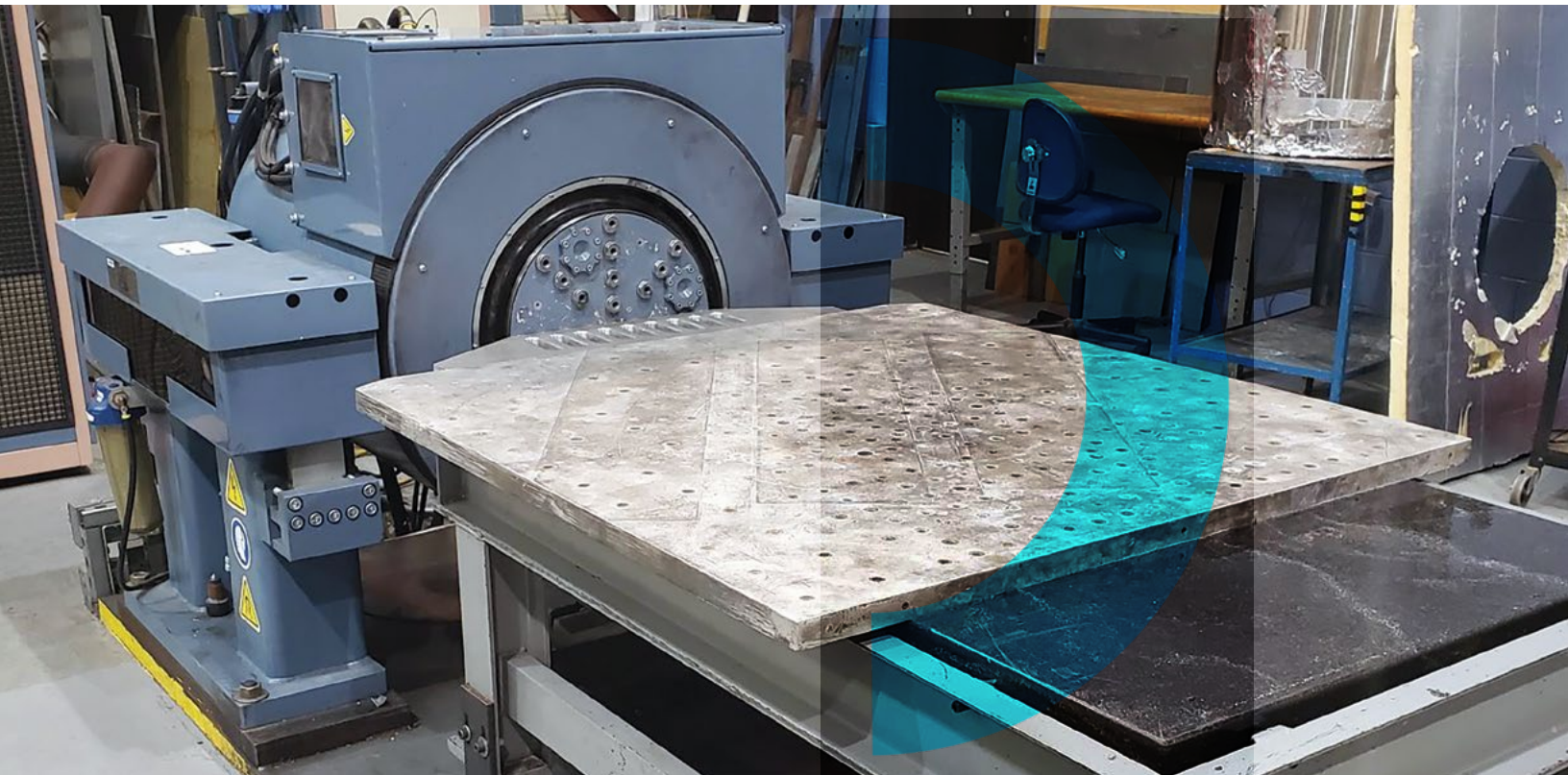




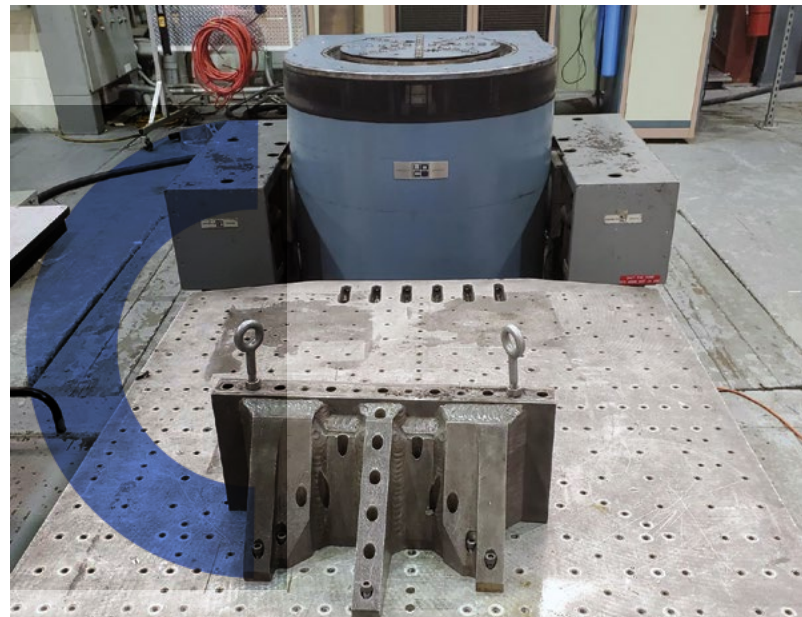
TESTING BEYOND LIMITS — CONFIDENCE WITHOUT COMPROMISE

YOUR COMPLETE PARTNER IN EMI/EMC, ENVIRONMENTAL, DYNAMICS, AND FIRE TESTING

Located in the heart of New England, Element Boxborough is a 65,000 sq. ft. testing campus spanning six buildings, purpose-built to deliver the full spectrum of qualification and certification services for industries where performance cannot fail. From aerospace and defense to telecom, medical, transportation, and consumer electronics, we help customers validate complex systems, qualify to global standards, and accelerate time-to-market with precision, speed, and trust.

WHY PARTNER WITH ELEMENT

When you test with Element, you gain more than a lab — you gain a partner. Our engineers don't just execute tests; they guide you through design validation, regulatory navigation, and program strategy to help you move forward with confidence. Whether you're bringing a new aerospace system online, certifying medical electronics, or qualifying a next-gen defense platform, Element delivers the expertise, capacity, and consistency you can depend on.



CORE CAPABILITIES

EMI / EMC / ESD / NEBS TESTING

- Our electromagnetic compatibility laboratories include nine (9) shielded chambers, among them a 10-meter FCC-listed anechoic chamber and a 44' x 20' x 20' defense-grade chamber purpose-built for large-scale, mission-critical validation.
- We test to MIL-STD, DO-160, FCC, IEC, CISPR, GR-1089, ICES, KS C, and other global EMC standards, supporting radiated immunity up to 200 V/m from 10 kHz to 40 GHz, with electrical power characterization, lightning indirect effects, and ESD up to 30 kV.
- Telecom and IT products are certified to NEBS and international regulations, ensuring compliance and reliability across every environment.

ENVIRONMENTAL TESTING

- Element Boxborough houses 32 environmental chambers, including four walk-in temperature/humidity chambers and a 143" x 120" x 108" environmental chamber capable of -40 °C to 150 °C with humidity controllable from 5% to 95 % RH.
