Laser Heating System

A NEW COMPOSITE HEATING SYSTEM THAT IMPROVES PROCESSING SPEEDS, EFFICIENCY AND CONTROL
Empowering the world to conceptualize, manufacture and implement advanced composite solutions.

For more than 30 years, Automated Dynamics has been a global leader in automated composite production. We specialize in the manufacturing of high-performance composite structures, development of advanced automation equipment and solution-based engineering services. Through the use of a true out-of-autoclave (OoA) process, we bring additive manufacturing to continuous-fiber thermoplastic composite parts, saving weight and improving reliability in today’s most demanding engineering environments. We offer patented Automated Fiber Placement (AFP) technologies. As recognized innovators, we have produced hundreds of thousands of composite parts for over 500 clients in 17 countries.

Faster processing
- 3X – 10X faster than hot gas torch heating
- Can reach processing speeds up to 2.5 meters/second
- In-situ consolidation removes post-processing steps such as autoclave curing

Improved efficiency
- Greatly reduced energy usage as well as increased efficiency of the energy used
- Precise application of energy only heats the area that is needed, while rest of the part remains cool
  - Small heat-affected zones reduce the chance of damaging a part by limiting the number of times its heated and cooled.

More control
- Quick and responsive heating
  - The laser’s output can be changed between 0 and 100% in milliseconds, giving you full control of the manufacturing process.
- Real-time temperature logging
  - Temperatures are automatically maintained, delivering repeatable results that improve the consistency of your finished parts.

Benefits translate to a wide range of materials. Improved control and a high energy density enable processing of many types of composite materials.

Call us for immediate assistance -OR- visit our website for more details and technical information!