

ANSI/ASAE S331.7 DEC2020
Implement Power Take-Off Drive Shaft Specifications



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Implement Power Take-Off Drive Shaft Specifications

Proposed by the Engineering Policy Committee of the Farm and Industrial Equipment Institute; approved by the ASAE Power and Machinery Division Standards Committee; adopted by ASAE as a Recommendation December 1969; reaffirmed December 1970; revised December 1971, December 1972; reaffirmed December 1976; reclassified as a Standard March 1978; revised March 1981; approved as an American National Standard December 1982; reaffirmed December 1985; revised February 1990, revision approved by ANSI April 1991; revised March 1995, revision approved by ANSI January 1996; reaffirmed June 2000, March 2005, February 2010; revised August 2015, December 2020.

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1 Purpose

1.1 The purpose of this Standard is to establish multiple categories of power take-off (PTO) drive shafts, each with a regular duty subset and a heavy duty subset.

1.2 A PTO drive shaft is intended for use to transmit rotational mechanical power from a tractor PTO to an implement power input connection (PIC) or from a self-propelled machine PTO to a header/attachment PIC. A PTO drive shaft is also intended for use in any drive shaft application within an implement. A PTO drive shaft is considered part of an implement.

1.3 This Standard does not provide for dimensional interchangeability from one implement to another.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ANSI/ABMA 11-2014, Load Ratings and Fatigue Life for Roller Bearings

3 Requirements

3.1 Seals used shall not be subject to damage from over-lubrication.

3.2 A PTO drive shaft that requires lubrication shall be designed to permit lubrication of all sides of the telescoping members.

3.3 Provisions shall be made in the telescoping members to assure correct phasing of the universal joints.