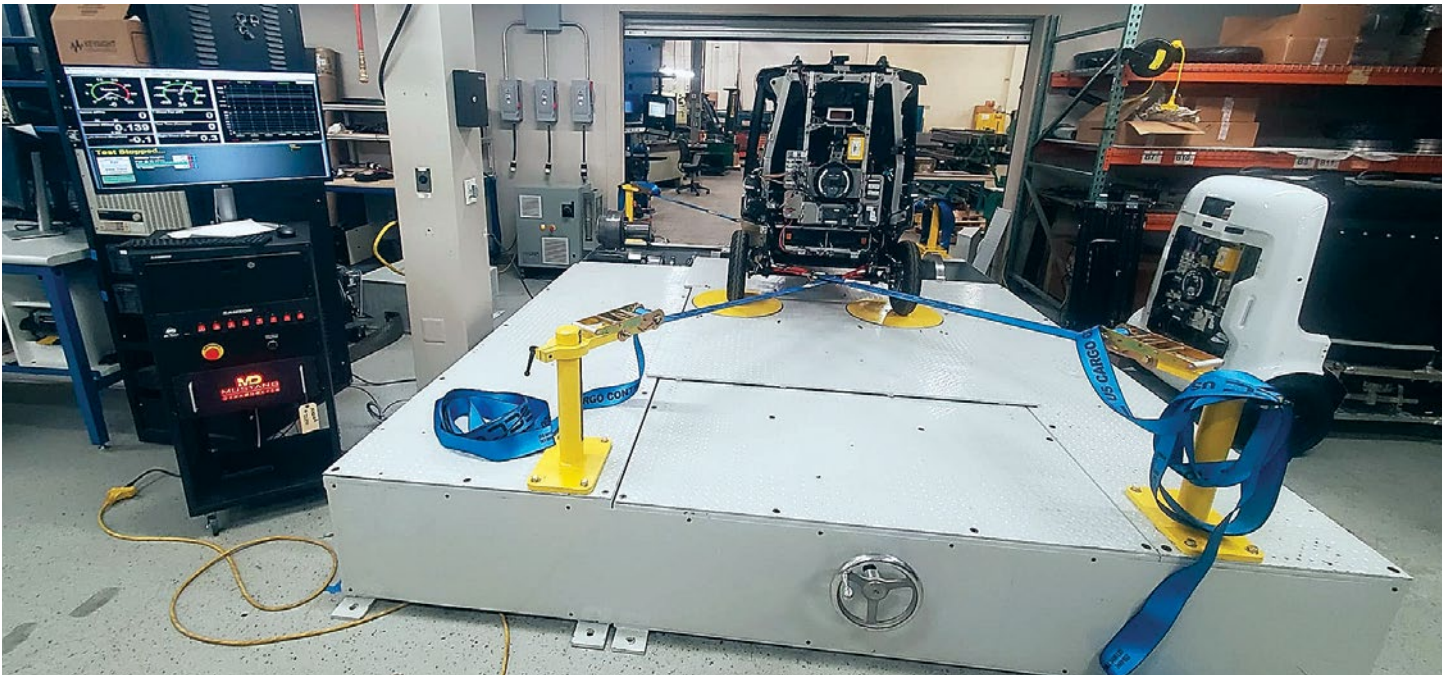


PROJECT SPOTLIGHT

Magna International - Autonomous Vehicle Test Stand



MAE Develops R&D Test Stand for Autonomous 3-Wheeled Delivery Vehicle

Mustang Advanced Engineering (MAE), an American manufacturer of quality, industry-leading testing equipment, dynamometers, and related products, has delivered a research and development test stand for Magna International, a world-wide leader in engineering and manufacturing in various automotive aspects. Magna approached MAE about developing a testing system for their recently developed autonomous 3-wheeled delivery vehicle. With the totally electric, lightweight robotic vehicle, Magna has the goal of reducing last mile delivery costs and carbon emissions in urban environments. The need for validation of achieving their goals has driven the creation of the dynamometer test stand.

Traveling at speeds of up to 20 mph, the autonomous driving system uses cameras, radar, LIDAR and other hardware to navigate. With the growing industry of self-driving vehicles and the need to reduce emissions, Magna has already partnered with Marco's Pizza, one of the nation's fastest growing pizza brands, to explore the delivery method in specific locations within North America. MAE was able to design and create the test stand meeting Magna's timeline and testing parameters.



