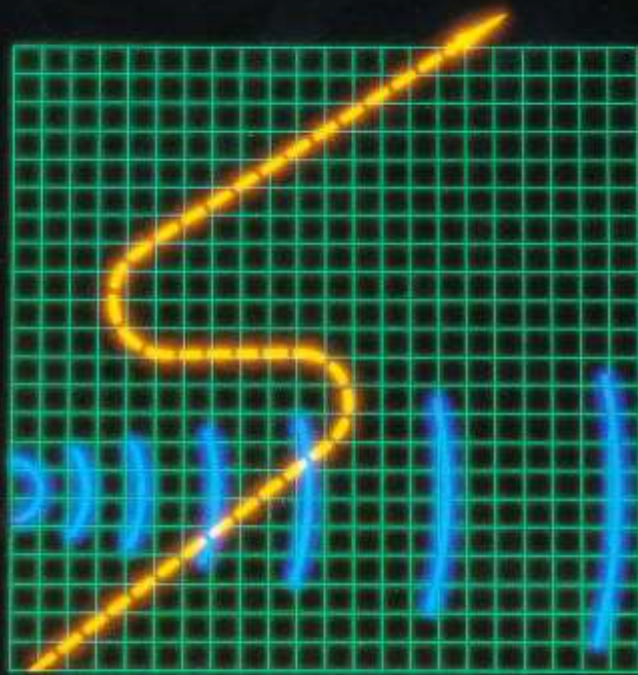


MARCONI TODAY



Courtesy Marconi Instruments Heritage

FROM SEABED TO SPACE AND ACROSS THE SPECTRUM OF TECHNOLOGY



Viewed from the outside, Marconi consists of a number of product and systems companies, each a specialist in a particular area of electronic engineering.

Every one of these companies has its own personality. Its own blend of expertise and experience. Each is a leader in its field, respected for its design innovation, its engineering skill and its manufacturing excellence.



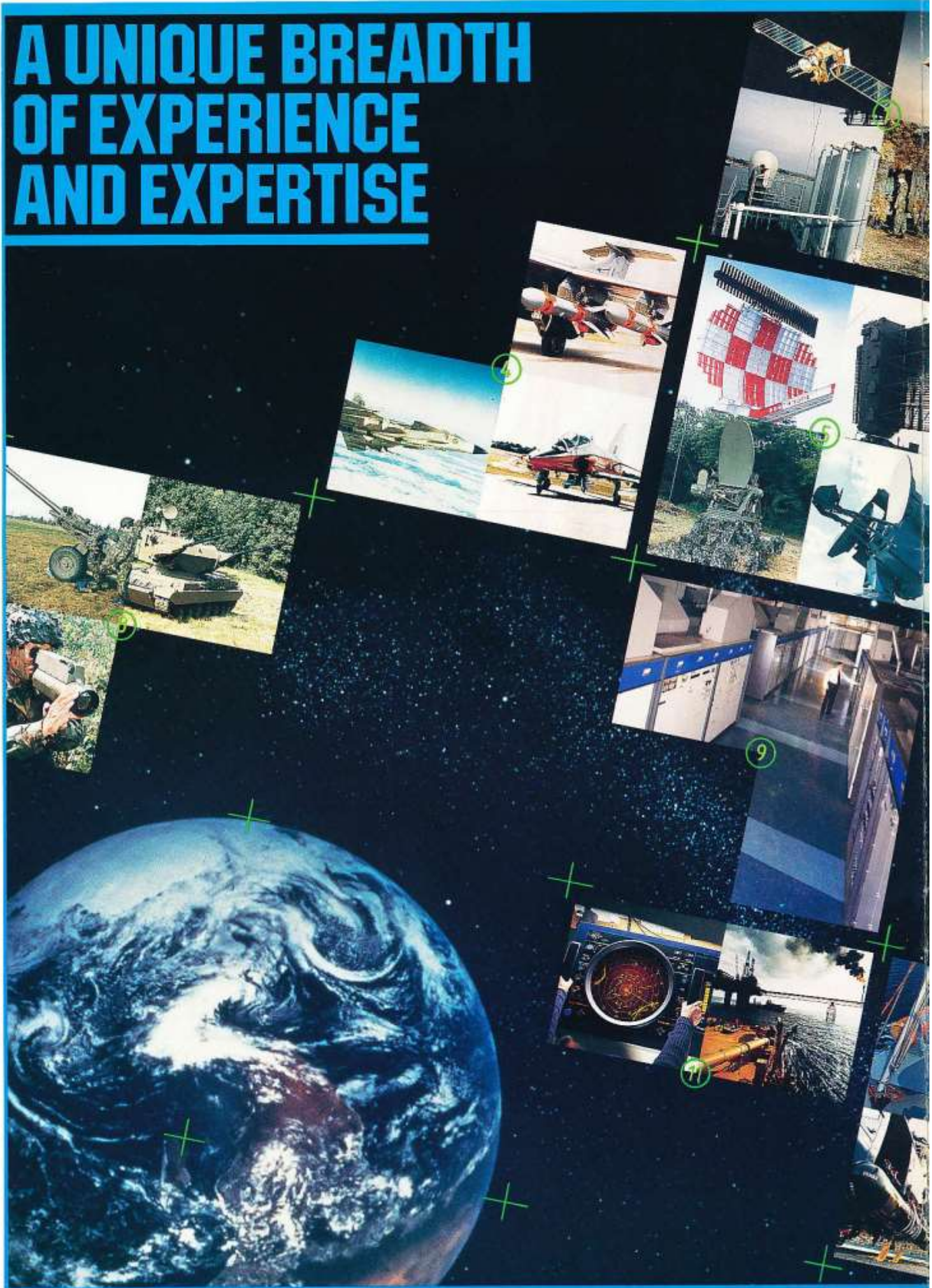
Yet Marconi is more than just a catalogue of products, manufacturing plants and research centres.



This brochure aims to give you a better understanding of what makes Marconi the company that it is. An unusual mixture of independence and cooperation, of balance between academic flair and business sense, of total commitment to technological leadership.

Marconi is much, much more than the sum of its separate parts.

A UNIQUE BREADTH OF EXPERIENCE AND EXPERTISE





Marconi is all around us. On the edge of space, inside a communications satellite silently orbiting earth, relaying messages around the world. In the cockpit of an aircraft feeding the pilot with a flow of vital data on enemy defences or guiding the missiles to shoot down an attacker.

In an airport radar system, pinpointing the location of every plane in the surrounding sky. In the tank with the soldier, keeping him in touch, assisting him to strike hard and fast. In a Police Ops Room speeding an emergency crew to the scene of a disaster.

On board a ship, scouring the sky and sea for menace, weapons at the ready, their guidance tried and proven in battle. Under the sea, maintaining contact between divers in their harsh environment. In the ocean depths, guiding a torpedo in relentless pursuit of its target.

From this breadth of experience, Marconi has acquired a core of technology that covers the entire field of electronics, from computer aided design and manufacture of highly advanced microchips to the development and installation of huge radar rigs and earth stations.

No other company in the world has such a diverse and comprehensive involvement in electronics.

- 1 Space
- 2 Test/Simulation
- 3 Component Technology
- 4 Weapon Guidance
- 5 Radars
- 6 Electronic Warfare
- 7 Data Transmission
- 8 Fire Control
- 9 Broadcasting
- 10 Communications
- 11 Merchant Marine/Off-Shore
- 12 Underwater Systems

