

PROJECT SPOTLIGHT

Scag Power Equipment - Zero Turn Mower Dyno



Mustang Advanced Engineering (MAE), an American manufacturer of quality, industry-leading, testing equipment, dynamometers and related products, recently completed the installation of a specialty chassis dynamometer at Metalcraft of Mayville, in Mayville, Wisconsin. Scag Power Equipment, a division of Metalcraft which manufactures both electric and gas powered zero-turn lawn mowers requested a custom designed dynamometer for both end-of-line testing and for research and development of their products. As the industry sees an increase in the need for electric power equipment, Metalcraft contacted Mustang for the specially designed chassis dynamometer.

The dyno uses two eddy current power absorber units (PAU's) with a 1:1 roller to PAU ratio. Most of the mowers being tested will produce low horsepower, for example approximately 12

HP, yet with higher amounts of torque. Zero turn mowers have independently controlled, bi-directional drive wheels hence the need for two PAU's.

About the dynamometer system:

- Low maintenance, above ground installation, safe & easy to operate
- Precise load control with accurate road load simulation and repeatability
- (2) Air-cooled eddy current PAU's provide bi-directional loading of both drive wheels



SNAPSHOT

Project: Zero-turn lawn mower R&D dynamometer

Customer: SCAG Power Equipment, a division of Metalcraft of Mayville

Where: Mayville, Wisconsin

Purpose: Research and development of both gas and electric zero-turn lawn mowers

“MAE has the expertise in designing and manufacturing any testing equipment to meet our customers’ requirements, for Metalcraft of Mayville, MAE delivered real world testing of their power equipment without the grass.”

- David Ganzhorn, V.P. Sales



Scag's EVZ, electric riding mower on the new zero turn chassis dynamometer



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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.

