

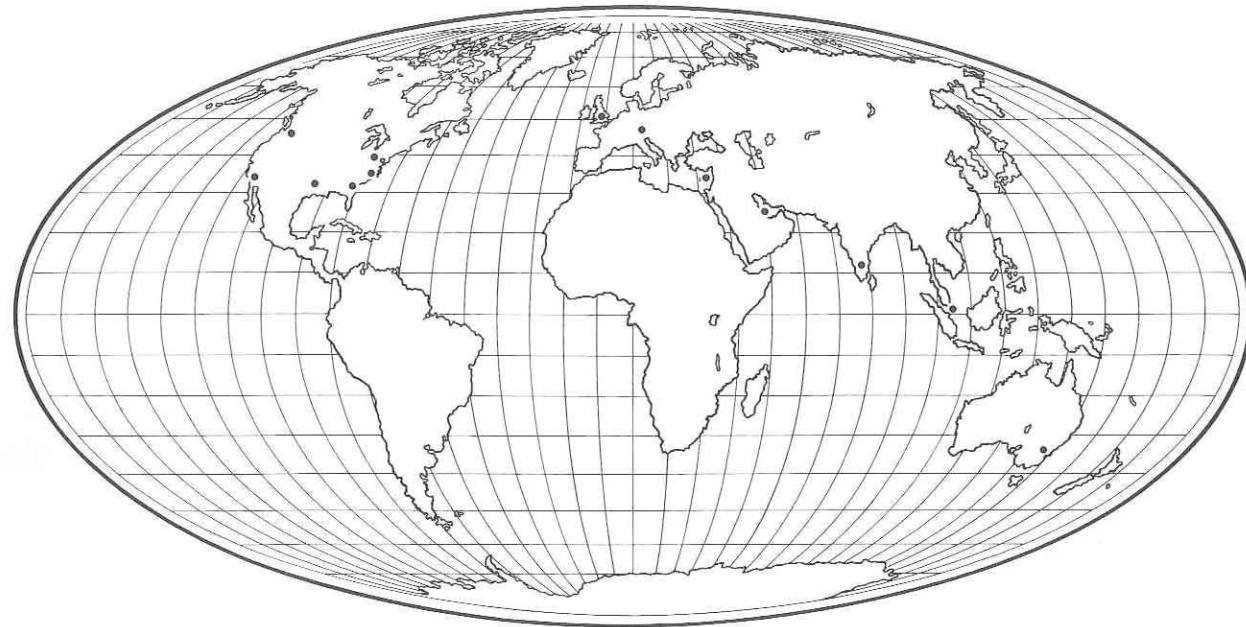
GEC AVIONICS



SALES DIRECTORY

& PRODUCT GUIDE

Sales Directory and Product Guide



GEC AVIONICS LIMITED

GEC Avionics, a member of the GEC-Marconi group, has an extensive product range and, as an established supplier in the majority of the world's most competitive aerospace markets, enjoys a worldwide reputation for innovation, technical excellence and reliability.

Our multi-divisional organisation enables us to offer expert service to customers in the development and operation of their avionics systems.

All the products and services we supply are backed by our full facilities for research, design, development, manufacture, quality assurance and after-sales support.

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Directory of divisions and departments in the UK

01 AIRBORNE DISPLAY DIVISION

Develops and produces all types of display systems for military aircraft and is the world's leading supplier of Head Up Display (HUD) systems.

Activities

Dual mode HUDs designed and manufactured for new aircraft and retrofit programmes. Single and twin LRU configured and providing full mission computing and aircraft interface capabilities as well as display processing. High resolution monochrome head down and specialist colour displays.

'Cats Eyes' fixed wing night vision goggles (NVG) are in full production and are complemented by dual purpose helicopter and ground troops goggles. Helmet mounted displays ranging from built in NVGs through to simple sights or to full, dual mode 'HUDs on the Head'.

Also obstacle avoidance systems using scanning carbon dioxide lasers.

02 APPLIED PHYSICS DIVISION

Supplies a range of military and civilian products which includes high reliability neutron generators, ionisation chambers, electron beam sources, gas lasers and laser systems.

Activities

Neutron generators; test and control systems; specialised vacuum tubes for radiation monitoring; continuous wave (CW) waveguide, CO₂ laser transmitters; pulsed, transversely excited atmospheric pressure (TEA) CO₂ lasers; rangefinders; laser doppler anemometers; laser radar for obstacle and cable warning; a range of optical and digital signal processing subsystems.

03 AVIATION SERVICE AND REPAIR DIVISION

Offers total integrated support for GEC Avionics' civil and military products.