SYSTEMS- THE KEY TO SUPERIORITY



Stingray

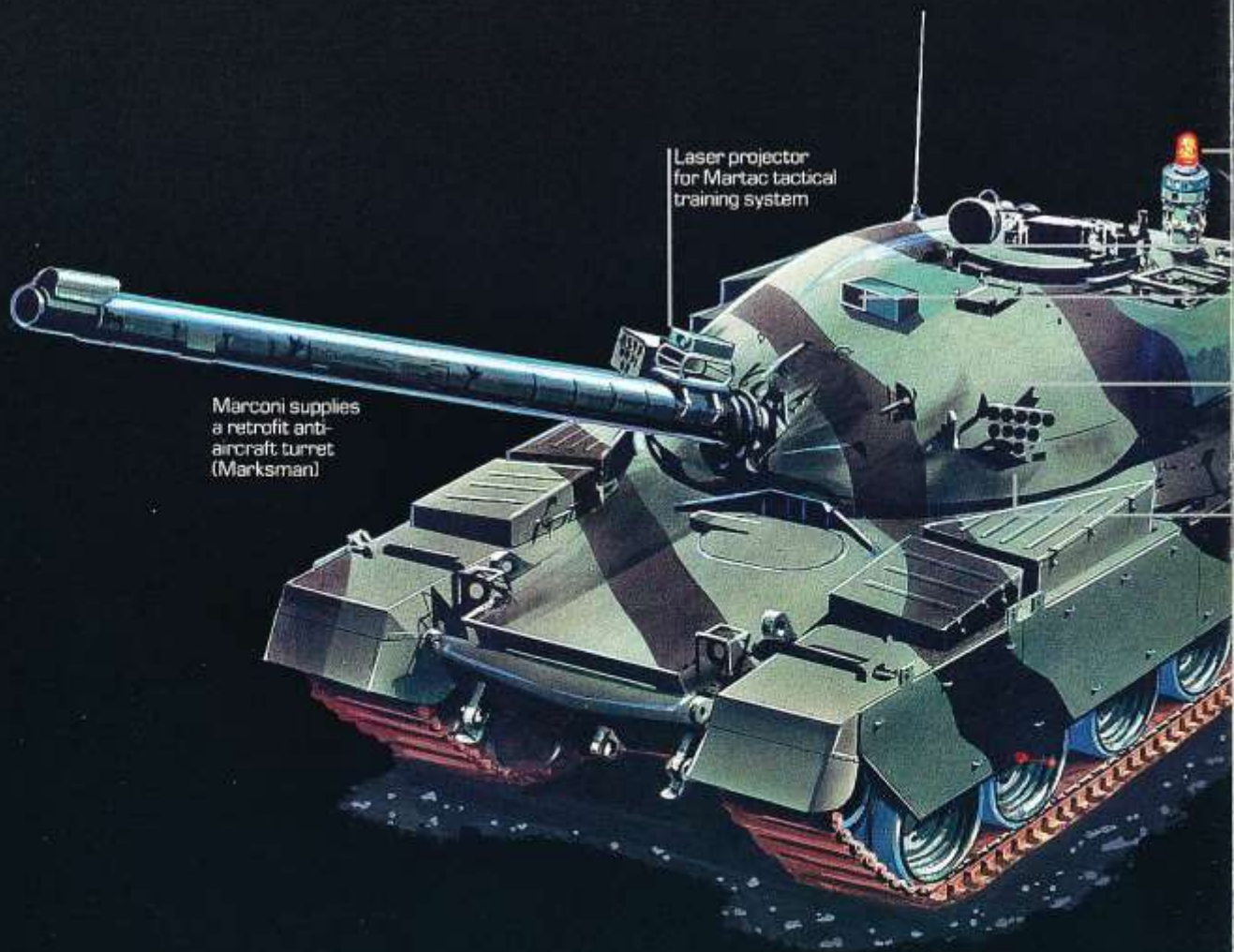
GWS25/Seawolf
Launcher

GWS25/Seawolf
Type 910 Tracker

Degaussing
Cathodic Protection

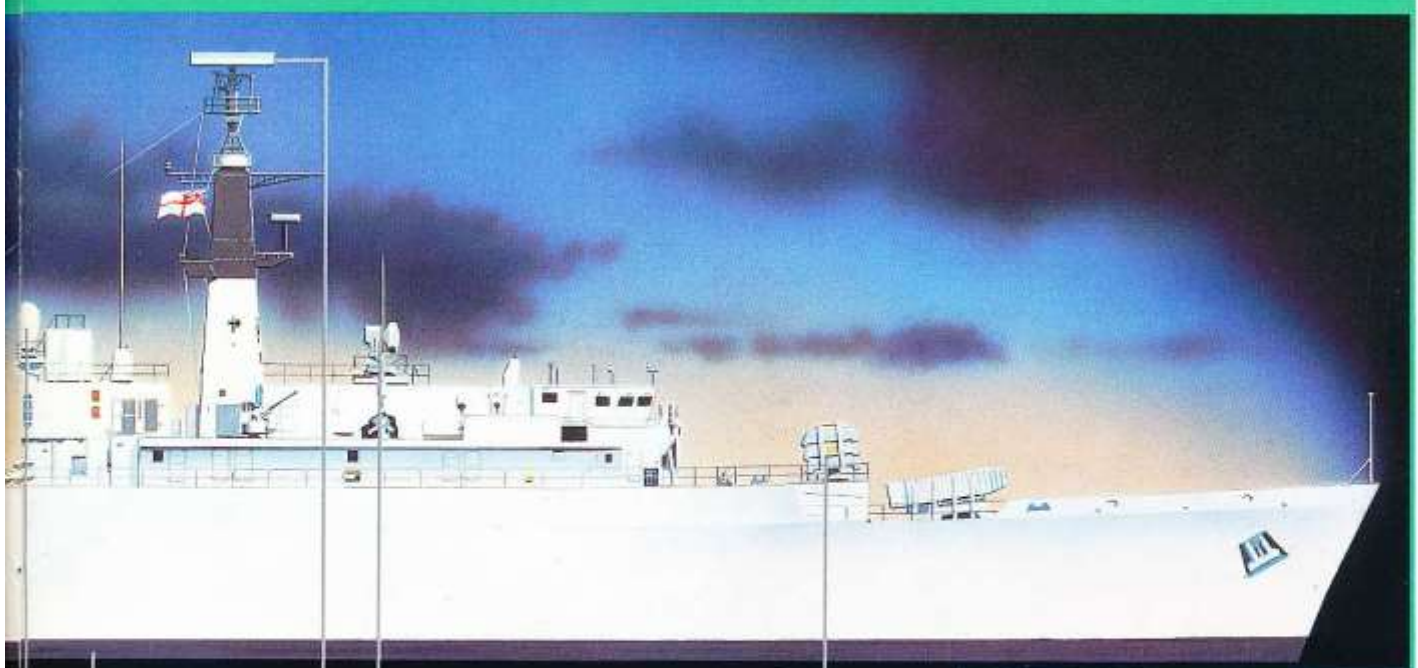
ICS3
internal/external
communications

Stingray



Marconi supplies
a retrofit anti-
aircraft turret
(Marksman)

Laser projector
for Martac tactical
training system



Underwater
telephone/telegraphy

GWS25/Seawolf
Type 910 Tracker

Scot Satellite
Communications

Type 967M/968
Surveillance Radar

GWS25/Seawolf
Launcher



Martac
Central detector
mast

Communications

Thermal Imaging
Vehicle Sight
(TIVS)

Computer fire control
system for main
armament incorporating
'On-Tank' gunnery
trainer

Gun stabilisation
control and
turnet drives

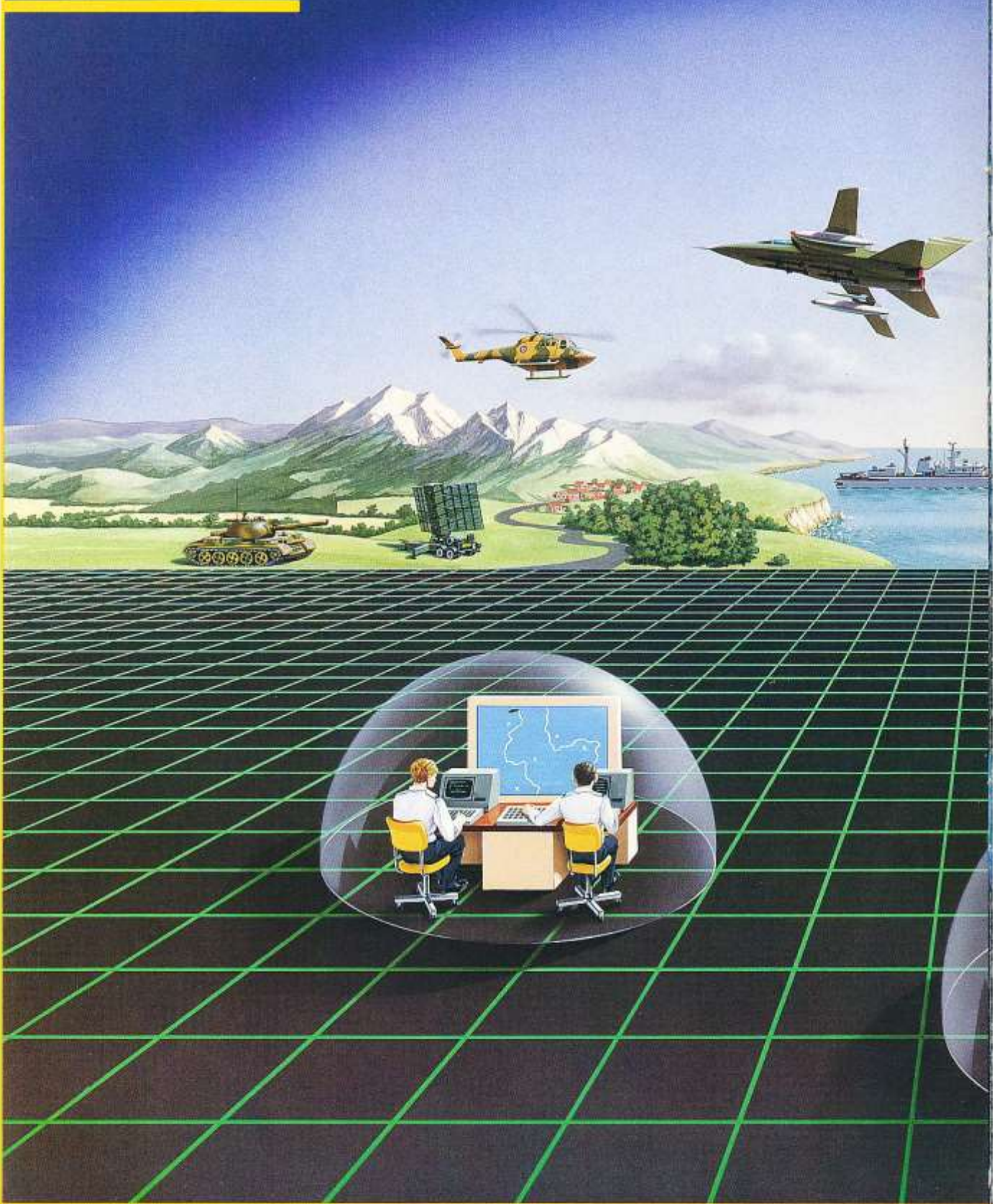
In recent years there has been a profound change in the way we need to view a complex unit, such as a tank or a ship or an aircraft. It is no longer sensible to 'cobble together' different pieces of hardware in the hope that they will work harmoniously as a system.

There is now a real need for a true systems approach which considers sensors, processors, data base software, communications and control mechanisms as one entity, integrated to achieve the maximum effectiveness. Illustrated are some of the Marconi equipments fitted to a modern tank and the latest frigate.

In the naval context Marconi is currently developing a total ship combat system capability, capitalising upon its across company experience and expertise. For land forces an example of this approach is BATES - the new artillery control system being developed by Marconi - which covers the whole battlefield from Corps to gun and is compatible at all levels. In the air the latest ESM equipments from Marconi are designed as total systems which can receive, analyse, and assess threat signals, determine the counter to them, and initiate that counter to them, and initiate that counter whether it be a jammer, or a weapon, or merely evasive manoeuvre.

Many of the Marconi companies incorporate the word 'Systems' in their name; this is because they think in terms of total systems. It harnesses the capability to analyse requirements and to develop system concepts to meet them, to develop and produce the hardware and software using the latest computer aided design and production techniques, and to integrate and test before final delivery and commissioning. The process does not stop there - the Marconi view of systems includes support to the customer in every possible way throughout the in-service lifetime of equipment.

THE TOTAL DEFENCE SOLUTION





The defence scenario has been revolutionised by electronics. Enemy forces, often using advanced technology themselves, have to be identified, tracked and targeted with unprecedented accuracy and speed. Large areas may need to be kept under constant remote surveillance. A range of different weapons needs to be fired and controlled. Damage has to be assessed instantly. A succession of new attack plans may have to be devised, evaluated and executed without delay. An array of resources, from manpower to support services, has to be continuously monitored and directed.

Nowadays the battle moves fast, and the amount of information which can be collected is simply too much for the human mind alone. To be effective, intelligence from all sources has to be collated and processed to provide solutions for command decision and only modern data processing systems can cope.

As a result, the balance of power on the battlefield has shifted. Greater fire power is no longer a guarantee of success. What matters is to get the most effective fire power in the right place at the right time, this makes C³I, properly used, a force multiplier. That is, a small number of weapons, effectively deployed and used is worth more than many times the number blundering about at random.

Marconi itself is a force multiplier —collecting together all of the breadth of capability which exists in its subsidiaries and sister companies to provide effective deployment to meet the needs of the customer.

SOLVING PROBLEMS IN THE CIVIL MARKET

An accountant transfers funds to a bank several thousand miles away by pressing a few keys on a desk-top terminal. A top executive on any one of nearly 20 million customer lines can be connected to over 135 countries, more than any other country in the world, on the direct dial network. The crew of a fire engine on an emergency call receive a facsimile plan of the burning building via the vehicle's radio system. A computer dials up another computer many miles away and automatically transfers data along a network of fibre optic cables.

Such scenes are becoming commonplace as information technology continues its inexorable spread through almost every aspect of daily life. In each case, digital data is being transmitted from one location to another - a field of expertise that forms part of our core of technology, whether the medium involved is radio, microwave, optics or the telephone.

Marconi has pioneered advances in air safety and airfield services. The company is a major supplier of complete primary and secondary radar systems, together with their associated command and control and ATC display systems.

Private data networks such as British Telecommunications' KiloStream provide high speed cost effective connections for the business community.

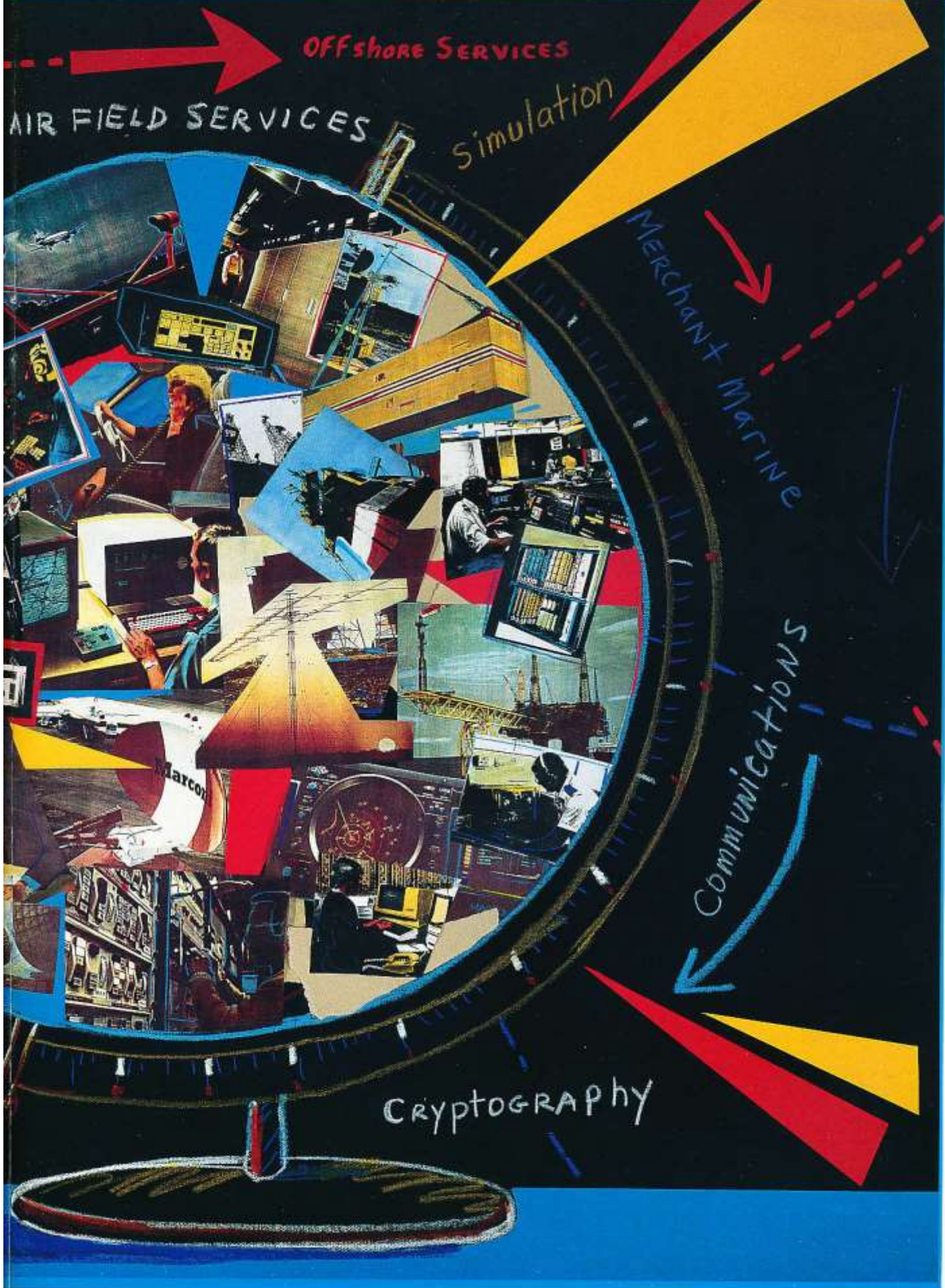
New encryption techniques protect sensitive data transfer and message switching systems provide instantaneous communications between embassies across the world.

