SLOVENSKI STANDARD
SIST EN 13001-3-1:2025

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Dvigala (žerjavi) - Konstrukcija, splošno - 3-1. del: Mejna stanja in dokaz varnosti jeklene nosilne konstrukcije

Cranes - General design - Part 3-1: Limit states and proof of competence of steel structures

Krane - Konstruktion allgemein - Teil 3-1: Grenzzustände und Sicherheitsnachweis von Stahltragwerken

Appareils de levage à charge suspendue - Conception générale - Partie 3-1: États-limites et vérification d'aptitude des structures en acier

Ta slovenski standard je istoveten z: **EN 13001-3-1:2025**

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53.020.20 Dvigala Cranes

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English Version

Cranes - General design - Part 3-1: Limit states and proof competence of steel structure

Appareils de levage à charge suspendue - Conception générale - Partie 3-1 : Etats limites et vérification d'aptitude des charpentes en acier

Krane - Konstruktion allgemein - Teil 3-1: Grenzzustände und Sicherheitsnachweis von Stahltragwerken

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

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European foreword

This document (EN 13001-3-1:2025) has been prepared by Technical Committee CEN/TC 147 “Cranes - Safety”, the secretariat of which is held by SFS.

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of an identical text or by endorsement, at the latest by September 2025, and conflicting national standards shall be withdrawn at the latest by September 2025.

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 13001-3-1:2012+A2:2018.

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.

CEN/TC 147 WG 2 has reviewed EN 13001-3-1:2012+A2:2018 to adapt the document to technical progress. The main changes are:

— design values for standardized steels (4.2.1) were moved to a new Annex M (normative);

— design values for bolt materials were changed (Table 4);

— limit design values for welded connection were changed (5.2.5);

— static proof of welded connections was changed (5.3.4 and Annex C (normative));

— proof of fatigue strength was revised to include additional modern methods (6.1);

— fatigue strength specific resistance factors were modified (Table 8);

— the geometric stress (Hot Spot) method was added (6.2.4 and Annex I (normative));

— the effective notch method was added (6.2.5 and Annex I (normative));

— lateral-torsional stability of beams was added (8.4 and 8.5.3 and Annex J (informative));

— recommended tightening torques for preloaded bolts were modified (Annex B (informative));

— characteristic fatigue strengths for plates in shear were modified (Table D.1);

— Annex L (informative) with a list of hazards was inserted;

— Annex ZA (informative) was significantly revised.