

## Independent Axis Full Motion Simulators, in 2 DOF or 3 DOF

### Motion Specification

**Degrees of Freedom:** Roll, Pitch, & Yaw

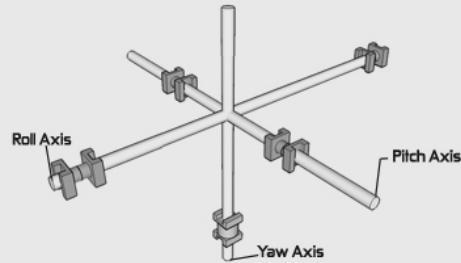
**Axis Alignment:** Mutually Perpendicular

**Axis Synchronization:** Simultaneous

**Position Resolution:** 0.002 deg  
(Accuracy of position)

**Repeatability:** +/- 0.02 deg  
(Same position over and over will be within this range)

**Command Interpretive Interval:** < 1ms or better  
(Latency from data to motion)



	<u>Max Range of Motion</u>	<u>Max Velocity</u>	<u>Max Acceleration</u>
<b>Roll:</b>	+/- 35° (70° total)	<b>60 deg/s</b>	<b>167 deg/s<sup>2</sup></b>
<b>Pitch:</b>	+/- 17° (34° total)	<b>30 deg/s</b>	<b>167 deg/s<sup>2</sup></b>
<b>Yaw:</b>	+/- 35° (70° total)	<b>60 deg/s</b>	<b>167 deg/s<sup>2</sup></b>

*Values are dependent on actuator mounting radius*

### Chassis Specification

*(APEX3 GT configuration)*

<b>Max Dimensions:</b>	7' long x 4' 6" wide x 6' 6" tall (2.1 m x 1.4 m x 2.0 m)
<b>Bare Chassis Weight:</b>	250 lbs (115 kg)
<b>Max Payload:</b>	400 lbs (180 kg) including driver/pilot
<b>Driver/Pilot Max Weight:</b>	280 lbs (125 kg)
<b>Driver/Pilot Max Height:</b>	6' 6" (2.0 m)

### Electrical Requirements

**Standard Single Phase | 100-240V ~ 50-60Hz**

SimCraft motion system - **150 W** (Nominal)  
Computer, video, audio & controllers – Manufacturer Specified

### PC System Requirements

**Minimum:** 3.0 GHz Multi-Core Processor / 6GB RAM Recommended  
1 Available USB Port Minimum / 1GB Video RAM