Marconi is providing a new generation of inner city earth stations for community services and is introducing computer based command control systems for the emergency and public services.

Marconi leads the world in TV and sound broadcasting and is providing the payload for the UK's first direct broadcast TV satellite, having earlier contributed the payload for Europe's first maritime communications satellite.

And offshore, we're providing communications with oilrigs and fishing vessels, together with a complete range of sonars and radars to protect the merchant fleet.





OFFSHORE SERVICES

AIR FIELD SERVICES

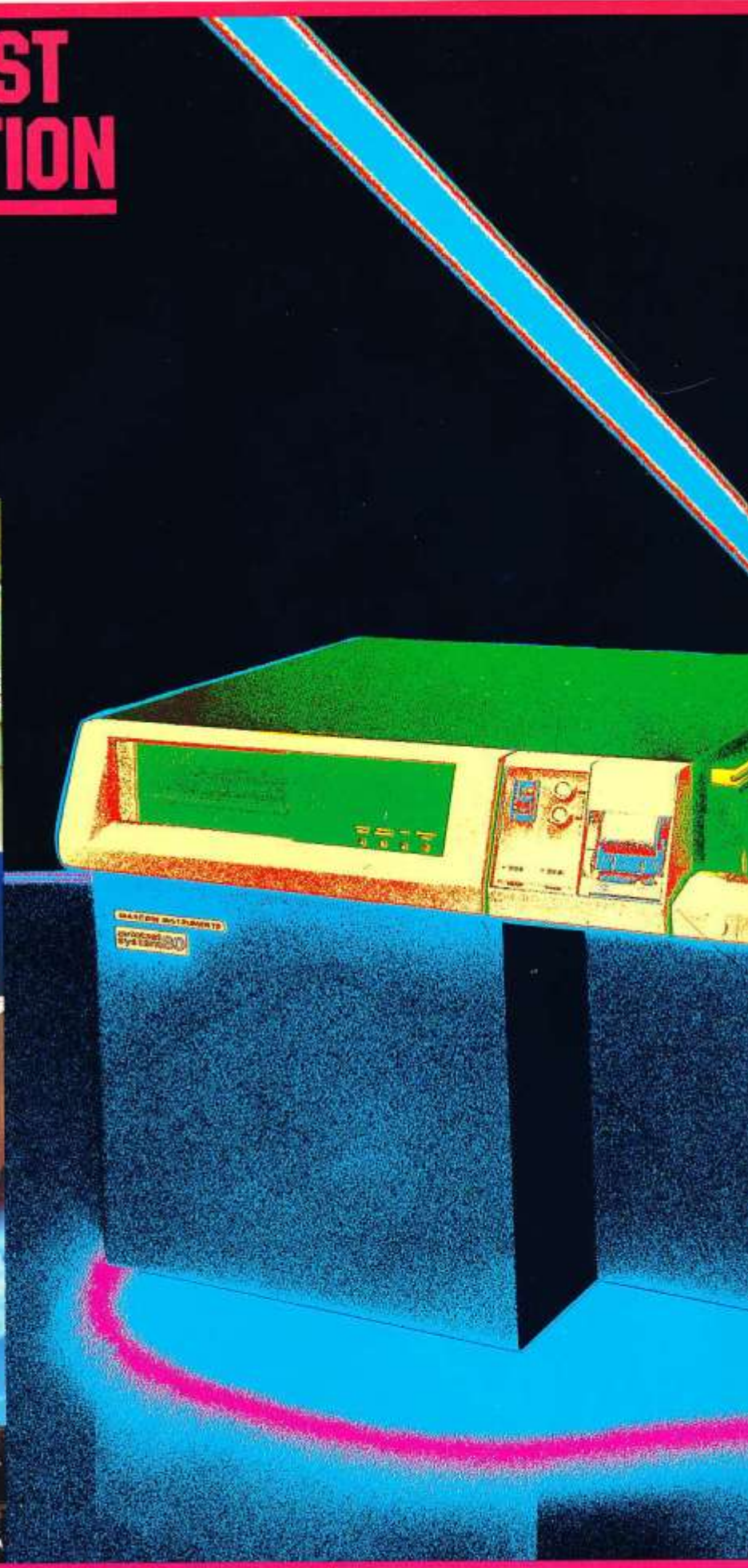
Simulation

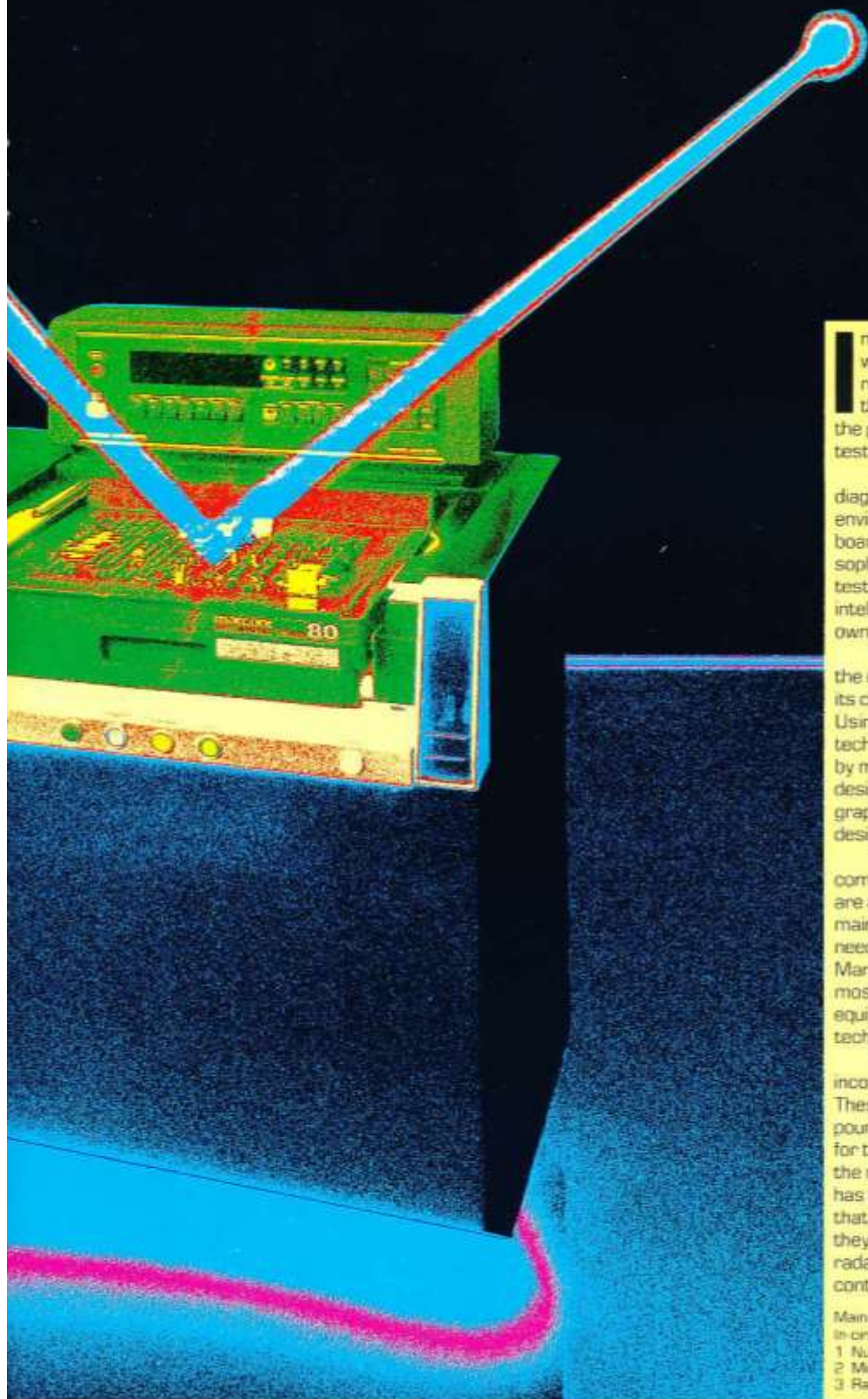
MERCHANT MARINE

COMMUNICATIONS

CRYPTOGRAPHY

DESIGN, TEST & SIMULATION





In all of the military and civil markets that we serve, equipments must have high reliability characteristics. To ensure this reliability, Marconi has pioneered the progressive development of automatic test equipment for well over a decade.

In-circuit testing is a powerful diagnostic technique for any production environment involving printed circuit boards and components. More sophisticated developments of automatic testing have provided a system with the intelligence to both diagnose and rectify its own faults for accurate, fail-safe operation.

Marconi has gone further in reducing the cost of producing printed circuitry with its computer aided engineering equipment. Using the latest micro-processor technology, complex boards are designed by mechanical draughting systems. The designer's drawing board has become a graphics display, his pen a cursor and the design itself is produced by a photo plotter.

The telephone system, radio communications, television and computers are all vital links in our daily lives. To maintain a high reliability standard they need constant test and measurement. Marconi develops and manufactures the most sophisticated electronic test equipment to serve communications technology throughout the world.

Advanced electronics are also incorporated into trainers and simulators. These avoid the cost of taking millions of pounds worth of hardware out of service for training purposes. And they eliminate the risk of damage to life or limb. Marconi has led the way in designing simulators that are realistic to the last detail, whether they are recreating live conditions of a radar station, a train driver's cab or the control room of a nuclear power station.

Main picture: System 80 High Performance In-circuit ATE

1 Nuclear Power Station Simulator

2 MicroQuad PCB Design Station

3 Range of sophisticated electronic test instrumentation

ENABLING TECHNOLOGY

In a few short years the microchip has changed the face of electronics beyond recognition.

A computer that once would have filled a room now fits on a small silicon chip.

Data processing power can be delivered almost without restriction. The improvement in performance, size, power consumption and overall capability is having a dramatic effect on civil and military systems.

Marconi was among the first to recognise the revolutionary and lasting effect that advanced integrated circuit technology would have on system design. It is investing rapidly and heavily in research, design and manufacturing facilities to enable its system designers to realise the full potential of the advancing digital and microwave technologies of silicon and gallium arsenide.

