

Submitted for recognition as an American National Standard

Issued 1993-09
Revised 1998-01
Reaffirmed 2011-07

Superseding ARP4162

Balancing Machine Proving Rotors

1. SCOPE:

This SAE Aerospace Recommended Practice (ARP) specifies a series of balancing machine proving rotors and related test weights as directly required for the evaluation of gas turbine rotor balancing machines.

1.1 Purpose:

Provides the recommended design for the construction of balancing machine proving rotors.

2. REFERENCES:

2.1 Applicable Documents:

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

| | |
|---------|--|
| ARP1382 | Design Criteria for Balancing Machine Tooling |
| ARP4048 | Balancing Machine - Description and Evaluation Horizontal, Two-plane, Hard-bearing Type for Gas Turbine Rotors |
| ARP4050 | Balancing Machine - Description and Evaluation Vertical, Two-plane, Hard-bearing Type for Gas Turbine Rotors |

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3. DETAIL REQUIREMENTS:

- 3.1 All proving rotors and related test masses required per ARP4048 or ARP4050 shall be as specified in Appendix A.

The user procurement specification shall clearly indicate type and weight class of proving rotor, e.g., vertical, 25 lb rotor.

4. NOTES:

4.1 Dimensions:

Unless otherwise specified, all dimensions are in inches, rotor weights are in pounds, and test masses are in ounces and grams.

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PREPARED BY SAE SUBCOMMITTEE EG-1A, BALANCING
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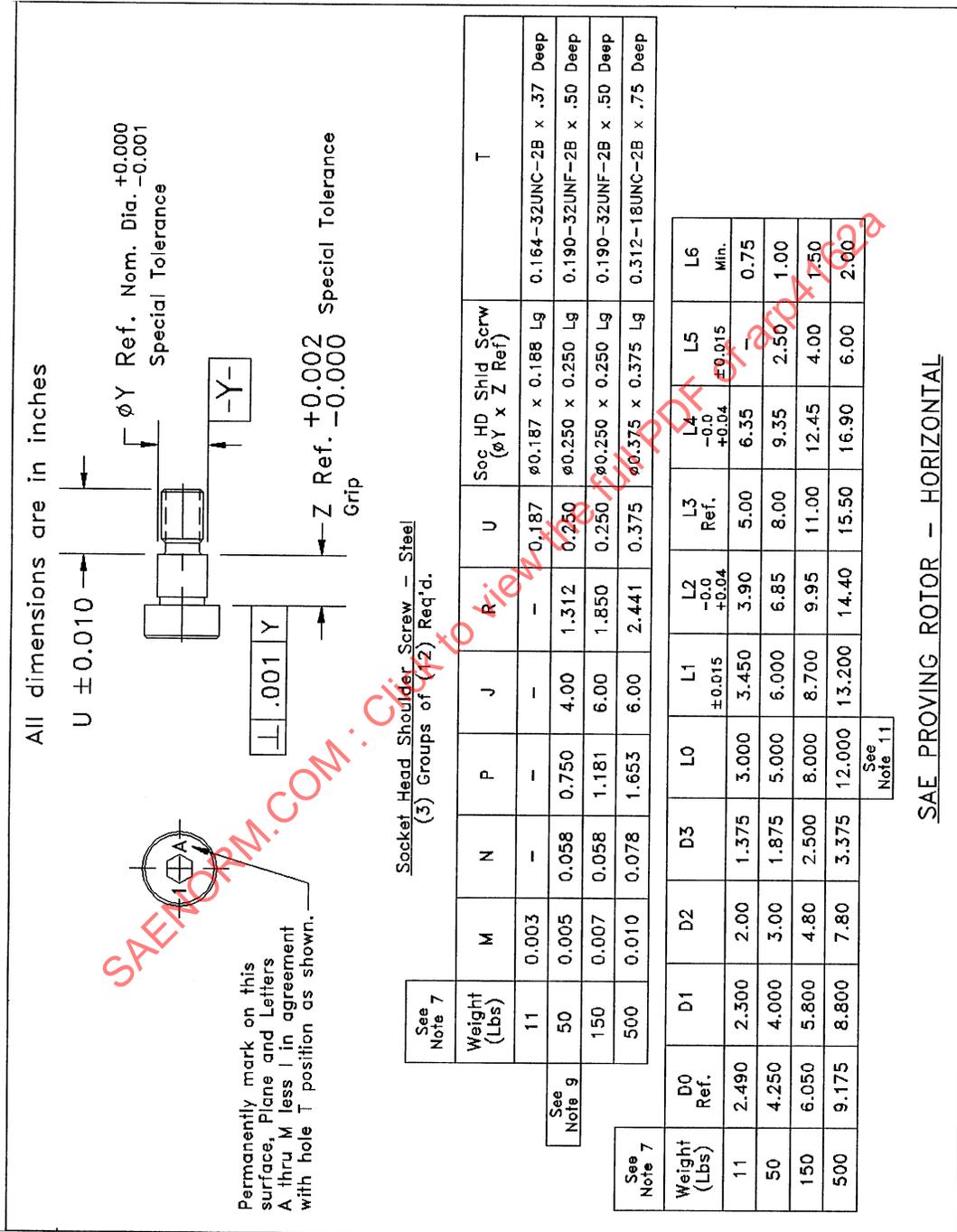


