

PROFESSIONAL SERIES

# PS-6TL-350

**6<sup>DOF</sup>**

ARCHITECTURE

**350kg**

GROSS MOVING LOAD

**390kg**

WEIGHT

**300mm**









ACTUATOR STROKE



## MOTION PLATFORM PS-6TL-350

The PS-6TL-350 device is a type of Stewart platform with gross moving load up to 350 kg. It is a type of six-degree-of-freedom parallel manipulator that allows execution of three translational movements and three rotational movements about the vertical, longitudinal and lateral axis.

## KEY FEATURES

|  |   |  |  |
|--|---|--|--|
|  <p><b>Resistant to overload</b><br/>Good resistance to momentary overload resulting from dynamic change in mass distribution</p> |  <p><b>Super Silent</b><br/>Extremely quiet and smooth operation</p>                       |  <p><b>Movement repeatability</b><br/>High ability to generate vibrations and incredible movement repeatability</p> |  <p><b>Software support</b><br/>Control all our motion platforms using one of our SDK</p> |
|  <p><b>Easy to transport</b><br/>Perfect size for worldwide transportation</p>  |  <p><b>Unleashed performance</b><br/>Highest performance in compact and mobile chassis</p> |  <p><b>VR technology</b><br/>All our motion platforms work in VR environment</p>                                    |  <p><b>Safety</b><br/>Safe mechanical design resistant to permanent damage</p>            |

## GENERAL SPECIFICATION

|                                   | EXCURSIONS<br>SINGLE DOF                 | VELOCITY               | ACCELERATION         |
|-----------------------------------|--|------------------------|----------------------|
| SURGE                             | - 0.3 m, 0.27 m<br>- 11.81 in, 10.62 in  | 0.68 m/s<br>33.86 in/s | 6.4 m/s <sup>2</sup> |
| SWAY                              | - 0.26 m, 0.26 m<br>- 10.23 in, 10.23 in | 0.7 m/s<br>27.56 in/s  | 5 m/s <sup>2</sup>   |
| HEAVE                             | - 0.17 m, 0.19 m<br>- 6.14 in, 7.36 in   | 0.37 m/s<br>14.57 in/s | 5 m/s <sup>2</sup>   |
| ROLL                              | -20.6°, 20.6°                            | 45°/s                  | 600°/s <sup>2</sup>  |
| PITCH                             | -19.9°, 18.1°                            | 50°/s                  | 650°/s <sup>2</sup>  |
| YAW                               | -27.8°, 27.8°                            | 60°/s                  | 700°/s <sup>2</sup>  |
| TOTAL LENGTH                      | 1660 mm   65.35 in                       |                        |                      |
| TOTAL WIDTH                       | 1727 mm   67.96 in                       |                        |                      |
| MIN HEIGHT                        | 790 mm   31.10 in                        |                        |                      |
| POWER SUPPLY REQUIREMENTS         | 220-250 VAC Single Phase                 |                        |                      |
| AVERAGE POWER (kVA)               | 2.9 kVA                                  |                        |                      |
| PEAK POWER (kVA)                  | 6.2 kVA                                  |                        |                      |
| PEAK CURRENT (A)                  | 28 A                                     |                        |                      |
| AVERAGE POWER - STRESS TEST (kW)  | 1.5 kW                                   |                        |                      |
| AVERAGE POWER - TYPICAL GAME (kW) | 0.3 kW                                   |                        |                      |
| CONNECTION                        | USB   Ethernet                           |                        |                      |

## PAYLOAD SPECIFICATION

|                     |   |
|---------------------|---|
| GROSS MOVING LOAD   | 350 kg   772 lb   |
| PRODUCT WEIGHT      | 390 kg   860 lb   |
| PAYLOAD             | 300 kg   661 lb   |
| MOMENTS OF INERTIA* | I <sub>xx</sub> 125 kg*m <sup>2</sup><br>I <sub>yy</sub> 125 kg*m <sup>2</sup><br>I <sub>zz</sub> 125 kg*m <sup>2</sup> |

\*REFERENCE POINT MOVING PLATFORM CENTROID

## ADD-ONS & ACCESSORIES

Electromagnetic safety brakes, Power Cabinet PS-SB230

## OUR SOFTWARE

Platform Manager - ForceSeatPM (free-of-charge), Motion SDK - ForceSeatDI, Motions SDK - ForceSeatMI, Motion Theater

# GENERAL DIMENSIONS

