

ASAE S361.3 APR1990 (R2015)
Safety for Portable Agricultural Auger Conveying Equipment



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Proposed by the Auger Safety Committee of Farm and Industrial Equipment Institute; approved by ASAE Power and Machinery Division Standards Committee; adopted by ASAE as a Tentative Standard February 1973; reaffirmed December 1973; revised February 1975; reaffirmed December 1975, December 1976, December 1977, December 1978, December 1979, December 1981, December 1982; revised December 1983; reaffirmed December 1984; reaffirmed and reclassified as a full Standard December 1985; revised April 1990; reaffirmed December 1994, December 1999, February 2005; periodic review extension for one year approved April 2009; reaffirmed January 2011, December 2015.

Keywords: Auger, Conveying, Guarding, Safety, Safety signs

1 Purpose

1.1 The purpose of this Standard is to provide for a reasonable degree of personal safety for operators and other persons during normal operation of auger conveying equipment used to convey agricultural materials on farms.

1.2 In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, and prudence of personnel involved in the operation, transport, maintenance and storage of equipment or in the use and maintenance of facilities.

2 Scope

2.1 This Standard covers only portable farm augers and their related accessories designed primarily for conveying agricultural materials on farms. For definitions see ASAE Standard S374, Terminology and Specification Definitions for Agricultural Auger Conveying Equipment.

2.2 American National Standards ANSI/ASME B15.1, Safety Standard for Mechanical Power Transmission Apparatus, and ANSI/ASME B20.1, Safety Standard for Conveyors and Related Equipment, do not apply to agricultural auger conveying equipment.

3 Electrical Specifications

3.1 Conductors, connectors and grounding. The path to ground from motors, controls and electrical enclosures shall be continuous; shall have ample carrying capacity to conduct safely any currents liable to be imposed on it; and shall have impedance sufficiently low to limit the potential aboveground and to facilitate operation of control and over-current devices in the circuit. Where separable connectors are used, the grounding conductor shall be the first to make contact and the last to break contact. Motor disconnect switches and conductor cables shall comply with ANSI/NFPA Standard 70, National Electrical Code, and any local codes which apply.

3.1.1 Flexible cords and cables may be used. Ratings of separable connectors and conductors shall be at least as great as motor-running current rating for motor leads, and at least as great as control current rating for control leads. Separable connectors shall be constructed and installed to guard against inadvertent contact with live parts.