

BRIGITFLEX INC.

Brigitflex is happy to announce the addition of a 72" diameter autoclave to our facility. This new piece of equipment will allow us to embed circuits into composite buildups and structures. As well as laminate even larger circuit material than before. As the interest of our customers pushes our capabilities to larger and larger circuits, we believe the addition of an autoclave will open many doors of opportunities to us and our customers.

What is an autoclave?

An autoclave, specifically an autoclave designed for composites, is a pressurized oven that cures epoxies and thermoplastics to a desired shape. Typically, PCB's are laminated using a hydraulic press which can only create flat panels. An autoclave uses a pressure chamber to create force on a surface which can be almost any shape. This technique allows us to form our circuits to shapes a hydraulic press would never be able to achieve.

New capabilities:

Lamination of custom circuit stackups in the size of 4' x 8'

Lamination of circuits to curved surfaces

Laminate using popular composite materials like carbon fiber and cyanate ester quartz

Circuits laminated to honeycomb and foam dielectrics

Wide variety of metals and resistive films etched to circuits or patterns embedded within composite structures.