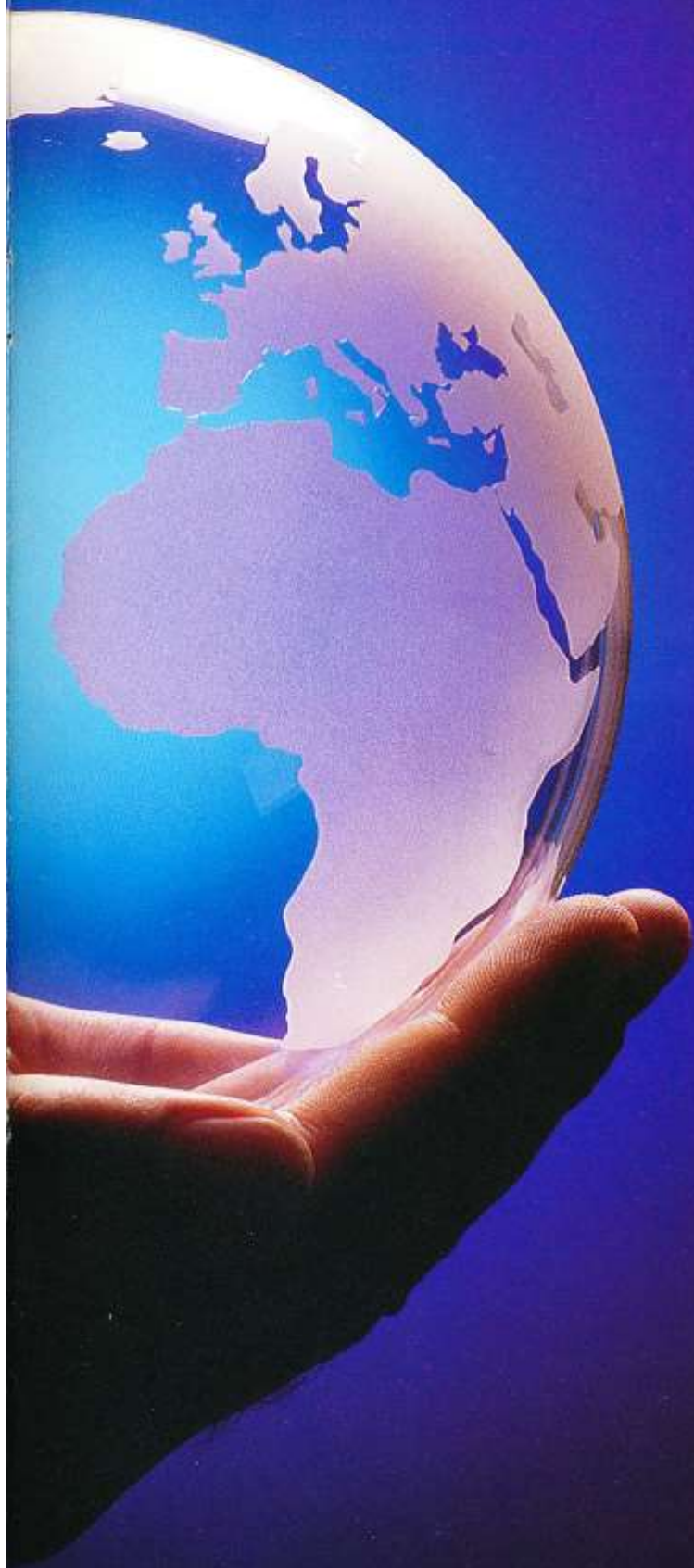
The development of an independent high technology chip capability with full computer aided design support facilities has been a big accomplishment of recent years. Marconi is established as one of the handful of systems companies in the world operating at the leading edge of semi-conductor technology, setting standards that others in industry have to follow.

Main picture: Beam lead, GaAs mm wave diode
1. Multilayer-green ceramic thick film packaged microelectronic circuit
2. Advanced custom CMOS VLSI Silicon wafer fabrication facilities at Lincoln



THE QUEST FOR KNOWLEDGE





By its nature, electronics research within Marconi is a matter of balance. The long shot has to be weighed against the routine, the blue sky project against the predictable. One line of exploration has to be abandoned as another is opened up. Areas of weakness have to be strengthened and areas of strength exploited.

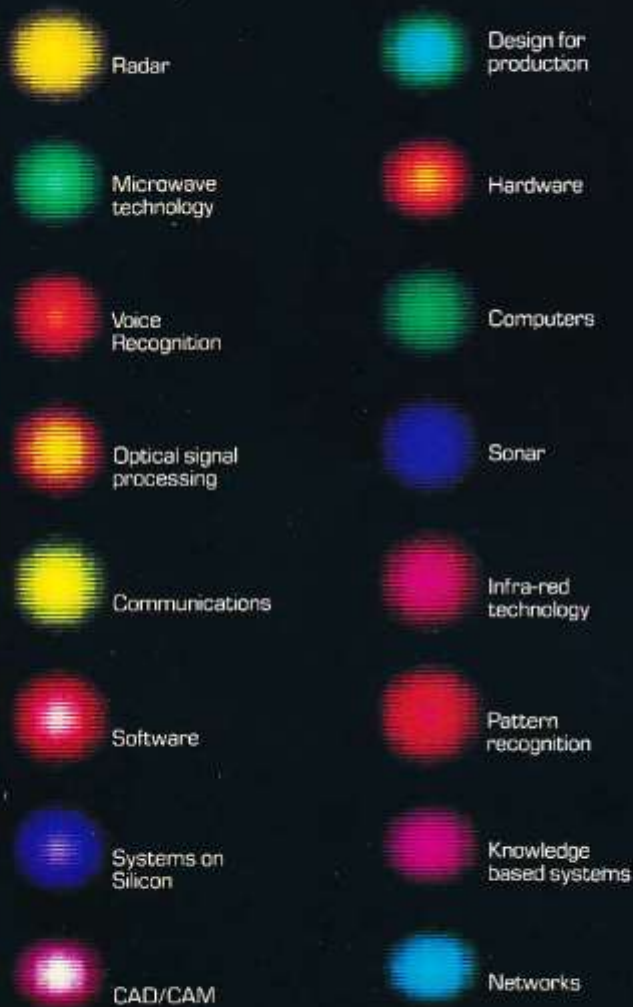
















But research is far more than just a question of appropriating funds. Superb equipment and large budgets are no guarantee of results. What counts equally is the effort and attitude of individual scientists and project leaders.

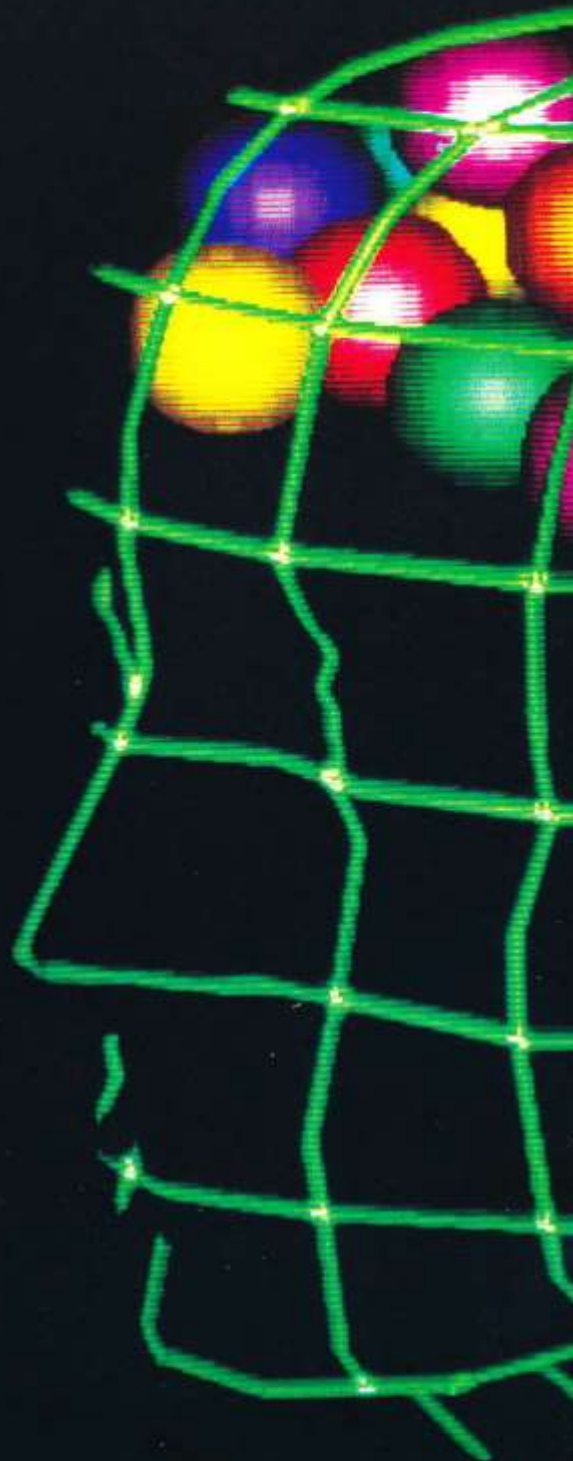
As a company, we have long recognised that you cannot innovate by committee or invent by decree. We have, therefore, deliberately fostered a research culture in which there is always room for the individual to champion his own speculative cause as well as for more disciplined development programmes.

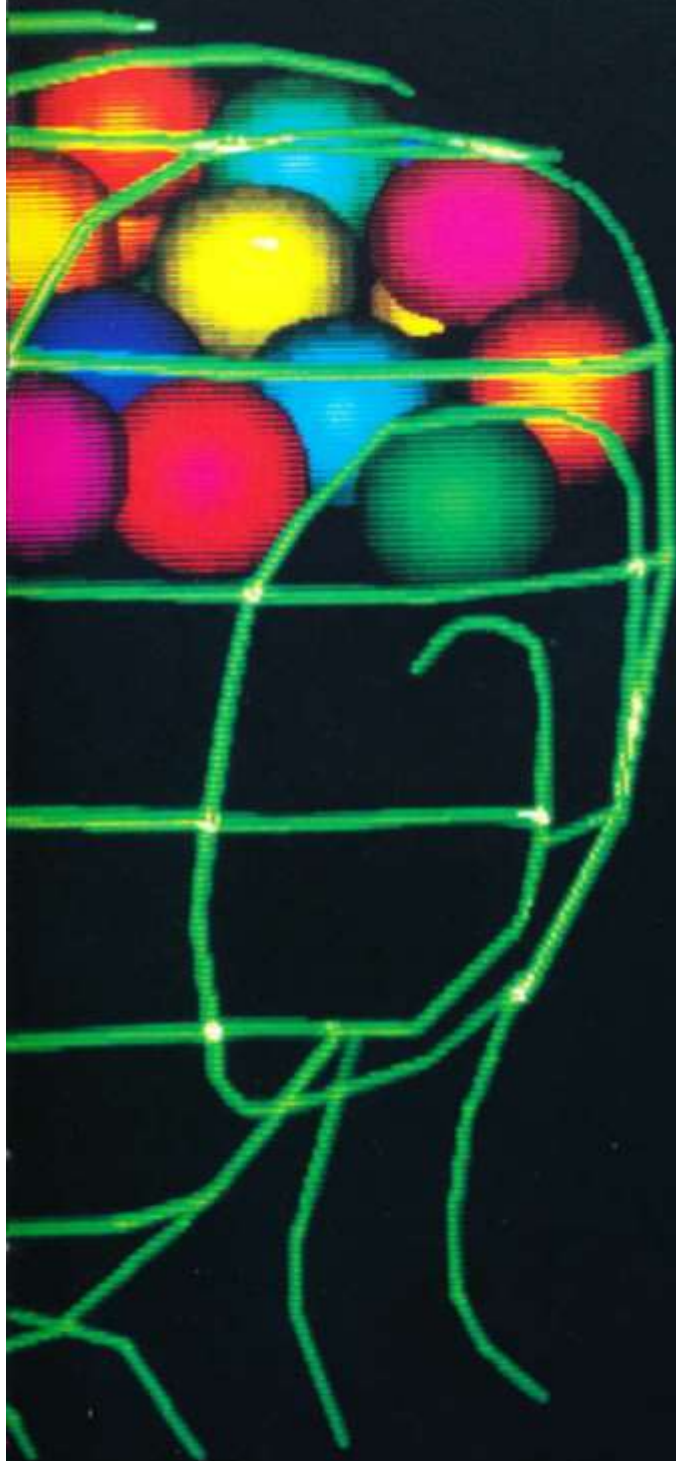
Our research activities extend far beyond the limits of our own laboratories. Over the years, the company has established joint research programmes with many of the country's leading universities and institutes.

