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Machinery for forestry — Self-propelled machinery — Safety requirements

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11850 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 15, *Machinery for forestry*.

This second edition cancels and replaces the first edition (ISO 11850:1996), which has been technically revised.

Machinery for forestry — Self-propelled machinery — Safety requirements

1 Scope

This International Standard specifies safety requirements for common design aspects of mobile, ride-on, self-propelled forestry machines. It is applicable to fellers, bunchers, delimiters, forwarders, log loaders, skidders, processors, harvesters, and multi-function versions of these machine types, as defined in ISO 6814. It is not applicable to the optional attachments for these machines. It covers certain hazards common to forestry machinery, but does not, as a standard that addresses common requirements, deal with all the hazards (noise, vibration, thrown objects, etc.) which could exist on a particular machine. Its use will therefore not alone be sufficient to cover all significant risks for a majority of machines.

2 Normative references

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

ISO 2860, *Earth-moving machinery — Minimum access dimensions*

ISO 2867:1994, *Earth-moving machinery — Access systems*

ISO 3411:1995, *Earth-moving machinery — Human physical dimensions of operators and minimum operator space envelope*

ISO 3450, *Earth-moving machinery — Braking systems of rubber-tyred machines — Systems and performance requirements and test procedures*

ISO 3457, *Earth-moving machinery — Guards and shields — Definitions and specifications*

ISO 3471, *Earth-moving machinery — Roll-over protective structures — Laboratory tests and performance requirements*

ISO 3600, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Operator's manuals — Content and presentation*

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

ISO 3767-4, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays — Part 4: Symbols for forestry machinery*

ISO 3795, *Road vehicles, and tractors and machinery for agriculture and forestry — Determination of burning behaviour of interior material*

ISO 4254-4, *Tractors and machinery for agriculture and forestry — Technical means for ensuring safety — Part 4: Forestry winches*

ISO 5010:1992, *Earth-moving machinery — Rubber-tyred machines — Steering requirements*

ISO 6405-1, *Earth-moving machinery — Symbols for operator controls and other displays — Part 1: Common symbols*

ISO 6682, *Earth-moving machinery — Zones of comfort and reach for controls*

ISO 6683, *Earth-moving machinery — Seat belts and seat belt anchorages*

ISO 6750, *Earth-moving machinery — Operation and maintenance — Format and content of manuals*

ISO 6814, *Machinery for forestry — Mobile and self-propelled machinery — Terms, definitions and classification*

ISO 8082, *Self-propelled machinery for forestry — Roll-over protective structures — Laboratory tests and performance requirements*

ISO 8083, *Machinery for forestry — Falling-object protective structures — Laboratory tests and performance requirements*

ISO 8084, *Machinery for forestry — Operator protective structures — Laboratory tests and performance requirements*

ISO 9244, *Earth-moving machinery — Safety signs and hazard pictorials — General principles*

ISO 9533, *Earth-moving machinery — Machine-mounted forward and reverse audible warning alarm — Sound test method*

ISO 10263-2, *Earth-moving machinery — Operator enclosure environment — Part 2: Air filter test*

ISO 10263-5:1994, *Earth-moving machinery — Operator enclosure environment — Part 5: Windscreen defrosting system test method*

ISO 10532, *Earth-moving machinery — Machine mounted retrieval device — Performance requirements*

ISO 10533, *Earth-moving machinery — Lift-arm support devices*

ISO 10570, *Earth-moving machinery — Articulated frame lock — Performance requirements*

ISO 11112, *Earth-moving machinery — Operator's seat — Dimensions and requirements*

ISO 11169, *Machinery for forestry — Wheeled special machines — Vocabulary, performance test methods and criteria for brake systems*

ISO 11512, *Machinery for forestry — Tracked special machines — Performance criteria for brake systems*

ISO 11684, *Tractors and machinery for agriculture and forestry, powered lawn and garden equipment — Safety signs and hazard pictorials — General principles*

ISO 13766, *Earth-moving machinery — Electromagnetic compatibility*

ISO 13852:1996, *Safety of machinery — Safety distances to prevent danger zones being reached by the upper limbs*

ISO 14269-4, *Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment — Part 4: Air filter element test method*

ISO 14982, *Agricultural and forestry machinery — Electromagnetic compatibility — Test methods and acceptance criteria*

ISO 15078, *Machinery for forestry — Log loaders — Location and method of operation of two-lever operator controls*