



SLOVENSKI STANDARD oSIST prEN 16851:2025

01-november-2025

Žerjavi - Lahki žerjavni sistemi

Cranes - Light crane systems

Krane - Leichtkransysteme

Appareils de levage à charge suspendue - Systèmes de grue légère

Ta slovenski standard je istoveten z: prEN 16851

ICS:

53.020.20 Dvigala <https://standards.iteh.ai/standards/sist/8af6a9cd-555-9ba0-86df93335617/osist-pren-16851-2025> Cranes

oSIST prEN 16851:2025

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 16851

September 2025

ICS 53.020.20

Will supersede EN 16851:2017+A1:2020

English Version

Cranes - Light crane systems

Appareils de levage à charge suspendue - Systèmes de
grue légère

Krane - Leichtkransysteme

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 147.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

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

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	8
4 Safety requirements and/or protective measures	10
4.1 General – Safety related standards.....	10
4.2 Aluminium structures	12
4.3 Actions on supporting structures.....	14
4.4 General components	14
4.5 Tandem operation of cranes/trolleys from a single control station.....	19
4.6 Use of multiple hoist mechanisms	19
4.7 Man-machine interface	19
4.8 Equipment for warning.....	22
4.9 Safety related functions.....	22
5 Verification of safety requirements and/or protective measures	23
5.1 General.....	23
5.2 Types of verification	23
5.3 Fitness for purpose testing.....	25
6 Information for use	26
6.1 General.....	26
6.2 User's manual	26
6.3 Marking.....	29
Annex A (informative) List of significant hazards	31
Annex B (informative) Guidance for specifying the operating duty	34
Annex C (normative) Actions on supporting structures and installation dimensions	35
C.1 Loads and load combinations	35
C.2 Jib cranes.....	36
C.3 Suspended light crane systems	38
C.4 Free-standing light crane system	39
Annex D (normative) Noise test code	40
D.1 General.....	40
D.2 Description of machinery family	41
D.3 Determination of an emission sound pressure level by calculation	41
D.4 Determination of emission sound pressure level at control stations and other specified positions and determination of sound power level by measurement.....	44
D.5 Uncertainties	48
D.6 Information to be recorded.....	48
D.7 Information to be reported	48
D.8 Declaration and verification of noise emission values.....	48

Annex E (informative) Overview of standards published by CEN/TC 147.....	50
E.1 General	50
E.2 Selecting a suitable standard	50
Annex F (informative) Guidance for automated operation	52
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2023/1230 aimed to be covered.....	53
Bibliography	56

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[oSIST prEN 16851:2025](https://standards.itih.ai/catalog/standards/sist/8af6a9cd-5f9b-4d65-9ba0-86df93335617/osist-pren-16851-2025)

<https://standards.itih.ai/catalog/standards/sist/8af6a9cd-5f9b-4d65-9ba0-86df93335617/osist-pren-16851-2025>

prEN 16851:2025 (E)**European foreword**

This document (prEN 16851:2025) has been prepared by Technical Committee CEN/TC 147 “Cranes - Safety”, the secretariat of which is held by SFS.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 16851:2017+A1:2020.

prEN 16851:2025 includes the following significant technical changes with respect to EN 16851:2017+A1:2020:

- update of reference documents and cross-references;
- revision of Clauses 2 and 3;
- revision and update of subclauses 4.1.1, 4.4.9, 4.4.10, 4.7.1, 4.9;
- removal of subclause on lighting (4.7.4);
- addition of new subclauses 6.3.1 and 6.3.3;
- restructuring of Clause 6;
- revision of the list of significant hazards and move to Annex A;
- revision of Annex ZA;
- addition of new Annex F.

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.

For relationship with other European Standards for cranes, see Annex E.

Introduction

This document has been prepared to provide one means for equipment of cranes to conform to the essential health and safety requirements of the Machinery Regulation, as mentioned in Annex ZA.

This document is a type C standard as stated in EN ISO 12100:2010.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- service providers, e.g. for maintenance (small, medium and large enterprises).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards are covered are indicated in the Scope of this document.

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

[oSIST prEN 16851:2025](https://standards.iteh.ai/catalog/standards/sist/8af6a9cd-5f9b-4d65-9ba0-86df93335617/osist-pren-16851-2025)

<https://standards.iteh.ai/catalog/standards/sist/8af6a9cd-5f9b-4d65-9ba0-86df93335617/osist-pren-16851-2025>