ASAE S301.5 SEP2012 R2016
Agricultural equipment — Front loaders — Dimensional and operational ratings

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Developed by the ASAE Farm Loader Subcommittee; approved by the ASAE Power and Machinery Division Technical Committee; adopted by ASAE as a Standard December 1966; revised editorially December 1969; reaffirmed December 1974; revised December 1975; reaffirmed December 1980; revised March 1982; reaffirmed December 1986, December 1991; revised January 1996; revised editorially March 1997; reaffirmed January 2001, December 2001, February 2005; revised February 2006; reaffirmed January 2011; revised September 2012; reaffirmed December 2016.

Keywords: Front-end, Loader, Tractor

1 Purpose

1.1 The purpose of this Standard is to define specifications for establishing dimensional and operational ratings for front-end agricultural loaders. Any specification published that is not in accordance with criteria of this Standard should be defined.

2 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.

ISO 7546:1983, Earth-moving machinery — Loader and front loading excavator buckets — Volumetric ratings

ASAE S390.5 JAN2011, Definitions and Classification of Agricultural Field Equipment

3 Description of equipment rated

3.1 Loader model: Specify manufacturer and model number.

3.1.1 Bucket: Specify size of material handling attachment.

3.1.1.1 Width: Overall outside width of bucket, in millimeters (inches).

3.1.1.2 Depth (L): Horizontal distance, in millimeters (inches), from tip of cutting edge to rearmost vertical inner face of bucket.

3.1.1.3 Height (M): Overall vertical height, in millimeters (inches), from bottom of bucket to top edge of bucket.

3.1.1.4 Length (N): Horizontal distance in millimeters (inches), from the tip of the cutting edge to the bucket pivot pin centerline.

3.1.1.5 Bucket weight: Specify mass of bucket in kilograms (pounds).

3.1.1.6 Capacity: Specify struck and rated capacities per ISO 7546:1983.

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