Activities

Services embrace equipment repair, overhaul and modification; warranty administration; integrated logistics support engineering including logistic support analysis and provisioning using specifications 2000M procedures and spares recommendations. The division also supply on-call and on-site field service equipment familiarisation and maintenance training; test equipment design, supply and calibration; depot level repair facilities; technical and general publications. Special-to-customer support options include cost-per-flying-hour, fixed-cost/fixed-turnaround and direct exchange schemes.

04 CENTRAL QUALITY DEPARTMENT

Product assessment, development and NAMAS accredited testing services covering a wide range of national and international standards.

Activities

Comprehensive environmental and mechanical test facilities. Electromagnetic compatibility testing including mobile facilities and advisory services on suppression techniques for use on automotive vehicles and customer sites. Calibration of electrical and mechanical items and environmental facilities. Compilation and publication of component specifications, process specifications and quality assurance procedures.

05 COMBAT AIRCRAFT CONTROLS DIVISION

World leader in Flight Controls, with over 40 years experience20 of them in digital flight control.

Activities

A wide range of automatic flight control systems (AFCS) and subsystems for combat aircraft and guidance and control systems for missiles. Products include integrated AFCS, autopilots, command and stability augmentation systems, fly-by-wire systems, fly-by-light systems, autothrottle controls, pilot's control sticks for both military and civil applications, covert terrain following systems for aircraft and missiles, and systems for spin and incidence limiting. Also included are AFCS and flight control computer updates and aircraft modernisation programme packages.

06 FLIGHT CONTROLS DIVISION

Markets a complete range of primary and secondary flight control systems for civil transport, military transport, helicopters, airships and unmanned aircraft.

Activities

Design, development and manufacture of: Primary flight control systems incorporating either fly-by-wire (FBW), fly-by-light (FBL) or fault tolerant technology; Integrated AFCS incorporating autopilot, autothrottle, stabiliser, autoflare and/or automatic landing; Secondary flight control systems using FBW technology for slat/flap or spoiler control; Electrohydraulic control systems using fail safe techniques for missile radar trackers; Electric and hydraulic actuators; Drone and target control systems; Complete systems for unmanned air vehicles including ground handling and logistic support.

07 GUIDANCE SYSTEMS DIVISION

A leading supplier of attitude sensing, stabilisation and navigation equipment for land, sea and air applications.

Activities

Development and production of sub-miniature precision rate and rate integrating gyroscopes with associated electronics for aircraft, missile, ship, undersea and land vehicle navigation; attitude and heading reference and inertial systems including gimbaled, strapdown and ring laser configurations.

A supplier to the UK MOD of Digital Colour Map Generators and Terrain Referenced Navigation equipments which can be implemented as stand alone systems or integrated as part of a Total Terrain Avionics System. Total systems integration capability with proven expertise in the UK and USA.

08 INSTRUMENT SYSTEMS DIVISION

Air Data and Stores Management Systems for Helicopters and Fixed Wing Aircraft.

Activities

Advanced central air data sensors and computers for military aircraft. Omnidirectional Helicopter Air Data systems and performance computers. Stores Management systems for helicopters and fixed wing aircraft. New and retrofit designs. Microcircuits and custom hybrids.

09 MARITIME AIRCRAFT SYSTEMS DIVISION

Supplies a wide range of advanced sonobuoy and dipping sonar processing systems and tactical processors for Maritime Patrol Aircraft and Anti-Submarine Warfare helicopters.

Activities

The AQS 900 series acoustic processors are in service with the Royal Air Force and Royal Navy and the armed forces of many nations. The latest system is currently under development for the Royal Navy EH 101 Merlin helicopter. The AQS 930, export variant of the AQS 903, is on offer to several countries.

Tactical Processing Systems and avionics systems integration are also available. The Airborne Crew Trainer provides realistic highly flexible training for ASW aircrew in the airborne environment.

Directory of divisions and departments in the UK (including research and development)

10 MONITORING AND CONTROL DIVISION

Responsible for monitoring and control systems for airframes and engines and for the oil industry.
Also includes Offshore Projects Group.

Activities

Products include ground based engine test facilities, engine health monitors, advanced fuel management; in-flight fault analysis systems and advanced Liquid Crystal Displays for engine monitoring, data entry systems.
Conceptual and feasibility studies for the oil industry; engineering design work for field development plans, umbilical-based and umbilical-free wellhead control and monitoring systems including long range acoustic telemetry links; Remotely operated vehicle control and monitoring systems, fibre optic based with multi-channel video capability.

11 POWER CONVERSION SYSTEMS DIVISION

A leading supplier of custom designed high reliability, severe environment power supplies and power conversion equipment in operational service worldwide.

Activities

Applications include defence electronic systems on land, sea or airborne as well as commercial systems where stable and reliable performance in a harsh environment is necessary.

