



# Application Story

Another  
Corrosion  
Problem  
Solved.

## Airplane - Compressed Air Piping System

### Products Installed:

- 2" and 6" Air-Pro Piping System

### Application:

Liquid: Compressed Air

Temperature: Ambient

Concentration: -

Pressure: 120 psi

Buried or Above Ground: Buried



Asahi's Air-Pro Piping System



For the past 40 years, Boeing has been a leading manufacturer of commercial jetliners. The company has produced a multitude of commercial airplanes including the 737, 747, 757, 767 and 777 lines of jets. Boeing is now shifting efforts towards the production of its new airplane, the 787 Dreamliner. The Boeing facility in Everett, WA, which was originally designed for their 747 line of commercial airplanes, required upgrades to suit the new 787 production needs.

The facility serves as a hub of activity where planes undergo final assembly, maintenance and repair. It consists of multiple stations which contain all of the tools and materials necessary to work on the planes. Many of the tools run off of compressed air, such as grinders, drills and other pneumatically operated tools. A compressed air piping system needed to be installed to service the stations and feed power to the pneumatic tools.



Given the vast size of the facility, a 6" central line of over 10,000 feet of Air-Pro compressed air pipe was installed underground and along the runway. This larger diameter pipe serves as a reservoir of air with the smaller diameter Air-Pro pipe stemming off to the stations, which are situated in various intervals along the runway.



The durability and corrosion resistance qualities of the Air-Pro piping system made it the ideal choice for the job. Washington State experiences a wide range of weather fluctuations that can result in condensation in piping systems. Depending on how corrosive the air is, metal piping systems could require cleaning and descaled every five to 10 years. Given the nature of the project, the piping system would also be exposed to vibration. Air-Pro is manufactured of reliable thermoplastic materials that greatly decrease its vulnerability to the corrosion caused by condensation. The Air-Pro piping system is very durable and can withstand the severe vibrations caused by the airplane traffic.