



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
- ▶ IP class 66



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.m²**
- ▶ Moment of Inertia About Y axis **45 kg.m²**
- ▶ Moment of Inertia About Z axis **45 kg.m²**

Power Supply

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

Velocity

Acceleration

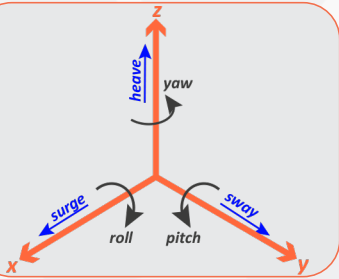
- | | Velocity | Acceleration |
|---------|-------------------|-----------------------------|
| ▶ Surge | ± 0.50 m/s | ± 5 m/s² |
| ▶ Sway | ± 0.50 m/s | ± 5 m/s² |
| ▶ Heave | ± 0.40 m/s | ± 6 m/s² |
| ▶ Roll | ± 43°/s | ± 300°/s² |
| ▶ Pitch | ± 43°/s | ± 300°/s² |
| ▶ Yaw | ± 53°/s | ± 400°/s² |

Excursion

Single Axis

Multi Axis

- | | Single Axis | Multi Axis |
|---------|-----------------------|-----------------------|
| ▶ Surge | -0.16 m 0.18 m | -0.21 m 0.20 m |
| ▶ Sway | -0.15 m 0.15 m | -0.22 m 0.22 m |
| ▶ Heave | -0.13 m 0.12 m | -0.13 m 0.12 m |
| ▶ Roll | -23.00° 23.00° | -28.30° 28.30° |
| ▶ Pitch | -22.50° 23.80° | -30.10° 30.90° |
| ▶ Yaw | -28.80° 28.80° | -32.10° 32.10° |



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

