

Cranes

Principles relating to steel structures

Design of cranes on vehicles

DIN
15 018
Part 3

Kran; Grundsätze für Stahltragwerke; Berechnung von Fahrzeugkränen

Supersedes January 1983 edition

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

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1 Field of application

This standard is applicable to steel structures of railless cranes on vehicles with stress collectives equal to or lighter than S1, a limiting stress ratio α not less than 0,25 and notch cases equal to or better than K3 in accordance with *DAST-Richtlinie* (DAST Guideline) 011, on condition that the stress cycles do not exceed the following values:

- for StE 460: $N_G = 2 \cdot 10^6$;
- for StE 690: $N_G = 5 \cdot 10^6$;
- for StE 885: $N_G = 2,5 \cdot 10^6$.

This standard incorporates deviations from, and additions to, DIN 15 018 Part 1 which are motivated by the specific system characteristics, requirements and by the special mode of operation of these cranes.

Cranes on vehicles are equipped with jib systems, basic jibs which may also be fitted with a fixed jib extension or with a level luffing jib extension, which are capable of being lowered rapidly, and the basic jibs of which are luffable about a horizontal axis.

The following crane types form part of this category, as classified in DIN 15 001 Part 1:

- crawler cranes;
- mobile cranes;
- truck cranes;

- trailer cranes;
- semitrailer cranes.

2 Details to be given for design purposes

(In accordance with DIN 15 018 Part 1, November 1984 edition, clause 3.)

3 Design loads

The loads acting on the structure are subdivided into main loads, additional loads and special loads.

Main loads are:

- self weights;
- lifted loads;
- dynamic effects arising from lifting and lowering;
- inertia forces arising from drives;
- centrifugal forces;
- forces arising from crane operation or from driving the crane on the road or across country.

Additional loads are:

- wind loads.

Special loads are:

- test loads.

The above loads are grouped into load cases in clause 4.

Continued on pages 2 to 12

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Ulrike Kuhlmann



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Stahlbau-Kalender 2017 Ulrike Kuhlmann, 2017-05-05 Dauerhaftigkeit ist die Zuverlässigkeit der Werkstoffe und Konstruktionen während der vorgesehenen Nutzungsdauer gegenüber Einwirkungen widerstandsfähig zu sein. Für eine ausreichende Dauerhaftigkeit müssen viele Voraussetzungen erfüllt sein, die entweder bei Planung und Fertigung eines Neubaus berücksichtigt werden müssen oder die Unterhaltung und Überwachung bestehender Tragwerke betreffen. Von besonderer Bedeutung ist die Dauerhaftigkeit für die Industrietragwerke und die Brücken wegen der hohen Lebensdauern. Der Themenbogen spannt sich deshalb von der Werkstoffwahl über Fragen der Konstruktion und Ermüdungsprüfung und Bewertung im Bestand bis hin zum Korrosionsschutz. Hinsichtlich der Stahlsortenauswahl werden grundsätzliche Hinweise gegeben und die Regelungen in DIN EN 1993 Teil 1-10 erläutert. Mit Korrosionsschutz und Feuerverzinken befassen sich zwei Beiträge. Die richtige Bewertung von Altstahlkonstruktionen kann Ressourcen schonen. Ein klassisches Gebiet des Stahlbaus sind die Ingenieurtragwerke des Industriebaus. Daher befassen sich Beiträge über Hallentragwerke und Kranbahnen, Schornsteine, Masten und Türme sowie Silos und Tanks mit aktuellen Entwicklungen und dem Stand der Technik. Die Erläuterungen zur neuen EU BauPVO und dem neuen bauaufsichtlichen Konzept aus erster Hand sind dringend nötig, denn es kommen die CE Kennzeichnung von Bauprodukten sowie Marktüberwachungsbehörden und EU Kommission anstelle der wohl bekannten Bauregelliste. Der Stahlbau Kalender ist ein Wegweiser für die richtige Berechnung und Konstruktion im gesamten Stahlbau, er dokumentiert und kommentiert verlässlich den aktuellen Stand der Stahlbau Regelwerke. Zur bauaufsichtlichen Einführung von Eurocode 3 werden seit der Ausgabe 2011 systematisch alle Teile der Norm mit ihren Nationalen Anhängen kommentiert.

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