

# eM6-900-20000-CCT

The eMove eM6-900-20000-CCT is a six degrees of freedom electric motion system with an actuator stroke of 900mm, designed for use in cabin crew trainer systems.

Typical applications are single aisle cabin crew trainers.

- Large payload electric motion system, with a GML of 20.000 Kg
- Low settled height
- Pneumatic weigh compensation



## System performance

	Excursions					Velocity		Acceleration	
	Single DOF	non-single DOF							
Surge	-0.73	0.86	-0.89	0.89	m	0.61	m/s	5	m/s <sup>2</sup>
Sway	-0.72	0.72	-0.95	0.95	m	0.61	m/s	5	m/s <sup>2</sup>
Heave	-0.54	0.54	-0.54	0.54	m	0.46	m/s	7	m/s <sup>2</sup>
Roll	-14.8	14.8	-17.0	17.0	deg	12	deg/s	100	deg/s <sup>2</sup>
Pitch	-15.0	16.3	-17.0	18.0	deg	12	deg/s	70	deg/s <sup>2</sup>
Yaw	-15.5	15.5	-18.0	18.0	deg	13	deg/s	100	deg/s <sup>2</sup>

## Payload specification

Gross Moving Load	20000	kg (payload including upper joints)
Payload	11920	kg (excluding upper frame)
CoG height above MPC(*)	1500	mm
Moments of Inertia	Ixx	53000 kg m <sup>2</sup>
	Iyy	190000 kg m <sup>2</sup>
	Izz	190000 kg m <sup>2</sup>

\*CoG: Center of Gravity – MPC: Moving Platform Centroid

## Main dimensions

Total width lower frame	6.140	m
Total length lower frame	7.087	m
Total width upper frame	5.6	m
Total length upper frame	11.9	m
Settled height** (floor to top of platform)	3.374 +/-0.005	m
System weight**	28500	kg

\*\* dependent on type of upper frame

## Power requirements

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