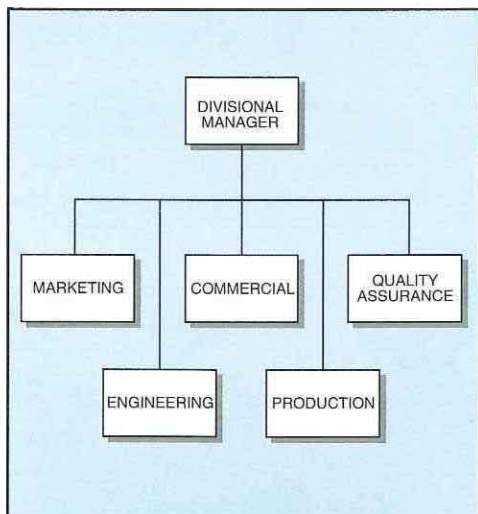


COMBAT AIRCRAFT CONTROLS DIVISION



CACD divisional organization

Combat Aircraft Controls Division (CACD) forms part of GEC Avionics Limited and is a world leader in the manufacture of control systems for combat aircraft, military helicopters, unmanned air vehicles and airships. The considerable experience gained from the design, development and production of control systems on programmes including Tornado, Lynx, the Experimental Aircraft Programme, the European Fighter Aircraft and the US Advanced Tactical Fighter has highlighted CACD's position as a major supplier of flight control equipment required for the worlds most advanced aircraft. The Division holds both AQAP 1 and AQAP 13 approvals, and is fully committed to the Company wide TQM policy.

CACD is headed by the Divisional Manager who is responsible to the board of GEC Avionics for overall performance. The Division comprises Engineering, Production, Quality Assurance, Commercial and Marketing departments, each providing specific expertise to respond to all customer requirements. As well as CACD's own comprehensive resources, access is available to the considerable administrative, financial, and research capabilities of the Company.



CACD's main production area

Product areas

- Vehicle Management Systems**
- Flight Control Systems**
- Pilot's Control Stick, Pedal and Throttle Inceptors**
- Unmanned Air Vehicles (Drones and RPVs)**
- Terrain Referenced Navigation/Terrain Following systems (TRN/TF)**

Areas of expertise

- Full time Fly-by-wire/Fly-by-light systems**
- Fault tolerant computing systems**
- Safety critical software**
- Application Specific Integrated Circuit design**
- Terrain referenced flight guidance algorithms**
- Electric and hydraulic actuator design and manufacture**
- Programme management**



CACD divisional facility

Divisional Facilities

Combat Aircraft Controls Division possesses full facilities for the manufacture and support of advanced avionics equipment. These include engineering research and development, computing facilities, manufacturing shops, technical writing and logistics support organizations.

Major Products



EFA Flight Control Computer

Full time full authority FBW FCS, which includes the flight control computer and the stick sensor and interface control assembly.



Tornado Flight Control Equipment

Automatic flight control system equipment for Tornado, AMX, Sea Harrier, Harrier, Jaguar, EAP and YF-22A.



Helicopter Flight Control Equipment

Automatic flight control system for the Lynx helicopter.



Vehicle Management System (VMS)

Vehicle management system for the YF-22A USAF ATF.



Fly-By-Light

Fly-by-light flight control system for the Westinghouse Skyship 600 and the Sentinel 1000 airships.



Unmanned Aircraft System

Drones and remotely piloted vehicles. Prime contractor for the Phoenix battlefield surveillance and target acquisition system for the British army.



SPARTAN

SPARTAN TRN/TF system selected by the UK Ministry of Defence for the RAF Tornado upgrade programme.



Fly-By-Wire Sticks & Throttles

Inceptor activities include fly-by-wire control stick assemblies, for EAP, YF-22A, A-12 and EFA programmes.



Position & Force Sensors

Position sensors and force sensors, designed and developed for Tornado, Jaguar, EAP and AMX.



GEC AVIONICS
Combat Aircraft Controls Division

This brochure is intended only to give a general impression of the products and services which are available and none of the descriptions contained herein shall form part of any contract.

GEC Avionics Limited

Combat Aircraft Controls Division

Airport Works, Rochester,
Kent ME1 2XX, England
Telephone: (0634) 844400
Facsimile: (0634) 816525
Telex: 94017803-CACD G

Associate Company:

GEC Avionics Inc.

2975 Northwoods Parkway,
P.O. Box 81999, Atlanta,
Georgia 30366, U.S.A.
Telephone: (404) 448 1947
Facsimile: (404) 246 0378
Telex 708477