

2.7 MN (600 kip) MTS uniaxial servo-controlled Testing Frame



Load frame: 309 series 4-pole system installed on a foundation supported by air bags, the cross head is driven hydraulically

- The maximum length of a specimen is 4.9 m (16 ft.)
- The maximum width of a specimen which could be put in the work area is 1,371 mm (54 in.)

Actuator: 205 series

- Static load capacity: ± 2.7 MN (± 600 kip)
- Dynamic load capacity: ± 1.6 MN (± 360 kip)
- Piston displacement: ± 127 mm (± 5 in.)

Grips: 641.22 series alignomatic

- The diameter range of the cylindrical grip section of a specimen is 25 - 100 mm (1.0 - 4.0 in.)
- The thickness range of the flat grip section of a specimen is 25 - 100 mm (1.0 - 4.0 in.)
- The minimum grip section length of a specimen is 203 mm (8 in.)
- The maximum width of a flat grip section is 190 mm (7.5 in.)

Hydraulic Power Supply: 503.13 series

- Volume capacity: 4.4×10^{-3} m³/s (70 GPM)
- Pressure: 20.7 MPa (3,000 psi)

Controller: MTS FlexTest 60

- Control modes: position, load, strain I, strain II
- Computer: PowerMac for both control and acquiring data from up to 16 channels using LabView software.