

# THE HELICOPTER ASSOCIATION OF GREAT BRITAIN

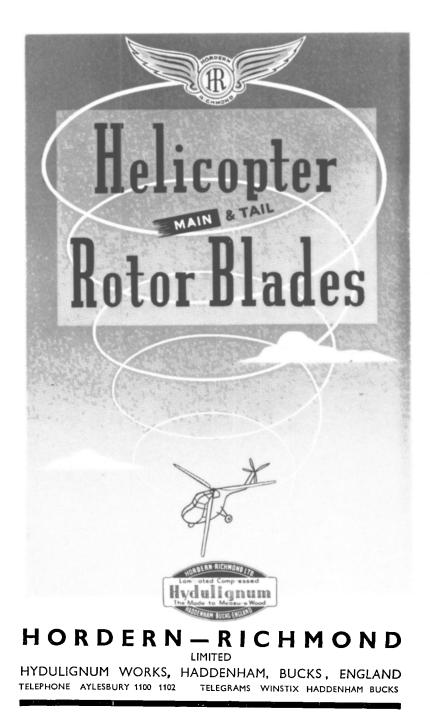
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Some Applications of Gas Turbine to Helicopter Propulsion By John Brown

Helicopter Production By E J Boulger

LONDON 4, THE SANCTUARY WESTMINSTER, S W 1

Vol 8 No 3 JANUARY 1955



The ALVIS LEONIDES Helicopter Engine as installed in the Westland Sikorsky Dragonfly has proved its endurance under the most exacting service conditions in Malaya 520 b h p , 9-cylinder aircooled radial engine. Weight complete 645 lb Power/weight ratio 1 24 lb per b h p. Overall diameter 41 5 inches.

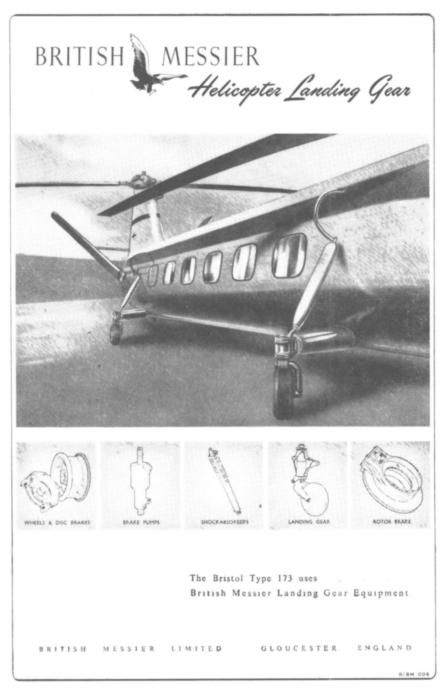


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Serviceability

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### WHEN AIRBORN

The Bristol Type 173 Twin Rotor Helicopter relies on Layrub as the main driving elements between engines and rotors.

Rubber trunnion blocks are used giving a cushioned drive there are no metal-to-metal-contacts in o lubrication, therefore little maintenance.

A Post card will see full technical data on its way to you.

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LAYCOCK ENGINEERING LTD. VICTORIA WORKS, MILLHOUSES, SHEFFIELD, 8





### The Journal of

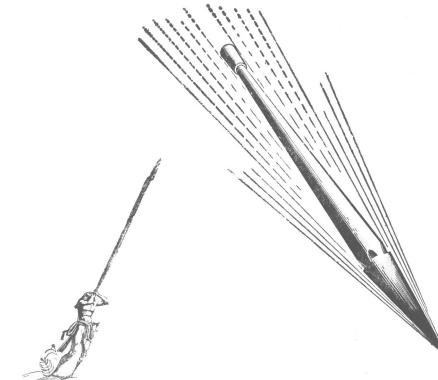
### THE HELICOPTER ASSOCIATION OF GREAT BRITAIN

4 The Sanctuary Westminster, SW1 Offices Tel Abbey 5160

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#### OBJECTS OF THE ASSOCIATION

The objects of the Association are to collect compile and disseminate information of a technical and semi technical nature pertaining to Helicopters and all other types of Rotating Wing Aircraft The Association aims to work in close co operation with existing Aeronautical Bodies on matters affecting its objects and it may act as an Advisory Body in the promotion of legislation calculated to be of benefit to the development of Rotating Wing Aircraft



#### HIGH AERODYNAMIC EFFICIENCY

The Eland is an aero-engine giving high power at low cost It is a single-shaft propeller-turbine developing 3 000 e h p. at take-off, with a diameter of only 36 inches. This compactness makes for high aerodynamic efficiency. Other notable features include smooth, surge-free acceleration, low specific weight and low fuel consumption. All in all the Eland is an impressive example of design and manufacture at the service of commercial aviation.

## NAPIER Eland

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