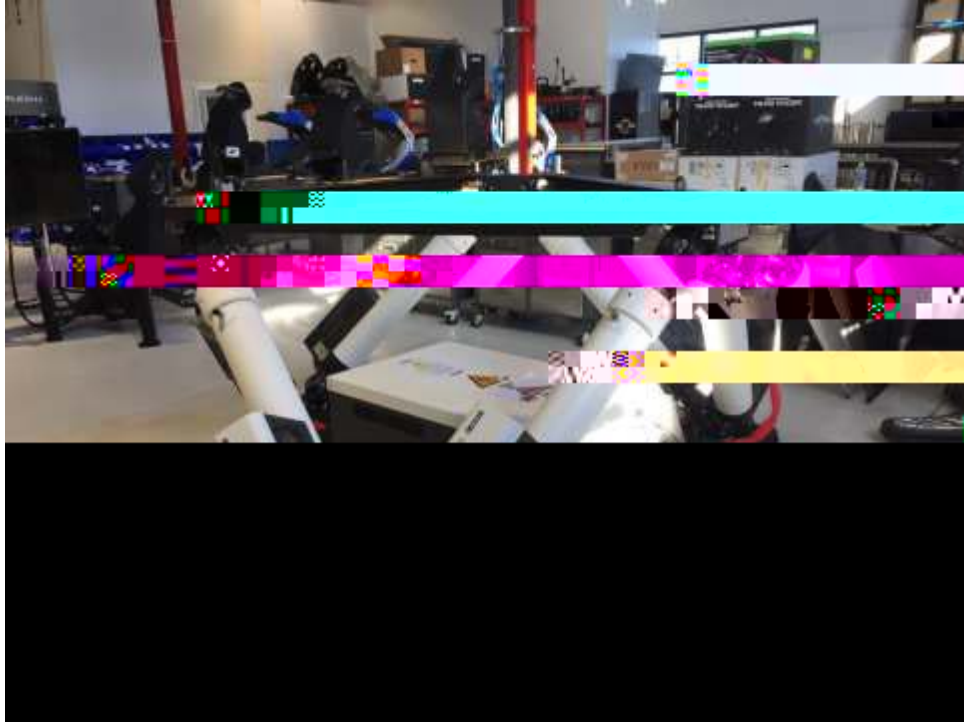


## **Project Description**

Presently a number of companies produce motion simulators for the entertainment industry a large sector of the entertainment motion simulators are focused on motion seats used for an enhanced movie experience. These entertainment simulators use a variation of technology used on industrial motion platforms but usually have a reduced level of function when compared to advanced systems used for flight simulation or training simulators. VRX Simulators is a leader in advanced motion simulation and VR technology (Virtual Reality) for the entertainment industry based in Sidney BC. The project team will perform a review of present motion seat technology and then focus on aspects that could be enhanced to produce a superior experience for the end users. Then with the guidance from VRX's engineering and design team, the project will focus on a possible design and move toward a proof of concept. In order to develop a functional proof of concept advanced servo drives and actuators will be supplied by Bosch Rexroth Canada. The drive and servo component supplied are state of the art servo technology used in Bosch' s Motion 1500 series industrial motion platforms.

### **Deliverables:**

- A design study detailing possible motion system enhancements
- A proof of concept on displaying motion system enhancements determined in the design study.
- A final project report detailing results and possible avenues of future development.



BOSCH Rexroth e-Motion 1500 Motion Platform – VRX Simulators Sidney



VRX – Flight Simulator Entertainment