



## REFUELLING IN FLIGHT...

**INCREASES PAYLOADS**, thus multiplying the earning capacity of long-distance airliners.

**ELIMINATES** hazardous heavily laden take-offs.

**DISPENSES** with landings for fuelling purposes.

**MINIMISES** wear and tear.

**REDUCES** operating costs.

**IT IS SIMPLE, CERTAIN, SAFE.**

It has been **TESTED AND PROVED** during ten years of constant research and it made possible, during the war years, the carriage of worth-while bomb loads on otherwise impossible missions. It can now be carried out daily in all parts of the world just as well at 200 ft. as at 25,000 ft. above sea level.

**PASSENGERS** are unaware that refuelling is taking place and the **FREEDOM OF ACTION** of the Receiver aircraft is unrestricted from start to finish.

**WEATHER CONDITIONS** need not interfere as refuelling can be carried out in storm and cloud conditions, or a more favourable rendezvous can be arranged.

**REFUELLING BY NIGHT** is as easy as by day, special lighting arrangements providing ideal forming conditions for the tanker pilot.

**FIRE RISKS DO NOT ARISE** because (a) electrical potentials are equalized by initial contact between the Tanker and Receiver aircraft lines at least 200 ft. from each aircraft; (b) the two aircraft remain automatically bonded by the hose whilst fuelling; (c) the whole system is inhibited by inert gas before and after fuel is passed; (d) the reception coupling is automatically flooded with methyl bromide as the nozzle leaves it.

**INTERCEPTION** is certain because all Tanker aircraft are fully equipped with the requisite Radar which enables interception to be made under any conditions.

**CONTACT IS CERTAIN.** Three factors only are involved: two of them, the angle of the Receiver aircraft's trailing line and the firing angle and elevation of the fixed line-thruster aboard the Tanker are constant; the third, the position of the Tanker at the time the line is fired is the only factor dependent upon the human element and this position has a margin of error of 1,000 ft.—more than sufficient to secure certainty.

FLIGHT REFUELLING LIMITED



LITTLEHAMPTON, SUSSEX, ENGLAND