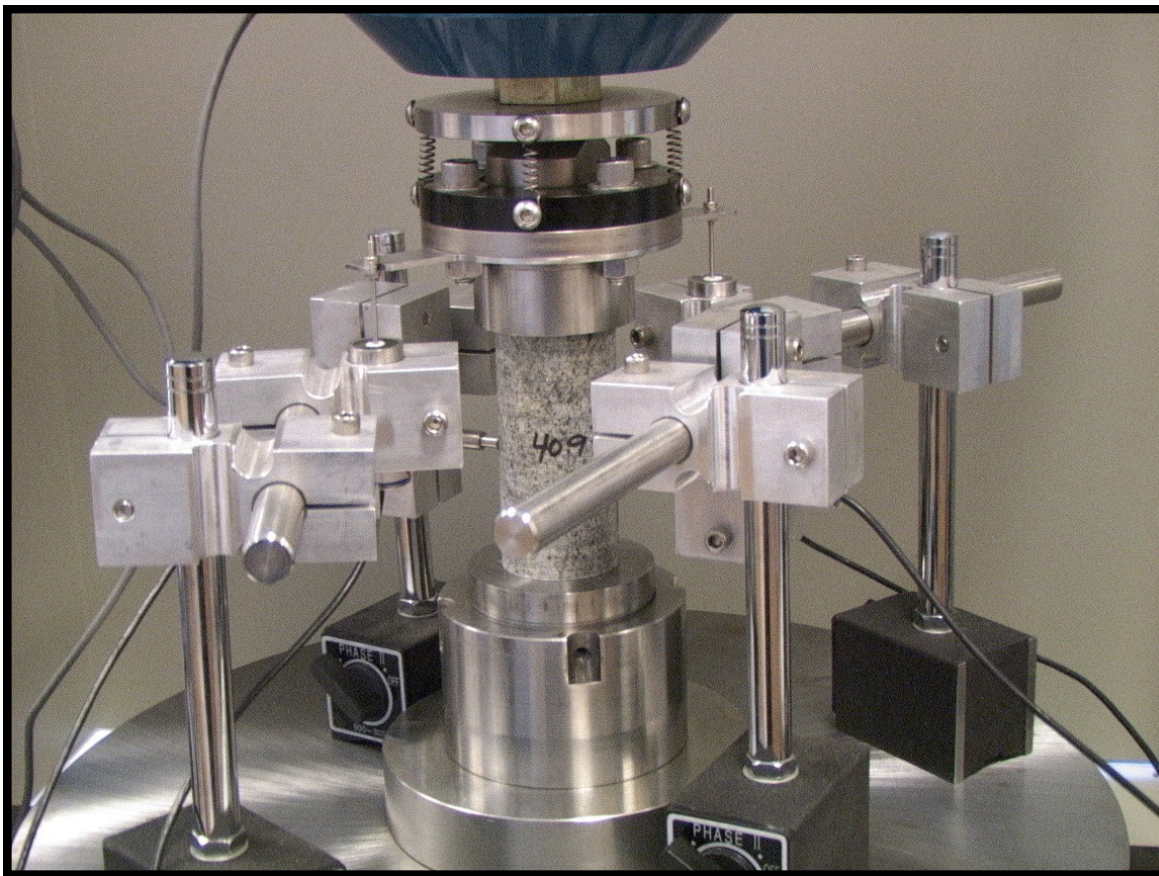


Rock Testing

Challenge: A government agency wanted to test rock to determine the compressive strength, Young's modulus and poisson's ratio without the use of the time consuming and cumbersome strain gauges.



Solution: Design and build a rock testing fixture and a 22kN(50,000lbf.) Load frame. The rock testing fixture uses two vertical and two horizontal LVDT's with a range of +/- 5.0mm(+/- 0.2 in.) and a swivel head. This solution allowed the customer to run a high volume of tests in a relatively short time.