HEATCON®

History

- 1978 - HEATCON® incorporated to Sell Industrial Electric Heating and Control Equipment
- 1981 – HEATCON II (Composite Repair System) developed
- 1986 - HEATCON® Composite Systems formed as subsidiary of HEATCON®, Inc.
- TODAY - HEATCON® and HEATCON® Composite Systems Employ over 50 People Throughout the World
- HEATCON®, Inc. - Branch Office in Utah
- HEATCON® Composite Systems - Branch Offices in Texas, the United Kingdom and China.
Who Are We?

- World leader in Composite Repair Equipment, Repair Material Sales and Technical Services to the Advanced Composite Repair Industry
- Based in Seattle, WA, USA
- Since the First Sale to Boeing in 1981, Our Equipment Has Been Recognized as Being the Best
- Gained a Worldwide Reputation for Quality and Reliability
- Primary Customers: Support Maintenance of Commercial, Corporate and Military Aircraft
- Numerous OEM Customers
Mission Statement

Our Vision:
To be recognized as a superior provider of innovative technical solutions.

Our Mission:
As individuals, we believe that teamwork and customer satisfaction are the foundation of our past and future success. We are committed through the skills of every one of our employees to be a vibrant, innovative and responsible world market leader in composite repair equipment, materials, training and technology to the Aerospace industry. We will uphold our reputation for quality products, values, service and engineering expertise, while pursuing with aggressive determination to be our customer’s number one supplier.

Our Values:
In all of our relationships we are committed to these primary values:
* Ethics
* Innovation
* Customer Satisfaction
* Quality
* Professionalism
* Growth & Profitability
HEATCON® COMPOSITE SYSTEMS

Advancing Technology Since 1981

Seattle, USA
Corporate Office/Manufacturing

Dallas, USA
Technical Services/Government Sales Office

St. Ives, UK
Europe Sales Office

Shanghai, PRC
Asia Sales Office

H = Head Office
R = Representative Office

Worldwide Facilities
HEATCON® COMPOSITE SYSTEMS

TEAM Approach

**Technical Services**
- Hands-On Composite Repair Training
  On-Site or at Our Facilities

**Equipment**
- Hot Bonders, Vacuum Generators,
  Thermocouple Welders, etc.

**Accessories**
- Heating Blankets, Thermocouples, Vacuum
  System Accessories, etc.

**Materials**
- Small & Large Quantities of Prepregs, Film
  Adhesives, Dry Cloth, Resins, etc.
Technical Services

- Training
  * Repair Techniques for Composite Technicians
  * Advanced Repair for Composite Technicians
  * Art and Science of Hot Bonding
  * FlightSafety Boeing Training
  * On-Site Training Programs

- Consulting & Facilities
  * Repair Technical Assistance
  * Turn-key Repair Facilities Design and Installation
  * Technical Documentation
    - Repair Station Manuals
    - Technical Publications
    - Training Manuals
HEATCON® COMPOSITE SYSTEMS

Equipment

- HCS9200B Single Zone Composite Repair System
- HCS9200B Dual Zone Composite Repair System
- HCS9000-FL Single Zone Hazardous Environment Hot Bonder
- HCS9200-FL Dual Zone Hazardous Environment Hot Bonder
- HCS2046-02 PACS (Phosphoric Acid Containment System)
- HCS2047 Heat Blanket Tester
- HCS7500 Heated Vacuum Debulking/Curing Table
- HCS2042 Temperature Monitor Console

New

Military National Stock Numbers (NSN’s) available on most equipment
HEATCON® COMPOSITE SYSTEMS

HEATCON II Technology

- Variac (Voltage Regulator)
- Ramp & Soak Controllers
- Single Thermocouple Control and Monitoring
- Vacuum Generator
Current Technology

- Computer Controlled - up to 30 Programs
- Easy to Operate - Easy to Upgrade
- Multiple Thermocouple Control and Monitoring with Alarms - 10 Thermocouples per Zone with Dual Voltage
- Plain Paper Printout - Cure Data
- Comprehensive Information on Hi-Bright Electroluminescent VGA Screen Including Graph of Cure
- Built-in Vacuum Port - Plant Air
HEATCON® COMPOSITE SYSTEMS

HCS9200B
Composite Repair System
HEATCON® COMPOSITE SYSTEMS

HCS9000FL “Flightline” Hazardous Environment Composite Repair System
HEATCON® COMPOSITE SYSTEMS

HCS2046-02
Phosphoric Acid Containment System (PACS)
Partial Listing of Equipment Users

- United Space Alliance
- Northwest Airlines
- U.S. Military (All branches)
- TAECO China
- Northrop Grumman
- Lockheed
- Boeing (Military and Commercial)
- Delta Airlines
- Alliant Techsystems

The Hot Bonder of Choice for Major Airlines, Repair Stations and Military.
Accessories

- HCS2401-01 Portable Hot Air Composite Curing System
- Heat Blankets
- Vacuum Accessories and Generators
- Thermocouples and Accessories
- Composite Repair Tools
HEATCON® COMPOSITE SYSTEMS

HCS2041 Hot Air Composite Repair System
HEATCON® COMPOSITE SYSTEMS

Materials

- Small / Large Quantities
- Dry Ice Shipments
- Repair Materials
  - * Film Adhesives
  - * Kevlar®
  - * Fiberglass Prepreg
  - * Resin
  - * Graphite Prepreg
  - * Resin
- Consumable Materials
  - * Bagging Film
  - * Release Film/Fabric
  - * Breather/Bleeder Cloth
  - * Release Peel/Ply Nylon
  - * Sealant Tape
  - * Flash Tape
- Complete Documentation – OEM Certification and MSDS
“Composite Repair Solutions”

- **Composite Repair Shop Packages**
  - “One Stop Shop” for composite repair needs
  - Long term supply contracts

- **Continued Product Development**
  - Continued development of HCS9000/HCS9200 systems
  - New heat blanket designs
  - Customer driven products

- **Commitment to R&D, Technical Expertise**

- **Show us your application. There is a good chance we have worked with something similar before.**
Comparative study - Heating methods for repair of composite structures

* Heat blankets
* Heat lamps
* Hot air machine
Defining the next generation of composite repair equipment.

* SRM requirements, FAA requirements, material requirements
* Data storage, analysis, traceability