INCLUDING SUPPLEMENTARY PAPERS

MAY 1973





THE ROYAL AERONAUTICAL SOCIETY

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Man Powered Flight Prize for International Kremer Competition Increased from £10 000 to £50 000

Mr. Henry Kremer, an industrialist, has been intensely interested in Man Powered Flight since the formation of the original Committee (MAPAC).

When the Man Powered Aircraft Group was formed within The Royal Aeronautical Society he gave a great stimulus to the objects of the Group by creating a prize of £5000 for a competition open to British Commonwealth citizens the rules of which were formulated by the Society with the agreement of The Royal Aero Club.

After a number of years his disappointment that the prize had not been won led him to suggest a simplified course for the Commonwealth Competition with the original competition being made international with a prize of $\pm 10\,000$.

Partly because the value of money has decreased since the main prize was offered but mainly as a further stimulus, knowing full well the vast number of unpaid man-hours that are expended on such enterprises, he has, with the agreement of the President of the Society, increased the prize to £50 000.

The President, on behalf of the Society, has expressed gratitude to Mr. Kremer for his generosity and particularly for the encouragement he has given to the Man Powered Aircraft Group over so many years.

VOLUME 77 NUMBER 749 MAY 1973



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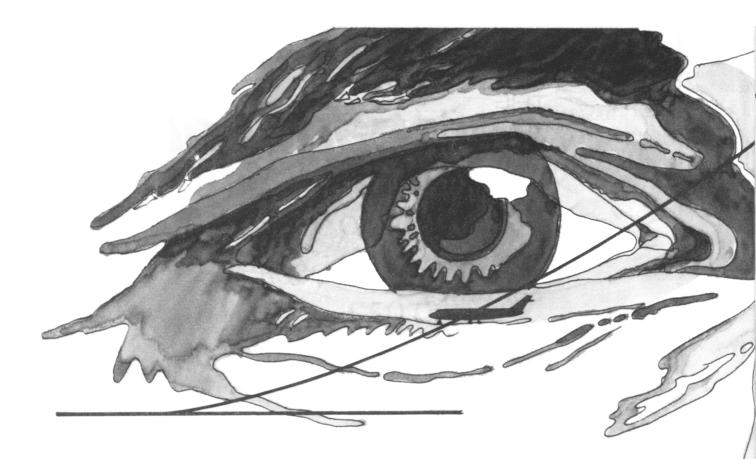
Cover picture: A British Airways Helicopters Ltd, Sikorsky S-61N at the Westland (London) Heliport. This issue is devoted to the symposium on "Heliports" held by the Rotorcraft Section of the Society and the British Helicopter Advisory Board in March last year.

SUPPLEMENTARY PAPER

Air Chief Marshal Sir Neil Wheeler

The military customer's point of view

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Smiths Industries. Eyes that never close.

Smiths Industries flight control systems have earned a reputation for high performance, reliability and integrity in aircraft throughout the world.

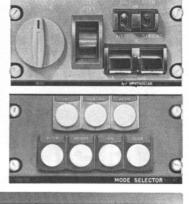
We designed and produced our first autopilot in 1931 and from that we developed the tremendously successful SEP.2. More than 1,500 of these autopilots have been produced and fitted to a wide variety of aircraft, from the Viscount to the HS 125. Smiths Industries Series 5 Autopilot fitted to all BEA Tridents was the first in the world to land passengers on scheduled services automatically (It is now cleared by CAA to operate in Cat 3A weather conditions).

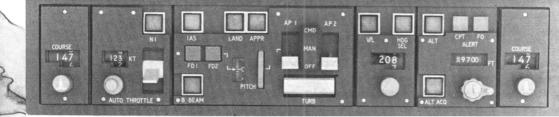
But it's not only our autopilot and flight control system eyes that never close. All our eyes are on the lookout all the time. Research, new developments, testing and fresh knowledge – we're wide awake to them all. We're restless – so that you can rest assured.

н

Illustrated opposite are the pilot's controller and mode selector of the Series 6 Flight Control System designed to be adaptable to the executive jet or the most sophisticated intercontinental airline. Series 6 Autopilot is fitted to the Fokker F28 Fellowship and an extended performance version of the Series 6 Flight Control System is used on the RAF's HS Nimrod.

The pilot's control panel of the A300B Airbus, Smiths Industries is working with SFENA of France on the design and manufacture of the Flight Control System for this aircraft.





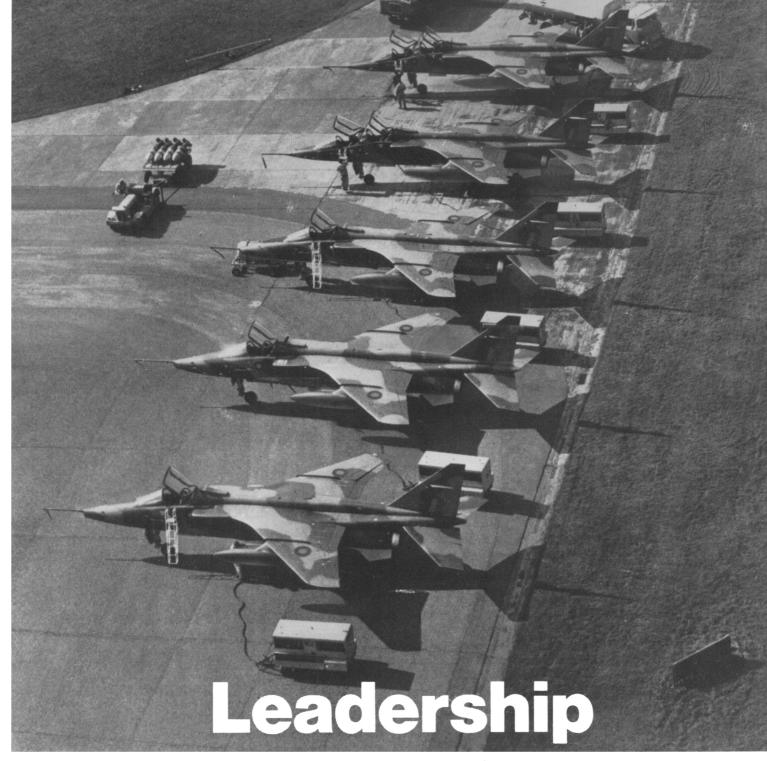


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Flight Displays and Control Systems: Bishops Cleeve, Cheltenham, Glos. GL52 4SF Avionics, Engine Control & Fuel Management Systems: Winchester Road, Basingstoke, Hampshire.

Our brains in the air-our feet on the ground

Aeronautical Journal May 1973



Anglo/French Jaguars on test at British Aircraft Corporation, Warton.

Leadership in the military field with Jaguar, the most cost-effective tactical support aircraft in production today with MRCA, Europe's most important and advanced military aircraft.... with Strikemaster, already chosen by nine nations for ground attack and training.... with Rapier, which has revolutionised missile defence against treetop height attack.... with Swingfire, which has neutralised armoured attack with Seawolf, the new surface-to-air missile and with Skua, the latest helicopter-borne missile system. Leadership, too, in many Space and satellite projects and leadership in transport aircraft with Concorde, which will halve the world in size with the One-Eleven 475, which brings mainline jet service to the small fields, and with Europlane, which will bring the boon of quietness to the world's airports.

British Aircraft Corporation is also the leader in European collaboration – *Jaguar* is designed and built with Dassault/Breguet of France, *MRCA* with MBB of Germany and Aeritalia of Italy, *Concorde* with Aérospatiale of France, and *Europlane* with Saab-Scania of Sweden, CASA of Spain and MBB.

