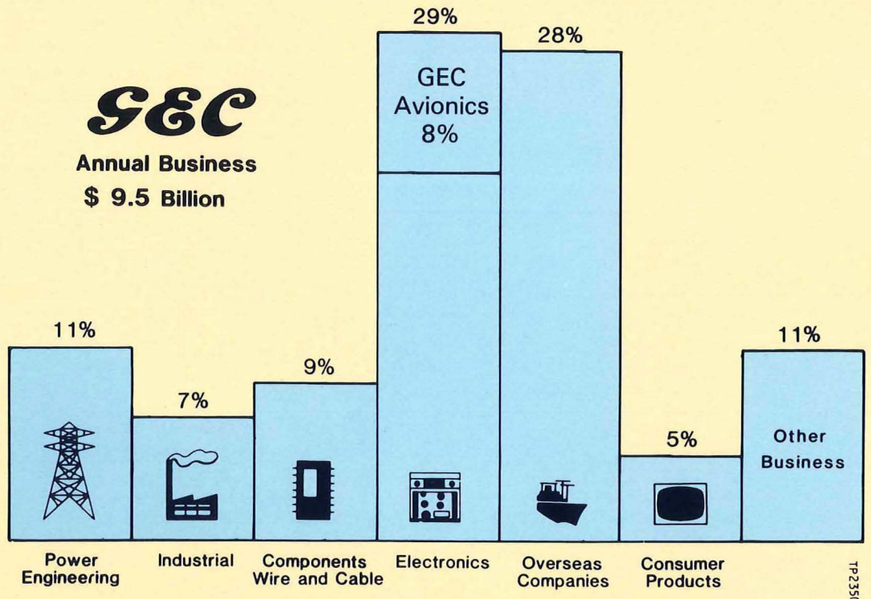
GEC AVIONICS

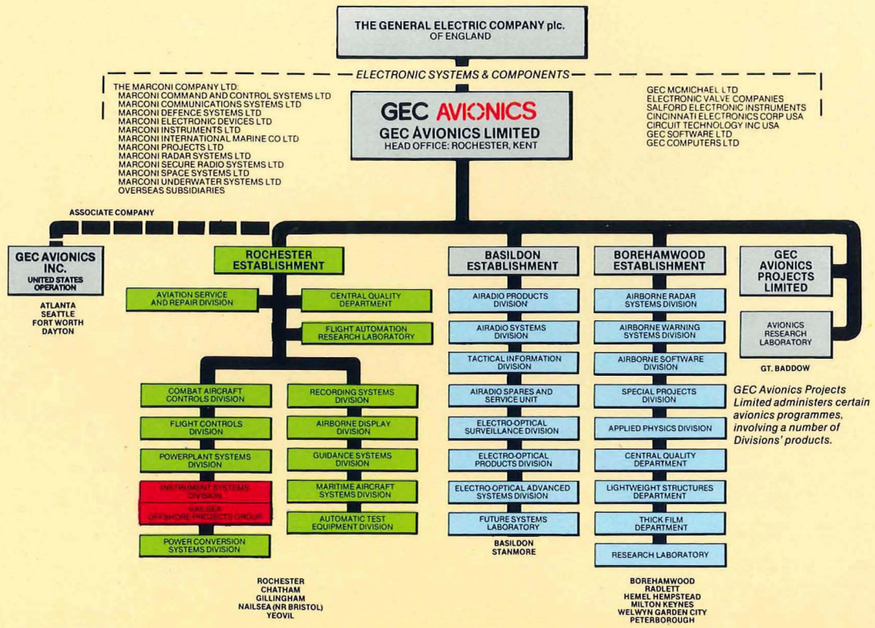
INSTRUMENT SYSTEMS DIVISION

GEC AVIONICS

GEC Avionics Limited is a wholly-owned subsidiary of GEC, the United Kingdom's most powerful engineering group



The 23 GEC Avionic product divisions, located at four major sites, manufacture a wide range of complex electronic equipment. This experience has enabled a wealth of expertise and research facilities to be made available. Furthermore the massive resources of the General Electric Company provide a totally secure procurement and support foundation.

