

Welcome to ROCHESTER AVIONIC SYSTEMS

Manufacturing Facility

BAE SYSTEMS

www.rochesteravionicarchives.co.uk

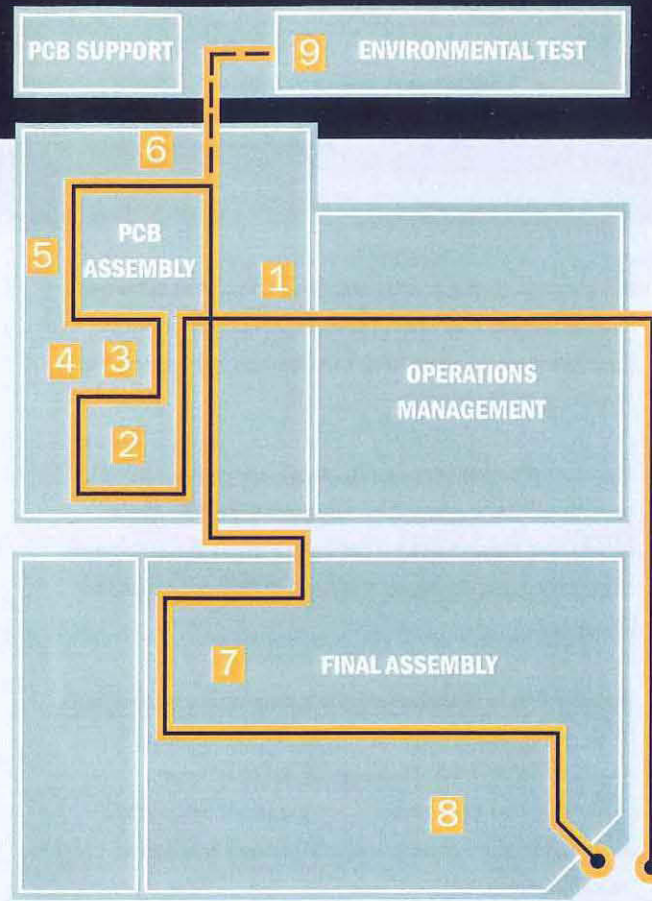
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The Tour



Rochester

Welcome to our Rochester site where we design and manufacture Avionic Systems and Printed Circuit Boards for Civil and Military applications. We hope you enjoy your tour of our manufacturing facilities.



1 Machine Load

Components are fed from JIT bins, tubes or carousels, positioned by an operator who is guided by the machine that crops and clinches to secure them in place.



2 Wave Solder

This machine creates soldered joints of high integrity without oxidation, using a nitrogen blanket and three dimensional wave dynamics.



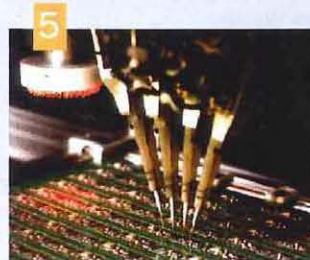
3 Surface Mount Technology (SMT)

Loading of surface mount components is performed by our pick and place machines at up to 10,000 components per hour.



4 Cleaning

All PCBs are cleaned to remove salts, fluxes, grease and other residues. We use an aqueous continuous in-line cleaner system. Semi- aqueous and non aqueous cleaning is also available.



5 Automatic Flying Probe Inspection System

This utilises an integrated vision system, a fully integrated software suite and functional test interface. It accepts direct CAD imports.



6 Robotic Conformal Coat

This machine can coat both sides of a PCB in one operation and reduces the need for masking. It uses only a third of the material needed by manual methods.



7 Civil Avionics

Both primary and secondary flight control systems are assembled and functionally tested in this area using Special to Type Test Equipment.



8 Military Avionics

This cell is dedicated to producing a range of avionic equipment for specific military aircraft.



9 Environmental Test

This area is one of the largest environmental test facilities in Europe. Here products are subjected to simulated thermal and vibrational cycling.

Products

Manufactured at Rochester

Airborne Displays

Military Head Up Displays for C-17, C-130, F-5, F-7, F-16, F-22
Helmet Mounted Displays and Night Vision Goggles



Civil Avionics

Civil Visual Guidance Systems for Business Jets and Commercial Airlines. Primary Flight Computers for Boeing and Secondary Flight Controls such as Slats/Flaps for Airbus and Spoilers for Bombardier



Eurofighter "Typhoon"

Air Data Transducer, Computer Symbol Generators, Engine Monitoring Unit, Head Up Display, Wing Pylon Station Unit, Helmet, Flight Controls Computer, Stick Sensor and Interface Assembly.



Flight and Data Systems

Air Data Computers, Armament Control Systems, Military Flight Controls such as, Sticks, Throttles, Computers and products associated with Tornado Mid-life Update Programme.



Printed Circuit Boards

A wide range of PCBs are produced for other BAE SYSTEMS Divisions including, Tactical Systems at Basildon, CDI at Basildon and Christchurch, Mission Displays at South Gyle and Sensor Systems at Crewe Toll.



General Information

Our manufacturing facility occupies about 200,000sq ft. and we employ 450 staff. The current manufacturing facilities were purpose built in 1996 and are undergoing continual improvement.

Core activities are PCB and final assembly, inspection and test. These are managed by Integrated Manufacturing Teams and supported by a full supply chain management capability using Compass Contract Enterprise Resource Planning.

We have a large Manufacturing Engineering team providing Design for Manufacture and Assembly, Production Engineering and Test Engineering support. Lean manufacturing improvement tools and techniques are used within our framework of Continuous Business Improvement (CBI).

Both process and product cellular manufacturing methods are used and the whole process is monitored by a variety of measures including lead time, first time pass rates and on-time-delivery.

Business Enquiries should be addressed to:-

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