



# COMPONENT/SYSTEM QUASI-STATIC LOAD FACILITY

## **Purpose:**

To perform structural strength test capability for small structural elements and components.

Several universal load reaction structures exist for testing struts, brackets, plates, panels, etc. A large Gilmore Universal Test Machine is capable of applying 2,000,000 pounds force (lbf), in tension or compression to failure (shock) load and 3,000,000 lbf. in tension or compression without failure (no shock). The Gilmore machine can accommodate test articles in size up to 10 x 10 x 25 ft. The machine is hydraulic servo controlled, has a stroke of 3 ft, speed ranges up to 3-in/min, and multiple full scale load ranges. Three universal structural test machines include a 50,000 lbf. capability with 21 inches between columns and a 35-in tension/33-in compression height; a 120,000 lbf machine with 30 inches between columns and 95-in tension or compression height; and a 500,000 lbf machine with 30 inches between columns and 108 inches plus 12-inch stroke in tension, 108 inches plus 12-inch stroke in compression. Speed ranges from 0.001 to 20-in/min are available on the latter two machines.



## **POINT-OF-CONTACT:**

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