

## RTM Systems

- Fully automated Resin Transfer Molding systems
- Production ready integration
- High pressure and temperature
- Features CPC-NT computer control



ASC has a complete line of low-pressure and high-pressure RTM charging Systems, each fully automated and control by a CPC-NT computer control system.

### Features

- Pressures to 600 psig
- Temperatures to 750 °F
- Pump volumes to 4 liters
- CPC-NT computer control system for automation and data-acquisition - Pentium III PC running Windows NT operating system, printer, Ethernet control I/O
- Programmable recipe for sequenced control of all RTM processes.
- 100% automation, including pump pressure, pump flow rate, injection valve, degassing valve, tool exit valve, vacuum pump, and multi-zone heating for too
- Fully integrated mobile system with rotating, lockable casters .

### Injection Pump

We design and manufacture a number of RTM pumps to meet different levels of pressure, temperature, and flow requirements. All of our pumps are designed for long service life and ease of maintenance and cleaning.

High-precision Stepper and Servo drives are used to control our pumps to a high flow and pressure accuracy.

### Quality and repeatability

RTM is considered by many experts to be "more art than science." Whereas most composite processes have been automated for years, RTM processing has not kept up with this trend, and much of it is still controlled manually by operators.

ASC believes that in order to consistently and repeatably manufacture high-quality products, an RTM system must be controlled in a repeatable manner. To that end ASC has designed 100% automation into all of its RTM products.

### CPC-NT Control System

As with most of ASC's products, all RTM systems are controlled and monitored by ASC's Composite Processing Control (CPC) software. CPC is the worlds leading software for composite curing and bonding in auto-claves, ovens, presses, and other equipment.

CPC provides hundreds of options and features designed to address the requirements of our Aerospace and material-processing customers. Quality of the part is our top concern, and control by CPC is the best way of achieving it.

CPC systems have been operating world-wide for more than 13 years, and have a proven field record in the most demanding applications.

### Price

Complete systems range from \$45,000.00 to \$75,000, depending on selected capacity and capabilities.