

# News Release

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*For Immediate Release:*

## MAE Develops Ultra Lightweight Tow Dynamometer for Kubota UTVs

**Twinsburg, Ohio, July 3, 2025:** Mustang Advanced Engineering (MAE), an American manufacturer of quality, industry-leading testing equipment, dynamometers, and related products, has announced the successful delivery of a custom-engineered, lightweight tow dynamometer to Kubota Tractor Corporation, a global leader in agricultural and utility vehicle manufacturing headquartered in Grapevine, Texas. The goal was enhancing Kubota's research and development capabilities for its consumer-level utility terrain vehicles (UTVs) and recreational powersport vehicles. MAE's suggested solution was a high-performance, portable dynamometer that redefines how real-world towing loads are simulated in a controlled environment.

**Challenge:** Kubota required a compact and efficient dynamometer capable of simulating realistic towing conditions without sacrificing precision or mobility. The ideal solution would not only deliver high testing accuracy and durability but also be light enough to easily integrate into various R&D settings.

**Solution:** MAE responded by engineering the MDT-8KN-UL, a custom, ultra-lightweight tow dynamometer tailored to meet Kubota's specific testing requirements. Features of the tow dyno are: 1,000 lbs. lighter than the standard MAE MDT-8KN tow dyno, speed range of 1.0 MPH (1.5 KPH) to 60 MPH (100 KPH), grade simulation of Up to 80% for vehicles weighing up to 4,200 lbs. (1,900 kg), and advanced data acquisition system for real-time performance analysis. The Control Modes are Manual Control, Constant Force (Draw Bar), Constant Speed, Constant Power, and Vehicle Simulation (A, Bv, Cv<sup>2</sup>, weight, grade). Additionally, MAE's solution includes script testing capabilities, enabling test engineers to automate and customize test cycles based on time or distance. Operators can seamlessly transition between control modes mid-test, offering unmatched flexibility and functionality.

**Results:** The deployment of the MDT-8KN-UL has delivered measurable improvements in Kubota's R&D efficiency, including: Enhanced testing precision for UTVs and recreational vehicles; Realistic load simulation in a lab-controlled setting, and a scalable, cost-effective platform for future product innovation.

**Conclusion:** This successful project underscores MAE's dedication to delivering innovative, customer-focused testing solutions. The MDT-8KN-UL represents a new benchmark in portable dynamometer technology, empowering Kubota to push the boundaries of high-performance, consumer-ready vehicle development.

Visit [MustangAE.com](http://MustangAE.com) or contact [sales@MustangAE.com](mailto:sales@MustangAE.com) for more information.

### 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, and technical assistance, backed by a dedicated factory service team, making them a trusted source of expertise for the global industrial market. Visit [MustangAE.com](http://MustangAE.com) for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram.

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