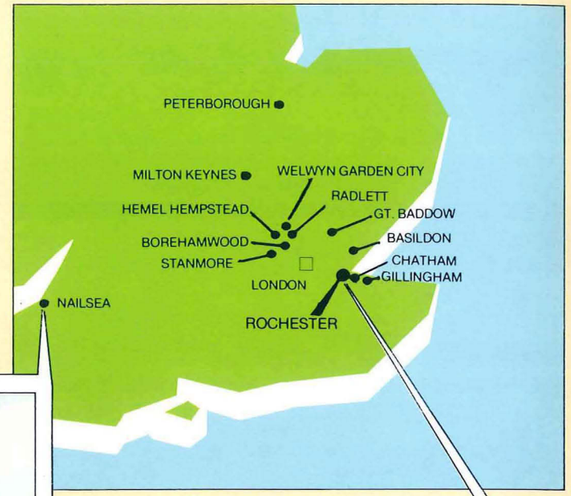


GEC Avionics Projects Limited administers certain avionics programmes, involving a number of Divisions' products.

This schematic presentation should not be taken to represent the precise legal or trading relationships between the organisations shown

The company is a highly efficient team of 12,000 men and women, many of whom are professionally qualified scientists and engineers, supported by skilled technicians and crafts people.

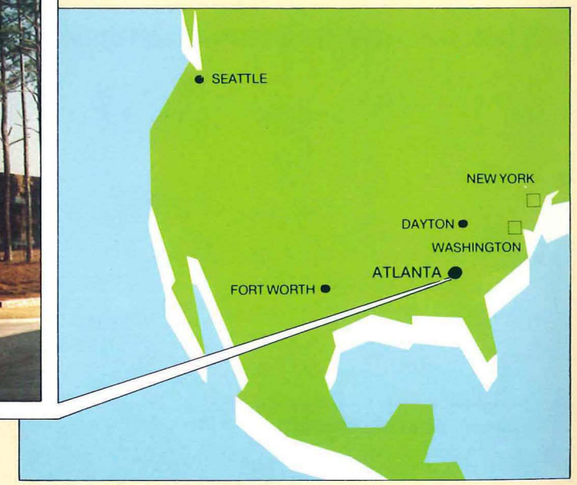
With over 2.4 million sq.ft. of well equipped premises, the company leads Europe in the production of avionics and supplies 15% of the combined UK capital electronics output of EEA member companies.



Nailsea Site

Aerial view of Airport Works, Rochester

Instrument Systems Division is situated at Rochester, Kent, with its offshore operations based at Nailsea, near Bristol.



The United States operation has its own development and production facilities

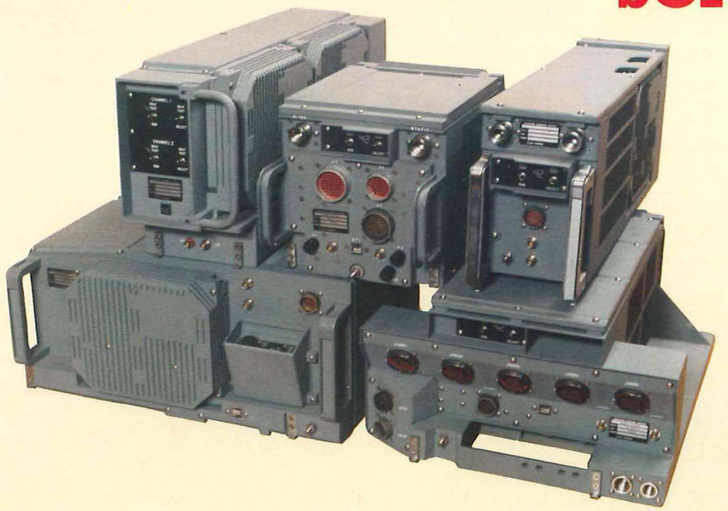
Design and production facilities include the latest CAD/CAE, laser plotters and automatic component insertion machines. Computer controlled parts provisioning, extensive use of ATE and the largest and most modern burn in facility in Europe, ensure the highest quality and most reliable systems reach the customer.

Skills and resources are dedicated to each customer programme so that performance achievement, on time and on budget, can be the primary objective.

With a high proportion of professionally qualified engineers, throughout our staff and senior management, we are able to interpret requirements and respond to problems effectively.

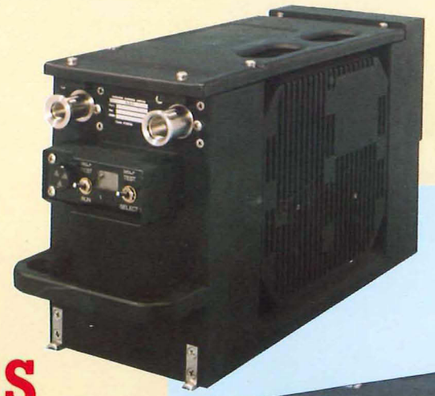
DIVISIONAL PRODUCTS

SCADC



SCADC (Standard Central Air Data Computer) program uses a core set of standard Air Data Computer modules which can be packaged to satisfy air data computing requirements for any aircraft.
The 35 aircraft variants being updated by the USAF and USN in the SCADC program are retrofitted by only 5 SCADC variants.

