

## Compression Frames (FRM4-1000)



- Compression frames for testing rocks, concrete, and other construction materials
- Pre-stressed four-column and adjustable cross-head design
- Load capacities up to 4,500 kN (1,000 kips) and stiffness up to 4,300 kN/mm ( $25 \times 10^6$  lbs/inch)
- Closed-loop digital servo control
- Accepts GCTS High Pressure triaxial cell & other testing components
- Available integrated hydraulic lift for triaxial cell for easy setup
- Ideal for performing unconfined compression, triaxial, bending, indirect tension, fracture, creep, and other compression tests
- Economical “turn-key” systems built to customer specifications

### DESCRIPTION

GCTS Compression Frames are typically operated with our Digital Servo Control software and hardware package that includes the electro-hydraulic power unit, servo valve, sensors, computer interface, and testing software.

Available with these frames is an automatic hydraulic lift for triaxial cell and roller assembly for fast and easy specimen setup. This option is recommended with GCTS high-pressure triaxial cells.

These frames can also use an economical air/oil pressure booster instead of the electro-hydraulic power unit for long term compression tests like the creep test.

### SPECIFICATIONS

For Typical Systems (FRM4-1000-5)

Axial load capacity (static) . . . . . 1,000 kN  
Axial load capacity (dynamic) . . . . . 800 kN  
Stiffness . . . . . 700 kN/mm  
Stroke . . . . . 50 mm  
Servo valve capacity . . . . . 19 l/min  
Distance between columns . . . . . 400 mm  
Distance between platens . . . . . 600 mm

### SHIPPING

Weight: . . . . . 1,600 kg  
Dimensions (meters) . . . . . 1W x 2D x 2H