



Phoenix

SPECIALIST TESTING PARTNERS

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Environmental Thermal Mechanical Testing Systems

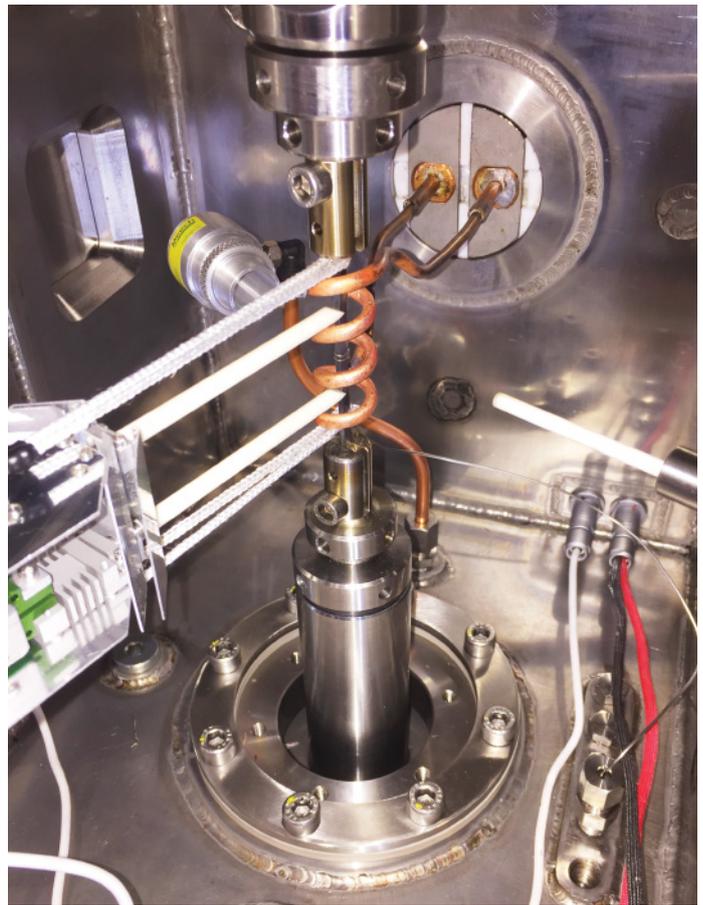
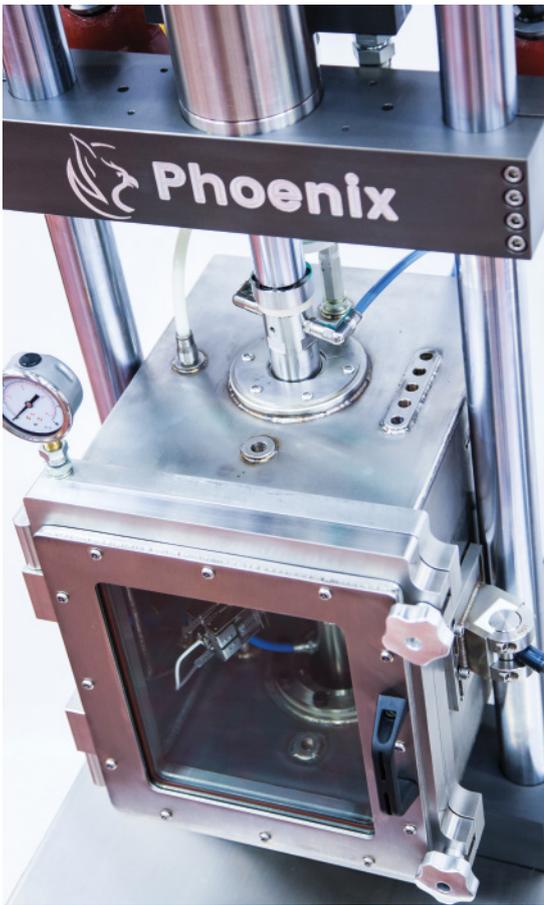
Phoenix is proud to introduce the latest generation of Phoenix Environmental Thermal Mechanical Testing Systems.

Sectors such as aerospace and nuclear endeavour to replicate accurate service conditions for material and component testing, to de-couple and quantify the effects of different thermal and environmental conditions on failure.

To support our ongoing work with leading UK universities and research centres, Phoenix has developed a high quality, versatile and compact system, equipped with a full range of control and measurement sensors.

The scope and versatility of the Phoenix ETMTS, which can be used to test materials including metals, ceramics and composites, allows for the widest possible range of accurate and flexible testing.





ETMTS Features and Benefits:

Combined with the Phoenix Alpha Digital Control System, with a control and data acquisition rate of 20kHz, the Phoenix ETMTS offers superior versatility, control and data acquisition for your testing.

- Compact bench top design
- Suitable for testing metallic, ceramic and composite materials
- Range of machine capacities available up to 50kN
- Operates in Force, Displacement or Strain control
- Accurate alignment as required for testing of small samples
- Can be used for creep, static and fatigue (LCF and HCF) testing
- Full range of fixtures available including Small Punch, 3 and 4 point bend, CT
- Options to work with DIC and X-ray systems
- Environmental Chamber for testing under vacuum, inert gas, corrosive gas and oxygen enriched atmospheres, including humidity control
- Varied heating options including Infrared heating up to 800°C or induction heating up to 1500°C
- Temperature measurement and control options including thermocouples, pyrometry with live emissivity correction (-30° to 1500°C) and thermal cameras (-30°C up to 1000°C)
- Designed to work with PD systems (Potential Drop)
- Suitable for Thermo Mechanical Fatigue testing (TMF)
- Forced cooling option for testing hollow samples

The Phoenix ETMTS can be supplied as a fully integrated system, with the frame, hydraulic power pack and controls housed in a single, stand alone, mobile bench.



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