



SLOVENSKI STANDARD
SIST EN 1570:1999/A1:2004

01-november-2004

Varnostne zahteve za dvizne mize

Safety requirements for lifting tables

Sicherheitsanforderungen an Hubtische

Prescriptions de sécurité des tables élévatrices

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: EN 1570:1998/A1:2004
SIST EN 1570:1999/A1:2004
<https://standards.iteh.ai/catalog/standards/sist/a5fa9047-4762-4ddb-ab77-5ef1503517f8/sist-en-1570-1999-a1-2004>

ICS:

53.020.99 Druga dvigalna oprema Other lifting equipment

SIST EN 1570:1999/A1:2004 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 1570:1999/A1:2004](https://standards.iteh.ai/catalog/standards/sist/a3fa9047-4762-4ddb-a677-5ef1503517f8/sist-en-1570-1999-a1-2004)

<https://standards.iteh.ai/catalog/standards/sist/a3fa9047-4762-4ddb-a677-5ef1503517f8/sist-en-1570-1999-a1-2004>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1570:1998/A1

August 2004

ICS 53.020.99

English version

Safety requirements for lifting tables

Prescriptions de sécurité des tables élévatrices

Sicherheitsanforderungen an Hubtische

This amendment A1 modifies the European Standard EN 1570:1998; it was approved by CEN on 7 June 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This amendment 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

iTeh STANDARD PREVIEW
(standards.iteh.ai)



<https://standards.iteh.ai/catalog/standards/sist/a3fa9047-4762-4ddb-a677-5ef1503517f8/sist-en-1570-1999-a1-2004>

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents**Page**

1	Scope.....	4
2	Normative references	4
3	Definitions.....	5
4	List of hazards.....	5
5	Safety requirements.....	10
6	Marking	12
8	Verification of the safety requirements and /or measures	12
	Annex C (normative) Test procedures.....	13
	Annex D (normative) Test certificate for lifting tables	14
	Annex E (informative) Controls	15
	Annex F (normative) Manual force measurement methods	16
	Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC amended by 98/79/EC	17

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 1570:1999/A1:2004](https://standards.iteh.ai/catalog/standards/sist/a3fa9047-4762-4ddb-a677-5ef1503517f8/sist-en-1570-1999-a1-2004)
<https://standards.iteh.ai/catalog/standards/sist/a3fa9047-4762-4ddb-a677-5ef1503517f8/sist-en-1570-1999-a1-2004>

Foreword

This document (EN 1570:1998/A1:2004) has been prepared by Technical Committee CEN/TC 98 "Lifting platforms", the secretariat of which is held by DIN.

This Amendment to the European Standard EN 1570:1998 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2005, and conflicting national standards shall be withdrawn at the latest by February 2005.

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.

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

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 1570:1999/A1:2004
https://standards.iteh.ai/catalog/standards/sist/a3fa9047-4762-4ddb-a677-5ef1503517f8/sist-en-1570-1999-a1-2004](https://standards.iteh.ai/catalog/standards/sist/a3fa9047-4762-4ddb-a677-5ef1503517f8/sist-en-1570-1999-a1-2004)

EN 1570:1998/A1:2004 (E)**1 Scope**

The text of 1.1 shall be replaced by:

1.1 This document specifies the safety requirements for lifting tables for raising and/or lowering goods and/or persons associated with the movement of goods carried by the lifting table (i. e. not for passenger use), for a vertical travel of up to 3.0 m.

The text of 1.4 shall be replaced by:

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

- permanently installed lifting tables, serving specific levels of a building and fitted with a car;
- permanently installed lifting tables, serving specific levels of a building, not fitted with a car but with a vertical travel of more than 2.0 m;
- power operated lifting platforms for persons with impaired mobility;
- lifting tables for airport ground equipment;
- lifting tables for marine use;
- mobile elevating work platforms;
- vehicle lifts for maintenance;
- mobile lifting tables used for fire fighting;
- mobile lifting tables used as fork lift trucks, pallet trucks and order pickers;
- mobile lifting tables with a travelling speed of more than 1,6 m/s;
- rail dependent storage and retrieval equipment;
- theatre stage lifts.

2 Normative references

The following reference shall be added:

EN 1050, *Safety of machinery-Principles for risk assessment*.

The following reference shall be deleted:

EN 45014, *General criteria for suppliers declaration of conformity (ISO / IEC Guide 22:1996)*.

3 Definitions

The text of 3.12 shall be replaced by:

3.12

safety by position

condition when a table or part of table is sufficiently shielded from access to avoid any hazard to persons or goods.

4 List of hazards

The whole clause 4 shall be replaced by:

The list of hazards according to the following table is based on EN 1050.

The table has been formulated to show the hazards, hazardous situations and hazardous events which have been identified by risk assessment to be relevant for this type of machinery and which require action to eliminate or reduce risk.

Hazards are shown as "not applicable" where they are considered not to exist on lifting tables and "not significant" where they are unlikely to cause risk to persons.

