM6-1400-14000

The eM6-1400-14000 is the latest full electric 6 degrees of freedom motion system with a gross moving load of up to 14000kg, designed for use in FAA, EASA Level D and ICAO 9625 type VII flight simulation systems for both fixed wing- and rotary wing aircraft.

- Best in class smoothness
- Reliable and robust
- Choice of mechanical interfaces



## System performance

	Excursions					Velocity		Acceleration	
	Single DOF	non-single DOF							
Surge	-1.17	1.40	-1.5	1.5	m	0.97	m/s	7.1	m/s <sup>2</sup>
Sway	-1.17	1.17	-1.5	1.5	m	0.97	m/s	6.5	m/s <sup>2</sup>
Heave	-0.87	0.87	-0.87	0.87	m	0.64	m/s	7.8	m/s <sup>2</sup>
Roll	-27	27	-30	30	deg	20	deg/s	140	deg/s <sup>2</sup>
Pitch	-29	33	-32	35	deg	22	deg/s	150	deg/s <sup>2</sup>
Yaw	-29	29	-37	37	deg	23	deg/s	240	deg/s <sup>2</sup>

Rotational reference point with respect to MPC (x,y,z): 389mm, 0mm, 0mm

## Payload specification

Gross Moving Load	14000	kg (payload including upper joints)
CoG height above MPC(*)	1800	mm
Moments of Inertia	Ixx	50000 kg m <sup>2</sup>
	Iyy	50000 kg m <sup>2</sup>
	Izz	50000 kg m <sup>2</sup>

CoG: Center of Gravity – MPC: Moving Platform Centroid

## Main dimensions

Ground circle diameter	6.4	m
Settled height (floor to top of platform)	2.48	m
System weight	9000	kg

## Power requirements

Mains power	3-phase 400-480 VAC +/- 10%, 50/60 Hz
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