FIGURE A1 (Continued)

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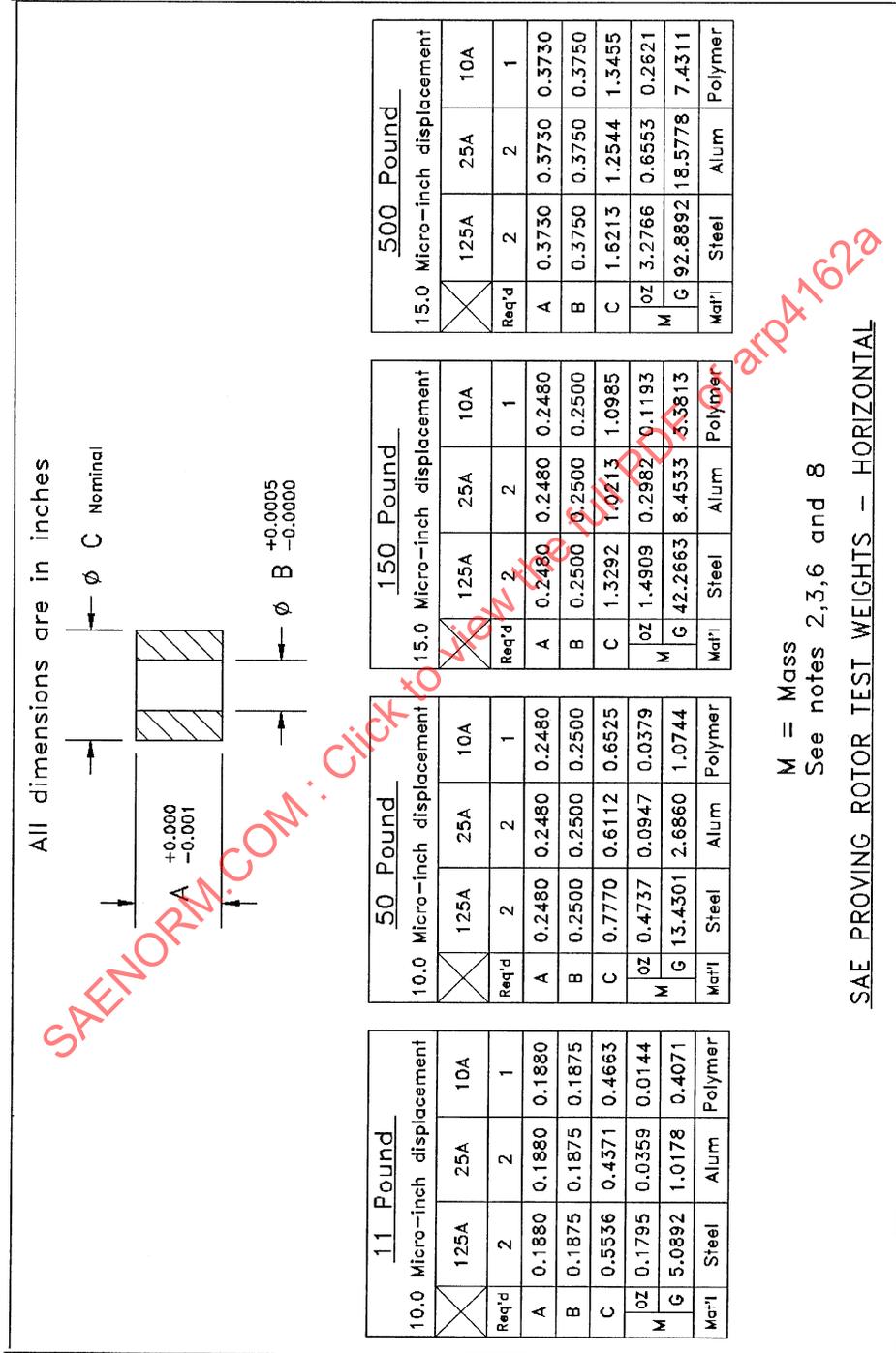