In addition, Marconi is able to draw on the resources of its parent company, GEC. As the largest electrical and electronic group in Britain, GEC has a vast research programme that complements Marconi's own and provides us with a bedrock of knowledge across all relevant frontiers of science.

A COMMUNITY OF EXCELLENCE

- 
- | | |
|---|---|
|  Radar |  Design for production |
|  Microwave technology |  Hardware |
|  Voice Recognition |  Computers |
|  Optical signal processing |  Sonar |
|  Communications |  Infra-red technology |
|  Software |  Pattern recognition |
|  Systems on Silicon |  Knowledge based systems |
|  CAD/CAM |  Networks |





Despite the scattered locations of its various plants, offices, workshops and laboratories, Marconi in one important respect behaves like a single community - sharing its resources without question.

The company's most valuable resource is its expertise. To make sure that we are able to exploit our hard-won technology to the full, Marconi has established a network of centres of excellence throughout its organisation.

Each centre serves as a source of knowledge and capability in a particular specialist field, be it infra-red, robotics or real-time image processing.

With these centres at their disposal, our scientists, engineers and technicians have ready access to a pool of expertise without parallel in Europe.

Another communally-minded aspect of Marconi is education. The company is highly aware that education is a process that should continue throughout a career, especially so in a company whose business is led by technology.

Few other companies can match the effort taken by Marconi in providing educational opportunities to its staff - at all levels.

A priority in recent years has been to increase greatly the level of software expertise within our operation in keeping with the shift of the electronics industry away from hardware and towards software-based solutions.

On the individual level, the result has been the creation of a new generation of 'integrated' engineers - engineers who can marry the skills of software and hardware into the systems mentality demanded by the 80s.

ORGANISED FOR THE FUTURE



The Marconi Company Limited is part of the General Electric Company, p.l.c., which is wholly British and is amongst the largest electronics and electrical companies in the world.

Within the Marconi Company there is a unique breadth of capability within the systems and product companies making up the group. Each of these companies is a discrete business operation with responsibility for its own development, manufacturing, marketing, selling and financial performance.

The companies making up the Marconi group in the UK are shown on this page; full address details are shown on Page 20 together with principal areas of business and number of employees per company.

This diagram is intended to be purely illustrative and does not show the legal relationship of the various companies within the Marconi group.



THE MARCONI GROUP OF COMPANIES IN THE UK

The Marconi Company Limited

The Grove, Warren Lane
Stanmore, Middlesex HA7 4LY
Telephone: 01-954 2311
Telex: 22616

Company administrative headquarters.

Marconi Projects Limited

The Grove, Warren Lane
Stanmore, Middlesex HA7 4LY
Telephone: 01-954 2311
Telex: 22616

The management of major multicompany project.

Locations: Camberley, Stanmore.

Marconi Command and Control Systems Limited

Code A
Chobham Road, Frimley
Camberley, Surrey GU16 5PE
Telephone: Camberley (0276) 63311
Telex: 858289

Tactical command and control; fighting vehicle systems anti-aircraft systems; naval control systems; radar systems, mines and fuzes; training and simulation; instrumentation.

Locations: Frimley, Leicester.
Employees: 3,300.

Marconi Communication Systems Limited

Code B
Marconi House, New Street
Chelmsford, Essex CM1 1PL
Telephone: Chelmsford (0245) 353221
Telex: 99201

Communications; television and sound/broadcasting transmitter systems; ground satellite stations and defence communications systems.

Locations: Chelmsford, Birmingham.
Employees: 4,500.

Marconi Defence Systems Limited

Code C
The Grove, Warren Lane
Stanmore, Middlesex HA7 4LY
Telephone 01-954 2311
Telex: 22616

Development and manufacture of guidance systems for guided weapons. Electronic warfare systems and evaluation facilities.

Military satellite ground terminals. Software systems design and development.

Locations: Stanmore, Portsmouth, Watford, Apsley.
Employees: 4,370.

Marconi Electronic Devices Limited

Code D
Lincoln Industrial Park
Doddington Road, Lincoln
Lincolnshire LN6 3LF
Telephone: Lincoln (0522) 688121
Telex: 56380

ICs and hybrid micro electronics for military and civil applications; microwave and millimetrewave devices and components; specialised power semiconductor devices.

Locations: Lincoln, Wembley, Swindon, Billericay, Portsmouth, Great Baddow.
Employees: 1,600.

Marconi Instruments Limited

Code E
Longacres, St. Albans
Hertfordshire AL4 0JN
Telephone: St. Albans (0727) 59292
Telex: 23,350

Communications test instrumentation; automatic test equipment; special test projects and EW; Trainers and simulators; computer aided engineering equipment.

Locations: St. Albans, Donibristle, Ferndown.
Employees: 3,000.

The Marconi International Marine Company Limited

Code F
Elettra House, Westway
Chelmsford, Essex CM1 3BH
Telephone: Chelmsford (0245) 261701
Telex: 99228

Communications; nav aids; audio and intercom equipment. Manpower services for the mercantile marine and offshore industry worldwide.
Employees: 800.

Marconi Radar Systems Limited

Code G
Writtle Road, Chelmsford
Essex CM1 3BN
Telephone: Chelmsford (0245) 267111
Telex: 99108

Primary and secondary radar based systems for air defence and air traffic control; naval radar systems for surveillance, target indication, tracking and weapons systems control; maritime vessel tracking management systems.

Locations: Chelmsford, Gateshead, Norwich.
Employees: 3,500.

Marconi Secure Radio Systems Limited

Code H
Browns Lane, The Airport
Portsmouth, Hampshire PO3 5PH
Telephone: Portsmouth (0705) 664966
Telex: 8694422

Military and civil secure radio systems, cryptographic and data protection equipment; area communication switched systems; civil command and control and resource availability systems; speech processing equipment; radio peripherals, headsets, handsets switches and antennas; design implementation and support of communications systems; high quality electronic equipment production.

Locations: Portsmouth, Kidsgrove, Hillend.
Employees: 2,600.

Marconi Space Systems Limited

Code J
Browns Lane, The Airport
Portsmouth, Hampshire PO3 5PH
Telephone: Portsmouth (0705) 664966
Telex: 86666

Development and manufacture of spacecraft for civil and military applications.

Location: Portsmouth.
Employees: 960.

Marconi Underwater Systems Limited

Code K
Elettra Avenue, Waterlooville
Hampshire PO7 7XS
Telephone: Waterlooville (0705) 264466
Telex: 869233

Lightweight and heavyweight torpedoes; naval mines, maritime distress systems; ASW sonobuoy and telemetry systems; complete range of active and passive sonar systems; diver communications.

Locations: Waterlooville, Neston, Wembley, Farlington.
Employees: 3,600.

Easams Limited

Code L
Lyon Way, Frimley Road, Camberley
Surrey GU16 5EX
Telephone: Camberley (0276) 63377
Telex: 858115

Project management and systems engineering, including operational assessment, systems design and implementation, project control and training.

Location: Camberley.
Employees: 810.

TOTAL NUMBER OF EMPLOYEES
IN UK: 29,040.

PRODUCT GUIDE

Alphabetical index of products with codes indicating their source.

A

Acousto-Optics **G**
 Acoustic Analysis Systems, Underwater **J**
 Acoustic Data Transmission Systems, Multiplex, Underwater **J**
 Acoustics: Noise Flange **J**
 Acoustic Signal Processing **J**
 Acoustic Signal Simulators, Underwater **J**
 Acoustics: Sonar **J**
 Acoustic Threat Simulators, Underwater **J**
 Acoustic Video Links, Underwater **J**
 A/D Converters **B**
 Aerial Couplers, Radio Communications, Submarine **J**
 Aerial Multiplexers Receiving **B**
 Aerials: Null Steering, VLF Submarine **J**
 Aerial Systems **F**
 Aerial Tuning Units HF **B**
 Aero and Maritime Transmitters and Receivers: MF, HF, VHF, UHF **F**
 Airborne Communications Systems, VLF, UHF **J**
 Airborne Encryption **H**
 Air-Cooled Bridges **D**
 Aircraft, Unmanned, Air-Ground Data Links **J**
 Air defence weapons training systems **A**
 Air Defence Radars **D**
 Airtel information announcements equipments for pilots **H**
 Airfield Radars **G**
 Airfield visibility monitoring and control systems **A**
 Air-Ground Data Link **J**
 Air-Traffic Control Radars **G**
 Air Transducers **J**
 Amplifiers **D**
 Amplifiers: Broadband RF, Levelling (Microwave) RF **E**
 Amplifiers: Design and manufacture **H**
 Amplifiers: Microwave high power **B**
 Amplifiers: HF, Low, Medium, High Power - Civil, Military, Linear Wideband, NMR, Fixed, Transportable **B**
 Analysis: Covering, Metallography, Infra-Red, X-Ray, Atomic Absorbers **K**
 Analysis Systems: Acoustic **J**
 Analyzers: Automatic amplitude (microwave), Scalar (microwave), 110 MHz Spectrum, 200MHz Spectrum **E**
 Announcement Equipments: Telephone and airfield information (for pilots) **H**
 Antennas **C**
 Antenna Feed Assemblies **K**
 Antennas: Horn **K**
 Antennas: Lightweight yagi and broadband (VHF) **H**
 Antenna Microwave **H**
 Antennas: Receivers, LF/HF/VHF/UHF **B**
 Antennas: Satellite earth station **D**
 Antennas: Satellite, full supporting, manufacturing facilities including composite materials **K**
 Antennas: Satellite - 250 MHz to 200 GHz **K**
 Antennas: Satellite - Advanced antenna test facilities: Environmental, automated RF test gear, large accurate spherical near field test range **K**
 Antennas: Satellite - Phased Array **K**
 Antennas: Satellite - Helical Antennas, fixed & deployable **K**
 Antennas: Satellite for active remote sensing (SAR) **K**
 Antennas: Satellite - Logarithmic conical spirals for Telemetry and Wide Band Applications **K**
 Antennas: Satellite - Passive Sensing, Millimetre Wave **K**
 Antennas: Satellite reflector antenna **K**
 Antennas: Satellite supporting hardware, broadband corrugated polarisers, orthomode transducers, full filter design capability power splitter design software dichroic surfaces **K**
 Antennas: Satellite waveguide Horn Antennas **K**
 Antenna Systems: Space Communications, Tropo Communications, mobile/static **B**
 Antennas, Underwater Trailing Wire **J**
 Anti-Air (Guided Weapons): Active anti-air seekers, Sea Dart, Sky Flash **C**
 Anti-aircraft fire control systems **A**
 Anti-aircraft gun fire control modernisation **A**
 Anti-Armour: MLRS/TGW **C**
 Anti-Radar: Guided weapons - Alarm, Anti-radiation, Drones & shells **C**

Anti-submarine Systems, Airborne Acoustic **J**
 Approach Control Radars **G**
 Arc Detector System **B**
 Area Communications Systems **H**
 Armoured fighting vehicle training systems **A**
 Arrays: Short Baseline **J**
 Arrays: Underwater **J**
 Artificial Intelligence **A**
 Artillery command and control systems **A**
 Artillery fire control systems **A**
 Artillery gun laying systems **A**
 Artillery meteorological systems **A**
 Artillery Weapon data transmission systems **A**
 Assemblies: complex Waveguide **K**
 ASW Systems: Airborne Acoustic Processing and Display **J**
 Attenuators: Coaxial (microwave), rotary vane (microwave) UHF, for modulation meter **E**
 Attitude measurements & control electronics **K**
 Attitude and pointing: Sounding Rocket **K**
 Attitude determination and control - spacecraft **K**
 Audio accessories: Headsets, pressed switches, speakers, microphones, telephone headsets - design and manufacture **H**
 Audio Distribution Unit **H**
 Automatic Dialling Car Telephone **B**
 Automatic Digital Distribution Frames **B**
 Automatic Digital Circuit and Message Switches **H**
 Automatic meteorological systems **A**
 Automatic signalling Unit **H**
 Automatic recognition systems development **A**
 Automatic weather broadcast equipments: (for aircraft) **H**
 Autotracker systems development **A**

ALL BRITISH RADAR GUIDED MISSILES USE MARCONI SEEKERS OR FIRE CONTROL RADARS.

