

Aircraft Inspection Work Platform Lift



The Challenge

A major manufacturer of aircraft engines and auxiliary power units was looking for ways to improve processes at their new jet engine test area. They wanted a safer way to inspect their engines and fixtures other than ladders as they had been using previously. This was an unsafe practice and cumbersome to place and maneuver the ladders around the engine. The customers requested a safe and secure solution for the inspector to access the engine at predetermined positions. The lift would be pit installed at the facility to save space and storage.

The Autoquip Solution

AQ provided a pit mounted work platform lift for the inspection application. The lift is designed to rise to a fixed vertical position with the use of proximity switches. The shuttle platform is also set to a fixed position to take the inspector to the right location. The platform includes a nonskid surface and removable handrails. The handrails are equipped with proximity switches so they are required to be in place before operating the lift. The end of the shuttle deck includes a cushion that is designed to protect the fixture. If the platform touched the fixture without the cushion, it would cause damage to the fixture. We also provided a cover for the lift when stored in the pit to cover the gap, which allowed the work space to be used.

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The Solution Benefits

The customer selected Autoquip because of our extensive expertise designing and building custom lifts for the aerospace industry. We have done projects for fixed wing assembly, jet engine test and assembly, and inspection work platforms such as this project. Safety and fixed positioning was a key part of our design fulfilling the customers' requirements for improving safety and processes for their inspection application.