



**BSI Standards Publication**

## **Safety requirements for lifting tables**

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Part 1: Lifting tables serving up to two fixed landing

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This British Standard is the UK implementation of EN 1570-1:2024. It supersedes BS EN 1570-1:2011+A1:2014, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MHE/12, Lifting Platforms.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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**Amendments/corrigenda issued since publication**

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## EUROPÄISCHE NORM

April 2024

ICS 53.020.99

Supersedes EN 1570-1:2011+A1:2014

English Version

## Safety requirements for lifting tables - Part 1: Lifting tables serving up to two fixed landing

Exigences de sécurité des tables élévatrices - Partie 1 :  
Tables élévatrices desservant jusqu'à deux paliers  
définis

Sicherheitsanforderungen an Hubtische - Teil 1:  
Hubtische, die bis zu zwei feste Haltestellen anfahren

This European Standard was approved by CEN on 19 September 2022.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 1570-1:2024) has been prepared by Technical Committee CEN/TC 98 “Lifting platforms”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2024, and conflicting national standards shall be withdrawn at the latest by October 2024.

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

This document supersedes EN 1570-1:2011+A1:2014.

The revisions to the standard are based mainly on the following points, which are embedded throughout the document:

- a wholesale restructure of the document;
- the inclusion for lifting tables in non-industrial applications; Static Elevating Work Platforms and lifting tables used in Skillet lines or Autonomous Ground Vehicles;
- the ability to pass a fixed landing and to carry authorized persons when under operator control;
- the introduction of rated and structural loads;
- the replacement of EN 1570-1:2011+A1:2014, Table 3 – Lift installation safeguard requirements with new flow charts within Annex I – Guide to travel zone risks;
- where appropriate, risk of falling is now associated with the height of fall rather than the travel height of the machine;
- greater emphasis on protection of the public when the lifting tables are used in public accessible areas;
- the reintroduction of boom barriers and clarity on interlocking and locking requirements for removable guard-rails;
- locking of the lift table when at an upper fixed landing;
- the relaxation of overload monitoring limits due to the lack of appropriate state of the art equipment;
- restrictions on the use of pipe rupture protection devices in hydraulic systems;
- the introduction of rigid / pusher chains and the removal of pneumatic drives.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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## Introduction

This document was drafted as a design guidance manual to provide a means of achieving conformance to the essential safety requirements stipulated under Machinery Directive 2006/42/EC.

As lifting tables are used in a wide range of applications, it is equally necessary to perform individual risk assessments in accordance with EN ISO 12100:2010 for the actual operating conditions.

Products sold indirectly to end-users should be built to cover all the risks related to the use and all conditions foreseeable by the manufacturer, as described and detailed in the instruction manual.

Where the text gives an example of a safety measure for the purposes of greater clarity, this should not be considered as the only possible solution. Any other solution leading to the same risk reduction is permissible if an equivalent or increased level of safety is achieved.

While drafting this document, it was assumed that:

- the lifting tables are only operated by persons trained in the use of the equipment in accordance with the manufacturer's instructions, and that the working area is adequately lit;
- the lifting tables are installed or used on hard standing, even, appropriately prepared surfaces;
- where there are special requirements on low noise levels, such as for hospital applications and theatres, etc., the customer should specify these requirements and the manufacturer should then take all appropriate measures.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, when machines have been designed and built according to the provisions of this type C standard.

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## 1 Scope

**1.1** This document specifies the safety requirements for lifting tables with the following characteristics:

- serving no more than 2 fixed landings but able to pass a fixed landing and,
- having a vertical travel speed of no more than 0,15 m/s, unless safe by position and,
  - for raising or lowering goods (with or without operator(s) and/or authorized person(s)), or;
  - for raising or lowering operator(s) and/or authorized person(s) with or without goods, to positions where they can carry out work from a fixed or movable lifting table that is guided throughout its vertical travel only (see Annex H).

**1.2** This document specifies the appropriate technical measures for eliminating and reducing the risks arising from the significant hazards listed in Annex B.

**1.3** This document does not apply to the following equipment:

- lifting tables with a vertical travel speed exceeding 0,15 m/s, unless safe by position;
- lifting tables, serving more than 2 fixed landings of a construction, for lifting goods, with a vertical travel speed not exceeding 0,15 m/s (EN 1570-2:2016);
- lifting tables, serving more than 2 fixed landings of a construction, for lifting operators, with a vertical travel speed not exceeding 0,15 m/s;
- lifting tables carrying operators and installed in full enclosures with a vertical travel speed not exceeding 0,15 m/s;
- lifting tables used on ships;
- lifting tables designed for artists and stage set features during artistic performances (EN 17206:2020);
- power operated lifting platforms for persons with impaired mobility (EN 81-41:2010);
- mobile lifting tables for airport ground support equipment (EN 1915-2:2001+A1:2009 and EN 12312-1:2013);
- mobile elevating work platforms (EN 280-1:2022);
- static Group B elevating work platforms (EN 280-1:2022);
- vehicle servicing lifts (EN 1493:2022);
- mobile lifting tables used for firefighting (EN 1777:2010);
- mobile lifting tables with a horizontal travelling speed of more than 1,6 m/s;
- rail dependent storage and retrieval equipment (EN 528:2021+A1:2022);
- scissor lift pallet trucks (EN ISO 3691-5:2015, including EN ISO 3691-5:2015/AC:2016 and EN ISO 3691-5:2015/A1:2020);
- lifting tables suspended from a ceiling.