

ANSI/ASABE S639 JUN2016
Safety Standard for Large Row-Crop Flail Mowers



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Safety Standard for Large Row-Crop Flail Mowers

Developed by ASABE Harvest committee. Approved by the Machinery Systems Technical Community of ASABE. Approved by ASABE and ANSI June 2016.

Keywords: Flail, Mower, Row crop, Safety

1 Scope

This standard specifies the safety requirements and their verification for the design and construction of large row-crop flail mowers with a cutting width larger than 3 m and used exclusively in agricultural field applications and which have the rear part that can be opened for these particular field use operations. These machines may be equipped with adjustable material discharge gates or deflectors located on the rear of the mower. It describes methods for the elimination or reduction of hazards arising from the intended use and reasonably foreseeable misuse of these machines by one person (the operator) in the course of normal operation and service. In addition, it specifies the type of information on safe working practices to be provided by the manufacturer.

It is applicable only to mowers intended to work at ground level.

It is not applicable to flail mowers with less than 3 m in cutting width, and/or without the rear part that can be opened for particular field use operations, mowers with an articulated arm, pedestrian-controlled motor mowers, lawn mowers or machines specifically designed for highway and road maintenance.

2 Normative References

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

ISO 536:1995, Paper and board — Determination of grammage

ISO 789-1: 1990, Agricultural tractors — Test procedures — Part 1: Power tests for power take-off

ISO 1974: 1990, Paper — Determination of tearing resistance (Elmendorf method)

ISO 2758: 2001, Paper — Determination of bursting strength

ISO 3416: 1986, Textile floor coverings — Determination of thickness

ANSI/ASABE AD3600:2015, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Operator's manuals — Content and format

ISO 4254-1:2013, Agricultural machinery — Safety — Part 1: General requirements

ISO 5718:2013, Harvesting equipment — Blades for agricultural rotary mowers — Requirements