

Project Spotlights

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An MAE publication highlighting some of the latest advanced engineering projects.

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Mustang Advanced Engineering delivers Inertia Test Stand to the EATON Corporation

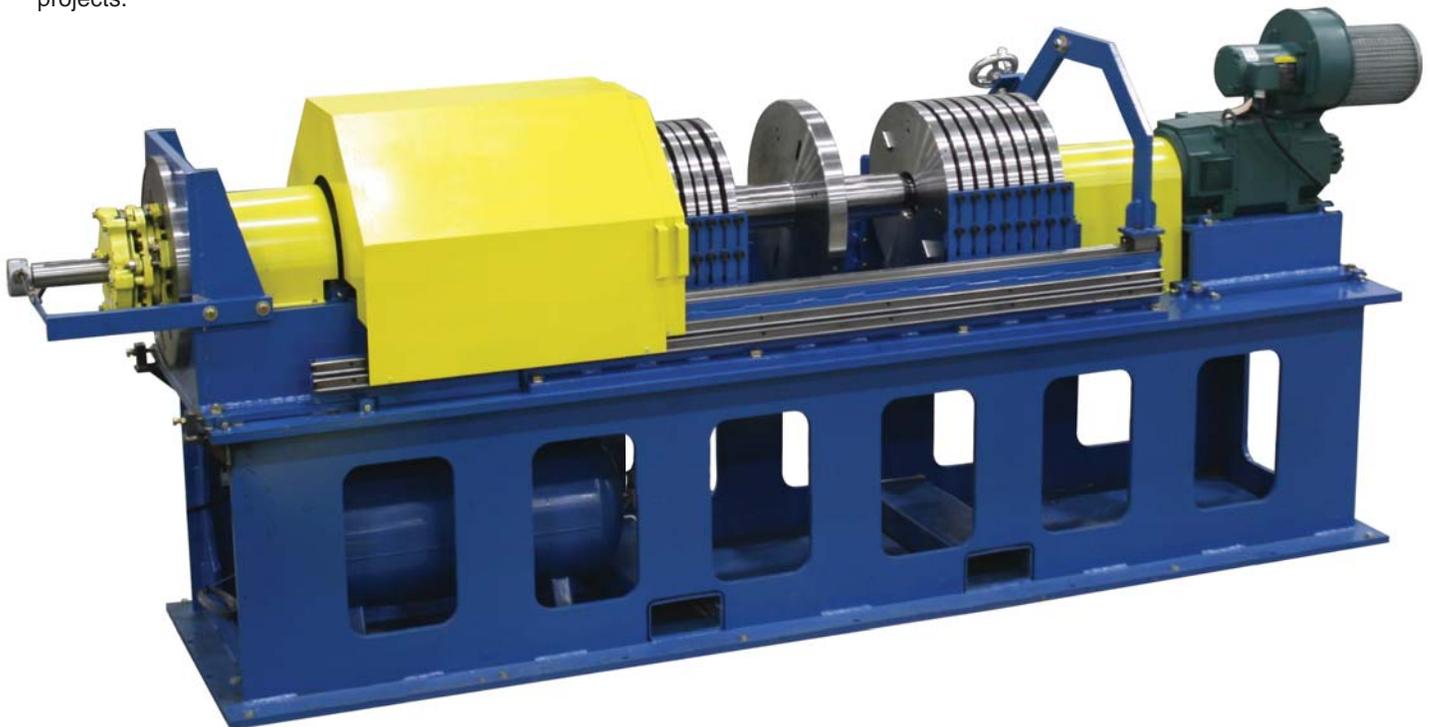
December 5, 2011 - Mustang Advanced Engineering delivers an Inertia Test Stand for brake testing. The test stand utilizes a 40 HP AC Motor with corresponding variable frequency drive operating to a maximum speed of 3,000 rpm. The test stand provides base inertia of 77 lb ft² with eight (8) selectable 29 lb ft² inertia weights and eight (8) selectable 37.5 lb ft² inertia weights.

The test stand's prime mover is an electric motor that is rated for multi-directional and reliable variable speed control. A 480 VAC motor is used to reduce the current requirements of the system. The motor is capable of providing continuous constant torque from the base speed down to and including zero speed.

The inertia weight system for EATON is similar in size and scope to existing MAE inertia weight systems. The inertia weight system consists of a structurally stiff base frame which will attach EATON's bed plate. The frame has an integrated gantry crane to assist in changing weight configurations.

The software provided will allow EATON the flexibility to configure the system's data collection. The software will collect all data including start and stop times. The system includes data acquisition channels to collect all required data including speed, torque, pressure, and various digital inputs including E-stops and cover counterlocks.

"Mustang is extremely proud to have been chosen by EATON Corporation for this project," said Dean Ganzhorn, Mustang President and CEO. "Mustang's experience with this type of application was key to us winning this project and to our ability to deliver this system to EATON. Mustang anticipates a bright future with EATON and we look forward to working together on potentially many more projects."





About MAE

Mustang Advanced Engineering is a leading provider of comprehensive testing solutions for the development and testing of engines, powertrain systems and complete vehicles. Founded in 1975, Mustang has long been a trusted source of expertise in measurement and testing technologies for the global industrial market. World-class product offerings, custom design support and technical assistance, backed by a dedicated factory service team, has positioned MAE among the global leaders in providing advanced testing solutions.

MAE's "custom solutions" approach focuses all of our product, application and automation experience on your specific measurement and testing requirements. Our goal is to provide tailored solutions that optimize our customers testing and development operations by providing intelligent system designs coupled with outstanding technical expertise and world-class customer support. MAE provides specialized testing systems designed for the customer's specific application - from engine, transmission, powertrain, hybrid, racing, and component testing applications. MAE's modular design philosophy allows for a high degree of scalability, from simple durability testing to highly sophisticated and complex powertrain development test cells.

As a full service supplier/partner, MAE offers a wide array of services to customers all over the world. Working with your staff, our experienced team of engineers uses the latest solid modeling CAD and CAE software and offers a comprehensive resource for your testing design and development needs. Our engineers specialize in finding the most practical and economical solutions for new or unusual testing applications. Whether your application is fully conceived or you need a design partner, the engineers at Mustang Advanced Engineering invite you to tap into their decades of experience in testing and measurement systems development.

As a global leader in the design, manufacturing, and integration of advanced testing and measurement systems, MAE has delivered and continually supports literally thousands of test systems to virtually every corner of the globe.

Our mission is to achieve the highest possible level of customer satisfaction by providing innovative technical solutions and product designs and by striving to achieve perfection in product quality, delivery and service. At MAE, our customers are our highest priority - we do everything in our power to satisfy our customers. Our entire organization understands that the customer comes first and nothing else is more important.

To learn more about how MAE can help solve your most demanding testing challenges contact one of our sales engineers or visit www.mustangae.com.

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