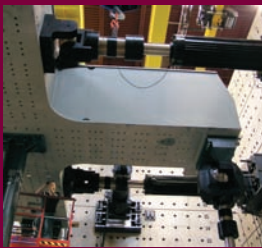


# Actuator system

University of Minnesota MAST Laboratory



Horizontal actuators  
(Qty 4)

- 1960 kN (440 kip)
- $\pm 400$  mm ( $\pm 16$ " )
- U-joint style swivels,  $\pm 25^\circ$  travel

Vertical actuators  
(Qty 4)

- 1470 kN (330 kip)
- $\pm 500$  mm ( $\pm 20$ " )
- hydrostatic bearings,  $\pm 30^\circ$  travel
- spacers

Ancillary actuators  
(Qty 4)

- 980 kN (220 kips)
- $\pm 250$  mm ( $\pm 10$ " )



The MAST system's eight actuators apply the six degree-of-freedom load and displacement combinations to load and deform the specimen through the crosshead.

Actuators manufactured by MTS Systems Corp.