

Method of

Assessing, testing and reporting characteristics and performance of combine harvesters

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Agricultural Machinery and Implements Standards Policy Committee (AGE/-) to Technical Committee AGE/23, upon which the following bodies were represented:

- Agricultural Engineers' Association
- British Agricultural and Garden Machinery Association Ltd.
- Council of Scottish Agricultural Colleges
- Department of Agriculture and Fisheries for Scotland
- Flour Milling and Baking Research Association
- Health and Safety Executive
- Ministry of Agriculture, Fisheries and Food
- National Farmers' Union
- National Farmers' Union of Scotland
- National Institute of Agricultural Engineering
- National Union of Agricultural and Allied Workers
- Silsoe College
- Spring Research and Manufacturers' Association

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National foreword

This British Standard has been prepared under the direction of the Agricultural Machinery and Implements Standards Policy Committee and is identical with ISO 8210:1989 “*Equipment for harvesting — Combine harvesters — Test procedure*” prepared by Technical Committee ISO/TC 23, Tractors and machinery for agriculture and forestry, of the International Organization for Standardization (ISO).

Cross-references

International Standard	Corresponding British Standard
	BS 6347: <i>Performance assessment of agricultural tractors</i>
ISO 789-3:1982	Part 3:1983 <i>Method for determination of turning and clearance diameters</i> (Identical)
ISO 789-6:1982	Part 6:1983 <i>Method for determination of centre of gravity</i> (Identical)
ISO 3600:1981	BS 5401:1982 ^a <i>Guide for the presentation of operator manuals and technical publications dealing with tractors and machinery for agriculture and forestry</i> (Identical)
ISO 5687:1981	BS 6621:1985 <i>Method for determination of combine harvester capacity and unloading rate</i> (Identical)
ISO 5697:1982	BS 6384:1983 <i>Methods for determination of braking performance of agricultural and forestry vehicles</i> (Identical)

^a BS 5401 has been revised and is now only related to ISO 3600.

Technical Committee AGE/23 has reviewed the provisions of ISO 500:1979¹⁾; ISO 3767-1:1982; ISO 3767-2:1982; ISO 3789-1:1982; ISO 3789-2:1982; ISO 3965:1977²⁾; ISO 4254-1:1989; ISO/TR 5007:1980; ISO 5131:1982; ISO 5702:1983; ISO 6689:1981 to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. ISO 6095, to which reference is made in clause 2 and 6.2.2.1, has not yet been published.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ Now superseded by ISO 500:1991 which is identical to BS 5861:1992.
²⁾ Now superseded by ISO 3965:1990 which is identical to BS 5510:1991.

1 Scope

This International Standard specifies a test procedure for combine harvesters; it applies to all types of combine harvesters.

The test procedure specified in this International Standard deals with the measurement and testing of combine harvesters, either of self-propelled or trailed type, either directly cutting the crop or picking it up from a wind-row, for use in several crops. It indicates terminology and methods to be used for measuring important characteristics of combines. It includes both functional and capacity tests, i.e. those conducted over an extended period when ease of operation, ease of adjustment, rate of work and general operating characteristics may be assessed, and those carried out on specific occasions for the determination of grain loss and capacity characteristics.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 500:1979, *Agricultural tractors — Power take-off and drawbar — Specification.*

ISO 789-3:1982, *Agricultural tractors — Test procedures — Part 3: Turning and clearance diameters.*

ISO 789-6:1982, *Agricultural tractors — Test procedures — Part 6: Centre of gravity.*

ISO 3600:1981, *Tractors and machinery for agriculture and forestry — Operator manuals and technical publications — Presentation.*

ISO 3767-1:1982, *Tractors and machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays — Part 1: Common symbols.*

ISO 3767-2:1982, *Tractors and machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays — Part 2: Symbols for agricultural tractors and machinery.*

ISO 3789-1:1982, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Location and method of operation of operator controls — Part 1: Common controls.*

ISO 3789-2:1982, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Location and method of operation of operator controls — Part 2: Controls for agricultural tractors and machinery.*

ISO 3965:1977, *Agricultural wheeled tractors — Determination of maximum travel speed.*

ISO 4254-1:1989, *Tractors and machinery for agriculture and forestry — Technical means for ensuring safety — Part 1: General.*

ISO/TR 5007:1980, *Agricultural wheeled tractors — Operator seat — Measurement of transmitted vibration.*

ISO 5131:1982, *Acoustics — Tractors and machinery for agriculture and forestry — Measurement of noise at the operator's position — Survey method.*

ISO 5687:1981, *Equipment for harvesting — Combine harvester — Determination and designation of grain tank capacity and unloading device performance.*

ISO 5697:1982, *Agricultural and forestry tractors and machinery — Determination of braking performance.*

ISO 5702:1983, *Equipment for harvesting — Combine harvester component parts — Equivalent terms.*

ISO 6095:—, *Agricultural machinery — Self-propelled combine harvesters — Operator's workplace and ergonomics³⁾.*

ISO 6689:1981, *Equipment for harvesting — Combines and functional components — Definitions, characteristics and performance.*

3 Definitions

For the purposes of this International Standard, the terms and definitions given in ISO 5702 and ISO 6689 and the following definitions apply.

3.1

test machine

subject combine to be tested

3.2

comparison machine

other machine being tested, if applicable

³⁾ To be published.