

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 Anweisung der Deutschen Normen für Normung e.V. Berlin, gedruckt

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D Siedentop



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Design and Analysis of Fatigue Resistant Welded Structures Dieter Radaj, 1990-01-03 An English version of a successful German book Both traditional and modern concepts are described **Analytical and Experimental Methods for Residual Stress Effects in Fatigue** Robert L. Champoux, John H. Underwood, J. A. Kapp, 1988 *Proceedings of Crack Paths (CP 2009), Vicenza, Italy 2009*, **Background to SANS 10160** Johannes Verster Retief, Peter Dunaiski, 2009-10-01 This book provides practising SA structural design engineers with the background to and justification for the changes proposed in the new SANS 10160 standard Structural Design of Retractable Roof Structures Kazuo Ishii, 2000 Presenting state of the art data and recommendations for retractable roof structures this book is based on the findings of a working group established by the International Association of Shell and Spatial Structures It discusses non collapsible rigid frame type structures with rigid or flexible material stretched between frames and folding membrane types such as tents and pneumatics Civil Engineering, 1999 *Handbook of Mechanical Engineering* Heinrich Dubbel, 1994 Dubel's Handbook has provided generations of German speaking engineers with a comprehensive source of guidance and reference on which they can rely throughout their professional lives DLC Mechanical engineering *Applied Mechanics Reviews*, 2000 *ASTM Special Technical Publication*, 1988 **EAU 1980** Arbeitsausschuss "Ufereinfassungen" (Germany), 1982 **Engineering Design in Welded Constructions** International Institute of Welding, 1992 This volume contains the complete proceedings of the International Conference on Engineering Design in Welded Constructions part of the 45th Annual Assembly of the International Institute of Welding held in Madrid Spain 5-12 September 1992 Coverage ranges from the rules for engineering design to financial considerations and performance of welded structures The book provides a valuable account of recent advances in the understanding of welding design and performance for structural and mechanical engineers using welding in the construction or repair of structures and machines Fatigue Failure Considerations in Design, 1975 **Bulk Solids Handling**, 1995 **Jane's Freight Containers** George Downie, 1980 New Civil Engineer, 1979 *Fatigue Assessment of Welded Joints by Local Approaches* Dieter Radaj, C M Sonsino, W Fricke, 2006-10-30 Local approaches to fatigue assessment are used to predict the structural durability of welded joints to optimise their design and to evaluate unforeseen joint failures This standard work provides a systematic survey of the principles and practical applications of the various methods It covers the hot spot structural stress approach to fatigue in general the notch stress and notch strain approach to crack initiation and the fracture mechanics approach to crack propagation Seam welded and spot welded joints in structural steels and aluminium alloys are also considered This completely reworked second edition takes into account the tremendous progress in understanding and applying local approaches which has been achieved in the last decade It is a standard reference for designers structural analysts and testing engineers who are responsible for the fatigue resistant in service behaviour of welded structures World Wide Shipping, 1995 **Journal of Mechanisms**,

Transmissions, and Automation in Design ,1984
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