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REPORT

NO. 61

HOT GAS TURBINE STARTER COMPOSITE OUTLINE DRAWINGS



PREPARED BY

Committee A-17, Starters

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SOCIETY OF AUTOMOTIVE ENGINEERS, INC.
485 Lexington Ave. New York 17, N. Y.

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HOT GAS TURBINE STARTER COMPOSITE OUTLINE DRAWINGS

1. PURPOSE: To provide illustrations of the general shape and size of various hot gas turbine starters being manufactured for jet engine applications. The outline drawings are intended for general use by engine, aircraft, and equipment designs in ascertaining the space requirements for this type of equipment. In the event of critical clearance problems, the specific starter manufacturers should be contacted for the latest outline drawings.
2. SCOPE: Representative starter models have been shown on the outline drawings with the maximum outline dimensions shown. Since these drawings will change over a period of time and complete detail is not shown, it is not possible to make a detailed mock-up of any specific starter. These drawings are intended to provide information concerning the general space requirement for hot gas turbine starters, and could be used to manufacture a composite mock-up to indicate roughly the space required on a new engine design.
3. STARTER MANUFACTURERS: The manufacturers of the starters illustrated on these drawings are listed for identification purposes only. This is done to facilitate further investigation of detailed outline dimensions.
4. INSTALLATION AND REMOVAL SPACE: These drawings show starter outline dimensions only. Clearance for installation and removal should be considered in establishing the space envelope required.
5. CLASSIFICATION OF STARTERS: In order to group together starters capable of doing approximately the same job, the following criteria were used in the classification of the starters.
 - a. Type of Energy System Used:

Solid propellant cartridge starters and fuel-air combustion starters are available and must be separated because installation problems are not necessarily common.
 - b. Output of Starters:

The stall torque, cutout speed define the capabilities of the starter.
6. MOUNTING PROVISIONS: Mounting flanges on starters are in accordance with military standards, and specification numbers of these have been included to provide all available information.
7. QUICK ATTACH-DETACH PROVISIONS: All starters shown on the drawings include this feature as required by specifications. Detailed information concerning the dimensions of this feature and the necessary removal clearance should be obtained from the manufacturer when required.

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