DIGITAL AIR DATA COMPUTERS



Single and dual channelled ADC's are now available which have 1/4, 3/8 and 1/2 ATR short chassis, suitable for rack mounting, and further options for direct surface mounting. None of these ADC's require forced air cooling and they may be powered from AC or DC sources.

HELICOPTER AIR DATA SYSTEMS

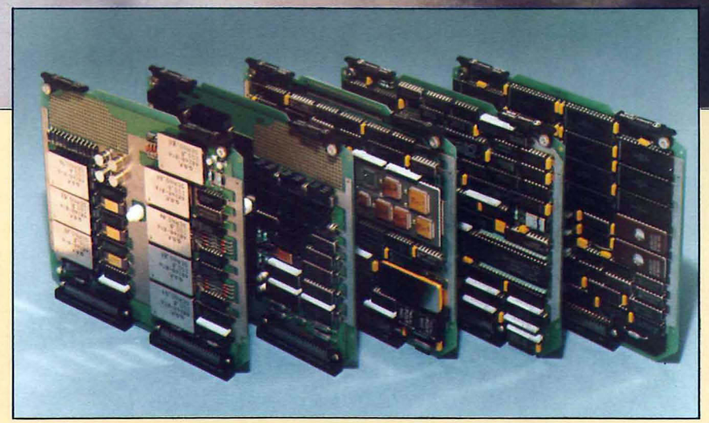
The US Army designated M-143 Helicopter Air Data System (HADS) is manufactured to meet all requirements for helicopter 3-axis data, with an overall airspeed accuracy better than ±3 knots, and pressure altitude mission repeatability of 5 feet at sea level.
Low cost, and simple, below rotor fuselage mounting leaves the valuable rotor mast area free for other vital functions such as anti-icing, night vision and weapon aiming equipment.

EJECTION SEAT SEQUENCERS

ISD is at the forefront of ejection seat microprocessor-based technology. We are working with RAe Farnborough on an advanced ejection seat research programme for which we are developing a flexible system which provides a multiplicity of outputs. This system will set new standards in performance and ultra reliability, thus enabling escape system safety envelopes to be significantly expanded.

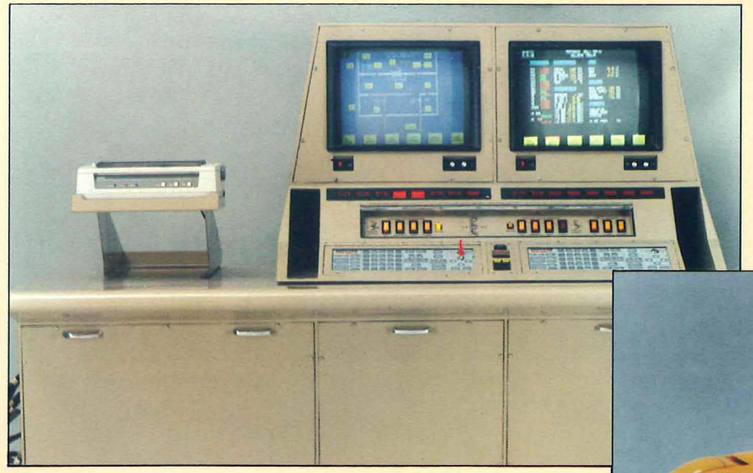
MODULAR STORES MANAGEMENT

ISD have been manufacturing Stores Management Systems since the early 1970s contract for the Tornado IDS. Over 250 of these advanced systems have been delivered to the RAF.

