



SLOVENSKI STANDARD
SIST EN 17076:2021/oprA1:2023
01-januar-2023

Stolpni žerjavi - Sistemi za preprečitev trka - Varnostne zahteve - Dopolnilo A1

Tower cranes - Anti-collision systems - Safety requirements

Turmdrehkrane - Antikollisionssysteme - Sicherheitstechnische Anforderungen

Grues à tour - Systèmes anti-collision - Prescriptions de sécurité

Ta slovenski standard je istoveten z: EN 17076:2020/prA1

<https://standards.iteh.ai/catalog/standards/sist/7400b0eb-5c39-4ef7-abaf-cc3c2ea8db76/sist-en-17076-2021-opra1-2023>

ICS:

53.020.20 Dvigala Cranes

SIST EN 17076:2021/oprA1:2023 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 17076:2020
prA1

November 2022

ICS 53.020.20

English Version

Tower cranes - Anti-collision systems - Safety requirements

Grues à tour - Systèmes anti-collision - Prescriptions de sécurité

Turmdrehkrane - Antikollisionssysteme - Sicherheitstechnische Anforderungen

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

This draft amendment A1, if approved, will modify the European Standard EN 17076:2020. If this draft becomes an amendment, 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.

This draft amendment 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		3
1	Modification to Clause 4, “List of significant hazards”	4
2	Modification to Subclause 5.1.1, “Components of anti-collision devices and systems”	5
3	Modification to Subclause 6.9, “Outside indicators”	5
4	Modification to Clause 7, “Verification of the safety requirement and/or protective measures”	5
5	Modification to Annex ZA (informative), “Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered”	6

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 17076:2021/oprA1:2023](https://standards.iteh.ai/catalog/standards/sist/7400b0eb-5c39-4ef7-aba1-cc3c2ea8db76/sist-en-17076-2021-opra1-2023)

<https://standards.iteh.ai/catalog/standards/sist/7400b0eb-5c39-4ef7-aba1-cc3c2ea8db76/sist-en-17076-2021-opra1-2023>

European foreword

This document (EN 17076:2020/prA1:2022) has been prepared by Technical Committee CEN/TC 147 “Cranes - Safety”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

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

For relationship with EU Directive(s) / Regulation(s), see informative Annexe ZA, which is an integral part of EN 17076:2020.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 17076:2021/oprA1:2023](https://standards.iteh.ai/catalog/standards/sist/7400b0eb-5c39-4ef7-aba1-cc3c2ea8db76/sist-en-17076-2021-opra1-2023)

<https://standards.iteh.ai/catalog/standards/sist/7400b0eb-5c39-4ef7-aba1-cc3c2ea8db76/sist-en-17076-2021-opra1-2023>

prEN 17076:2020/prA1:2022 (E)

1 Modification to Clause 4, “List of significant hazards”

Replace Table 1 with the following:

“Table 1 — List of significant hazards and associated requirements

Hazard reference no.	Hazards	Relevant clause(s) in this document
1	Mechanical hazards due to: — Machine parts or work pieces, e.g. e) insufficient mechanical strength;	5.1.3
1.1	Crushing hazards	5.1.4
1.2	Shearing hazards	5.1.4
1.3	Cutting or severing hazards	5.1.2; 5.1.4
2	Electric hazards — Touching live parts — Parts which have become live under fault conditions — Electromechanical phenome — Short-circuit — Overload — Thermal radiation	5.1.1; 5.4
8	Hazards generated by neglecting ergonomic principles in machinery design as, e.g. hazards from:	
8.1	Unhealthy postures or excessive efforts	5.1.5
8.6	Human error, human behaviour	6.4; 6.5; 6.6
8.7	Inadequate design, location or identification of manual controls	5.1.5
8.8	Inadequate design or location of visual display units	5.1.8; 6.8; 6.9
10	Unexpected start-up, unexpected overrun/overspeed (or any similar malfunction) from:	
10.1	Failure/disorder of the control system	5.1.6; 5.1.7; 5.1.9; 6.2 6.7
10.2	Restoration of energy supply after an interruption	6.1
10.3	External influences on electrical equipment	5.4
10.5	Error in the software	5.1.6; 5.1.7; 5.1.9
11	Impossibility of stopping the machine in a safe condition	6.2; 6.5

Hazard reference no.	Hazards	Relevant clause(s) in this document
12.1	Hazards due to: — assembly and installation — setting — cleaning — fault-finding — maintenance	9.2; 9.3; 9.4
13	Failure of the power supply	6.1
14	Failure of the control circuit	5.4; 6.3
15	Errors of fitting	5.1.3
16	Break-up during operation	5.1.3
17	Falling or ejected objects or fluid	5.1.3
Additional hazards and hazardous events due to mobility:		
25	From/to third persons	
25.3	Lack or inadequacy of visual or acoustic warning means	6.9
26	Insufficient instructions for the driver/operator	9
Additional hazards and hazardous events due to lifting		
27.1	From loads falls, collision, machine tipping	5.1.7; 5.1.9; 5.2
29	Hazards generated by neglecting ergonomic principles:	
29.1	Insufficient visibility from the driving position	5.1.5; 9.1

2 Modification to Subclause 5.1.1, “Components of anti-collision devices and systems”

In the second paragraph, in the list, insert the following item after “processing unit”:

“— power supply unit;”

3 Modification to Subclause 6.9, “Outside indicators”

In the 1st paragraph, delete “according to EN 14439:2006+A2:2009” to read:

“A white flashing light shall inform the persons present on the jobsite when the device is overridden.”

4 Modification to Clause 7, “Verification of the safety requirement and/or protective measures”

In Table 8, row “5.1.5”, 3rd column, add the letter “C” to read:

“

5.1.5	Controls	C, D, M, F, V
-------	----------	---------------

”