



**COMPATIBLE WITH**

- ▶ Camera tracking systems
- ▶ Optic systems
- ▶ Antenna systems
- ▶ Radar systems
- ▶ Gimbal systems
- ▶ Rotator systems



**FACTS**

- ▶ 6 degrees of freedom
- ▶ 6 electro-mechanical actuators
- ▶ 100 kg total payload
- ▶ 200 mm actuator stroke



**APPLICATIONS**

- ▶ Component validation
- ▶ Signal replication
- ▶ Signal generation
- ▶ Real time simulation table
- ▶ Field data system testing simulator

**3D CONNECTION CONTROLLER**  
OPTIONAL



**SMOTION PRODUCT LINE**

SMOTION50

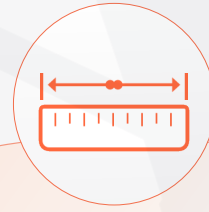
**SMOTION100**

SMOTION200

SMOTION500

SMOTION800

SMOTION1000



**DIMENSIONS**

**L1.1Xw1.0XH0.7 m**





**TECHNICAL SPECIFICATIONS**

**Performance Specifications**

- ▶ Gross Moving Load up to **100 kg**
- ▶ Actuator Stroke **200 mm**
- ▶ Center of Gravity Above Top Platform **0.20 m (Max)**
- ▶ Settled Height **0.44 m**
- ▶ Neutral Height **0.58 m**

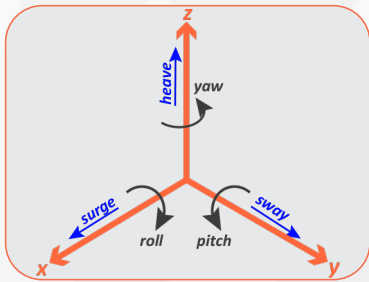
**Moment of Inertia About**

- ▶ Moment of Inertia About X axis **45 kg.m<sup>2</sup>**
- ▶ Moment of Inertia About Y axis **45 kg.m<sup>2</sup>**
- ▶ Moment of Inertia About Z axis **45 kg.m<sup>2</sup>**

**Power Supply**

- ▶ **380VAC ±10%, 3ph , 50/60Hz**

	<b>Velocity</b>	<b>Acceleration</b>
▶ Surge	± <b>0.50</b> m/s	± <b>5</b> m/s <sup>2</sup>
▶ Sway	± <b>0.50</b> m/s	± <b>5</b> m/s <sup>2</sup>
▶ Heave	± <b>0.50</b> m/s	± <b>6</b> m/s <sup>2</sup>
▶ Roll	± <b>50</b> <sup>0</sup> /s	± <b>400</b> <sup>0</sup> /s <sup>2</sup>
▶ Pitch	± <b>50</b> <sup>0</sup> /s	± <b>400</b> <sup>0</sup> /s <sup>2</sup>
▶ Yaw	± <b>50</b> <sup>0</sup> /s	± <b>500</b> <sup>0</sup> /s <sup>2</sup>



**Excursion**

	<b>Single Axis</b>		<b>Multi Axis</b>	
▶ Surge	<b>-0.16</b> m	<b>0.18</b> m	<b>-0.21</b> m	<b>0.20</b> m
▶ Sway	<b>-0.15</b> m	<b>0.15</b> m	<b>-0.22</b> m	<b>0.22</b> m
▶ Heave	<b>-0.13</b> m	<b>0.12</b> m	<b>-0.13</b> m	<b>0.12</b> m
▶ Roll	<b>-23.00</b> <sup>0</sup>	<b>23.00</b> <sup>0</sup>	<b>-28.30</b> <sup>0</sup>	<b>28.30</b> <sup>0</sup>
▶ Pitch	<b>-22.50</b> <sup>0</sup>	<b>23.80</b> <sup>0</sup>	<b>-30.10</b> <sup>0</sup>	<b>30.90</b> <sup>0</sup>
▶ Yaw	<b>-28.80</b> <sup>0</sup>	<b>28.80</b> <sup>0</sup>	<b>-32.10</b> <sup>0</sup>	<b>32.10</b> <sup>0</sup>



**HARDWARE COMPONENTS**

- ▶ User friendly interface control (GUI)
- ▶ Hardware real-time control
- ▶ UDP based PC communication
- ▶ IMU integrated measurement system
- ▶ Passive and active limitations



**SIMPLE, SAFE AND ERGONOMIC SOFTWARE**

- ▶ Signal generations
- ▶ Field data signal replication
- ▶ Real time signal visualization
- ▶ Signal recording and processing



**USER FRIENDLY GUI**

