

aviation intelligence

Avcar First Flight

According to U. S. sources, Avro Aircraft Co. will fly its secrecy-shrouded Avcar on July 14. The so-called "flying saucer" project is being developed with U. S. Army funds.

Production Sharing Quiz

The Boeing Airplane Co., Seattle, Wash., has circulated a reply-paid folding card among some Canadian aviation manufacturing companies, seeking information as to the size, ownership and product of their plants. This information is required under U. S. armed services procurement regulations, so that the status of contractors or subcontractors may be determined in regard to the small business set aside.

H.P. Heralds For B.E.A.

Negotiations have begun for the purchase of Handley Page Herald aircraft (two Rolls-Royce Dart turboprops) by British European Airways. No number is quoted, but deliveries will be completed in May next year.

Ducted Fan Development

Details are released of a new ducted fan type engine being developed by Bristol Siddeley Engines Ltd., in Britain. Designated the BE 53 lift thrust engine, the new project is designed to provide both direct lift, and thrust for forward flight. An extremely high thrust/weight ratio—higher than that of any existing turbojet—is claimed. Bristol Siddeley say the engine makes possible the design of very high speed aircraft both with VTOL and STOL characteristics. The BE 53 has a high bypass ratio, making for low specific fuel consumption and high take-off performance, compared with pure jets, without the high speed limitations of the turboprop. Take-off thrust is reported to be of the same order as the Bristol Olympus.

U.S.-Calgary Air Routes

Following the inauguration of Western Air Lines' transborder service to Calgary, Alta., last month, the airline may get permission to operate the Calgary-Spokane route. Western's application for this is presently before the Civil Aeronautics Board, along with those of Northwest, Frontier, West Coast and United Air Lines.

Million-Pound Thrust Rocket

Aerojet General Corp., subsidiary of the General Tire and Rubber Co., of California, is investing \$250,000 in the world's biggest "firework." Study is for a solid fuel rocket motor that will develop one million pounds of thrust—nearly four times as powerful as any solid fuel rocket motor known in the West. Unit could serve as the first stage of a missile capable of lifting payloads in excess of 1,000 lb. into orbit. President Dan A. Kimball said the study was a preliminary to developing rockets having up to 15 million pounds' thrust.

Improved Bloodhound For U. K.

An improved Bristol/Ferranti Bloodhound surface to air missile is being ordered by the RAF for the defence of Britain. A developed version of the missile currently in service, the new Bloodhound is slated to have a "substantially increased range and altitude" but no performance figures have been released for either mark.

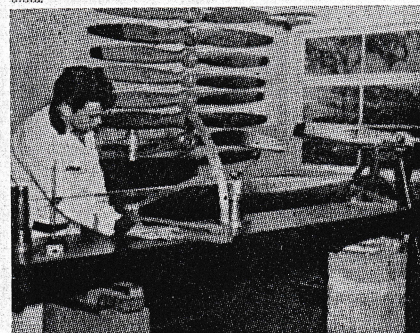
Research Tunnel Plan

A Mach 4.5 wind tunnel is to be constructed and operated by the National Aeronautical Establishment at Uplands, Ottawa. Air speeds of more than 1,500 mph will be generated for research into problems of supersonic flight.

Performance proved in Flight



More than 25 years of design and manufacturing experience in building 400,000 propellers for light aircraft—Sensenich—the famous winged trade mark found more often than any other on aircraft, on the ground, in the air, any time, anywhere.



When your prop needs overhaul or repair send it to Leavens where factory trained men will return it to you to give you again "like new" efficient service.

LEAVENS BROS
LIMITED

3220 Dufferin St. Toronto 10