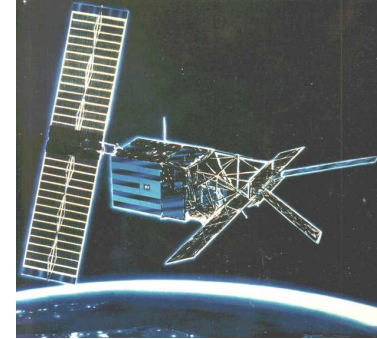


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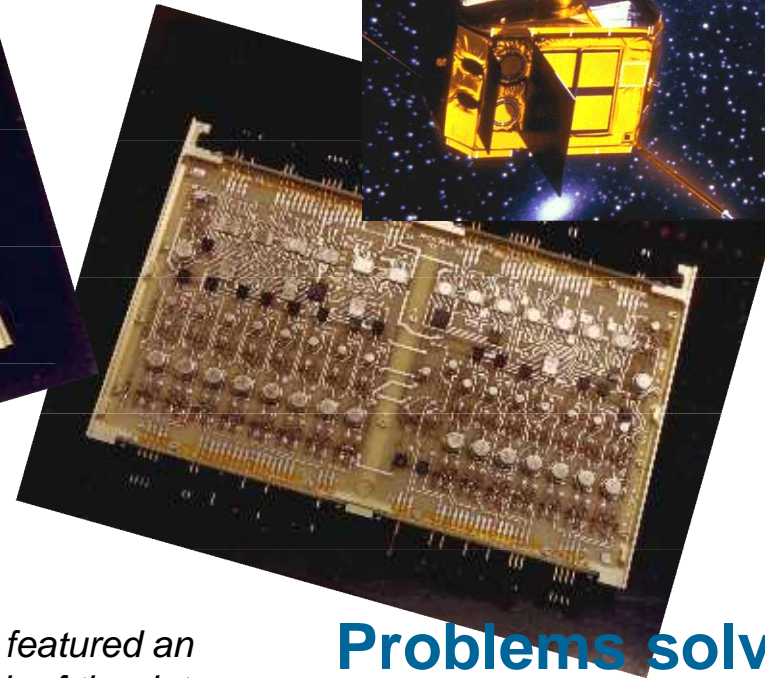


Spacecraft Engineering Heritage

Unit 10, The Timbers, Catisfield, Fareham, Hants, PO15 5NB
mobile 07901 826356 phone 01329 847952
e-mail david.skertchly@product-technik.co.uk
www.product-technik.co.uk

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EXOSAT Attitude and Orbital Control Electronics



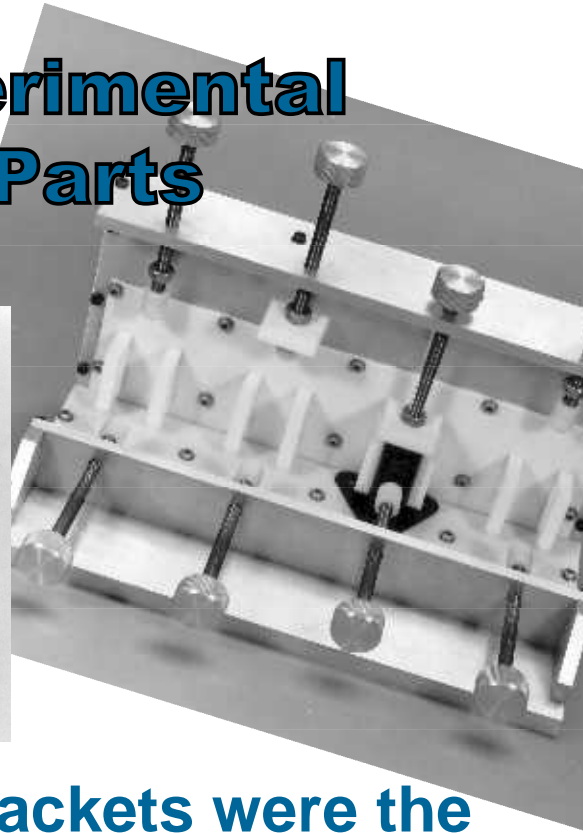
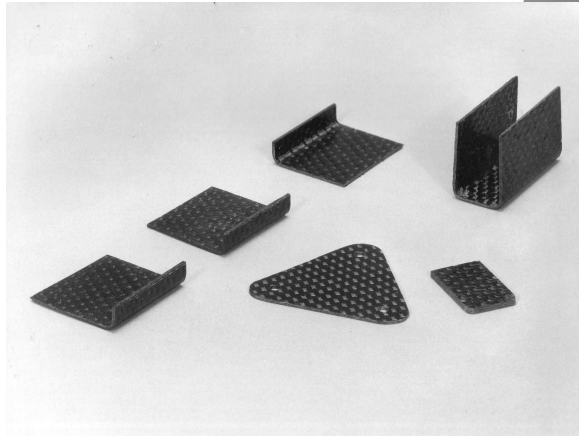
Extract from ESA Science:

