



ROLLS-ROYCE

SOAR

TURBO-JET  
AERO-ENGINES





## THE ROLLS ROYCE SOAR

This recently announced addition to the Rolls-Royce River Class of turbine engines has been designed for installations requiring a compact low drag power unit, where high performance counts more than long life.

How effectively this has been achieved in the Soar is reflected in the figures for thrust per lb. weight and thrust per square foot of frontal area which are given in the table opposite.

Although less than 16 inches in diameter and weighing only 275 lb. complete with air intake, the Soar is rated at a thrust of 1,810 lb. The photograph of two of these engines on the wing tips of a Gloster Meteor illustrates how the small diameter of the engine belies its power output—the total thrust of the two Soars exceeds that of the Derwent in each main nacelle.

A feature of the design contributing to the small frontal area of the installation is the smooth contour of the outer casing of the engine which makes the normal engine cowlings unnecessary, the installed diameter and weight being those of the engine itself.



## Leading Particulars

Thrust	..	..	..	..	..	1,810 lb
Weight (with air intake)	..	..	..	..	..	275 lb.
Diameter installed	..	..	..	..	..	15.8 in.
Power/weight	..	..	..	6.58 lb. thrust	per lb. weight	
Weight/power	..	..	..	0.152 lb. weight	per lb. thrust	
Power/frontal area	..	..	..	1,326 lb. thrust	per sq. ft.	



# ROLLS-ROYCE

*Aero*  
ENGINES

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