



# News

For Immediate Release

**Over 35 Years of  
High Performance  
Customer Service**

## YATES INDUSTRIES—HELPING SAVE LIVES

*Yates dedicated team of expert cylinder craftsmen **shake it up** at Lehigh University.*

In 2009, 88,011 people died in earthquakes. In China alone 69,195 died, 374,177 were injured and 18,392 missing. Of the 40 note worthy earthquakes tracked by the United States Geological Survey in 2008, seven occurred in the United States and no deaths were reported – sheer luck, partly.

Bethlehem, PA. – On October 1, 2004, the US National Science Foundation established the George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES) as a national, networked collaboration of geographically distributed, shared-use experimental research equipment sites.

Lehigh University, in Bethlehem, PA is part of the network specializing in real-time multidirectional (RTMD) testing for earthquake simulation of large-scale structural systems. – [www.NEES.leigh.com](http://www.NEES.leigh.com)

The core components in the testing are hydraulic actuators used to exert force on the test objects, making it possible to see the resistance of various structures and performances of seismic isolators and energy dissipaters. The original three-piece hydraulic actuators proved ineffective at sustaining the force necessary to test the different designs and materials. The actuators move at speeds in excess of 13 hertz (HZ) – a unit of frequency, equal to one cycle per second. The original cylinders were moving out of concentricity, which resulted in the rod warping and freezing up in the cylinder from the extreme heat and pressure generated during the testing.

On April 24, 2008, Yates was hired to remedy the problem. Yates engineers designed a onepiece piston and rod assembly using high fatigue grade materials, very strict design standards and flawless build tolerances so that all the parts, including the fluid, operated in perfect harmony with one another. The first actuator installed in August 2008, performed beyond expectations. Yates rebuilt four actuators in total, delivering and installing the last ones in February 2009. According to Gary Novak, Operations Manager NEES Leigh RTMD Facility,



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“Yates takes the time to make sure they have it right – they are very careful with their work and stand by their work. We are very happy with the quality...”

Yates Industries, with offices in St. Clair Shores, Michigan and Decatur, Alabama – is an ISO 9001:2008 certified company offering quality high performance cylinders and the largest most complete repair facility in the country. Yates warranties are among the best in the business and the company offers 24/7 emergency service.

For over 35 years, Yates Industries has been offering reliability, peak performance and **“First Time, Every Time”** service at competitive prices.



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