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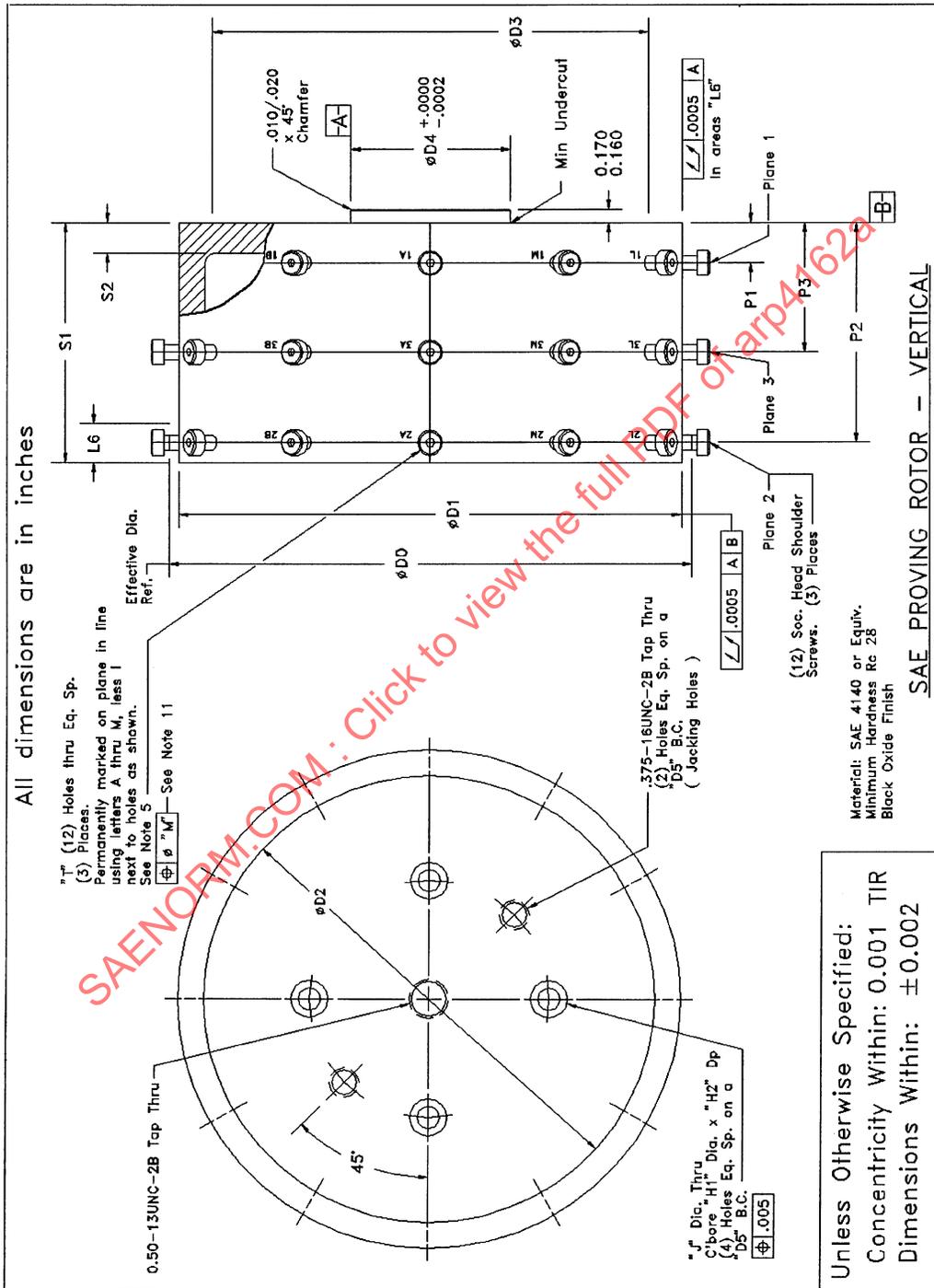


