Preform Debulking Workcell

Equipment Overview

The Radius Engineering Preform Debulking Workcell enables increases in process repeatability and efficiency for manufacturers of carbon composite parts that are required to perform multiple debulks during the part layup process. All workcells are customized to your specific process needs and are offered as single or double sided. The automated functions of the debulking workcell permit the operator to initiate a debulking cycle quickly and move on to another task without requiring his supervision of the process.

Primary Components

- **Heating and Cooling Platen**: Platens can contain single or multiple temperature control zones dependent upon the variety and complexity of the parts that are being produced. The temperature is precisely controlled to the manufacturer's process specification with the use of electric heater elements, chilled water supply (provided separately), and multiple thermocouples inserted into the platen. Custom SCADA software utilizes simple recipe controls to walk the operator through the process and collect all critical process data.
- **Vacuum Bag**: The vacuum bag at each station is attached to a hinged frame that is pulled down over the preform and latched prior to the initiation of the debulk cycle. A pass-through is provided in the vacuum bag to allow for temperature monitoring of the tool while under vacuum. The vacuum is controlled automatically with the system recipe or can be operated in manual mode.
- **Transfer Table** - The transfer table is a welded steel structure with transfer balls on the surface to easily slide layup mandrels on and off the platens.

For pricing and customization details specific to your needs, contact Radius Engineering at (801) 886-2624, or via email at workstation@radiuseng.com.

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