- Our experts simulate the full range of environmental extremes defined in MIL-STD, DO-160, IEC, GR-63, ASTM, ATIS, and other environmental standards, supporting temperatures from -180C to +250C and beyond, altitudes up to 175 kft, rapid decompression, icing, humidity, corrosion, wind driven rain, explosive atmosphere, thermal shock, ingress protection, and combined temperature/altitude/humidity — to ensure your products perform wherever they're deployed.

DYNAMICS & PYROSHOCK TESTING

- Our dynamics equipment consists of 8 shaker tables that can provide testing from 1Hz to 20kHz; up 40,000 force pounds with up to 3-inch displacement; along with a combined environment with a rage of -100 °C to 250 °C; complemented with 4 drop shock towers and centrifuge.
- Our Mechanical Impulse Pyroshock Simulator (MIPS) delivers SRS analysis from 10 Hz – 20 kHz and peak accelerations of 30,000G to 100,000G, supporting simultaneous multi-axis shock testing.
- Our experts reproduce the full set of dynamic extremes defined in MIL-STD, DO-160, IEC, GR-63, ASTM, ATIS, AC156, ISTA, and beyond. Element Boxborough provides full mechanical and dynamic testing solutions for aerospace, defense, and industrial systems.

MECHANICAL TESTING & SPECIALIZED PROGRAMS

- The Boxborough team also supports a vast array of mechanical testing to include pressure, flow, burst, and hydraulics for aerospace and defense programs, ensuring compliance with the most stringent safety standards. Custom engineering, instrumentation, and test design services ensure every program is executed efficiently and accurately — from prototype to production.

CUSTOMER VALUE IN EVERY TEST

Partnering with Element means faster qualification cycles, seamless regulatory pathways, and confidence built on decades of accredited expertise.

We help you:

- **Reduce risk** through proven, repeatable testing processes
- **Streamline approvals** with comprehensive multi-discipline capabilities under one roof
- **Accelerate launches** through responsive scheduling and program management
- **Optimize design** with engineering-led problem solving and clear communication



READY TO GET STARTED?

Our engineers are ready to help you navigate complex test requirements, define efficient test plans, and deliver results that meet your mission goals.

Talk to an expert today.

