

PROJECT SPOTLIGHT

End-of-Line Test Stand at Power Equipment Manufacturer

MAE
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ADVANCED ENGINEERING
Fearless Innovation™



OVERVIEW:

The manufacturer's facility is a cornerstone of its outdoor power equipment division. Known for precision, reliability, and performance, the company required a robust testing solution to protect its reputation and ensure every zero-turn mower leaving the plant meets strict quality standards.

CHALLENGE:

With increasing demand and an expanding product line, the manufacturer faced a critical question:

- How can we consistently test and validate zero-turn mowers at the production end-of-line without slowing the production process?
- The existing process was manual, inconsistent, and unable to scale. It introduced variability, increased the risk of operator error, and created a bottleneck in production.

SNAPSHOT

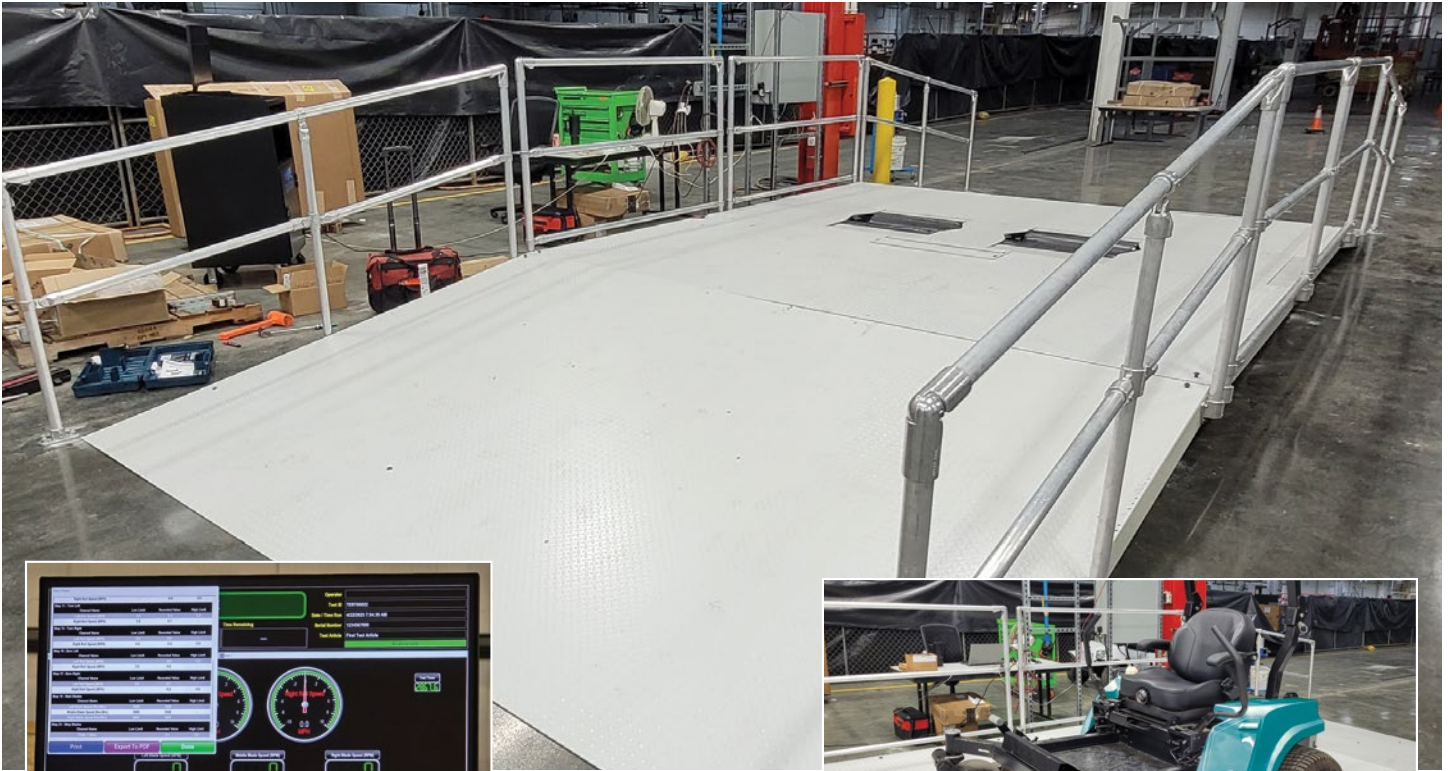
Project: End-of-Line test stand for zero-turn mowers
Customer: Large manufacturer of outdoor power equipment
Where: North Carolina
Purpose: Testing of zero-turn mowers before release to public sales

SOLUTION

Mustang Advanced Engineering (MAE) designed and implemented a fully integrated, purpose built end-of-line test station specifically for zero-turn mowers. Some key features include:

- Automated diagnostic and functional testing
- Realtime data acquisition and validation
- Seamless integration with the manufacturer's production system
- Safe, efficient, and operator friendly design
- Laser based measurement of mower blade speed and rotation

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RESULTS

- Consistent, automated testing across all units
- Streamlined quality assurance process
- Faster product release cycles
- Improved reliability and repeatability
- Reduced operator error and production downtime

CONCLUSION

With Mustang's engineering expertise, the manufacturer now ensures every zero-turn mower is thoroughly tested before leaving the line delivering consistent quality and exceeding customer expectations.



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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, MAE delivers world-class testing solutions, custom design support, and technical assistance, backed by a dedicated factory service team, making MAE a trusted source of expertise for the global industrial market. Visit MustangAE.com for more information. Follow them on Facebook, X, LinkedIn, and Instagram.