B

Balanced Mixers **D**
 Battlefield tactical radars **D**
 Base Stations **B**
 Battery condition manufacturing **A**
 Battlefield artillery target engagement system **A**
 Battlefield distributed command and control systems **A**
 Battlefield Sensor Transmitters & Receivers: RF, VHF, UHF, **J**
 Battlefield surveillance: thermal imagers **A**
 Batteries: for satellites **K**
 Beam lead Pin Diodes **D**
 Beam lead SBD's **D**
 Bearing temperature indicators **A**
 BI: Prozeant Reaction Control Equipments & Systems **K**
 Brazing **K**
 Breakover **D**
 Broadband Antennas (VHF) **H**
 Broadband Detectors (110GHz) **D**
 Broadcast Antenna **B**
 Bulk Encryption **H**
 Bulk Encryption Device **H**
 Buoys: INMARSAT **J**
 Buoys: Marker **J**
 Buoys: SARTSAT **J**
 Buoys: Submarine Distress **J**
 Buoys: Sonobuoys **J**

C

Cabins: electronic equipment **G**
 Cables: coaxial leads **E**
 Cable tester automatic **A**
 Cabling: design, manufacture and repair **H**
 Cabling: woven, design and manufacture **H**
 CAD **D**
 CAD/CAM Equipment **E**
 CAD Commissioning **A**
 Calibration Services **E**
 Capsule High Power Diode **D**
 Capsule Fast Turn-Off Thyristors **D**
 Carbon fibre composite structures and antenna systems **K**
 Cathodic protection **A**
 CC TV **F**
 CELLMOS **D**
 Cellular Radio **B**
 Cellular Radio Combiners **B**
 Cellular Radio Directional Antenna **B**
 Ceramics **D**

Chip & Wire Hybrids **D**
 Circuit Switches: Digital **H**
 Circulators **D**
 Civil command & control systems: design, development and manufacture
 CMOS Foundry **D**
 CMOS Si Gate Bulk **D**
 CMOS SOS **D**
 Coast watching radars **G**
 Codex **B**
 Cold Gas Attitude Control Thrusters & Systems **K**
 Colinear Antenna **B**
 Combat Net Radio **H**
 Combiners **D**
 Combiners: High Power HF **B**
 Combiner: 2 Channel for HF Broadcast Antenna **B**
 C31 Systems **G**
 C31 Systems definition, design and implementation **H**
 Command and control systems **A**
 Command and control systems: Civil - design, development & manufacture **H**
 Command Decoders **K**
 Communication Control Systems **B**
 Communications: Secure, fibre optic system - design and manufacture **H**
 Communications systems: Data link **J**
 Communications Systems: HF Naval **H**
 Communications Systems: LF **J**
 Communications Systems: RF **J**
 Communications Systems: Tactical **H**
 Communications Systems: UHF **J**
 Communications Systems: VHF **J**
 Communications Systems: VLF **J**
 Computer-aided repair terminals **E**
 Computer architectures: advanced system **A**
 Computer Encryption **H**
 Computer simulation **A**
 Computer Systems **B**
 Compensated collision avoidance radar systems (ARPA) **F**
 Computer systems for mobile military equipment **A**
 Connected Speech recognisers **H**
 Consultancy: Software systems - Proposals, Simulations **C**
 Containerised communications systems **B**
 Containers: Electronic equipment **G**
 Contract Development **B**
 Control and supervisory systems **B**
 Control Components **D**
 Control Systems: for Machinery naval surface vessels & submarines, submarine death & hoisting, naval electrolyser plant, naval air conditioning, steering gear **A**
 Control techniques for large flexible spacecraft **K**
 Counters: 300MHz Universal Timer; 520 MHz Universal Timer; 20 GHz Microwave **E**
 Cryptographic Devices: complete capability **H**
 Curtain Antenna Wideband **B**
 Curtain Antenna Wideband Wideslew **B**
 Custom Design Subsystems **D**
 Customer Training **C**

D

D-A Converters **B**
 Data **H**
 Data Bus System, using Radiation Hardened VLSI, Control Terminal Unit, Remote, Intelligent **K**
 Data Communication Systems **B**
 Data Management Systems **B**
 Data Multiplexers **B**
 Data processors: distributed (DDCUS 1E) **G**
 Data Recorders **J**
 Data Storage: Large capacity semi-conductor **K**
 Data tape recorders **K**
 Data Switches **B**
 Data Terminals **H**
 Data Terminals (SATCOM) **B**
 Data Transmitters & Receivers, High Speed - RF, VHF, UHF **J**
 DC/DC Converters for Payloads & Subsystems **K**
 Decoders, secondary radar **G**
 Degaussing systems for: Submarines, surface vessels, mine countermeasure vessels **A**
 Design simulation **A**

THE GWS25/SEAWOLF ANTI-MISSILE MISSILE, FOR WHICH MARCONI IS THE OVERALL SHIP SYSTEM CONTRACTOR, WAS THE FIRST WEAPON SYSTEM IN SERVICE WITH THE ROYAL NAVY TO GAIN FLEET ACCEPTANCE.

Detectors: Coaxial (Microwave), Coaxial Wideband, Digital error; Microwave, Waveguide, Wideband **E**

Detector Diodes **D**

Dielectric Materials **D**

Dielectric Resonator Oscillators **D**

Digital Circuits **C**

Digital Communication Systems **H**

Digital Communication Systems: Troposcatter - Satcom **B**

Digital Data communication tester **B**

Digital Encryption **H**

Digital fire control systems **A**

Digital Group Multiplexer **H**

Digital Radios **H**

Digital subscriber systems **B**

Digital Switches: Circuit and Message **H**

Digital Transmission System **H**

Diode Assemblies: Moulded Bridges **D**

Diplexers: Multi set, single antenna operation **H**

Dipping Sonar System HISOS for ASW Helicopters **J**

Direction finders **F**

Direct Sequence Spread Spectrum Modem **H**

Display Systems: Air Defence, Air Traffic Control, Naval Radars **G**

Distortion meters: audio frequency automatic **B**

Distribution Units: Audio Telegraph **H**

Doppler Speed Measurement and docking systems **F**

Double layer Metal Gate Arrays **D**

DPU Processing **J**

Drive Units: HF: channelised, programmable, synthesized **B**

E

ECM Systems **G**

ECCM **H**

ECCM Receivers **G**

ECM resistant communications systems **B**

ECM Simulators RF & Video **D**

Echosounders **F**

Educational test benches: microwave, antenna **E**

Electric Propulsion **K**

Electronic Circuits **C**

Electronic Countermeasures: Apollo, Decoys, Sky Shadow, Zeus **C**

Electronic design stations: Microquad **E**

Electronic equipment: Design, manufacture, repair **H**

Electronic program loading unit **A**

Electronic Support Measures: Hermes, Guardian, Radar homing & Warning Rx, Sentry **C**

Electronic Warfare Support: Automatic test equipment, Database management, Diagnostic test equipment, Mission software validation, Portable RF source, Real-time 3D test systems, RF environment generator **B**

Electronic Warfare Systems: design, prototyping and manufacture **H**

Electro: Optics **C**

Enclosures: Die Cast **B**

Enclosures: Die Cast Waterproof **B**

Encryption Devices **H**

Encryption Devices: complete capability **H**

ENG Antenna 2 Ghz **B**

ENG Antenna Hand-held **B**

Engineering workstation: 68000 based & UNIX **E**

'En route' radars **G**

Entertainment Systems **F**

EPIRB **F**

Error Correction Terminals: ARQ, FEC **B**

Euromet Standard Communications Equipment **H**

MARCONI IS EUROPE'S LARGEST MANUFACTURER OF IN-CIRCUIT AUTOMATIC TEST EQUIPMENT.

F

Facsimile encoders and recorders **F**

Facsimile Encryption **H**

Fast Response Electro-Magnetic Valves **J**

Fast Turn-Off & Fast Turn-On Thyristors **D**

Ferrites **D**

Fibre optics: Secure communications system - (design and manufacture) **H**

Field artillery computer equipment (FACE) **A**

Field Service: On-Call or Customer Based **J**

Field Service: On-Site Technical Representation **J**

Fill Guns **H**

Filter Capability **D**

Filter Units **E**

Fire control systems: tanks, light armoured vehicle, artillery, mortars **A**

Fixed & Mobile Digital Communications Systems **H**

Flat Base & Capsule High Power Diode **D**

Flat Base & Capsule High Power Thyristors **D**

Flat Base High Power Diodes **D**

Flight simulator visual system **A**

FM Circular polarised 'Conex' Antenna **B**

FM Circular polarised 'Coni-quad' Antenna **B**

FM Combiner Units **B**

FM Dipole Antenna **B**

FM slant slot Antenna **B**

Forward observer's hand-held sight **A**

Frequency extender for spectrum analyzer **E**

Frequency Hopping Modems **H**

Frequency Meters **E**

Frequency Multiplier **D**

FSK Drive Units (Modulators; Demodulators) **B**

Fuel Contents Gauging **J**

Function Generator **E**

Functional testing systems **E**

G

GaAs Varactor Diodes **D**

Gallium Arsenide Solar Cells **J**

Gate Arrays **D**

Ge Backward Diodes **D**

Glass fibre composite structures **J**

GPIB programmable instruments **E**

GRD BG Tactical Digital Radio Relay Set W/UHF **H**

Ground to Ground Tactical Digital Radio Relay System **H**

Group Digital Multiplexers **H**

Ground Support Equipment: Complete Automated Spacecraft Ground Checkout Systems Covering: Power sub-systems, Altitude & orbit control, payloads, Communications from LHF 50 GHz, Remote sensing using Radar & Spectral Radiometric techniques **J**

Gun control equipment **A**

Gun display Units **A**

Gunnery training systems **A**

Gunn Diodes **D**

Gunn Oscillators **D**

Gun Sound Ranging **J**

Gyroless Fads **J**

H

Hand held thermal imager: surveillance, fall of shot, security **A**

Handportables **B**

Harbour radar systems **G**

Harmonic Mixers **D**

Harness: design and manufacture **H**

HCT series CMOS Octals: Buffer/Line Drivers, Decoders/Demultiplexers, Edge Triggered 'D' Flip Flops, Transceivers, Transparent Latches **D**

Helicopter ASW: Receivers & Transmitters **J**

High Incidence Antenna **B**

High Power Components **D**

High Speed Data, Underwater Acoustic **J**

High Speed Receivers & Transmitters: RF, VHF, UHF **J**

High Voltage Rectifiers: Moulded Assemblies **D**

Horizontal Log Periodic Antenna **B**

Horizontal Log Periodic Antenna High Gain **B**

Horizontal Log Periodic Antenna Super High Gain **B**

HF ECCM **H**

HF Encryption **H**

HF/MF Synthesized Receiver **B**

HF Naval Communication Systems **H**

HF/SSB Transceivers **B**

Hydrazine Reaction Control Equipments Systems **I**

Hydrophones, Miniature Ball **J**

I

Image analysis **A**

Image Processing **A**

Image restoration and enhancement **A**

Image understanding **A**

Imaging Sonar **J**

Input Diodes **D**

Impact Oscillators **D**

In: Circuit test fixtures **E**

In: Circuit test systems **E**

Infra-red systems **A**

Infra-red systems: advanced development **A**

INMARSAT, Buoys **J**

Installations: communications **H**

Instrumentation radars **A**

Integrated circuit design **A**

Integrated radio communication systems **B**

Intelligent knowledge based systems: application, investigation **A**

Interrogator/responders, secondary radar **G**

Isolators **D**

J

Joystick Controllers

K

Key Management Systems/Units **H**

L

Large Scale Integration (LSI) **C, D**

Leads: Coaxial **E**

Level meter, selective **E**

Lifeboat transceivers **F**

Lighting suppressor breakover diodes **D**

Lightweight Yagi Antennas **H**

Limiters **D**

Line of Sight Digital Radio Relay Systems **H**

Line of sight microwave links **B**

Line Systems **B**

Locus TB data processor **G**

Log Periodic Antenna Super High Gain **B**

Log Power High Power **B**

Loran C Omega Systems **F**

Low-level radars **G**

Low level tracking radar **A**

Low/Medium Power Diodes **D**

Low Power Converter Thyristors **D**

M

MACROMOS **D**

Macro/micro Hardness testing **J**

Maintenance trainer (fire control) **A**

Magnet Torques **J**

Mancryomux: Bulk Encryptor & Group Multiplexer **H**

MARDEX: tactical digital exchange **H**

Marine Band High Power Rx. Antenna **B**

Marine Band Receivers **B**

Marine Band Umbrella Antenna **B**

Marine Communication: ASW Receiver; Distress Buoy; Diver Comms; VLF Receiver **K**

