

Accredited under ISO 17025 Standards. Testing methods conform to industry standard specifications including SAE, ASME, ANSI, FMVSS/CMVSS and MIL-STD

CLARK Testing Services, LLC A Division of Clark Testing Group

Clark Testing Services Structures Testing



Clark Testing Services has been active in experimental stress analysis, strength and fatigue testing of structural components, beam fatigue and systems for over 50 years. Products tested range from small machine components to large off-highway vehicle frames.



Structures Testing





Capabilities

CTS provides start-to-finish services for product development, for process development, and troubleshooting.

- Powertrains
- Hydraulics
- Noise and Vibration
- Structures
- Field Data Acquisition
- Environmental

Structures Testing

- Experimental Stress Analysis:
Brittle lacquer, strain gaging, design stress evaluation, and static and dynamic recording equipment.
- Ultimate strength, proof load, certification testing (SAE, ASME, ANSI, FMVSS/CMVSS and MIL-STD).
- Fatigue, performance and durability testing.
Servo-hydraulic actuator and control systems.
Linear and torsional capability.
- Stability testing (vehicle or system).
- ROPS/FOPS/OPS testing.
- Seat, seat anchorage, and seat belt testing.
- Vehicle component and frame testing.
- Suspension, brakes, hitches and 5th wheel testing.
- Field duty cycle and accelerated lab fatigue testing.
Failure analysis.
- System Evaluation:
On-vehicle performance, prototype testing, efficiency studies, fatigue analysis, and long term recording capability.

Above testing can be combined with thermal cycling.

Structures Test Equipment

- 30' x 90' Structures tie-down floor with 1,000,000 lbs. of clamp capacity, with an assortment of arches, load frames, mounting stands, and erector set fixturing.
- Portable tie-down beds for small component testing.
Tilt table, 10' x 13'.
Tractive effort pad, 24' x 20' x 5' deep.
- 250-channel static strain/load recording system.
24-channel SoMat dynamic recording system.
- Electrohydraulic fatigue testing systems.
- Rotary actuators with capacity to $\pm 250,000$ lbf-ft and $\pm 50^\circ$ rotation.
- Linear actuators with capacity to 400,000 lbf.
- Pressure, flow, torque, speed, load, temperature, displacement, and acceleration transducers.



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