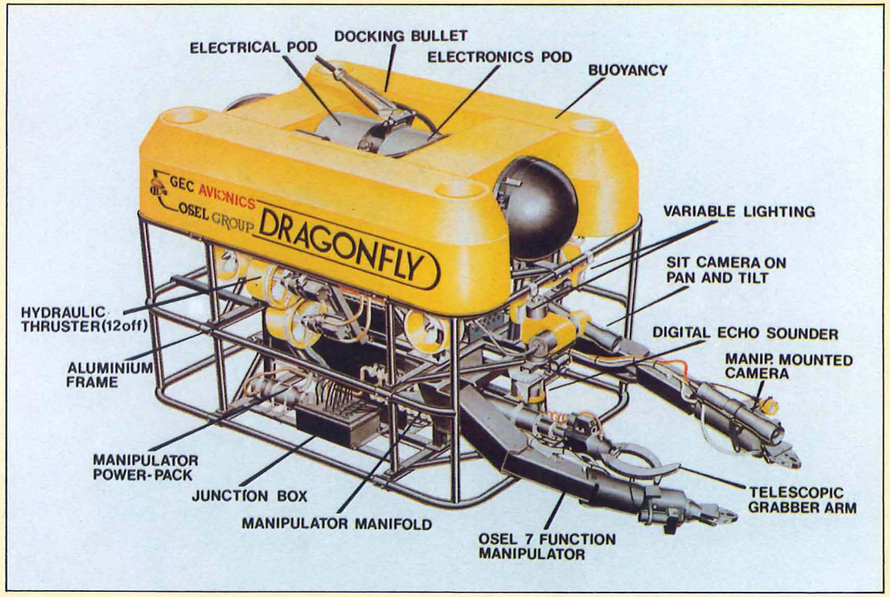


MSMS is a standard set of modules which can be packaged to satisfy the Stores Management requirements for any aircraft.
Typically the MSMS standard modules provide over 80% of the hardware in every stores management application. The remaining hardware comprises special-to-type modules which accommodate any unique aircraft/store interfaces.

OFFSHORE PROJECTS



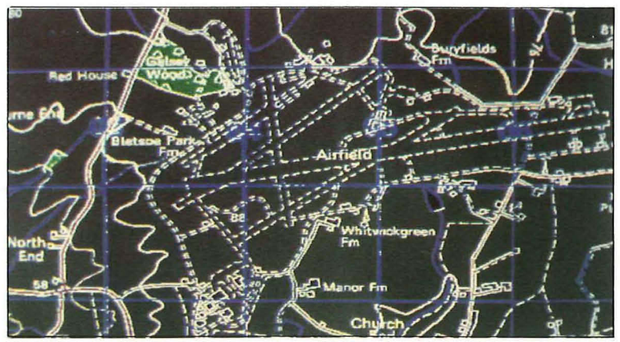
The Offshore Projects team of ISD (based at Nailsea) has developed MICROV — a fast, powerful and manoeuvrable inspection vehicle (Remotely Operated) which is equipped with Sonar and Viewing systems for use in the Offshore Oil Industry, and MIDAS a mine countermeasure ROV. ISD also manufacture subsea controls, incorporating new technologies such as 'touch screen' controls.



Another product of the Offshore Projects Group is Dragonfly, which has been developed jointly with OSEL, Gt. Yarmouth. Dragonfly has been designed and constructed to provide a truly modular facility for quickly and simply changing the payload of the vehicle. Dragonfly comprises of a base vehicle which incorporates the hydraulically powered thruster system, electrical power and signal wiring with easily accessed function boxes provides for rapid interchanging of payload equipment.

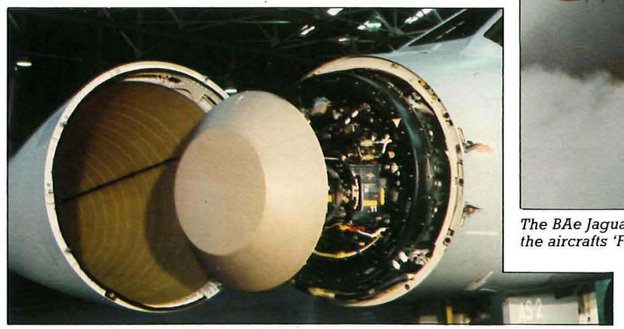
ALSO FROM GEC AVIONICS:

We are the world's foremost producer of Head-Up Displays. This wide angled HUD is one of over 1,500 HUD's already delivered for the General Dynamics family of aircraft.



Digitally formed images of colour maps which can be presented in various forms on a variety of electronic display surfaces.

The BAe Jaguar depends on the GEC Avionics digital flight control at the heart of the aircrafts 'Fly-By-Wire' system for safe, stable handling.



The Foxhunter airborne interception radar (AI-24) is fitted in the Royal Air Force Tornado F2 aircraft.

"Cat's Eyes" NV goggles permit night vision outside the cockpit and a capability to read normally lit instruments.

GEC Avionics is the prime contractor for the British Army Phoenix Remotely Piloted Vehicle and surveillance system.

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SERVING THE WORLD WITH TECHNOLOGY

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Designed and Printed by Buckland Press Ltd., London and Dover, England.