



Design/Build
Mechanical/HVAC
Plumbing/Piping
Electrical/Controls
Process Systems
Custom Fabrication
Maintenance & Service
Parts Supply

Services

- 4 Design
- 4 Manufacturing
- 4 Construction
- 4 Maintenance
- 4 Start-up and service

Accomplishments

- 4 Developed first type of cleanroom technology.
- 4 Largest mechanical contractor in North Carolina.
- 4 Among the top 40 specialty contractors in the U.S.

Advantages

- 4 Over 45 years experience in the cleanroom design and implementation.
- 4 Experience in Class 1 to Class 100,000 cleanrooms.
- 4 Single source for design, fabrication, construction and maintenance.

Cleanrooms, Old and New

AC Corporation's experience with cleanroom technology began in 1954 with Western Electric Company in Winston-Salem, North Carolina. It was the first known production-size cleanroom in the world.

Western Electric's gyroscopes supplied to the Nike missile program were being rejected at a rate of 99 out of 100, with each gyroscope costing \$20,000. The culprit was identified to be dust. Therefore, Western Electric set out to build a "dust-free" environment. AC Corporation was commissioned to design and install this "dust-free" room. After the cleanroom was completed, Western Electric's rate of rejection dropped to one out of 100.



Western Electric "dust-free" gyro assembly room in 1955

AC Corporation is proud of our involvement in developing this first type of cleanroom technology. For the past 45 years, we have performed dependably and accurately with the expertise to meet our customers' needs.



ITT gallium arsenide chip manufacturing process, which represents a "modern" Class 10 cleanroom system

Since the original cleanroom project at AT&T Western Electric, we have installed many turnkey cleanrooms among a variety of industries, including:

- 4 Microelectronics
- 4 Fiber Optics
- 4 Pharmaceuticals
- 4 Research and Development
- 4 Toxicology Research Facilities
- 4 Synthetic Fibers
- 4 Compact Disk
- 4 Medical
- 4 Textiles
- 4 Computers
- 4 Military

AC Corporation has design engineers and technical personnel experienced and highly skilled in cleanroom applications.