ANSI/ASABE S619 DEC2013
Safety for Tractor-Mounted, Boom-Type Post Hole Diggers

American Society of Agricultural and Biological Engineers

STANDARD

ASABE is a professional and technical organization, of members worldwide, who are dedicated to advancement of engineering applicable to agricultural, food, and biological systems. ASABE Standards are consensus documents developed and adopted by the American Society of Agricultural and Biological Engineers to meet standardization needs within the scope of the Society; principally agricultural field equipment, farmstead equipment, structures, soil and water resource management, turf and landscape equipment, forest engineering, food and process engineering, electric power applications, plant and animal environment, and waste management.

NOTE: ASABE Standards, Engineering Practices, and Data are informational and advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. The ASABE assumes no responsibility for results attributable to the application of ASABE Standards, Engineering Practices, and Data. Conformity does not ensure compliance with applicable ordinances, laws and regulations. Prospective users are responsible for protecting themselves against liability for infringement of patents.

ASABE Standards, Engineering Practices, and Data initially approved prior to the society name change in July of 2005 are designated as "ASAE", regardless of the revision approval date. Newly developed Standards, Engineering Practices and Data approved after July of 2005 are designated as "ASABE".

Standards designated as "ANSI" are American National Standards as are all ISO adoptions published by ASABE. Adoption as an American National Standard requires verification by ANSI that the requirements for due process, consensus, and other criteria for approval have been met by ASABE.

Consensus is established when, in the judgment of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made toward their resolution.

CAUTION NOTICE: ASABE and ANSI standards may be revised or withdrawn at any time. Additionally, procedures of ASABE require that action be taken periodically to reaffirm, revise, or withdraw each standard.

Copyright American Society of Agricultural and Biological Engineers. All rights reserved.

ASABE, 2950 Niles Road, St. Joseph, MI 49085-9659, USA, phone 269-429-0300, fax 269-429-3852, hq@asabe.org

Documents
Document Sharing Hub

Copyright American Society of Agricultural and Biological Engineers
Provided by IHS Markit under license with ASABE
No reproduction or networking permitted without license from IHS
Full document details: ASAE S619 2013

Licensee=/, User=,
Not for Resale,

ANSI/ASABE S619 DEC2013
Approved March 2014 as an American National Standard

Safety for Tractor-Mounted, Boom-Type Post Hole Diggers

Reviewed by the Post Hole Digger Council of the Farm Equipment Manufacturers Association; approved by the ASABE Ergonomics, Safety and Health Division; Agricultural Safety Committee; adopted by ASABE December 2013; approved by ANSI as an American National Standard March 2014.

Keywords: Auger, Guarding, Post hole digger, Safety, Tractor

1 Purpose

The purpose of this Standard is to establish the safety requirements for tractor-mounted, boom-type post hole diggers.

2 Scope

2.1 This Standard applies to boom-type post hole diggers designed and intended for digging vertical, cylindrical holes.

2.2 This Standard applies to boom-type post hole diggers designed for attachment to the three-point hitch of agricultural tractors as specified in ASAE S390, equipped with Category I or Category II three-point linkage as specified in ASAE S217, and powered by a 540-rpm power take-off or by the agricultural tractor's hydraulic power.

3 Normative References

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

ANSI/ASABE AD500-1:2004 W/Cor.1 OCT2011 Agricultural tractor — Rear-mounted power take-off types 1, 2 and 3 — Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone

ASABE/ISO 500-2:2004 DEC2010 Agricultural tractors — Rear-mounted power take-off types 1, 2 and 3 — Part 2: Narrow-track tractors, dimensions for master shield and clearance zone

ASABE/ISO 500-3:2004 DEC2010 Agricultural tractors — Rear-mounted power take-off types 1, 2 and 3 — Part 3: Main PTO dimensions and spline dimensions, location of PTO

ANSI/ASABE AD8759-1:1998 DEC2010 Agricultural wheeled tractors — Front-mounted equipment — Part 1: Power take-off and three-point linkage

ANSI/ASABE AD8759-2:1998 DEC2010 Agricultural wheeled tractors — Front-mounted equipment — Part 2: Stationary equipment connection

ASAE S207.12 MAR1994 (R2009) Operating Requirements for Tractors and Power Take-off Driven implements.