“Exosat was also unusual at the time because it featured an on-board computer. This not only processed much of the data before returning it to Earth, but also allowed scientists to alter the on-board data handling programs after launch. Exosat was much more flexible because of this. Scientists now had more freedom to investigate results that had not been expected at the time of the launch”

Problems solved included handling of static sensitive CMOS devices

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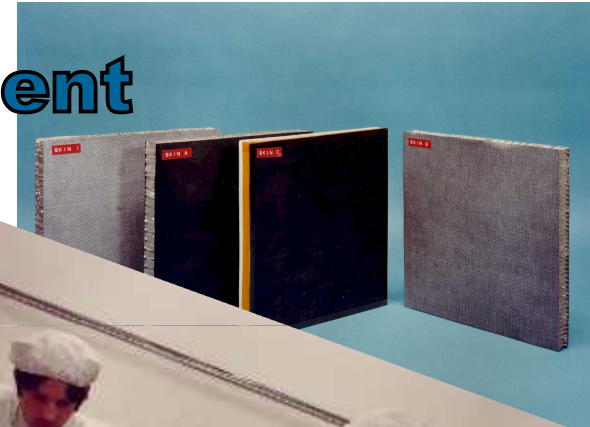
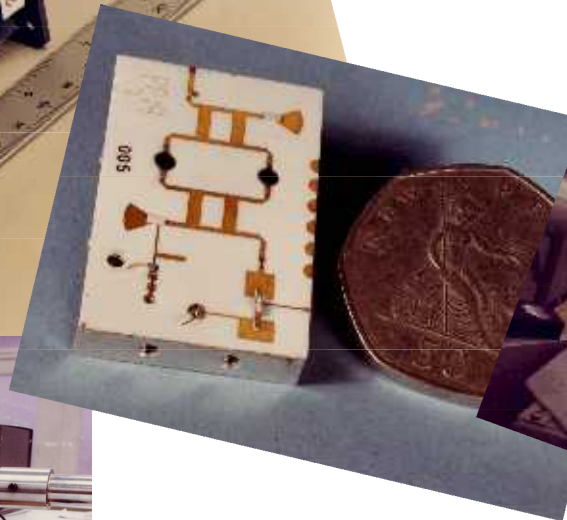
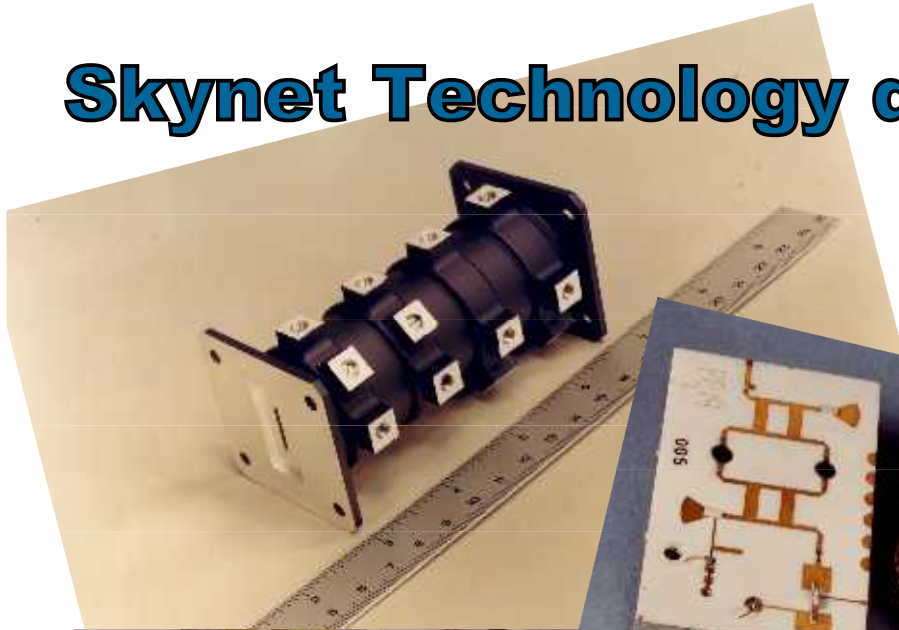
EXOSAT Experimental Carbon Fibre Parts



These humble brackets were the first flight quality carbon fibre parts to be made in the UK formed the foundation of the UK's carbon fibre industry.

