TELEDYNE GLOVEBOXES
Teledyne has been designing, manufacturing, testing, operating, and maintaining gloveboxes and similar equipment/systems for over 35 years for a variety of applications. Our Glovebox customers include the National Aeronautical and Space Administration (NASA), Department of Defense (DoD) chemical demilitarization programs, DoD chem-bio systems, and Department of Energy (DoE). Teledyne has been involved with the European Space Agency (ESA) contractor, in the requirements development and integration of the very first Glovebox (GBX) built for Space Lab in the 1990’s and the development and integration of the Middeck Glove Box (MGBX) for the Space Shuttle. Transitioning into the ISS Program, we supported the development of the Microgravity Science Glovebox (MSG). Today we are working with NASA on the Life Science Glovebox (LSG) which will launch in 2017.

Following the launch of MSG we transitioned into the sustaining role as well as integration and operations of all MSG payloads. Teledyne will perform the same role for the LSG.

Teledyne has integrated and test verified over 40 MSG payloads and performed over 30,000 hours of MSG on-orbit operations.

**MSG**

- 9 cu ft
- Enables crew interaction for setup, sample exchange, and experiment monitoring.
- Provides two levels of containment for safety, 1 kW power and cooling, HD video, and data
- Engineering Unit with the Payload Rack Checkout Unit

*NASA astronaut, Kate Rubins, conducting an experiment with the Microgravity Science Glovebox.*
(PRCU) used for high-fidelity verification, integration, training, and troubleshooting (Four available units – Training Unit, Engineering Unit, Ground Unit, and Flight Unit)
- Operational Tele-Science Center at TBE and local ISS POIC at MSFC.
- Developed by the ESA for NASA.

**Life Science Glovebox (LSG) ISS Configuration**
- Currently under development at MSFC
- TBE provides design, analysis, test, and integration support.
- 18 cu ft.

**Environmental Gloveboxes**
Teledyne designed, manufactured, and tested environmental glovebox systems are in operation in several locations, such as Pine Bluff Arsenal and Dugway Proving Ground. Our environmental gloveboxes are designed, fabricated, and tested per applicable national, state, and local standards and American Glovebox Society (AGS) guidelines. Teledyne has developed many glove boxes for DoD and DoE over the years varying in size from 16 cu ft to 7,365 cu ft.
**Commercial Space Glovebox**

Teledyne's more than three decades of designing, developing, manufacturing and operating Gloveboxes in some of the most demanding situations have given us the knowledge to produce your Glovebox solution for your particular need.

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**Artist rendering of concept of NextSTEP glovebox. All dimensions and resources are scalable to the customer's requirements.**