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Superseding ARP587B

Balancing Machines - Description and Evaluation
Horizontal, Two-Plane, Soft-Bearing Type
for Gas Turbine Rotors

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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FOREWORD

The prior A version of this document achieved wide acceptance and use around the world by turbine engine manufacturers and overhaulers. The extensive application of this ARP resulted in some suggestions for improvements that are addressed by this B revision of the document.

To make the document more user friendly, the structure has been rearranged and explanatory text added. The requirement for outboard proving rotors has been deleted, along with the associated tests. Duplications of certain other tests have been eliminated. The format of all tests has been standardized, and the requirements for each test together with the test procedure consolidated into a single section of the document. End-drive interface dimensions have been harmonized with those in ARP1382, and specifications for work support envelopes and rotor enclosure mounting pads deleted. Capacities and dimensions for three smaller classes of machines have been added to take into account the requirements of the small turbine engine, accessory, and missile industries.

ARP1340 (Periodic Surveillance Procedure for Horizontal Balancing Machines) has been incorporated into Section 10 herein.

TABLE OF CONTENTS

1.	SCOPE.....	3
2.	PURPOSE.....	3
3.	CONFORMANCE REQUIREMENTS.....	4
4.	CAPACITY AND DIMENSIONAL REQUIREMENTS.....	4
5.	PROVING ROTORS.....	6
6.	TEST MASSES.....	7
7.	GENERAL TEST CONDITIONS.....	8
8.	RECHECKS AND COMPLETE TEST REPETITION.....	9
9.	PERFORMANCE TEST AND TEST LOGS.....	9
10.	PERIODIC TEST PROCEDURES.....	18
11.	POLAR GRAPH.....	19
12.	OVERLAY.....	20
Appendix A - Drawings.....		21
Appendix B - Definitions of Symbols and Terms.....		30
Appendix C - Contractual Requirements.....		36
Appendix D - Bibliography.....		37