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Terminology and Specification Definitions for Agricultural Auger Conveying Equipment

American Society of Agricultural and Biological Engineers

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Proposed for the Auger and Elevator Manufacturers Council of the Farm and Industrial Equipment Institute; approved by the ASAE Power and Machinery Division Standards Committee; adopted by ASAE March 1975; reaffirmed December 1979, December 1984, December 1989; revised editorially September 1990; reaffirmed December 1990; December 1995, January 2001, February 2006; January 2011, December 2015.

Keywords: Auger, Conveying, Definitions

1 Purpose and Scope

1.1 The purpose of this Standard is to provide uniform terminology, performance specifications and dimensional specifications for portable farm augers and their related accessories designed primarily for conveying agricultural materials on farms.

2 Performance Specifications

2.1 Capacity. The capacity of units shall be expressed in bushels per hour (one bushel = 1.244 cubic feet) or liters per hour.

2.2 Power. The power requirements shall be expressed in horsepower or watts.

3 Dimensional Specifications (See Figure 1)

3.1 auger length: The length of the tube assembly including any intake but not including any intake hopper or head drive components (dimension A)

3.2 intake length: The length of the visible flighting with the control gate (if unit is so equipped) in the full open position (dimension B)

3.3 transport angle: The angle included between the auger tube and the ground when the unit is in the lowest recommended transport position and with hitch on the ground (dimension C)

3.4 maximum operating angle: The angle included between the auger tube and the ground when the unit is in the highest recommended operating position, and with the hitch on the ground (dimension D)

3.5 auger size: The outside diameter of the auger tube (dimension E)

3.6 reach at maximum height: The horizontal distance from the foremost part of the undercarriage to the center of the discharge end when the unit is at the maximum recommended operating angle with hitch on ground (dimension F)

3.7 maximum lift height: The vertical distance from the ground to the lowest point of the discharge (excluding down spout attachments) when the unit is raised to the maximum recommended operating angle and with the hitch on the ground (dimension G)

3.8 Transport height: The vertical distance from the ground to the uppermost portion with the unit in the lowest transport position and with the hitch on the ground (dimension H)

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