



NSAI
Standards

Irish Standard
I.S. EN 1570-1:2011+A1:2014

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

I.S. EN 1570-1:2011+A1:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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English Version

**Safety requirements for lifting tables - Part 1: Lifting tables
serving up to two fixed landings**

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

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

This European Standard was approved by CEN on 17 September 2011 and includes Amendment 1 approved by CEN on 11 August 2014.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 1570-1:2011+A1:2014 (E)

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EN 1570-1:2011+A1:2014 (E)

Foreword

This document (EN 1570-1:2011+A1:2014) has been prepared by Technical Committee CEN/TC 98 "Lifting tables", 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 April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.

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

This document includes Amendment 1 approved by CEN on 11 August 2014.

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

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

The revisions to the standard are based mainly on the following points:

- the incorporation of essential health and safety requirements of the relevant EU Directives;
- the elimination of obvious errors;
- the incorporation of proposals resulting from interpretation requests dealing with the improvement relative to the progress in technology;
- the improvement of references to other standards according to improvements in the field.

The revision of this standard is needed because of the change of the relevant scope and relationship of the machinery and lift Directives.

Part 1 of this standard deals with the protection at landings and safety requirements of lifting tables serving up to two fixed landings. Part 2 will deal with slow lifting tables serving more than 2 fixed landings for accessible only goods lifts and Part 3 will deal with slow lifting tables serving more than 2 fixed landings for operator carrying lifts.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This European Standard is a Type C standard as stated in EN ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this European Standard.

As lifting tables are used in a wide range of applications it is also essential to make individual risk assessments in accordance with EN ISO 12100 for the actual operating conditions.

Products sold indirectly to end users should be made for all the risks, which are related to the use and conditions foreseen by the manufacturer, as described in the instruction manual.

While producing this standard, it was assumed that:

- only trained operators using the equipment in accordance with manufacturers instructions operate the lifting tables and that the working area is adequately lit;
- lifting tables are operating on substantially firm, smooth, even and prepared surfaces. It is not necessary to consider centrifugal forces specifically as the current requirements consider all lateral forces;
- where there is a special requirement for a low noise level, e.g. hospital applications, theatre applications etc. this will be specified by the customer and appropriate measures taken by the manufacturer.

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, for machines that have been designed and built according to the provisions of this type C standard.

EN 1570-1:2011+A1:2014 (E)

1 Scope

1.1 This European Standard specifies the safety requirements for industrial lifting tables for raising and/or lowering goods and the operator(s):

- where the lifting table does not pass a fixed landing;
- serving not more than 2 fixed landings.

1.2 This European Standard deals with all significant hazards pertinent to lifting tables when they are used as intended by the operating instructions and under the conditions foreseen (including foreseeable misuse) with the operating instructions (see Clause 4). This European Standard specifies the appropriate technical measures to eliminate or reduce the risks arising from the significant hazards.

1.3 Both power operated and manually operated lifting tables are included whether stationary or mobile.

1.4 This European Standard does **not** apply to the following equipment:

- lifting tables, serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s (EN 1570-2);
- lifting tables, serving more than 2 fixed landings of a building for lifting operators, with a vertical travel speed not exceeding 0,15 m/s (EN 1570-3);
- lifting tables carrying operators and installed in full enclosures (EN 1570-3);
- permanently and temporarily installed lifting tables, serving specific levels of a building for lifting operators, with a vertical travel speed exceeding 0,15 m/s (EN 81-1 and EN 81-2);
- lifting tables with flat or toothed belts lifting systems for the carrying of operators;
- lifting tables whose vertical travel speed exceeds 0,15 m/s (unless safe by position and non person carrying);
- power operated lifting platforms for persons with impaired mobility (EN 81-41);
- mobile lifting tables for airport ground support equipment (EN 1915-2 and EN 12312-1);
- lifting tables which are designed as part of a lift according to Directive (95/16/EC);
- lifting tables used on ships;
- mobile elevating work platforms (EN 280);
- static elevating work platforms;
- vehicle lifts for maintenance (EN 1493);
- mobile lifting tables used for fire fighting (EN 1777);
- mobile lifting tables used as fork lift trucks and order pickers;
- mobile lifting tables with a horizontal travelling speed of more than 1,6 m/s;
- rail dependent storage and retrieval equipment (EN 528);

- theatre stage lifts intended to move performers;
- scissor lift pallet trucks (EN ISO 3691-5);
- suspended lifting tables;
- lifting tables operated by pushing chains.

1.5 This standard does not establish the additional requirements for:

- electromagnetic compatibility;
- operation in severe conditions (e.g. extreme climates, freezer applications, strong magnetic fields);
- operation subject to special rules (e.g. potentially explosive atmospheres, mines);
- handling of loads, the nature of which could lead to dangerous situations (e.g. molten metal, acids, radiating materials, especially brittle loads);
- hazards occurring during construction, transportation and disposal;
- equipment installed on the load platform or replacing it;
- integration into systems or other machines, control from more than two control stations, etc.;
- cable-less controls;
- lifting tables where the hydraulic pressure is derived directly from gas pressure;
- the power supply to the lifting table by internal combustion engine.

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.

EN 1088:1995+A2:2008, *Safety of machinery — Interlocking devices associated with guards — Principles for design and selection*

EN 13241-1:2003+A1:2011, *Industrial, commercial and garage doors and gates — Product standard — Part 1: Products without fire resistance or smoke control characteristics*

EN 60204-1:2006, *Safety of machinery — Electrical equipment of machines — Part 1: General requirements (IEC 60204-1:2005, modified)*

EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN 60947-5-1, *Low-voltage switchgear and control gear — Part 5-1: Control circuit devices and switching elements — Electromechanical control circuit devices (IEC 60947-5-1:2003)*

EN 60947-5-3, *Low-voltage switchgear and control gear — Part 5-3: Control circuit devices and switching elements — Requirements for proximity devices with defined behaviour under fault conditions (PDF) (IEC 60947-5-3:1999)*

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