Table 1

Hazard Reference No	Hazards, hazardous situations and hazardous events	Clause No in this standard
1	Mechanical hazards due to:	
	— Machine parts or work pieces, e. g.:	
	a) shape;	5.2.1, 5.2.8
	b) relative location	5.2.8
	c) mass and stability (potential energy of elements which may move under the effect of gravity);	5.1.1.7
	d) mass and velocity (kinetic energy of elements in controlled and uncontrolled motion);	5.1.1.6
	e) inadequacy of mechanical strength.	5.1
	— accumulation of energy inside the machinery, e. g.:	
	f) elastic elements (springs);	5.8.10, 5.9.6
g) liquids and gases under pressure;	5.8, 5.9	
h) the effect of vacuum	Not applicable	
1.1	Crushing hazard	5.2.1/2/3/4/6
1.2	Shearing hazard	5.2.1/2/3/4/6
1.3	Cutting or severing hazard	5.2.8
1.4	Entanglement hazard	5.2.9
1.5	Drawing-in or trapping hazard	5.2.10
1.6	Impact hazard	5.2.11
1.7	Stabbing or puncture hazard	Not applicable
1.8	Friction or abrasion hazard	Not significant
1.9	High pressure fluid injection or ejection hazard	5.8.3

EN 1570:1998/A1:2004 (E)

Table 1 (continued)

Hazard Reference No	Hazards, hazardous situations and hazardous events	Clause No in this standard
2	Electrical hazards due to:	
2.1	Contact of persons with live parts (direct contact)	5.10.1
2.2	Contact of persons with parts which have become live under faulty conditions (indirect contact)	5.10.1/2
2.3	Approach to live parts under high voltage	5.10.1/2
2.4	Electrostatic phenomena	Not applicable
2.5	Thermal radiation or other phenomena such as the projection of molten particles and chemical effects from short circuits, overloads, etc.	Not applicable
3	Thermal hazards , resulting in:	
3.1	Burns, scalds and other injuries by a possible contact of persons with objects or materials with an extreme high or low temperature, by flames or explosions and also by the radiation of heat sources	5.2.16
3.2	Damage to health by hot or cold working environment	Not applicable
4	Hazards generated by noise , resulting in	See annex B
4.1	Hearing loss (deafness), other physiological disorders(e. g. loss of balance, loss of awareness)	Not applicable
4.2	Interference with speech communication, acoustic signals, etc.	Not applicable
5	Hazards generated by vibration	
5.1	Use of hand-held machines resulting in a variety of neurological and vascular disorders	Not applicable
5.2	Whole body vibration, particularly when combined with poor postures	Not applicable
6	Hazards generated by radiation	
6.1	Low frequency, radio frequency radiation, micro waves	Not applicable
6.2	Infrared, visible and ultraviolet light	Not applicable
6.3	X and gamma rays	Not applicable
6.4	Alpha, beta rays, electron or ion beams, neutrons	Not applicable
6.5	Lasers	Not applicable
7	Hazards generated by materials and substances (and their constituent element) processed or used by the machinery	5.8.2/3, 7.2.3
7.1	Hazards from contact with or inhalation of harmful fluids, gases, mists, fumes, and dusts	5.8.2/3, 7.2.3
7.2	Fire or explosion hazard	Not significant
7.3	Biological or microbiological (viral or bacterial) hazards	Not applicable
8	Hazards generated by neglecting ergonomic principles in machinery design as, e. g. hazards from:	5.6.4, 5.6.11, 5.8.11
8.1	Unhealthy postures or excessive effort	5.6.4, 5.6.11, 5.8.11
8.2	Inadequate consideration of hand-arm or foot-leg anatomy	5.2.1/2
8.3	Neglected use of personal protection of equipment	Not applicable
8.4	Inadequate local lighting	Introduction

Table 1 (continued)

Hazard Reference No	Hazards, hazardous situations and hazardous events	Clause No in this standard
8.5	Mental overload and underload, stress	Not applicable
8.6	Human error, human behaviour	5.5.2, 5.5.4, 5.5.6, 5.7.7
8.7	Inadequate design, location or identification of manual controls	5.5.1, 5.5.3/4/5/6/7
8.8	Inadequate design or location of visual display units	Not applicable
9	Combination of hazards	Not specifically dealt with
10	Unexpected start-up, unexpected overrun/overspeed (or any similar malfunction) from;	
10.1	Failure/disorder of the control system	5.10.1
10.2	Restoration of energy supply after an interruption	5.10.1
10.3	External influences on electrical equipment	5.10.1
10.4	Other external influences (gravity, wind, etc.)	5.5.3/4/5
10.5	Errors in the software	Not dealt with
10.6	Errors made by the operator (due to mismatch of machinery with human characteristics and abilities, see 8.6)	5.5.3/4/5/6
11	Impossibility of stopping the machine in the best possible conditions	5.5.7
12	Variations in the rotational speed of tools	Not applicable
13	Failure of the power supply	5.10.1
14	Failure of the control circuit	5.10.1
15	Errors of fitting	7.3
16	Break up during operation	5.1.1, 5.7.5, 5.8.7, 5.9.7, 7.1, 7.2
17	Falling or ejected objects or fluids	5.8.1/2/3/4, 5.9.1/2/3/4, 5.2.13/14, 7.1
18	Loss of stability / overturning of machinery	5.1.2
19	Slip, trip and fall of persons (related to machinery)	5.2.13/14, 5.4.1, 5.2.17
Additional Hazards, hazardous situations and hazardous events due to mobility		
20	Relating to the travelling function	
20.1	Movement when starting the engine	5.6.3
20.2	Movement without a driver at the driving position	5.6.2
20.3	Movement without all parts in safe position	5.2.19, 5.3.2
20.4	Excessive speed of pedestrian controlled machinery	5.3.2
20.5	Excessive oscillations when moving	5.3.3
20.6	Insufficient ability of machinery to be slowed down, stopped and immobilised	5.6.2, 5.6.5, 5.6.8