



Partner Projects

Engineering Services Keeps Missile Development Program on Target

Customer

A domestic supplier of controls and electromechanical actuators to major US Aerospace and Defense industry prime contractors.

Application

Faster missiles are more difficult to intercept and destroy. As missile speed increases, however, so does the difficulty of maintaining or increasing on target accuracy.

Challenge

Increasing speeds require increasing dynamic response of the missile fin actuators to maintain flight path trajectory and ensure accurate arrival on target. Commercial off the shelf (COTS) electric motors were rejected due to insufficient dynamic response. The customer developed a highly custom solution that was optimized for best possible dynamic response.

Solution

The customer needed a partner who understood the challenges of prototyping and production manufacturing of highly customized high-performance electric motors. As a full-service provider of custom motor solutions focused on critical applications in the Aerospace and Defense industry, Windings was a perfect fit.

Results

Representatives of Winding's Engineering Services team worked closely with the customer to refine the design for manufacturability without sacrificing performance. Windings not only delivered working prototypes to the customer for proof-of-concept testing, they further refined the design to allow automated assembly to support full rate production. Having a team of experienced motor design and manufacturing engineers working together throughout the project helped the customer achieve their performance objectives while maintaining an aggressive project schedule.

Windings

For more than 50 years, Windings has provided engineered electromagnetic solutions for critical applications in the Aerospace, Space and Defense industries. As a full-service provider, Windings is a leader in the engineering, optimization and manufacturing of custom electric motors, generators and related components including rotors, stators, lamination stacks and insulation systems.

For further information, please contact us!

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