



## M31 MOD1 RELIABILITY ENHANCED STABILATOR ACTUATOR

# INCREASED MISSION READINESS

### Maximizing operational and financial efficiency

Increase the availability and operational effectiveness of your Blackhawk fleet with the Collins Aerospace Reliability Enhanced Stabilator Actuator (RESA). Our DL2155M31 MOD1 RESA is a direct replacement upgrade for our M20 Stabilator Actuator on H-60 and S-70 aircraft.

Designed with a brushless DC motor, anti-backlash gear train and non-contact resolver for maximum reliability, Collins M31 RESA increases fleet readiness and reduces maintenance costs as result of a reduction in the number of wear components compared to its M20 predecessor. In support of Black Hawk fly-by-wire capabilities, our M31 RESA also packages the control electronics within the actuator.

With over 2,700 RESA actuators in service or on order, the RESA upgrade is clearly returning value to the end user community. With an anticipated reliability of 10x that of the legacy M20, a MTBF of 10,000 flight hours is the target. This will result in significant operational benefits and increase in fleet readiness. The U.S. Army is retrofitting its entire Blackhawk fleet with the above goals and benefits in mind.



### KEY FEATURES AND BENEFITS

- Brushless DC motor is smaller and lighter
- Increases aircraft reliability
- In full production for U.S. Army UH-60 retrofit
- MTBF increased 10x to >10,000 operational hours
- Fully flight qualified

## ADDITIONAL FEATURES AND BENEFITS

- M20 removal and RESA installation time averages only 5.3 man-hours
- Anti-backlash gear train increases accuracy
- Non-contact resolver eliminates potentiometer and contact switches – improving accuracy and reliability
- Integrated electronics enable single part number application for legacy analog and UH-60M upgrade fly-by-wire aircraft
- Automatically self-configures to L or M configuration aircraft
- Built-in Test (BIT) capability
- Approved Airworthiness Certificate from U.S. Army for UH-60A/L/M
- Airworthiness Release (AWR) issued 2010



Stabilator

Stabilator  
actuator

Specifications subject to change without notice.



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