12 RECORDING SYSTEMS DIVISION

Design and manufacture of harsh environmental recording systems for defence and commercial applications.

Activities

Analogue, video and high density digital tape recording and replay systems; solid state mission data transfer systems and accident data recorders; advanced media recorders (optical disk systems, etc) for mobile database and mass storage. System capabilities include intelligent data acquisition and data compression; signal processing; data storage; replay, analysis and support equipment in airborne, seaborne and land-based environments.

13 SUPPORT EQUIPMENT SYSTEMS DIVISION

Automatic Test Equipment (ATE) for functional testing of digital and analogue equipment for factory, depot and field use, including mobile applications.

Activities

Systems in production include the ORION series of ATE which are used on production lines, in airline maintenance workshops and on aircraft carriers; Modular ATE (MATE) for the USAF/USN depot level testing of the Standard Central Air Data Computer (SCADC). The ORION 9000, in use throughout the world, tests and validates MIL-STD 1553 data highways and now provides STANAG 3910 test capability. Test program sets are developed for our own and other manufacturers' ATE.
Also the Pathfinder 2000 Mission Planning System.

14 TECHNOLOGY AND SYSTEMS RESEARCH LABORATORY

Investigates emerging technology and systems concepts applicable to all aspects of the Company's business.

Activities

Research and applied engineering to assist GEC Avionics product divisions.
Research and development for Government and Industrial customers and collaborative programmes with operating units of GEC, other companies and academia are also conducted.

15 GEC AVIONICS RESEARCH LABORATORY

The GEC Research Centre at Great Baddow provides a central applied research and development resource for all the GEC-Marconi companies.

Activities

One of the major laboratories at Great Baddow is the Avionics Research Laboratory which undertakes and co-ordinates work of specific interest to the product divisions throughout GEC Avionics.

Associated operations in the USA

16 GEC AVIONICS INC.

Established in 1962, GEC Avionics Inc. employs 300 people at its main plant in Atlanta, with branch offices in Fort Worth, Los Angeles, Seattle and Dayton.

Activities

GEC Avionics Inc. is engaged in the design, manufacture and integrated logistic support of the avionic and industrial electronic equipment which the Company supplies to the United States. It also produces laser rangefinders, airborne displays and computers and a variety of other displays including head up displays for cars.

17 LEAR ASTRONICS CORP.

Lear Astronics Corp. designs and manufactures a wide range of military and civil avionics products.

Activities

Products include flight control computers, control sticks and digital throttle and tactical radars, including Muzzle Velocity radar and Tactical Defense Alert radar. They also integrate avionics systems on a variety of aircraft programmes.

18 DEVELOPMENTAL SCIENCES CORP.

Developmental Sciences Corp. offers a range of remotely piloted vehicles and unmanned aircraft avionics, extending to manned aircraft systems integration.

Activities

Multiple reconnaissance and electronic warfare mission payloads have been demonstrated in the Skyeye RPV. Aviation ground power units provide electrical, hydraulic, and pneumatic services in an air transportable vehicle. The company also develops and supplies advanced composite structures.

Contact listing for divisions/departments and associated operations

DIVISION	CODE	PERSONAL CONTACT	TEL No	TELEX No	FACSIMILE No	LOCATION
GEC AVIONICS LIMITED (head office)			(0634) 844400	96333 (GECROC)	(0634) 832664/826279	Airport Works, Rochester, Kent ME1 2XX
Airborne Display Division	01	D J Sowler	(0634) 816734*	96304 (GECUD)	(0634) 816036	Airport Works, Rochester, Kent, ME1 2XX
Applied Physics Division	02	C M Lennon	(081) 906 6474	22777 (GECBWD)	(081) 207 0331	Elstree Way, Borehamwood, Hertfordshire, WD6 1RX
Aviation Service and Repair Division	03	R W Warden	(0634) 816337*	96211 (GEC SUP)	(0634) 816301	Airport Works, Rochester, Kent, ME1 2XX
Central Quality Department	04	K W Boardman	(0634) 816542*	96333 (GECROC)	(0634) 816636	Airport Works, Rochester, Kent, ME1 2XX
Combat Aircraft Controls Division	05	A J Fisher	(0634) 816722*	94017803 (CACDG)	(0634) 816525	Airport Works, Rochester, Kent, ME1 2XX
Flight Controls Division	06	P T Jones	(0634) 816088*	965450 (GECFCD)	(0634) 816375	Airport Works, Rochester, Kent, ME1 2XX
Guidance Systems Division	07	P I Rowell	(0634) 816020*	96333 (GECROC)	(0634) 816748	Airport Works, Rochester, Kent, ME1 2XX
Instrument Systems Division	08	D P Eldridge	(0634) 816112*	96333 (GECROC)	(0634) 816508	Airport Works, Rochester, Kent, ME1 2XX
Maritime Aircraft Systems Division	09	P Duckworth	(0634) 816124*	96333 (GECROC)	(0634) 816579	Airport Works, Rochester, Kent, ME1 2XX
Monitoring and Control Division	10	J A Hill	(0634) 816675*	96333 (GECROC)	(0634) 816409	Airport Works, Rochester, Kent, ME1 2XX
Offshore Projects Group	10	R Phillips	(0272) 810100 Ext 2210	444791 (GECNLS)	(0272) 851467	2 High Street, Nailsea, Bristol, BS19 1BS
Power Conversion Systems Division	11	P J Cooper	(0272) 810100 Ext 2202	444791 (GECNLS)	(0272) 851467	2 High Street, Nailsea, Bristol, BS19 1BS
Recording Systems Division	12	I J Carter	(0272) 810100 Ext 2272/2218	444791 (GECNLS)	(0272) 851467	2 High Street, Nailsea, Bristol, BS19 1BS
Support Equipment Systems Division	13	G U Rands	(0634) 816677*	96333 (GECROC)	(0634) 816263	Airport Works, Rochester, Kent, ME1 2XX

