

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 Two Automated End Of Line Multi-Function Validation Test Systems For Honda South Carolina's Timmonsville ATV Production Facility

Mustang Advanced Engineering recently delivered two fully automated End Of Line (EOL) production validation test systems for Honda South Carolina's ATV Production Line in Timmonsville, SC. Mustang has a strong long history with Honda, having previously provided EOL test systems to Honda's Marysville, OH, motorcycle production facility. Mustang's reputation for providing highly reliable and low maintenance equipment to Honda's other plants made Mustang an easy choice for Honda's EOL testing upgrade in the Timmonsville, SC plant. Each of the two test systems contain an AWD, multi-function chassis dynamometer capable of variable wheelbase adjustment, vehicle load testing, brake and parasitic drag testing, road simulation and functional testing. An automatic pop-up front and rear vehicle restraint system are used to limit the ATV's movement while undergoing test analysis. All of the testing is performed immediately after production and prior to shipment.

The two systems are designed to handle Honda's high volume vehicle assembly line with a vehicle build rate of approximately 38 seconds per unit. Mustang's advanced End Of Line software gives Honda the flexibility to set-up their testing sequences and to easily modify sequences in the future.

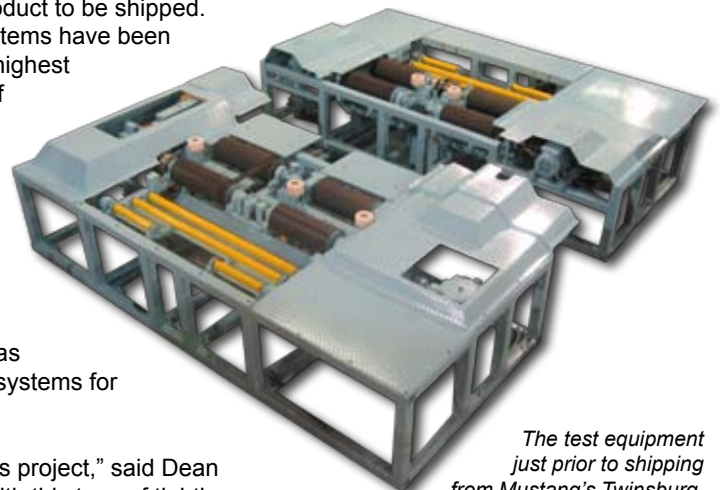
"The standardized testing approach utilized by the systems enables Honda to functionally test all ATV's before shipment. Honda has financially justified the purchase of the equipment against the decrease in warranty claims and a higher quality of product to be shipped. "With a blazing build rate of 38 seconds per vehicle, the testing systems have been designed for fast loading, testing and unloading with safety as the highest priority" said Donald Ganzhorn, Executive Vice President and Chief Engineer for Mustang Dynamometer.

Mustang delivered, installed and started the systems up over a week-end shut down at the Honda South Carolina plant. Initial training for the Honda team members of the test systems was conducted at Mustang's Twinsburg, Ohio plant during the final system test out. Prior to the Monday plant shift start-up a refresher course was performed with the Honda team members on the operation and testing sequence of the machine. Mustang has performed Weekend Installation, Start-up & Training of 5 EOL test systems for Honda over our long working history.

"Mustang is extremely proud to have been chosen by Honda for this project," said Dean Ganzhorn, Mustang President and CEO. "Mustang's experience with this type of tightly integrated, advanced end-of-line test was key to us winning this contract and to our ability to deliver these system to Honda. Mustang anticipates a bright future with Honda and we look forward to working together on potentially many more projects."



The multi-function tester in action testing Honda ATVs as they come off the line at Honda South Carolina's Timmonsville ATV Assembly Plant.



The test equipment just prior to shipping from Mustang's Twinsburg, Ohio manufacturing facility.



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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