

Krane
Grundsätze für Stahltragwerke
Berechnung von Fahrzeugkränen

DIN
15 018
 Teil 3

Cranes; principles for steel structures; stress analysis of mobile cranes
 Appareils de levage; principes pour les charpentes en acier; calculacion des grues mobiles

Ersatz für
 Ausgabe 01.83

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1 Anwendungsbereich

Diese Norm ist für Stahltragwerke gleitender Fahrzeugkrane anzuwenden mit Spannungsverhältnissen gleich oder leichter als St 3, Grenzspannungsverhältnis $\sigma_{\text{G}} = 0,25$ und Karbolen gleich oder besser als K3 nach DAST-Richtlinie 011, wenn die Spannungsspitze folgende Zahlen nicht überschreitet:

- Für StE 460 $N_{\text{G}} = 2 \cdot 10^6$
- StE 600 $N_{\text{G}} = 5 \cdot 10^6$
- StE 665 $N_{\text{G}} = 2,5 \cdot 10^6$

Sie enthält Abweichungen und Ergänzungen zu DIN 15 018 Teil 1, die in den besonderen Systemeigenschaften, Anforderungen und der besonderen Betriebsweise dieser Krane begründet sind.

Fahrzeugkrane haben Auslegersysteme – Grundausleger auch mit fest oder wippbar daran angeschlossener Spitzenausleger – welche schnell abgeklappt werden können und deren Grundausleger um eine horizontale Achse betriebsmäßig verstellbar ist.

Dazu gehören nach DIN 15 001 Teil 1 folgende Kranarten:

- Raupenkrane
- Mobilkrane
- Aufkrane
- Anhängerkrane
- Seilkrane

2 Inhalt der Berechnung

(Nach DIN 15 018 Teil 1, Ausgabe November 1984, Abschnitt 3)

3 Lastannahmen

Die auf das Tragwerk wirkenden Lasten werden eingeteilt in Hauptlasten, Zusatzlasten und Sonderlasten.

Hauptlasten sind:

- Eigenlasten
- Hublasten
- Dynamische Kräftewirkungen aus Heben und Senken
- Massenkräfte aus Antrieben
- Fishkräfte
- Kräfte aus Kranbetrieb oder Kranfahren auf Straße oder im Gelände

Zusatzlasten sind:

- Windlasten

Sonderlasten sind:

- Stoßlasten

Diese Lasten sind in Abschnitt 4 zu Lastfällen zusammengefaßt.

Fortsetzung Seite 2 bis 11

Normenausschuß Maschinenbau (NAM) im DIN Deutsches Institut für Normung e.V.

Herabsetzt nach Anhang 1 der Festsetzungen des Deutschen Instituts für Normung e.V. Berlin, gezeichnet

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Christian Drosten



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