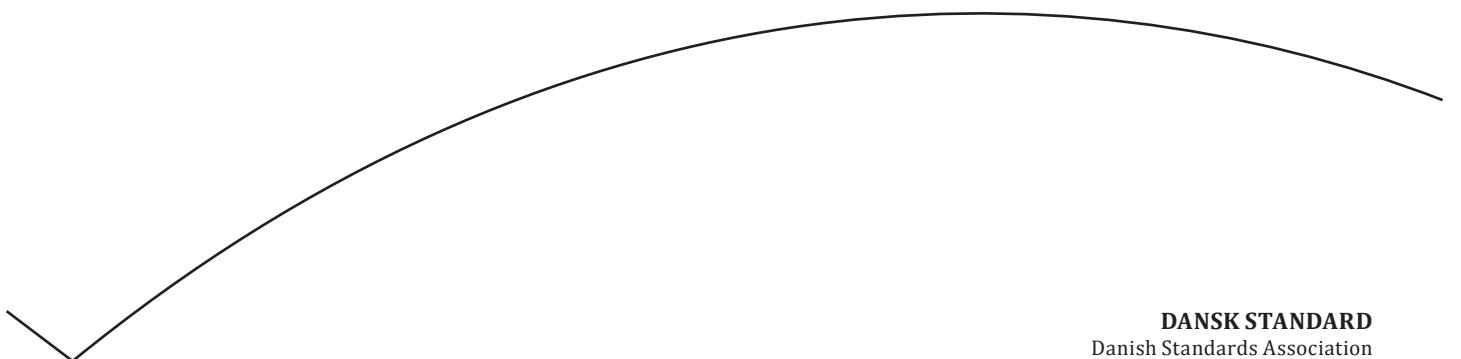




This is a preview of "DS/ISO 21455:2020". Click here to purchase the full version from the ANSI store.

Mobile personløftere med arbejdsstandplads – Førerbetjening – Aktivering, forskydning, placering og driftsmåde

Mobile elevating work platforms – Operator's controls –
Actuation, displacement, location and method of operation



DANSK STANDARD
Danish Standards Association

Göteborg Plads 1
DK-2150 Nordhavn
Tel: +45 39 96 61 01
dansk.standard@ds.dk
www.ds.dk

This is a preview of "DS/ISO 21455:2020". Click here to purchase the full version from the ANSI store.

DS projekt: M323401

ICS: 53.020.99

Første del af denne publikations betegnelse er:

DS/ISO, hvilket betyder, at det er en international standard, der har status som dansk standard.

Denne publikations overensstemmelse er:

IDT med: ISO 21455:2020

DS-publikationen er på engelsk.

DS-publikationstyper

Dansk Standard udgiver forskellige publikationstyper.

Typen på denne publikation fremgår af forsiden.

Der kan være tale om:

Dansk standard

- standard, der er udarbejdet på nationalt niveau, eller som er baseret på et andet lands nationale standard, eller
- standard, der er udarbejdet på internationalt og/eller europæisk niveau, og som har fået status som dansk standard

DS-information

- publikation, der er udarbejdet på nationalt niveau, og som ikke har opnået status som standard, eller
- publikation, der er udarbejdet på internationalt og/eller europæisk niveau, og som ikke har fået status som standard, fx en teknisk rapport, eller
- europæisk præstandard

DS-håndbog

- samling af standarder, eventuelt suppleret med informativt materiale

DS-hæfte

- publikation med informativt materiale

Til disse publikationstyper kan endvidere udgives

- tillæg og rettelsesblade

DS-publikationsform

Publikationstyperne udgives i forskellig form som henholdsvis

- fuldtekstpublikation (publikationen er trykt i sin helhed)
- godkendelsesblad (publipukationen leveres i kopi med et trykt DS-omslag)
- elektronisk (publikationen leveres på et elektronisk medie)

DS-betegnelse

Alle DS-publikationers betegnelse begynder med DS efterfulgt af et eller flere præfikser og et nr., fx **DS 383, DS/EN 5414** osv. Hvis der efter nr. er angivet et **A** eller **Cor**, betyder det, enten at det er et **tillæg** eller et **rettelsesblad** til hovedstandarden, eller at det er indført i hovedstandarden.

