

## Cranfield Aerospace (CAe) has over 40 years experience supporting munition lifing.

Recent years have seen a growing interest in optimising the life of aircraft defensive aids. CAe is an expert practitioner in this field and provides turn-key solutions for meeting customer needs. CAe is an approved design and production organisation (EASA and MoD) and has the authority to design, build and manufacture modifications for both military & commercial aircraft.

Capabilities include:

- Initial survey of the installation
- Analysis of operational scenarios and usage profiles
- Compilation of requirement & flight clearance documentation for trials
- Data gathering trials, including all necessary instrumentation
- Data analysis, including validation, parametric studies, etc.
- Derivation of test severities for qualification trials
- Support to laboratory qualification trials
- Verification studies



*CAe supporting Tornado trials*



**Optimum support with  
minimum disruption  
...for any installation**





## Advanced Data Logging Technology

...from Cranfield Aerospace

CAe delivers customer benefits of optimum munition life with minimum disruption through use of its advanced data logging technology.

These vibration data loggers are fully self contained and programmable for various data gathering scenarios. Post trial, their contents are quickly downloaded for analysis at the trials site.

- Whole flight recording capacity
- Self-contained, small, lightweight and robust
- Certified for airborne applications (F100A)
- Proven in the field on fast jets, helicopters, transport aircraft and Unmanned Air Systems
- Unobtrusive and highly time-efficient means of data gathering

CAe has worked closely with the UK's Defence Ordnance Safety Group, the Defence General Munitions Project Team and other key MOD and Industry stakeholders towards establishing optimum safe life for munitions. Combining accumulated expertise with particular studies of vibration, CAe helps to ensure that the latest technological developments are translated into safe and reliable systems for the most demanding use.

CAe provides a complete service for the vibration lving of air countermeasures **on any platform.**



Vibration data gathering trials, analysis, qualification test support.

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