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ASABE/ISO 6689:2021 SEP2022

Approved as an American National Standard September 2022

Equipment for harvesting — Combine harvesters and functional components — Vocabulary

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This standard was reviewed and approved for adoption (ISO 6689:2021) by the ASABE Machinery System Harvest and Grain Harvesting subcommittees. Approved as an ASABE standard and approved by ANSI September 2022.

History of ANSI/ASAE S343.4, Terminology for Combines and Grain Harvesting; Developed by the ASAE Grain Harvesting Committee; approved by the Power and Machinery Division Standards Committee; adopted by ASAE as a Tentative Standard February 1971; reclassified as a full Standard December 1971; reaffirmed December 1977; revised April 1981; reaffirmed December 1985; revised March 1988; approved as an American National Standard August 1988; revised April 1990; revision approved by ANSI January 1991; revised editorially March 1991; reaffirmed December 1994; revised editorially February 1995; reaffirmed December 1995, December 1996; reaffirmed by ANSI March 1998; reaffirmed by ASAE December 2001; reaffirmed March 2004, February 2009; editorial revision and reaffirmed January 2014; revised June 2015; reaffirmed December 2019. Replaced with identical adoption of ISO 6689:2021 September 2022.

Keywords: Auger, Combine, Crops, Cylinder, Definition, Feed, Feed rates, Grain, Harvest, Harvester, Header, Rotor, Separator, Terminology, Threshing

0 Foreword

0.1 ASABE/ISO 6689:2021 SEP2022, Equipment for harvesting — Combine harvesters and functional components — Vocabulary, is an adoption without modification of the identically titled ISO standard ISO 6689:2021, Equipment for harvesting — Combine harvesters and functional components — Vocabulary.

0.2 ASABE/ISO 6689:2021 SEP2022 specifies terms and definitions related to combine harvesters and their component parts. It identifies dimensions and other characteristics aimed at allowing comparison of operations of the component parts, in association with ISO 8210, which lays down methods of measuring characteristics and performance requirements for the terms defined.

0.3 No normative references are listed in ISO 6689:2021. The responsible ASABE committee has reviewed and approved no normative references for the identical adoption of the ISO 6689:2021, Equipment for harvesting — Combine harvesters and functional components — Vocabulary.

0.4 This standard has been approved as an American National standard by ANSI (American National Standard Institute). The original content of ISO 6689 was not based on ASABE content or developed material. Royalty payments to ANSI are due upon all sales.

Text of ISO 6689:2021, Equipment for harvesting — Combine harvesters and functional components — Vocabulary, follows.

1 Scope

This document specifies terms and definitions related to combine harvesters and their component parts. It identifies dimensions and other characteristics aimed at allowing comparison of operations of the component parts, in association with ISO 8210, which lays down methods of measuring characteristics and performance requirements for the terms defined.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1 Terms related to crops

3.1.1

grain damage

deteriorated kernels attributable to the machine, expressed as the percentage by mass, to one decimal place, of kernels in the sample

Note 1 to entry: The term “grain” covers the whole range of grains, seed, legumes and fruits which are capable of being recovered from crops by a combine harvester.

3.1.1.1

visible grain damage

grain damage (3.1.1) where the grain coat appears broken to the naked eye

Note 1 to entry: The term “grain” covers the whole range of grains, seed, legumes and fruits which are capable of being recovered from crops by a combine harvester.

3.1.1.2

invisible grain damage

grain damage (3.1.1) which requires instruments or special procedures for determination

Note 1 to entry: The term “grain” covers the whole range of grains, seed, legumes and fruits which are capable of being recovered from crops by a combine harvester.

3.1.2

unthreshed head

unthreshed grain

any head, pod, cob or part thereof from which all or part of the grain has not been detached

Note 1 to entry: The term “grain” covers the whole range of grains, seed, legumes and fruits which are capable of being recovered from crops by a combine harvester.

3.1.3

returns

tailings

material from the grain-cleaning mechanism which is recirculated for reprocessing