

News Release

Contact: **Mustang Advanced Engineering**
2300 Pinnacle Parkway, Twinsburg, OH 44087
Phone: (330) 963-5400, Email: sales@mustangae.com

For Immediate Release:

MAE is Awarded NAVAIR Contract for a V-22 Gearbox Test Stand

Twinsburg, Ohio, January 17, 2025: Mustang Advanced Engineering (MAE) today announced that the company has received a firm-fixed-price contract from Naval Air (NAVAIR) Systems Command, Commander Fleet Readiness Center in Patuxent River, Maryland, for a test stand capable of testing both left-hand and right-hand V-22 PropRotor Gearbox (PRGB) Input Quill Assemblies (IQA) for the V-22 Osprey aircraft. This includes all mechanical, electrical, software, and control systems, as well as ancillary subsystems required to test either PRGB IQA. Work will be performed in Twinsburg, Ohio, and Cherry Point, North Carolina.

The MAE unique test stand design uses the 4-Square principle to apply large torques across the IQA's in either a static or dynamic state. The torque is applied by winding up the connected shaft torque between two parallel gearboxes with equal ratios. The test stand can apply high horsepower across the IQA's at very high speeds, or revolutions per minute, which will exceed the in-flight operating conditions.

The test stand is configured with MAE's TESTCell software, which is a mature, highly versatile software package that is used to control, display, and acquire data for transmission and powertrain test stands. This versatile software package consists of many configurable modules, which gives the customer full control and monitoring of their test stand.

MAE's tightly integrated design utilizing Commercial Off the Shelf (COTS) components and MAE's highly experienced engineering and project management staff (over 250-man years of experience combined) provided NAVAIR confidence in MAE's capability of meeting the required critical time frame constraints. "MAE has successfully installed multiple military grade transmission and gearbox test stands for the Government which have been performing flawlessly. MAE's proven track record and tightly integrated solutions provide the Government significant advantages which resulted in the award", said Eser Manav, V.P. Operations, "The entire MAE team is grateful for another opportunity to serve our nation's Warfighters".

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 for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram.

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