Maritime Industry Support Services: Engineering, Installation & Maintenance, Radio Traffic accounting, Technician and operator training **F**

Management of Crypto Keys **H**

Marker Buoys **J**

Matching Units **B**

Materials: Aluminium Honeycomb, Carbon Fibre Components, Glass Fibre Components, Thermoplastics, Aluminium and Titanium Alloys Fittings, Beryllium Copper, Invar **J**

Material engineering: Assessment & selection of materials for application in Space **J**

Material testing to ESA + NASA Standards **J**

Mathweb Guyed Mast **B**

Mathweb Hinged Column **B**

Mechanical design stations: Quadrant II **E**

Mechanical testing at temperatures 190°C to 200°C **I**

Mechanisms: Antenna Pointing, Mirror Scanning & Shutter Deployment **J**

Message switches digital **H**

Message switching systems **B**

MF Broadcast Transmitters **B**

MF Radio Transmitter Synthesizers **B, B**

Micrographic Photography **J**

Microprocessor Control Systems **J**

Microwaves **C**

Microwave Amplifiers **D**

Microwave components: bends, bridges, coaxial waveguide, directional couplers, flexible waveguide, waveguide **E**

Microwave instruments **E**

Microwave integrated circuits **J**

Microwave integrated circuits processing **C**

Microwave materials **D**

Microwave + optical sensors **J**

Microwave Transistors **D**

Millimetric Capability **D**

Millimetric Waves **C**

MIL STD 1553B **D**

Mines: Dragonfish, Stonefish **K**

Mines for land service **A**

Mine systems **A**
 Missile break up units **A**
 Missile control directors **G**
 Missile gathering radar **A**
 Mixer components **D**
 Mixer and Detector Diodes **D**
 Modelling Assessment, Acoustic Processing & Display **J**
 Modems: High Speed data **B**
 Modem: Satcom **H**
 Modulation Meters **E**
 Modulator: Pulse **E**
 Modulators: VLF/LF **J**
 Mortar fire control equipment **A**
 Mortar thermal protection **A**
 Motorway & tunnel environmental & monitoring equipment **A**
 Multi-Channel Infra-Red to Visible Region Ocean Colour Monitor **J**
 Multiplexer 15 Channel Satcom **H**
 Multiplexers: Data **B**
 Multiplexers: Speech **B**
 Multiplexers: Telex **B**
 Multiplexer 983 TDM **H**
 Multiplexing: Digital **H**

N

Narrowband Encryption **H**
 Naval Acoustic Signal Processors, Display Systems **J**
 Naval radars **G**
 Naval Sonar Equipment **J**
 Navigation Aids: Acoustic/Sonar Receivers **J**
 Navigational radars **F**
 Navigation systems **F**
 Network supervisory systems **B**
 Night vision equipment: vehicle applications, weapon applications, observation, applications **A**
 Noise Generator for I.d.m. systems **E**
 Noise receiver for I.d.m. systems **E**
 Noise Range: Acoustic **J**
 Noise Source **H**
 Non-reciprocal junctions **D**
 Nuclear survivability work **A**

MARCONI CAN OFFER A BROADER RANGE OF RADARS, FOR CIVIL AND MILITARY USE, THAN ANY OTHER COMPANY IN THE WORLD.

O

Off-Line Encryption **H**
 Offshore industry support services: system engineering, turnkey projects, consultancy, installation & planning, service & maintenance **F**
 Onboard communications **F**
 Onboard data processing **J**
 On-Line Encryption **H**
 Operations Centres C31: EW Data Management **C**
 Optical signal processing **C**
 Opto-inertial attitude measurement systems **J**
 Oscillators **D**
 Oscillators: Gunn diode (microwave), Microwave sweep also with GPIB **E**
 Oscillators: Microwave **A**
 OTH Arrays **B**

P

Paging and public address systems for shipboard and shore-based establishments **F**
 Panoramic Display Units **B**
 Passive Components **D**
 Pattern recognition **A**
 Payloads, satellite: communications: Maritime, Military, TV/DBS, Regional, Business, International **I**
 Payloads, Satellite: earth observation: synthetic aperture radar (SAR), infra-red, Optical Sensor Radiometer Scatterometers **J**
 Payloads, satellite: meteorology **J**
 Payloads, satellite: science: X-Ray, infra red **J**
 PCBs, extensive fully automated facilities for manufacture including: print and etch, plated through holes, multi layers, flexible and flex-rigid **H**
 PCM instrumentation: Digital analyzer, digital simulator, digital line monitor, multiplex tester, pattern generator & SLMS, regenerator test sets **E**
 PCM Multiplexers **B**
 Pen plotters: AO, DMM, Flatbed **E**

Photoplotters for artwork generation **E**
 Plot extractors, radars **G**
 Pin components **D**
 Pin diodes **D**
 Planar Antenna Arrays **J**
 Planar array antennas **G**
 Pneumatic actuator (ATE) **E**
 Polarisation Diversity RX LP Antenna **B**
 Polystyrene Matrix (Schaefer Dielectric) **D**
 Portable Encryption **H**
 Port and harbour control systems **G**
 Power amplifier for: sonar gun & missile launcher servo systems **A**
 Powerheads: tft (microwave) **E**
 Power meters: AF, RF, RE, microwave (analogue/digital), tft - microwave **E**
 Power supplies: programmable High Voltage, for image Intensifiers & Electric Propulsion **J**
 Power Supplies for solid state power amplifiers **J**
 Power Supply: dual DC, microwave **E**
 Power Transistors **D**
 Primary radar systems **G**
 Procedural simulation: ATC, Air Defence operators **G**
 Project management **G**
 Project management: installation design, installation, commissioning, repair and maintenance, services for naval communications **B**
 Project management support **J**
 Propulsion servicing equipment for launch sites **J**
 Pulse Forming Networks **D**
 Pulsed Impact Diodes **D**
 Pulse Transformers **D**

Q

Q: Band Couplers **D**
 Quadrant Antenna **B**

R

Racons **A**
 Racon beacons **F**
 Radar simulators **G**
 Radar-synthetic Aperture **J**
 Radar Systems: Air Defence - long range, Air Traffic Control, Harbour Control, Naval Surveillance, Naval Weapon Control, Tactical Battlefield **G**
 Radar Systems for: battlefield aircraft, surveillance & tracking, gun control, missile tracking, ranging, research & range, instrumentation, weather **A**
 Radar responder beacons (Racons): marine applications **A**
 Radio Alarms **B**
 Radio Communications Equipment: UHF, VHF, LF, VLF **J**
 Radio communications test set **E**
 Radio Encryption **H**
 Radiometers: Infra-red, Visible Band, Passive Microwave **J**
 Radios: Personal (secure): mobile, bus stations, talk through **H**
 Radiophones **B**
 Radio Receiver + Air Traffic Control (fully synthesized) **H**
 Radio Receiver: General purpose - VHF/UHF, fully synthesized **H**
 Radio Relay Digital 15 Channel, secure systems **H**
 Radio Relay Encryption **H**
 Radio Relay set GRC 83 **H**
 Radio Relay Terminals **H**
 Radio Relay Trunk Systems - Tactical **H**
 Radio Relay UHF Military Tactical **B**
 Radio Systems **B**
 Radio System Design **B**
 Radio: Tactical (frequency hopping & secure meshpack) Vehicle & Manpack **H**
 Radio Telegraph Interface **H**
 Radio Telephone Terminals **B**
 Radio Telephone test set **E**
 Radio test set, Immobile **E**
 Raster scan display systems **G**
 Receivers Acoustic/Sonar, Navigation Aids **J**
 Receivers: Airborne **J**
 Receivers: ASW **J**
 Receivers: MF/HF/LF **J/B**
 Receivers: RF: VHF, VLF **J**
 Rx Log Periodic Antenna **B**
 Receivers: Mobile Base **B**
 Receiver Transmitter Integral Assemblies **D**
 Receiver Voting Units **B**
 Recorders: Data **J**
 Remote Controllers **B**
 Remote Control Vehicle: Minnow **J**
 Remote control maintenance & monitoring Systems **A**

MARCONI WAS THE FIRST COMPANY OUTSIDE THE USA OR RUSSIA TO DEVELOP AN OPERATIONAL COMMUNICATIONS SATELLITE.

Remote Control Systems **B**
 Remote Control Vehicle: Minnow **K**
 Remote Sensing **J**
 Remote Sensing Equipment, Electronics **J**
 Research & Development and communications systems studies **B**
 Research: Speech & associated areas **H**
 RF Absorbing Materials **D**
 RF Communication Systems **J**
 RF Power Measuring Calorimeters **D**
 RF Sources: Portable, systems check, Programmable, Fast tuning target generator **E**
 Rhombic Antennas **B**
 Rotatable Log Periodic Antenna **B**
 Rotatable Roof Mounted Log Periodic Antenna (Multifunction Antenna) **B**
 Rotating Joints **D**

S

Safety and arming units: Mechanical, Electro Mechanical, Electronic **A**
 SARGAT, Buoys **J**
 Satellite Beacon Receiver **H**
 Satellite Communication **B, C, F, J**
 Satellite Communications: Code Generators **J**
 Satellite Communications: Filters **J**
 Satellite Communications: Input & Output Multiplexers **J**
 Satellite Communications: Land static, 7m, 12m, 19m terminals, Land Mobile, Manpack 1.7m tactical, NATO III 6.4m mobile, Shipborne, SCOT SHF Naval, Airborne, MASTER SHF Aircraft **C**
 Satellite Communications: Monolithic Microwave Integrated Circuits CMMIC **J**
 Satellite Communications: Receivers: Beacons, Tracking, EHF **J**
 Satellite Communications: Repeaters: Processing, Regenerative **J**
 Satellite Communications: Solid State Power Amplifiers **J**
 Satellite Communications: Transponders: L-C Band for mobile comms, S-Band, X-Band Military, VHF Telemetry & Command, UHF, TV Broadcast, KU Band, KU Band for data comms **J**
 Satellite Encryption **H**
 Satellite Ground Processing Equipment **H**
 Satellite Ground Terminal Modems **H**
 Satellite ground station equipment: satellite ground downconverters, satellite ground high power amplifier, satellite ground receivers, satellite ground upconverters **B**
 Satcom Modems: Airborne **H**
 Satellite Modem: Code Division, Multiple Access **H**
 Satcom Modems: Land Mobile **H**
 Satcom Modems: Naval **H**
 Satcom Multiplexer 15 Channel **H**
 Satellite Navigators **F**
 Satellite Payloads: Communications: Scientific **C**
 SAW Devices **D**
 SAW Oscillators **D**
 Scatterometers **J**
 Secondary Radar Systems **G**
 Secure Communications Systems **H**
 Secure Data Distribution **H**
 Secure Speech Systems **H**
 Selective Calling **B**
 Semi custom integrated circuit design **A**
 Semi custom LSI (System 85 Gate Arrays & CELLMOST) **D**
 Sensors: Fire & Sun Sit **J**
 Servo Systems for naval missile launchers: general purpose & AA naval guns, tracking radars, optical and radio telescopic drive, desk approach projector sight **A**
 Shelter design and installation **B**
 Shelters: Electronic equipment **G**
 Ship's bridge simulator **A**
 Ship's Command & Control Systems **K**
 Shipboard telephone systems and shore-based intercom systems **F**
 Shipboard voltage regulator **A**
 Si Gate Bulk CMOS Ship set, Remote Terminal & Bus Control **D**
 Signal Generators: AM/FM, Microwave **E**
 Signal Processing: Acoustic, Display Systems **J**
 Signal Processing: Audio, Digital **B**
 Signal Processors: Acoustic & Display Systems (Naval), Display Systems **J**

