



*Journal*  
of  
THE ROYAL AERONAUTICAL SOCIETY

OCTOBER 1961

CONTENTS

NOTICES

THE ERA OF THE AUTOGIRO—THE FIRST  
CIERVA MEMORIAL LECTURE J. A. J. BENNETT

RECENT DEVELOPMENTS IN PHOTOELASTIC  
COATING TECHNIQUES G. S. HOLISTER

SPACE-CORRELATIONS IN THE FLUCTUATING  
PRESSURE FIELD NEAR TO A JET ENGINE R. E. FRANKLIN

SOME THRUST CONTROL METHODS FOR SOLID  
PROPELLANT ROCKETS K. W. PEARCE

TECHNICAL NOTES

The Application of the Schlieren-Interferometer to the Study of Super-  
sonic Flow Around Unyawed Axi-Symmetric Bodies—J. F. WATERHOUSE  
and H. B. SPENCER. Vibration of Centrally Stiffened Rectangular Plate  
—C. L. KIRK.

THE ROYAL AERONAUTICAL SOCIETY: THE FIRST  
FIFTY YEARS—1875-6 J. LAURENCE PRITCHARD

GRADUATES' AND STUDENTS' SECTION

THE BRANCHES

THE LIBRARY

REVIEWS

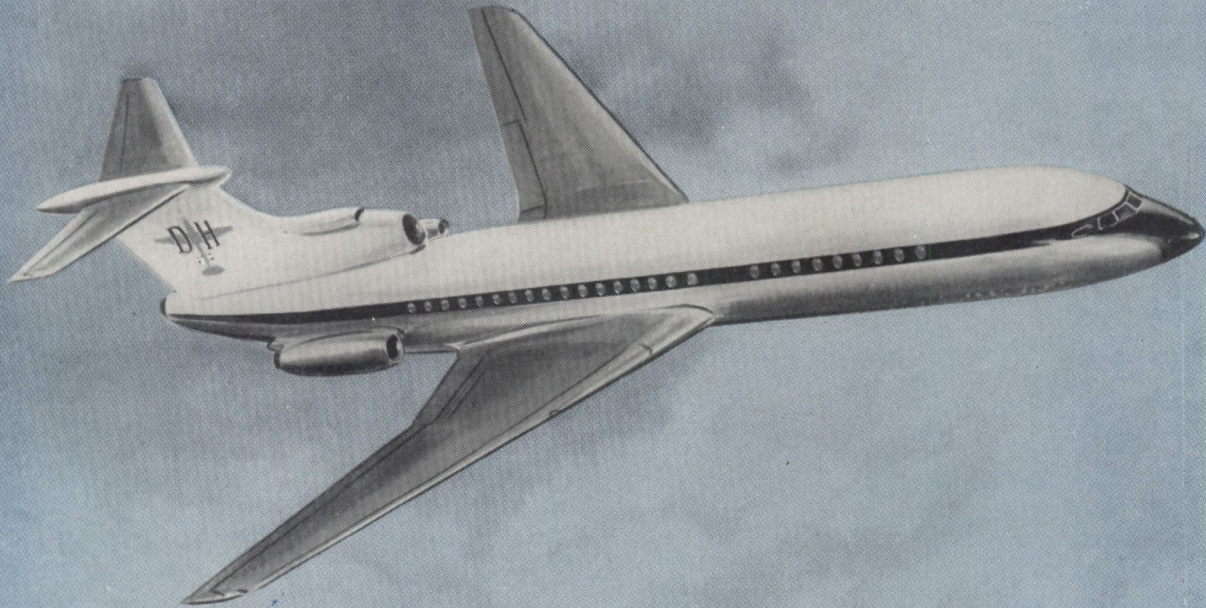
REPORTS

TWELVE SHILLINGS AND SIXPENCE MONTHLY

4 HAMILTON PLACE LONDON W1



**HOBSON CONSTANT SPEED ALTERNATOR DRIVES**  
*are now specified for the*  
**D.H. TRIDENT JET AIRLINER**



*As Specialists in  
precision engineering, we  
invite your enquiries concerning  
projects to which our  
comprehensive engineering  
facilities can usefully  
be applied*

In this aircraft, described as the ultimate in subsonic speed combined with the best possible operating economy, the entire electrical generating capacity is dependent upon its constant speed drives, so that reliability and a long life between overhauls are of vital importance. Designed specifically for civil aircraft duties, HOBSON Constant Speed Alternator Drives achieve these essential qualities by their novel construction permitting the use of a transmission oil pressure of only 500 p.s.i. In addition, a unique pump off-loading system reduces the pump transmission pressure to 50 p.s.i. when the aircraft is cruising. The ingenuity and reliability inherent in this design also characterise the following additional HOBSON equipment now specified for the same aircraft:— FUEL BOOSTER PUMPS  
FUEL FLOW PROPORTIONERS · TRAILING EDGE FLAP  
OPERATING SYSTEMS · LEADING EDGE DROOP OPERATING SYSTEMS

H · M

**Hobson**

LIMITED · FORDHOUSES · WOLVERHAMPTON