

Cranes

Principles relating to steel structures
Design of cranes on vehicles

DIN
15 018
Part 3

Krane; 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 *DAS-Richtlinie* (DAS Guideline) 011, on condition that the stress cycles do not exceed the following values:

For SUE 480: $N_G = 2 \cdot 10^6$;

For SUE 690: $N_{\text{eq}} = 5 \cdot 10^4$

for SUE BBS: $N_0 = 2.5 \cdot 10^4$

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.

References

- 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:

- vertical loads

Synonymized locusts are:

- **trans. Nichols.**

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

Continued on pages 2 to 12

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Michael Seilmaier

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