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Mobile elevating work platforms — Safety requirements, inspection, maintenance and operation

Plates-formes élévatrices mobiles de personnel — Exigences de sécurité, inspection, entretien, mise en oeuvre et utilisation

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Contents

| | |
|--|----|
| Foreword..... | iv |
| 1 Scope | 1 |
| 1.1 Technical safety requirements..... | 1 |
| 1.2 This standard applies to MEWPS to achieve the following objectives:..... | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 General Requirements | 3 |
| 4.1 Basic principles | 3 |
| 4.2 Manuals..... | 3 |
| 4.3 Record retention | 3 |
| 4.4 Modifications..... | 4 |
| 5 Maintenance | 4 |
| 5.1 Maintenance | 4 |
| 5.2 Inspection and maintenance | 4 |
| 5.3 Frequent inspection | 4 |
| 5.4 Annual inspection..... | 5 |
| 5.5 Pre-start inspection..... | 5 |
| 5.6 Maintenance safety precautions..... | 5 |
| 5.7 Maintenance training..... | 5 |
| 5.8 Replacement parts..... | 6 |
| 5.9 Manufacturer's safety bulletins..... | 6 |
| 6 Operation | 6 |
| 6.1 Operator Training..... | 6 |
| 6.2 Assistance to users and operators..... | 6 |
| 6.3 Before operation | 6 |
| 6.4 Work place inspection..... | 6 |
| 6.5 Prior to each operation | 7 |
| 6.6 Understanding of hazardous locations | 7 |
| 6.7 Operator warnings and instructions..... | 7 |
| 7 Transport | 11 |

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.

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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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 18893 was prepared by Technical Committee ISO/TC 214, *MEWPS-SAFETY PRINCIPLES, INSPECTION, MAINTENANCE AND OPERATION*, Subcommittee SC , .

This second/third/... edition cancels and replaces the first/second/... edition (), [clause(s) / subclause(s) / table(s) / figure(s) / annex(es)] of which [has / have] been technically revised.

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Introduction

This International Standard is one of a series of standards produced by ISO/TC 214 as part of its program of work regarding standardization of terminology, ratings, general principles (technical performance requirements and risk assessment), safe requirements, test methods, maintenance and operation for elevating work platforms used to raise (elevate) and position personnel (and related work tools and materials) to a work position where a work task is to be performed.

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Mobile elevating work platforms — Safety requirements, inspection, maintenance and operation

1 Scope

1.1 Technical safety requirements

This standard applies to all Mobile Elevating Work Platforms (MEWPS) having a work platform that can be used to position persons, along with their necessary tools and materials, at work locations. MEWPS are power operated with primary functions controlled from the work platform. These functions may include drive.

1.2 This standard applies to MEWPS to achieve the following objectives:

- a) Prevention of personal injuries, property damage and accidents.
- b) Establishment of criteria for inspection, maintenance and operation.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

- a) ANSI/NFPA 505 Powered Industrial Trucks, Including Type Designations, Areas of Use Maintenance, and Operation
- b) ISO 16368 Mobile elevating work platforms—Design calculations, safety requirements and test methods
- c) ISO 18878 MEWPS—Training of operators

3 Terms and definitions

For the purpose of this Standard, the following definitions apply:

Note: See ISO 16368 Mobile elevating work platforms—Design calculations, safety requirements and test methods for additional definitions

3.1

authorized persons (authorized person)

persons approved or assigned to perform a specific type of duty or duties at a specific location or locations at a job site

**3.2
configurations**

arrangement of elements of MEWP within intended operating limits including variable rated loads

**3.3
working envelope**

all positions in which a work platform can be placed relative to the chassis, within intended operating limits

**3.4
custodian**

the entity or person who has direct control of the use and application of the MEWP either by ownership, lease/rent or assignment by the owner

**3.5
delivery**

transfer of care or control of MEWP from a person or entity to another person or entity

**3.6
interlock**

a control or mechanism that, under specified conditions, automatically allows or prevents the operation of another control or mechanism

**3.7
modification, modifies**

to make a change(s) to a MEWP which affects the operation, stability, safety factors, rated load, or safety of the MEWP in any way

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**3.8
operation**

performance of functions of a MEWP within the scope of its specifications and in accordance with the manufacturer's instructions, the custodian's work rules and applicable governmental regulations

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**3.9
operator**

a person who controls the movement of a MEWP

**3.10
qualified person**

a qualified person means one, who by possession of a recognized degree, certificate or professional standing, or by extensive knowledge, training and experience, has successfully demonstrated his/her ability to solve or resolve problems related to the subject matter, the work, or the project

**3.11
safety related bulletin**

a publication from the manufacturer of a MEWP that requires the attention of those in control of a MEWP to assure its safe operation

**3.12
shall**

the work "shall" is to be understood as mandatory

**3.13
stability, stable**

A condition of a MEWP in which the sum of the moments which tend to overturn the unit is less than the sum of the moments tending to resist overturning

4 General Requirements

The requirements of this standard shall apply except where national or local regulations are more stringent.

4.1 Basic principles

The information in this standard shall be supplemented by good job management, safety control, and the application of sound principles of safety, training, inspection, maintenance, application and operation. All data available regarding the parameters of intended use and expected environment must be considered. Those with direct control over the application and operation of MEWPs shall be responsible for the conformance with good safety practices. Decisions on the use and operation of the MEWPs shall always be made with due consideration for the fact that the machine will be carrying persons whose safety is dependent on those decisions.

The operation of any MEWP is subject to certain hazards that can be protected against only by the exercise of intelligence, care, and common sense and not by mechanical means. It is essential to have competent, careful persons trained in the intended use, safe operation, maintenance and service of this type of equipment

4.2 Manuals

4.2.1 Machine manual(s).

The custodian shall keep and maintain a copy(ies) of the:

See ISO 16368 Mobile elevating work platforms—Design calculations, safety requirements and test methods for manual requirements

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- a) Operating manual [ISO/DIS 18893](https://standards.iteh.ai/catalog/standards/sist/4ac8e990-8345-4d57-b894-5e0d0ba51f80/iso-dis-18893)
- b) Maintenance manual <https://standards.iteh.ai/catalog/standards/sist/4ac8e990-8345-4d57-b894-5e0d0ba51f80/iso-dis-18893>
- c) Parts manual
- d) Repair manual

The operating manual and maintenance manual shall be provided with each rental, lease, or sale delivery and shall be stored in the weather resistant storage compartment on the MEWPS (note mass replace). Manual(s) are considered an integral part of the MEWPs and are vital to communicate necessary safety information to owners, users and operators. In addition, repair and parts manuals should be provided with each sale delivery to the maintenance and repair persons.

4.3 Record retention

The following records shall be retained:

- a) Name and address of the purchaser of each MEWP by serial number and date of delivery shall be retained for at least 4 years.
- b) Records of the person(s) trained in the operation of a MEWP shall be retained for at least 4 years.
- c) Written records of the frequent and annual inspections shall be retained for at least 4 years. The records shall include deficiencies found, corrective action accomplished and the identification of the person(s) performing the inspection.
- d) Written records of all repairs accomplished on the MEWP shall include the date of any such repair, a description of the work accomplished and identification of the person(s) performing the repair. These records shall be retained for at least 4 years.