

# **Servos**

## **Simulation, Inc.**

HIGH TECHNOLOGY ENGINEERING

### **Motion Systems Price List**

October 2007

#### **MOTION SEATS – ALL AXES**

710-2-500	500 lb payload, +/-15 deg roll and pitch	\$9,500
710-3-500	500 lb payload, +/-15 deg roll and pitch, 4" heave	\$13,500
710-5-500	500 lb payload, +/-10 deg roll and pitch	\$18,000
710-6-500	500 lb payload, +/-12 deg roll, pitch, and yaw, 4" str	\$25,000

#### **TWO AXIS BASES – ROLL AND PITCH**

710-2-1000	1000 lb payload, +/-17 deg roll and pitch	\$18,500
710-2-2000	2000 lb payload, +/-17 deg roll and pitch	\$25,000
710-2-4000	4000 lb payload, +/-17 deg roll and pitch	\$35,000
710-2-8000	8000 lb payload, +/-17 deg roll and pitch	\$45,000

#### **THREE AXIS BASES – ROLL, PITCH, HEAVE**

710-3-1000	1000 lb payload, +/-17 deg roll and pitch, 8" heave	\$25,500
710-3-2000	2000 lb payload, +/-17 deg roll and pitch, 8" heave	\$32,000
710-3-4000	4000 lb payload, +/-17 deg roll and pitch, 8" heave	\$58,500
710-3-8000	8000 lb payload, +/-17 deg roll and pitch, 8" heave	\$68,500

#### **VIRTUAL FIVE AXIS BASES – ROLL, PITCH, YAW, SURGE, SWAY**

710-5-1000	1000 lb payload, +/-17 deg roll and pitch	\$26,000
710-5-2000	2000 lb payload, +/-17 deg roll and pitch	\$40,500
710-5-4000	4000 lb payload, +/-17 deg roll and pitch	\$50,500

#### **SIX AXIS BASES – ROLL, PITCH, YAW, HEAVE, SURGE, SWAY**

710-6-1000	1000lb payload, +/-20 deg roll, pitch, and yaw, 8" str	\$42,000
710-6-2000	2000lb payload, +/-20 deg roll, pitch, and yaw, 8" str	\$52,000
710-6-3500	3500lb payload, +/-20 deg roll, pitch, and yaw, 24" str	\$68,000
710-6-4500	4500lb payload, +/-20 deg roll, pitch, and yaw, 24" str	\$100,000
710-6-6000	6000lb payload, +/-20 deg roll, pitch, and yaw, 24" str	\$120,000
710-6-8000	8000lb payload, +/-20 deg roll, pitch, and yaw, 24" str	\$140,000

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### **INCLUDED IN THE PRICE**

All standard systems come complete with the base cabled and ready to plug in. A generic operating manual is provided for the ease and simplicity of installation. The manual covers what is required to interface the base to a turn key system, gaming computer and high end simulator. All of our motion systems can be integrated to our Control Loading systems. All motion systems carry a 12 month warranty from the time of shipment.

All systems come with an integrated brake safety system. This system stops the base in case of a power failure or if an emergency stop is engaged. The system comes wired with a manual enable switch which can be wired to an emergency stop. If you require the system to have additional safety switching capabilities (i.e software enabling of the drive amplifier and monitoring of drive amplifier failure), this can be included for an additional cost. This type of monitoring allows the software engineer the capability of monitoring the base for safety considerations. The PC controller can be configured to monitor this type of situation. If you do not wish to have this system installed, please contact us.

The 2,000lb or larger bases are designed to accommodate several seats, including the walkway (typically 4' by 6' top). The 1,000lb bases are designed for rides accomodating 1-4 people near the center of the base. The 500lb and under bases are single rider bases meant for gaming rides, car simulators, seat shakers or other small applications. Other combinations of strokes and payloads can be provided at an additional cost based on contract. All bases can be modified to integrated with your hardware/equipment. The top modification can be accomidated at contract time for an additional fee.

The motion platforms are all electric. The smaller bases can be configured to run from a standard 120 volt, 20 amp circuit with an addition of transformers (see cost sheet). The mid-size bases (1,000 to 4,000lb) require 220 volt, either single phase, 30 to 60 amp or three phase, 30 to 60 amp and the largest bases (6,000 lbs and up) requiring up to 440 volts AC, three phase (amperage dependant upon the base).

### **PERFORMANCE**

Typically, the motion bases will give 0.4 gs of linear acceleration, 14 inches per second velocity, 300 deg/sec<sup>2</sup> angular acceleration, and 50 deg/sec angular rate. For most applications, the 0.4 g acceleration level is plenty. This can be increased if necessary for an additional cost.

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### **MOTION BASE OPTIONS**

1. PC Controller		\$ 3,500
2. Motion authoring software for entertainment rides		\$ 6,000
3. Motion software for flight simulation (host interface)		\$17,000
4. Joy stick	2 axis	\$ 400
	3 axis	\$ 500

### **SHIPPING**

All of our equipment is shipped F.O.B for our dock in Longwood, Florida. We do not provide for shipping in our pricing. If you need help with shipping your base from our facilities, we would be more than happy to help you. All shipping provided by our freight company is C.O.D. collect and is billed by them.

### **PAYMENT**

All prices are cash only (company check, electronic wire transfer, cash). Payment terms are 50% upon receipt of the purchase order or contract and 50% upon completion prior to shipment. Payment made by credit card will incur a 3% charge for the total amount of the contract. A payment of 100% down will incur a 3% cash only discount. Other payment considerations can be made prior to the contract start.

#### **Notes:**

1. All prices USD, F.O.B. our dock in Longwood, Florida
2. Prices and Specifications subject to change without notice
3. Call, fax, or email for prices on:
  - Custom or modified designs
  - Engineering design assistance
  - Installation
  - Custom software

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