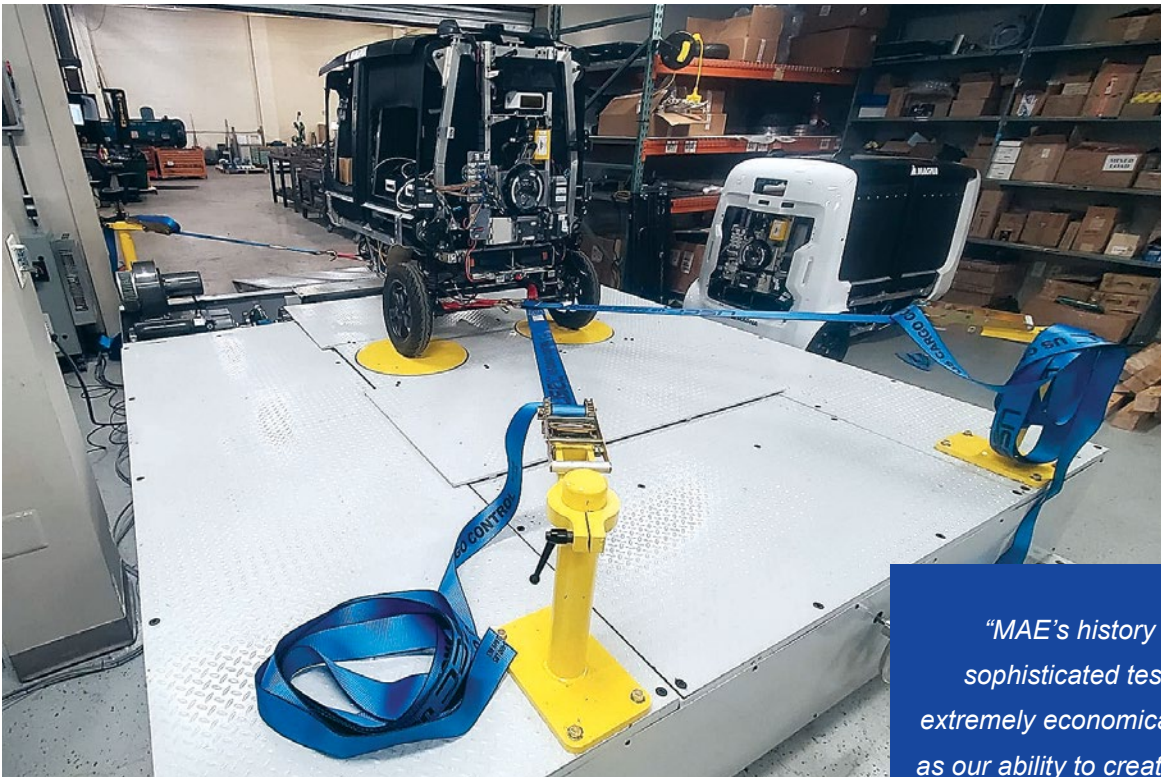
SNAPSHOT

Project: R&D Test Stand
Customer: Magna International
Where: Troy, Michigan
Purpose: Chassis Dynamometer, testing system for research and development of electric autonomous vehicles.

The chassis dynamometer is equipped with several features such as:

- Permanent restraints
- Turn-table for measuring turning-radius during dynamic testing
- Adjustable wheelbase
- AC Motor power-absorber and flywheel for extra inertia

“MAE’s history of providing sophisticated test stands in an extremely economical manner as well as our ability to create testing systems for autonomous vehicles, we were able to provide a great, simple testing solution for our customer.” said Michael Caldwell, Senior Account Manager at MAE.



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*- Michael Caldwell,
Senior Account Manager at MAE*



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About MAE

Mustang Advanced Engineering is a leading supplier of advanced, custom engineered testing and measurement systems. Located in Twinsburg, Ohio since 1986, MAE delivers world-class testing solutions, custom design support, technical assistance, backed by a dedicated factory service team, making them a trusted source of expertise for the global industrial market. Visit MustangAE.com for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram

