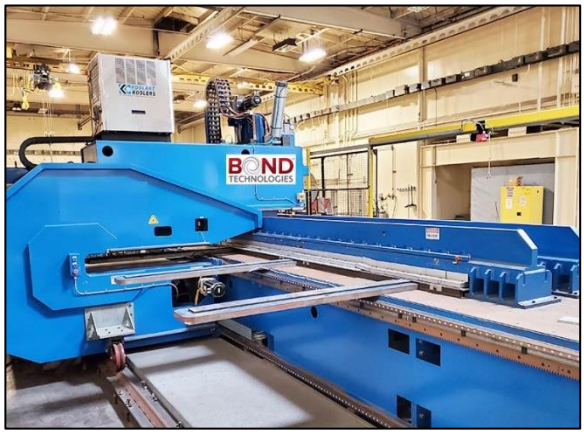
Bond Lab Services



Big Blue Lab Machine - FSW, AFSD

•Strokes:
X Axis: 7000 mm
Y Axis: 1000 mm
Z Axis: 350 mm
•Z Axis Force: 70 kN

FSM4 Lab Machine - FSW, RFSSW

•Strokes:
X Axis: 1270 mm
Y Axis: 610 mm
Z Axis: 760 mm
•Z Axis Force: 40 kN

Process Development

•Multiple in-house systems dedicated to developing new customer applications
•Process development for FSW, AFSD, and RFSSW
•Mechanical testing of welds and materials
•Welding tool design and testing
•Designed experiments to optimize process parameters

Prototype Welding Services

•Assistance with product design optimization for weldability
•Prototype parts fixture design and build
•Welding of prototype parts for performance testing before committing to a production launch

Production Transition

•FSW consulting to help with welding procedure optimization, machine operation, technology training, and quality control support
•Welding tools supply

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