185 Ton RTM/SQRTM Press

185 Ton RTM & SQRTM press with heating and cooling capability.

PressWare™ control software monitors and regulates heat, pressure, and time. PressWare controls the press in automatic mode by following a "recipe" to control clamping pressure, heating rate, tool temperature, and cure cycle hold time.

**Purpose:** Fabrication of precise high-tech composite aerospace components using RTM (Resin Transfer Molding), SQRTM (Same Qualified RTM), or compression molding.

**Specifications:**

- **Heating Capacity:**
  - Maximum Temperature: 500 °F (260 °C)
  - Heating Rate: 10 °F/minute
  - Multiple Thermocouple Inputs for trending and logging tool temperatures
  - Multi-Zone Heating Platen(s) with individual PID control and cooling

- **Tool Adaptability:**
  - Adjustable daylight for tool heights from 1" to 20"
  - Clamping Area / Tool Size: 36" x 24"

- **User Interface:**
  - 17" Color Touch Screen with controls, trending, and alarm displays

- **Automation:**
  - Radius PressWare™ Software for control and data acquisition
  - 14 Step programmable Ramp/Soak recipe control
  - AB Compact Logix PLC

- **Bolster & Platen:**
  - Clamping Force: 130 Ton
  - Maximum Bolster Deflection at 325 psi: 0.005 in.
  - Maximum Injection Pressure: 250 psi
  - Platen Surface: flat and parallel to +/- 0.005"

- **Vacuum Pump:**
  - 10⁻³ Torr with 0-20 Torr transducer
  - Vacuum trap

- **Power Requirements:**
  - *Electricity:* 480 VAC, 3 phase 60 Hz, 50 amps
  - *Compressed Air:* 90 psi

- **Optional Equipment:**
  - Electric Tool Shuttle
  - Resin Injector
  - Chiller - to re-circulate cooling water