



COMPATIBLE WITH

- ▶ Remote control weapon systems
- ▶ Turret systems
- ▶ Optical systems
- ▶ Antenna systems
- ▶ Radar systems
- ▶ Vehicle cabin/body systems
- ▶ Aircraft cabin systems



FACTS

- ▶ 6 degrees of freedom
- ▶ 6 electro-mechanical actuators
- ▶ 500 kg total payload
- ▶ 300 mm actuator stroke
- ▶ IP class 66



APPLICATIONS

- ▶ Turret & RCW test
- ▶ 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

L1.6Xw1.4XH1.2 m





TECHNICAL SPECIFICATIONS

Performance Specifications

- ▶ Gross Moving Load up to **500 kg**
- ▶ Actuator Stroke **300 mm**
- ▶ Center of Gravity Above Top Platform **0.50 m (Max)**
- ▶ Settled Height **0.80 m**
- ▶ Neutral Height **1.10 m**

Moment of Inertia About

- ▶ Moment of Inertia About X axis **250 kg.m²**
- ▶ Moment of Inertia About Y axis **250 kg.m²**
- ▶ Moment of Inertia About Z axis **250 kg.m²**

Power Supply

- ▶ **380VAC ±10%, 3ph , 50/60Hz**
- ▶ **Operation Temperature -20°C, +50°C**
- ▶ **Storage Temperature -30°C, +60°C**

Velocity

Acceleration

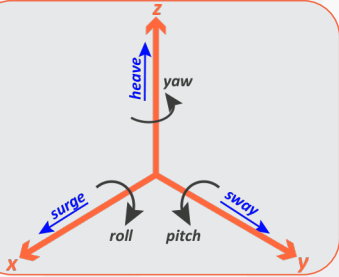
- | | Velocity | Acceleration |
|---------|-------------------|-----------------------------|
| ▶ Surge | ± 0.45 m/s | ± 5 m/s² |
| ▶ Sway | ± 0.45 m/s | ± 5 m/s² |
| ▶ Heave | ± 0.35 m/s | ± 6 m/s² |
| ▶ Roll | ± 40°/s | ± 300°/s² |
| ▶ Pitch | ± 40°/s | ± 300°/s² |
| ▶ Yaw | ± 50°/s | ± 500°/s² |

Excursion

Single Axis

Multi Axis

- | | Single Axis | Multi Axis |
|---------|-----------------------|-----------------------|
| ▶ Surge | -0.22 m 0.24 m | -0.30 m 0.30 m |
| ▶ Sway | -0.22 m 0.22 m | -0.31 m 0.31 m |
| ▶ Heave | -0.19 m 0.18 m | -0.19 m 0.18 m |
| ▶ Roll | -21.00° 21.00° | -24.00° 24.00° |
| ▶ Pitch | -20.00° 22.00° | -25.00° 25.00° |
| ▶ Yaw | -22.00° 22.00° | -26.00° 26.00° |



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

