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Part II. Dealing with Some New Facts and Figures of the Bristol Freighter

The vertically hinged cargo load-

ing doors in the nose of the Bristol

Freighter.

A TWIN-ENGINED high-wing monoplane of all-metal construction—a cargo hold of really generous dimensions, and a fixed (i.e., non-retracting) undercarriage. That is the Bristol Type 170. The engines are Bristol New Perseus nine-cylinder sleeve-valve radials rated at 1,175 b.h.p. for take-off. Any alternative engine in the 1,200 h.p. class can also be fitted.

This aircraft has been designed for the special job of carrying cargo in the most economical manner. We have seen the detail drawings and design data. The construction throughout is very simple, straightforward and robust. There are no power electrics or hydraulics unless one counts the airscrew mechanism. The aircraft is intended for operation from small landing grounds. Its optimum payload is nearly 5 tons. The freight cabin is so big that a standard 3-ton lorry can be driven up a ramp into it. The lorry could even be flown to its destination already loaded with goods. Rapid loading and unloading of heavy cargo is

assured by the provision of wide doors, a built-in overhead trane, and an unobstructed hold.

The wing is built in three main sections with the transport joints just outboard of the engine nacelles. As on the Blenheim, Beaufort and Beaufighter, two-spar construction with a stressed-skin covering is used. It is claimed that this method is fundamentally more robust than true monocoque, and is easier to repair. Two fuel tanks of 300 gallons capacity each are slung between the spars in

board of the engines. Although the tanks are high enough to give gravity feed to the carburettors, electric fuel pumps are provided to avoid any possibility of vapour locks developing in hot weather. The system is designed for pressure refuelling. Split flaps are employed, hydraulically operated by hand pump from the pilot's cabin.

The oil cooler is placed at bly, with the tank lower cooler drains into the tank

the top of the assemdown, so that the when the engine is