

# PROJECT SPOTLIGHT

## High Speed Gearbox Test Stand for Aerospace Industry



### AMAD Commissioned

Mustang Advanced Engineering (MAE), a leading manufacturer of advanced dynamometers and custom test stands, has expanded its portfolio with the development of a new high-speed gearbox test stand designed for demanding aerospace and defense applications.

MAE has a long history of producing test systems for electric and autonomous vehicles, as well as custom high-speed test stands for a wide variety of industries. The newly developed gearbox test stand is capable of rotational speeds up to

27,000 RPM (with higher speeds available upon request) and features up to five shaft ends to accommodate a range of test configurations.

Equipped with MAE's proprietary TestCell™ automation and data acquisition software, the stand provides advanced functionality including fully scripted test procedures, integrated pass/fail criteria, and automated test article recognition via RFID, barcode, or manual input.

### SNAPSHOT

Project: High speed gearbox test stand for advanced aviation  
Customer: Aircraft Maintenance and Ammunitions Depot  
Industry: Aviation  
Where: San Diego, California



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*“Experience, quality, and competitive lead times are what set (MAE) apart. This new gearbox test stand demonstrates our ability to meet the unique demands of aerospace and defense customers with precision-engineered, customizable solutions.”*

*- David Ganzhorn,  
Vice President of Sales for at MAE*

### Key Features and Benefits

- Speeds up to 27,000 RPM (higher speeds available)
- Supports up to five shaft ends
- Oil conditioning system
- Multiple sensors for temperature and vibration monitoring
- Customizable and expandable design
- Proprietary TestCell™ automation and data acquisition software

This latest innovation supports testing requirements for aerospace gearboxes, including those found in the U.S. Navy’s F/A-18 Hornet and F/A-18E/F Super Hornet aircraft. These advanced multi-role strike fighters rely on precise gearbox performance to ensure mission readiness under extreme conditions. Facilities such as Aircraft Maintenance and Ammunition Depots (AMADs) and related naval aviation support centers will benefit from MAE’s proven expertise in delivering reliable, high-performance test solutions.



“Experience, quality, and competitive lead times are what set Mustang Advanced Engineering apart,” said David Ganzhorn, Vice President of Sales for Mustang Advanced Engineering. “This new gearbox test stand demonstrates our ability to meet the unique demands of aerospace and defense customers with precision-engineered, customizable solutions.”

Visit [MustangAE.com](http://MustangAE.com) for more information about Mustang’s testing systems and capabilities.



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### About MAE

Mustang Advanced Engineering is a leading supplier of advanced, custom engineered testing and measurement systems. Located in Twinsburg, OH, 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](http://MustangAE.com) for more information. Follow them on Facebook, X (Twitter), LinkedIn, and Instagram.

