

445 kN (100 kip) MTS uniaxial servo-controlled Testing Frame



Load frame: 312 series 2-pole system installed on the floor

- The cross head is driven hydraulically
- Maximum length of specimen: 1.6 m (64 in.)

Actuator: 204 series

- Static load capacity: ± 445 kN (± 100 kip)
- Dynamic load capacity: ± 267 kN (± 60 kip)
- Piston displacement: ± 76.2 mm (± 3 in.)

Grips: 641.17 series alignomatic

- Diameter range of cylindrical grip section of specimen: 6.4 - 57.2 mm (0.25 - 2.25 in.)
- Thickness range of flat grip section of specimen: 0 - 57.2 mm (0 - 2.25 in.)
- Minimum grip section length of specimen: 127 mm (5 in.)
- Maximum width of flat grip section: 99 mm (3.9 in.)

Hydraulic Power Supply: 503.13 series

- Volume capacity: 5.678×10^{-3} m³/s (90 GPM)
- Pressure: 20.7 MPa (3,000 psi)

Controller: MTS FlexTest 40

- Control modes: position, load, strain I, strain II
- Computer: Centris 650 for both control and acquiring data from up to 16 channels using
- LabView software.