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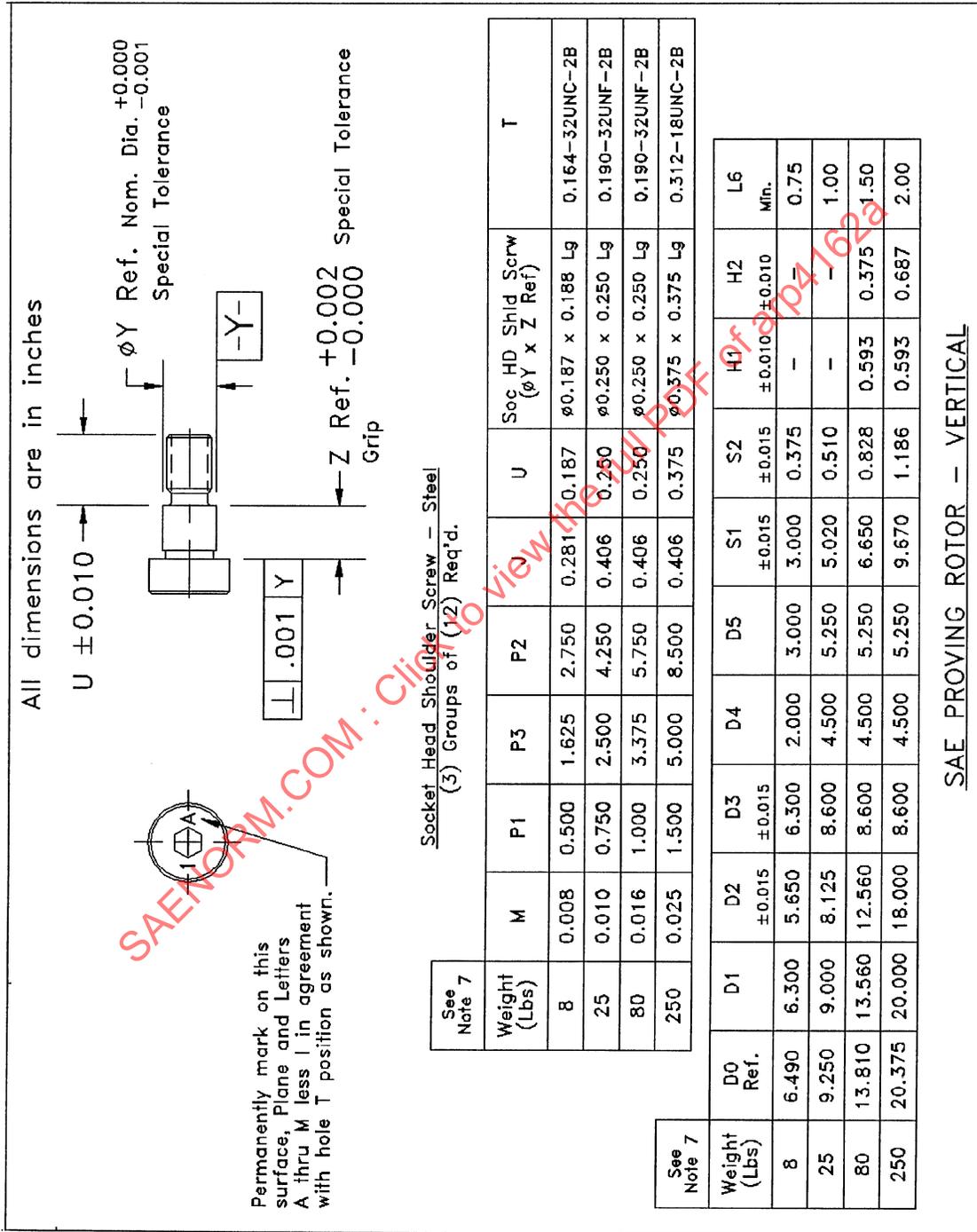


FIGURE A1 (Continued)