SPACE COMMUNICATIONS DIVISION

69/93

MARCONI SPACE COMMUNICATIONS STATIONS

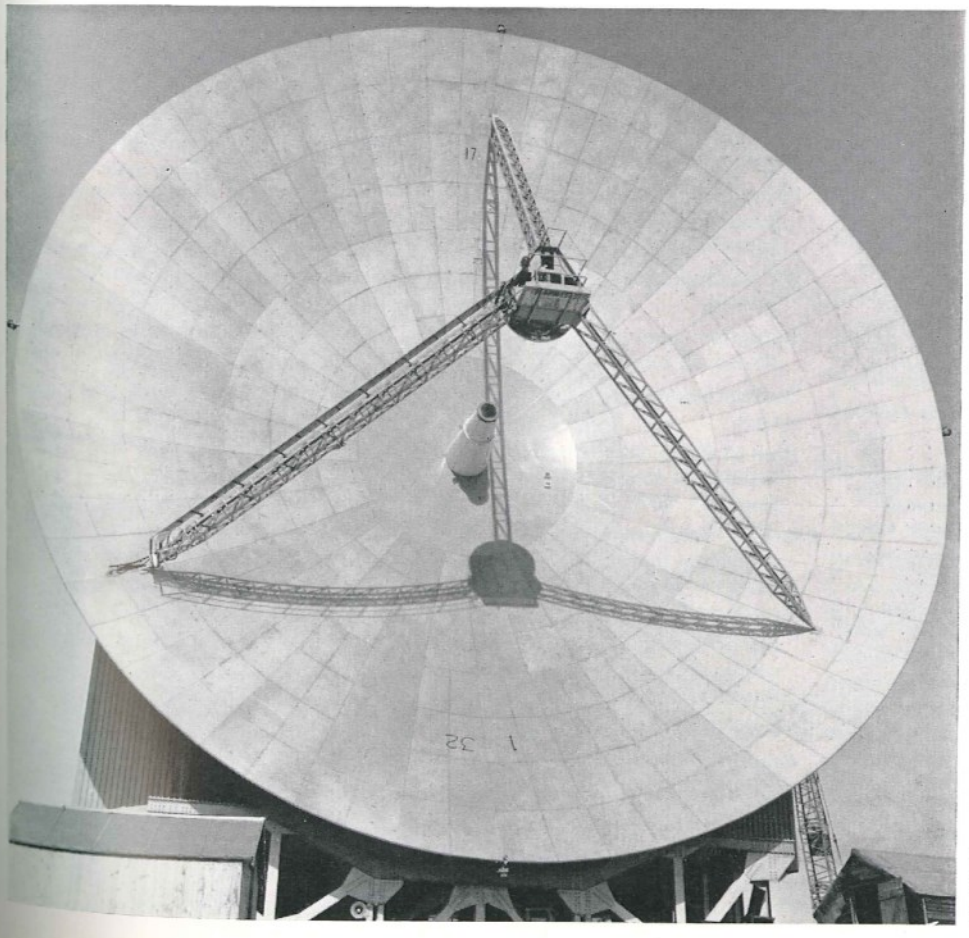
The expertise of the Marconi Company in the system engineering of communications and radar complexes over many years has been successfully applied to satellite communications ground stations for both military and civil applications.

Latest Designs

Earth stations currently being offered for communications under INTELSAT have 97ft diameter antennas giving high G/T (figure of merit) performance. The keynote of these designs is versatility, deriving from a modular concept where varying customer system requirements can generally be satisfied from a series of basic elements. This philosophy not only allows us to offer a wide range of complete system designs from highly sophisticated major terminals down to relatively inexpensive specialized terminals for specific requirements, but is also particularly suited to those stations whose traffic requirements are likely to grow with time, whereby extensions to a system can be readily and efficiently implemented with minimum redundancy of existing equipment.

In the expanding field of satellite communications it is inevitable that satellites will be launched in the future which offer different or improved facilities. The purchase of a satellite ground station represents a considerable capital investment. A Marconi customer makes this investment with confidence that all available data on future trends has been studied and taken into account in the design of Marconi equipment.

On the following pages some examples of the subsystem equipments which contribute to the Marconi Space Communications range are illustrated and described in outline.



90ft Satellite Communications Aerial at Goonhilly