Signal processors: Radar **G**
 Signal sources: AM, AM/FM, Multiband swept (microwave),
 Solid state (microwave), two-tone (microwave) **E**
 Signalling Unit: Automatic **H**
 Silicon Varactor Diodes **D**
 Simulators: Acoustic Signal, Underwater **J**
 Simulators: Acoustic threat, Underwater **J**
 Simulators: Radars **G**
 Simulator: Ship's Bridge Flight **A**
 Simulators: Training **J**
 Single + Multi Channel Receivers **B**
 Si Schottky Barrier Diodes **D**
 Si Tuning Varactor Diodes **D**
 Sloping Vee Rx: Antenna **B**
 Sloping Wire Rx: Antenna **B**
 Software Auto pilot & guidance **J**
 Software consultancy **B**
 Software Design & Development, Battlefield Acoustic
 Processing & Display **J**
 Software design & implementation, to military standards **A**
 Software development **H**
 Software Engineering Support: Fire Control, Military
 Command **C**
 Software Support: Battlefield Acoustic Processing &
 Display **J**
 Software Systems Support: Battlefield Acoustic Processing
 & Display **J**
 Software Systems Support **J**
 Solar Arrays **J**
 Solar Arrays: Concentrator **J**
 Solar Array Drives (BAPTA) **J**
 Solar Energy Convertors **G**
 Solid State AC Controllers (for resistance welding) **D**
 Sonar: Active Steerable **J**
 Sonar: INTERCEPT **J**
 Sonar: Pallasives **J**
 Sonar: PASSIVE RANGING **J**
 Sonar: Submarine **J**
 Sonar: Surface Ships **J**
 Sonar: Towed Array **J**
 Sonar: Towed Array Processing **J**
 Sonar Equipment, Airborne **J**
 Sonar Equipment: Array Signal Simulator, Data Logger
 (F.I.L.E.), Low Cost Sonobuoys, Threat Signal Simulator,
 Tint Processor **J**
 Sonar Systems: Airborne Acoustic Processing & Display **J**
 Sonar Systems: 360° surveillance sonar; Hydrosearch,
 Intercept, Marin, Mini Sonar, TAPS **J**
 Sonobuoys: Active **J**
 Sonobuoys: ASW: Low Cost **J**
 Sonobuoys: Multi-Channel, Homing Receivers **J**
 Sonobuoys: Passive **J**
 Sound Ranging: Gun **J**
 Space Components **D**
 Spacecraft Avionic Interface Systems **J**
 Spacecraft control ground station systems **J**
 Spacecraft & equipment assembly: cleanrooms **J**
 Spacecraft & Payload Design - support **J**
 Spacecraft system simulations **J**
 Spares Provisioning Recommendations **J**
 Speech Encryption Devices **H**
 Speech Multiplexers **B**
 Speech recognisers: connected **H**
 Speech recognition systems: military civil **H**
 Speech recording/listening post systems-military **H**
 Speech synthesis **H**
 Spread Spectrum Modems **H**
 Stacks on Demand/Air Cooled **D**
 Star sensors: Versatile star sensors for star tracking +
 mapping **J**
 STARS 3MX Telegraph Message Switch **H**
 Static Power Inverters for: general naval ship supply, general
 submarine supply **A**
 Stereo Mono FM Broadcast Transmitters **B**
 Store and Forward Systems **H**
 Structures: Spacecraft Primary + Secondary Precision
 Antenna Reflectors & Supports, Solar Array **J**
 Stud Base: Fast Turn-Off/Fast Turn-On Thyristor **D**
 Submarine: Distress Buoys **J**
 Submarine: Sonar **J**
 Subsystems **D**
 Supervisory Systems **B**
 Support: UK MOD (Navy) for surface and tactical weapons
 systems **H**
 Support Programmes: Integrated **J**
 Surface Mounted Hybrids **D**
 Surface ships, sonar **J**
 Surveillance Radars **G**

Surveillance and tracking air defence system modernisation **A**
 Survey Chart Profiling, Acoustic **J**
 Switches: Digital, Circuits and Message **H**
 Switches: latching (TBMA) **B**
 Switch Matrix: 50 ohm 500kW **B**
 Switch Mtrx: 300 ohm 500 kW **B**
 Switch Products **D**
 Switch RF 300 ohm 50 kW **B**
 Switch RF 300 ohm 500 kW **B**
 Synchronous logic tester (ATE) **E**
 Synchronisation systems **B**
 Systems Analysis: Airborne Acoustic Processing & Display **J**
 Systems Software: Airborne Acoustic Processing & Display **J**
 Systems Software: Tactical Data Processing & Display **J**
 Systems study design and project management services **A**

T

Tactical communications systems **H, B**
 Tactical Conifan Antenna **B**
 Tactical Radio Encryption **H**
 Tactical Systems: Central, Maritime Aircraft **J**
 Tactical Systems: Lightweight (for maritime aircraft and
 helicopters) **J**
 Tactical training equipment: vehicles, weapon systems,
 anti-tank guided weapons, minefields, artillery **A**
 Tank Thermal Imagers: gunner's sight, commander's sight,
 remote display **A**
 Targets: Underwater **J**
 TDMA Sub systems **B**
 Technical Publications **J**
 Technical Training Rigs: Acoustic Processing & Display
 Systems **J**
 Telegraph Automatic Message Switching Systems **H**
 Telegraph Converter Unit **H**
 Telegraph Distribution Unit **H**
 Telemetry Encoders **J**
 Telemetry: Transmitters & Receivers, RF, VHF, UHF **J**
 Telemetry Systems **B**
 Telemetry: Underwater RF **J**
 Telephone Announcement Equipment **H**
 Television Instrumentation: data monitor, data selector,
 insertion test signal analyzer; interval timer; signal generator
 inserter **E**
 Telex Encryption **H**
 Telex and error correcting systems **F**
 Telex Multiplexers **B**
 Terminal area radars **D**
 Terminals: Data **H**
 Test Equipment: prototype manufacture and assembly **H**
 Test equipment for radar **A**
 Test facilities: general purpose test equipment, attitude test,
 bit control (ADCSI), antenna test ranges, propulsion,
 environmental, Mechanical + Environmental, EMC, High
 Power **J**
 Thermal imager **A**
 Thick Film Ceramic Substrate: Remote Terminal & Bus
 Control, LSI Elements, Oscillators plus Bus Select Logic, LSI
 Elements plus TTL Buffers **D**
 Thick Film Hybrid Drivers: Dual Transceivers, Monolithic
 Transceivers, Receivers, Transmitters **D**
 3-D Radars **G**
 Thermal Control: Blankets, Active + Passive Systems, Fibre
 Glass Insulation Components, Heat Pipes, Integrated Heat,
 Pipe Radiators, Process, White Paint, Process, Black Paint,
 Geogenics **J**
 Thermal Cycling **J**
 Threat Simulators, Acoustic: Underwater **J**
 Three-Phased (High Current) Air Cooled Assemblies **D**
 Thruster & Propulsion system vacuum lining test facility **J**
 Thyristor and Diodes for battery vehicles **D**
 Thyristor Inverter BkW 25 kHz **D**
 Torpedoes: MK4B POT, Spearfish, Sting Ray, Tigerfish **K**
 Torpedo Countermeasures **K**
 Torpedo Launching System - Kingfisher **K**
 Towed Array Sonar **J**
 Towed Array Processing Sonar **J**
 Towers: tubular triangular steel **B**
 Tracking radars **G**
 Tracking radars for: Land applications, Marine applications **A**
 Trainers and Simulators: Aircrew emergency procedures,
 Artillery, Cockpit procedures, Helicopter engineering,
 Nimrod Mission, Nuclear power station control room,
 Railway driver **E**
 Training Rigs, Operator: Acoustic Processing & Display
 Systems **J**
 Training: Airborne Acoustic Processing & Display Systems **J**

MARCONI IS BRITAIN'S ONLY
 MANUFACTURER OF TORPEDOES.

Training: Customer, Initial Provisioning, Equipment
 Familiarisation, Equipment maintenance **J**
 Training for selected Acoustic Processing & Display
 Systems **J**
 Transceivers: HF: Military ECCM, Civil **B**
 Transceiver Test System (semi automatic) **E**
 Transducers: Air, Ceramic, Pvd F **J**
 Transformers: r/f 75/50 ohm **E**
 Transistors **D**
 Transistor Amplifiers **D**
 Transmission Line enclosed 50 ohm 500KW **B**
 Transmission Line Megawatt 100 ohm **B**
 Transmission Switches **B**
 Transmission Systems, Multiplex Acoustic Data **J**
 Transmitters: Airborne **J**
 Transmitters: ASW **J**
 Transmitters: Broadcasting **B**
 Transmitters, Frequency Agile **J**
 Transmitters: HF, LF **B**
 Transmitters Mobile Base **B**
 Transmitters: RF **J**
 Transmitter/Receiver radar **G**
 Transmitters: VLF **J**
 Transportable Pack Sets **B**
 Trials Analysis & Simulation Software **J**
 Trials Replay & Analysis Systems **J**
 Troposcatter Bilboard Antenna **B**
 Troposcatter Support Towers **B**
 Troposcatter equipment **B**
 Troposcatter Tactical 4.5m Antenna **B**
 Trunk Tactical Communication System **H**
 Turnkey Systems **C**
 Turnot and gun drivers for fighting vehicles **A**
 T.V. Receivers and video systems **F**
 TWT High Voltage Power Supplies **J**

U

UHF Line of Sight Radio Relay: GRO 'B3' **H**
 UHF Transistors **D**
 UHF & VHF Walkie-Talkies for shipboard and land-mobile
 operations **F**
 Umbrella Antenna **B**
 Umbrella Antenna Spot Frequency Fixed Station **B**
 Umbrella: Tuneable Transportable Version Antenna **B**
 Underwater Acoustic Video Links **J**
 Underwater Arrays **J**
 Underwater Hydrophone Preamplifiers **J**
 Underwater Targets **J**
 Universal Bridge **E**

V

Vertical Dipole Antenna **B**
 Vertical Log Periodic Antenna **B**
 Vessel traffic systems (VTS) **G**
 VHF Line of Sight Radio Relay GRO B3 **H**
 VHF/UHF Synthesized Receivers **B**
 Video Conferencing Encryption **H**
 Video/Datalinks **D**
 VLSI Waveguide Circulators & Isolators **D**
 Voice Frequency Telegraphy **B**
 Voice: recognisers: Connected **H**
 Voltmeter: True RMS **E**
 Voting Units **B**
 VSWR Indicator (Microwave) **E**

W

Waveguide Gaskets **D**
 Waveguide Leads **D**
 Wavemeters **E**
 Weapon Control Radars **G**
 Weather Broadcast equipments: automatic, for aircraft **H**
 Welding: Titanium, Stainless Steel Pipe Welding & X Ray **J**
 White Noise Test Sets **E**
 Wideband Dipole Antenna **B**
 Wideband Encryption **H**
 Wideband Horizontally Polarised Conifan Antennas **B**
 Wideband Vertically Polarised Conifan Antenna (Ext. &
 Transpble) **B**
 Workstations: CAD **D**
 Workstation Multi terminal **E**

Y

Yagi Antennas: Lightweight **H**
 Yagi High Power 6 Element Antenna **B**

Z

Zero loss probe **E**



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