Documents
Document Sharing Hub
Copyright American Society of Agricultural and Biological Engineers
Provided by IHS Markit under license with ASABE
No reproduction or networking permitted without license from IHS
Licensee=/, User=,
Not for Resale,
Full document details: ASAE S619 2013

ASAE S217.12 DEC2001 (ISO 730-1:1994) (R2007) Three-point free-link attachment for hitching implements to agricultural wheel tractors.

ANSI/ASAE S279.16 FEB2012 Lighting and Marking of Agricultural Equipment on Highways.

ASAE S304.8 MAY2006 (R2010) Graphical Symbols for Operator Controls and Displays on Agricultural Equipment.

ANSI/ASAE S318.17 JUN2009 Safety for Agricultural Field Equipment.

ASABE/ISO 15077:2008 OCT2008 Tractors and self-propelled machinery for agriculture — Operator controls — Actuating forces, displacement, location and method of operation.

ASAE EP363.1 DEC1982 (R2008) Technical Publications for Agricultural Equipment.

ASAE S390.5 JAN2011 Definitions and Classifications of Agricultural Field Equipment.

ANSI/ASABE AD11684:1995 (APR2011) Tractors, machinery for agricultural and forestry, powered lawn and garden equipment — Safety signs and hazard pictorials — General principles

ANSI/ASAE S493.1 JUL03 (R2008) Guarding for Agricultural Equipment.

ANSI/ASABE S604 JUN09, Safety for Power Take-off (PTO), Implement Input Driveline (IID), Implement Input Connection (IIC), and Auxiliary Power Take-off (aux. PTO) for Agricultural Field Equipment.

ANSI/ASAE S522 (ISO 5674:2004) (R2009) Tractors and machinery for agricultural and forestry —Guards for power take-off drive shafts — Strength and wear tests and acceptance criteria

ISO 2332 Agricultural tractors and machinery — Connection of implements via three-point linkage — Clearance zone around implement

SAE J517 JUN96 Hydraulic Hose.

SAE J1360 SEP87 Product Identification Numbering System of Off-Road Work Machines.

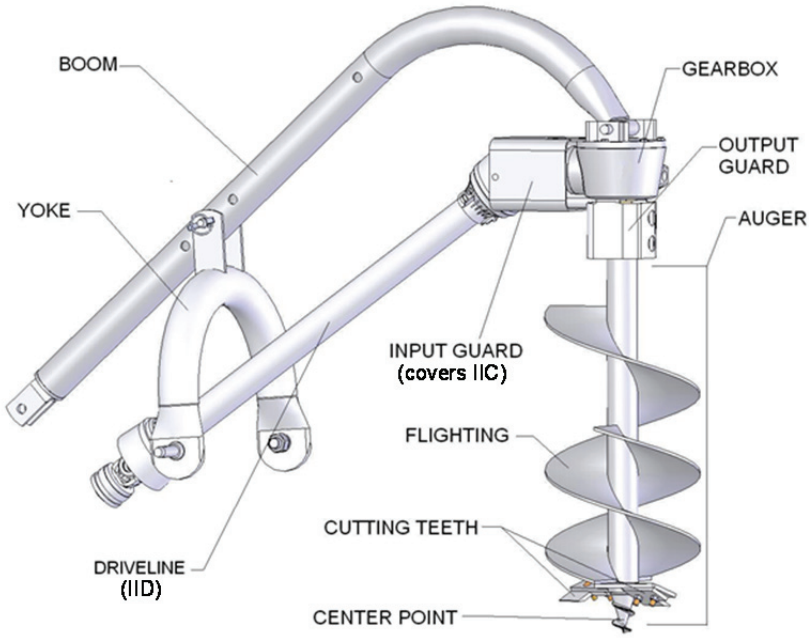

Figure 1 – Typical PTO configuration of boom-type post hole digger

Documents Document Sharing Hub
Copyright American Society of Agricultural and Biological Engineers
Provided by IHS Markit under license with ASABE
No reproduction or networking permitted without license from IHS
Licensee=/, User=,
Not for Resale,
Full document details: ASAE S619 2013