DS-betegnelse angives på forsiden.

Overensstemmelse med anden publikation:

Overensstemmelse kan enten være IDT, EQV, NEQ eller MOD

- **IDT:** Når publikationen er identisk med en given publikation.
- **EQV:** Når publikationen teknisk er i overensstemmelse med en given publikation, men præsentationen er ændret.
- **NEQ:** Når publikationen teknisk eller præsentationsmæssigt ikke er i overensstemmelse med en given standard, men udarbejdet på baggrund af denne.
- **MOD:** Når publikationen er modifieret i forhold til en given publikation.

This is a preview of "DS/ISO 21455:2020". Click here to purchase the full version from the ANSI store.

First edition
2020-04-03

Mobile elevating work platforms — Operator's controls — Actuation, displacement, location and method of operation

*Plates-formes élévatrices mobiles de personnel — Commandes de
l'opérateur — Actionnement, déplacements, dispositions et modes de
fonctionnement*



Reference number
ISO 21455:2020(E)

This is a preview of "DS/ISO 21455:2020". Click here to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

This is a preview of "DS/ISO 21455:2020". Click here to purchase the full version from the ANSI store.

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Control actuating forces and torques	2
5 Control locations	5
5.1 General	5
5.2 Work platform controls	5
5.3 Base or ground level controls	6
5.4 Minimum separation distance	6
5.5 Dividers or shrouds	10
6 Sizing of controls	11
7 Movement of controls	13
7.1 General	13
7.2 Multi-functional joystick controls	14
7.2.1 Combined movements	14
7.2.2 Additional controls located on a multi-functional control	14
7.3 Multi-purpose controls	14
7.4 Mode selection for multi-purpose controls	15
7.5 Activation and operation	15
7.5.1 General	15
7.5.2 Control orientation and operation — Work platform controls	15
7.5.3 Operational characteristics for lever-operated stacked or banked controls located at the work platform	16
7.5.4 Work platform control orientation zones for raising and lowering of the extending structure	16
7.5.5 Work platform control orientation zones for travelling	17
7.6 Function enable controls	20
8 Layout of controls	21
8.1 General	21
8.2 Control panel construction	21
8.3 Grouping of controls	21
8.4 Control groups for Group A MEWPs	21
8.5 Control groups for Group B MEWPs	21
8.6 MEWPs with independent left-hand and right-hand travel controls	22
9 Marking of controls	22
9.1 General	22
9.2 Marking of controls using text	22
9.3 Marking of controls using symbols	22
Bibliography	23

This is a preview of "DS/ISO 21455:2020". Click here to purchase the full version from the ANSI store.

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 214, *Elevating work platforms*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This is a preview of "DS/ISO 21455:2020". Click [here](#) to purchase the full version from the ANSI store.

Introduction

This document has been developed to provide methods of operation and requirements for operator's controls on mobile elevating work platforms. These provisions have been derived from experience, current practice, human factors literature and existing standards.

This is a preview of "DS/ISO 21455:2020". Click [here](#) to purchase the full version from the ANSI store.

This is a preview of "DS/ISO 21455:2020". Click here to purchase the full version from the ANSI store.

Mobile elevating work platforms — Operator's controls — Actuation, displacement, location and method of operation

1 Scope

This document specifies the performance requirements, location, marking and method of operation related to operator's controls on mobile elevating work platforms (hereafter referred to as MEWPs) and takes into account operator safety and ergonomics.

It applies to all controls used by an operator and includes provisions for finger, thumb, hand, and foot operated controls.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 16368, Mobile elevating work platforms — Design, calculations, safety requirements and test methods](#)

[ISO 20381, Mobile elevating work platforms — Symbols for operator controls and other displays](#)

[ISO 7000, Graphical symbols for use on equipment — Registered symbols](#)