

TRACKEYE-S70/S90

**ADVANCED DESIGN.
ADVANCED PRECISION.**

**SELF-CONTAINED CANARD ACTUATION
MECHANISM FOR THE S70 AND S90**

The ADVANCED CONCEPTS TRACKEYE-S70/S90 is a self-contained canard actuation mechanism for the S70 and S90. Supporting precision guidance, the actuator incorporates a mechanical and electrical system, as well as motor control electronics.

The system, which runs just over 200mm in length, with a diameter of either 70mm or 90mm, faces no export controls, making it an ideal subsystem for S70 and S90 missiles.



SPECIFICATIONS

KEY FEATURES

- Self-contained
- Either 70mm or 90mm diameter
- Mechanical and electrical system
- Motor control electronics
- Unique versions compatible with S70 and S90
- No export controls

SPECIFICATIONS

	S70	S90
Diameter	70 mm	90 mm
Length	217 mm	215 mm
External load hinge moment	↗ 300 mNm	TBD
No-load slew-rate (10% to 90% of a 14° step)	↗ 600 deg./s	TBD
Controllable output shaft deflection range	14 deg.	TBD
Mechanical output shaft deflection range	15 deg.	TBD
Maximum angular acceleration (1° step)	↗ 65 3 deg/s ²	TBD
Maximum position feedback measurement error and linearity	↔ (÷ 0.1 [0° to ± 10°])	TBD
No load small-signal peak response	1.01 x CMD [*10° to 15°]) deg.	TBD
-90° bandwidth under full external load (2° peak-to-peak input)	↔ 1.5 dB	TBD
-3dB bandwidth under full external load	↗ 40 Hz	TBD
No-load overshoot (10° step CMD)	> 40 Hz	TBD
Mechanical backlash (measured on output shaft)	0.1 deg	TBD