*Rochester Direct Dial numbers, sometimes with 24-hour answering machine. During business hours, (0634) 844400 also available.

RESEARCH AND DEVELOPMENT

Technology and Systems Research Laboratory	14	T G Hamill	(0634) 844400	96333 (GECROC)	(0634) 827332	Airport Works, Rochester, Kent, ME1 2XX
GEC Avionics Research Laboratory	15	W J McClintock	(0245) 73331 Ext 3001	995016 (GECRES)	(0245) 75244	West Hanningfield, Great Baddow, Chelmsford, CM2 8HN

ASSOCIATED OPERATIONS

GEC Avionics Inc.	16	R Didocha	(404) 448 1947	708447 (GEC AV ATL)	(404) 246 0378	2975 Northwoods Parkway, P O Box 81999, Atlanta, Ga 30366 USA
GEC Avionics Inc.	16	J Morris	(513) 224 1110	28 8350 (GEC DTN)	(513) 224 8241	Suite 1375 Kettering Tower, Dayton, Ohio 45423 USA
GEC Avionics Inc.	16	M Pearce	(817) 763 0281		(817) 732 3681	Suite 128, 6410 Southwest Blvd, Ft. Worth, Tx 76109 USA
GEC Avionics Inc.	16	F White	(213) 305 8503	66 4947 (PAC IF IC EX)	(213) 305 8503	4551 Glencoe Avenue, Suite 160, Marina Del Rey, Ca 90292 USA
GEC Avionics Inc.	16	P Clarke	(206) 883 2525	152147 (GEC AV RDMD)	(206) 881 3370	Suite 350 Lakeridge 1, 14827 N E 40th Street, Redmond, Wa 98052 USA
GEC Avionics Inc. (GEC-Marconi Inc.)	16	N Paldino	(703) 553 5582		(703) 553 0274	1215 Jefferson Davis Highway, Suite 900, Arlington, Va 22202 USA
Lear Astronics Corp.	17	J Joyner	(213) 452 6000		(213) 398 5630	3400 Airport Ave, P O Box 442, Santa Monica, Ca 90406-0442 USA
Developmental Sciences Corp.	18		(714) 947 7600	910 584 4699 (DS 1 COID)	(714) 947 1823	1930 South Vineyard Ave, P O Box 50000, Ontario, Ca 91761 USA

REGIONAL MARKETING MANAGERS

Cyprus		B Ashley	(051) 321796	5025 (CHRIMAR CY)		Studio 1, Kyma Court 2, George 1 St, Limassol TT262
Singapore		M Bennett	4688205	RS36730 (GEC SRS)	4686431	PO Box 4046, Magnet House, 985 Bukit Timah Road, Singapore 2158
Australia		L Bennett (GEC-Marconi Defence, Sydney)	(062) 851648		(062) 851743	6-8 Campion Street, Deakin, Sydney, ACT 2600
Germany		J Ungoed	(89) 984910	529698 (GECAM)	(89) 9810214	Pienzenauerstrasse 67, 8000 Munchen 81
Bahrain		I Hunter	532252		531275	PO Box 143, Manama, Bahrain
India		K Bhargava	(812) 261188	8458373 (DCBY IN)	(812) 563982	G-4 Cunningham Apartments, 5 Edward Road, Bangalore 560 052, India

Guide to product services (Acc-Hel)

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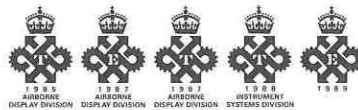
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