

## ◆ Composite Curing and Vacuum Bagging Ovens and Controls for Aerospace

**High performance out-of-autoclave solutions**



Despatch has a long history of working with the world's top aerospace companies to provide custom thermal processing solutions. We have experience in many areas related to carbon fiber composites, from the oxidation of fiber to curing composites. Our breadth of knowledge in this market is extensive and we have a thorough understanding of the strict temperature uniformity and airflow requirements necessary to produce high performance, advanced materials.

Despatch offers complete vacuum bagging systems with unlimited vacuum ports. The ports can be added in sets of 8. Jack panels allow you to connect as many thermocouples as needed for monitoring the curing process. Mold preparation, including preheating, drying and cleaning processes can also be provided.

Despatch composite curing ovens are now available with Focal Point™, a PC-based process control system. Focal Point™ fully controls the curing process and documents all process information, providing traceability and validation of part quality. Focal Point™ offers precise process control with lead-lag temperature control and an advanced recipe editor for programming temperature and vacuum profiles, and for controlling fans and dampers. Focal Point™ software logs all process data in a spreadsheet or database, which can be accessed by a plant computer system.

### OVEN TECHNOLOGY

- ◆ Flexible and customizable based on the proven Despatch S-Oven design
- ◆ Full installation and startup services
- ◆ Tight temperature uniformity, standard at +/-5°C with capabilities up to +/-2.5°C
- ◆ Electrically heated or gas fired (direct or indirect)
- ◆ Custom airflow to optimize heat transfer to unique molds

### VACUUM BAGGING SYSTEMS

- ◆ Jack panels allow 8, 16, 32 or more thermocouples to fully monitor product by connecting through the oven
- ◆ Unlimited vacuum ports can be added in sets of 8 for easy connection to the vacuum bag within the oven
- ◆ Vacuum port monitoring tools can be added to record pressures if required
- ◆ Vacuum pump and all required components for complete system

### FOCAL POINT PROCESS CONTROL SYSTEM

- ◆ PC-based system
- ◆ Recipe editor to control temperature and vacuum profiles
- ◆ Process data logged on system PC
- ◆ Standard or customized reporting



**FOCAL POINT**  
PROCESS CONTROL SYSTEM