

## 2014 Equipment List

### Composite Production

2 EA Gerber DCS 2500 Ply Cutter  
» 6 ft x 22 ft Cutting Surface

2 EA CDI M880 FP Roll Wrapper  
» 10 ft Platens

3 EA CDI M700C Tape Wrapper  
» 12 ft Tape Carriage Travel

1 EA CDI M3300 Mandrel Extractor  
» 15 ft Travel

2 EA DK Programmable Oven  
» 6.5 ft (W) x 8 ft (D) x 14 ft (H)  
» 500°F Max Temp  
» Watlow F4 Programmable Controller

1 EA Grieve Programmable Oven  
» 10 ft (W) x 10 ft (D) x 10 ft (H)  
» 500°F Max Temp  
» Watlow F4 Programmable Controller  
» Honeywell 31 Channel Recorder  
• 1 Air Thermocouple  
• 15 Part Thermocouples  
• 15 Part Vacuum Transducers

2 EA Grieve HZ-550 Programmable Oven  
» 38 in (W) x 26 in (D) x 50 in (H)  
» 480°F Max Temp  
» Watlow F4 Programmable Controller  
» Spec View Data Logging Software

2 EA McLean Anderson WLH-1-2-4M Filament Winder  
» Max length – 144 in  
» Max Diameter – 24 in  
» Flex Wind Software

1 EA ASC Process Systems Autoclave  
» 36 in Diameter x 66 in Depth  
» Max Pressure – 300 PSI  
» Max Temp – 750°F  
» 6 Each – Vacuum Source, Vacuum Transducer, & Part Thermocouple  
» CPC Control Software

1 EA American Autoclave Co. Autoclave  
» 96 in Diameter x 204 in Depth  
» Max Pressure – 150 PSI  
» Max Temp – 450°F  
» 12 Each – Vacuum Source & Vacuum Transducer  
» 24 Each – Part Thermocouple  
» AACS Control Software

1 EA Heatcon Programmable Vacuum Press Table  
» 48 in x 60 in Heated Platen  
» Watlow F4 Programmable Controller

### Machining

2 EA C.R. Onsrud F122HD15 5 Axis Router  
» "X" Travel – 120 in  
» "Y" Travel – 60 in  
» "Z" Travel – 41 in

1 EA Haas GR 510 Gantry Mill  
» "X" Travel – 120 in  
» "Y" Travel – 60 in  
» "Z" Travel – 25 in

1 EA Haas VF 4 Machining Center  
» "X" Travel – 50 in  
» "Y" Travel – 20 in  
» "Z" Travel – 20 in

1 EA Haas TM 1 Machining Center  
» "X" Travel – 30 in  
» "Y" Travel – 10 in  
» "Z" Travel – 15 in

1 EA Doosan Puma 2600 Turning Center  
» "X" Travel – 14 in  
» "Z" Travel – 32 in

1 EA Haas SL 30 Turning Center  
» "X" Travel – 14 in  
» "Z" Travel – 32 in

1 EA Haas TL 2 Turning Center  
» "X" Travel – 14 in  
» "Z" Travel – 42 in

1 EA Cincinnati Centerless Grinder  
» Min Diameter – ½ in  
» Max Diameter – 4 in

## 2014 Equipment List

### Inspection & Testing

- 1 EA FARO Platinum Arm – 8 ft
  - » CAM2 Q Measurement Software
  - » Laser Line Probe (Laser Scanner)
  - » GeoMagic Studio & Qualify Reverse Engineering Software
- 1 EA Zeiss Contura G2 AKTIV CMM
  - » Measuring Range – X = 27.5 in, Y = 39.4 in, Z = 23.6 in
  - » VAST XT Active Scanning Probe
  - » Calypso CAD Based Measuring Software
- 1 EA MTS Insight Uniaxial Load Frame
  - » 50kN Capacity
  - » MTS Test Works Software

### Additive Manufacturing / Rapid Prototyping

- 1 EA Dimension SST 1200 ES 3D Printer
  - » FDM Printing Technology
  - » ABS Plastic Print Media
  - » Work Envelope – 12 in x 12 in x 10 in

### Painting / Finishing

- 1 EA GFS Concept Fully Enclosed Spray Booth
  - » Programmable Heating to 180°F
  - » 14 ft (W) x 24 ft (D) x 9 ft (H)
  - » Rear Draft
- 1 EA GFS Concept Open Face Spray Booth
  - » 14 ft (W) x 8 ft (D) x 9 ft (H)
  - » Rear Draft

### Injection Molding

- 2 EA Engel E-Motion 110 Injection Molders
  - » 110 Ton with 30mm Screw
  - » Hot Runner System (Net Molded Parts – No Waste)

### Material Storage

- 1 EA Kolpak Walk In Freezer
  - » 5 ft x 12 ft
- 1EA Kolpak Drive In Freezer
  - » 25 ft x 25 ft

All equipment listed is located in our Rock Hill, SC Facility, and is operated by trained professionals to support our manufacturing services and capabilities. This list is not exclusive.

Please contact us regarding any questions or additional information regarding this equipment or our capabilities.