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Skynet Technology development



- Thermally stable filters
- Microwave Integrated Circuits
- Carbon fibre tooling and production

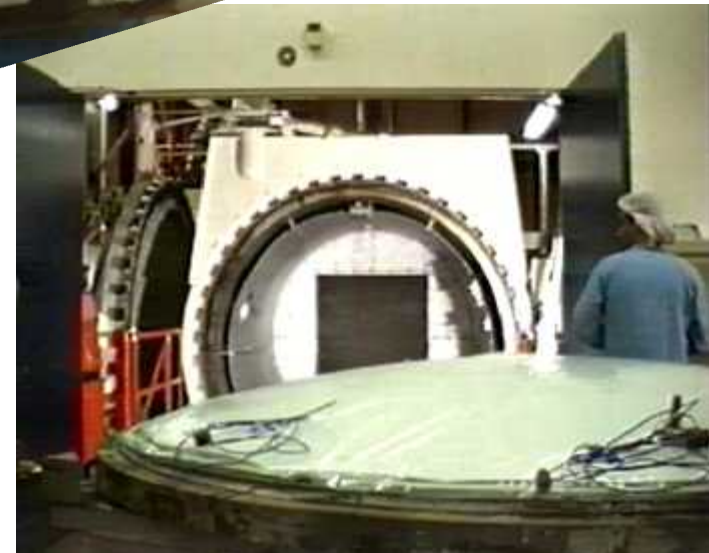
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L Sat temperature compensated cast iron tool

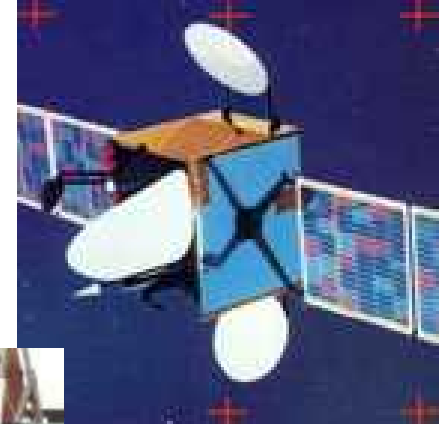


L.Sat (Olympus) Cast Iron
Telecom antenna reflector tools

Temperature compensated Using
FEA



Unisat profiled reflectors



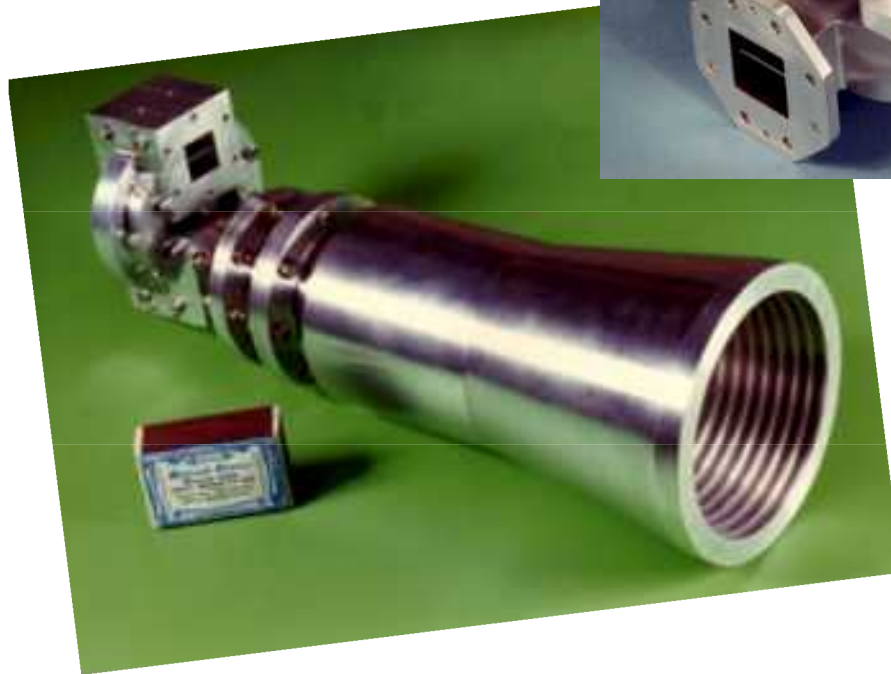
Pair of 2.5 Metre solid graphite tools.

Reflector included beam shaping profile

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Feed Manufacturing

Various feeds
from flight and
development
projects.



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Meteosat Operational



The project task was to recover the schedule slip on the sensor payload. This payload comprised both optical and microwave sensors.

ERS 1 SAR Processor



The ERS 1 SAR Processor was the largest spacecraft computer ever to fly. It included integrated Power Supplies, RF Front End and On Board processing. My task was to Manage the build including integration of Flight Software, Test Software and ATE. Later tasks included production of the ATSR 2 stable structure from carbon fibre.

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Space Circuit board Qualification



Technology development and test programme to ESA specifications

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Inmarsat 3 L band antennas



**3.5 Metre solid
graphite tool.**

**Reflector weight
less than 12kg**

