

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

Inhalt

	Seite		Seite
1 Anwendungsbereich	1	5 Berechnung	3
2 Inhalt der Berechnung	1	5.1 Lage der Drehebene	3
3 Lastannahmen	1	5.2 Bewegliche Lasten	3
3.1 Hauptlasten	1	5.3 Stoßlasten	3
3.1.1 Eigenlasten	1	5.4 Spannungsermittlung	4
3.1.2 Hublasten	1	6 Nachweise	4
3.1.3 Dynamische Kräftewirkungen aus Heben und Senken	1	6.1 Allgemeine Angaben	4
3.1.3.1 Hublastenwert q und Hubklassen	1	6.2 Nachweise nach geometrisch linearer Theorie	4
3.1.3.2 Querbremsschleunigung r	1	6.2.1 Allgemeiner Spannungsnachweis	4
3.1.3.3 Falllassen oder plötzliches Absetzen von Nutzlasten	1	6.2.2 Stabilitätsnachweis	4
3.1.4 Massenkraften aus Antrieben	1	6.3 Nachweis nach geometrisch linearer oder nicht-linearer Theorie (Methode der Teilsicherheitsbeurteile und Grenzspannungszustände)	4
3.1.5 Fishkräfte	1	6.3.1 Allgemeiner Spannungsnachweis	4
3.1.6 Kräfte aus Kranbetrieb oder Kranfahren auf Straße oder im Gelände	1	6.3.2 Stabilitätsnachweis	4
3.2 Zusatzlasten	1	6.4 Standsicherheitsnachweis	6
3.3 Sonderlast	1	7 Haken- und Abspannvorrichtung	6
4 Lastfälle	3	8 Seittriebe und Lasthaken	7

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 Ausleger Systeme – Grundausleger auch mit fest oder wippbar daran angeschlossener Spitzenausleger – welche schnell abgelassen 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
- Massenkraften 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 A zur Festlegung des für Festen reiner für Lösung 4 V. Best. gestellt

Din 15018 Design

M Planty



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6. In chapter 5, this book will draw a conclusion about Din 15018 Design. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Din 15018 Design.

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Table of Contents Din 15018 Design

1. Understanding the eBook Din 15018 Design

- The Rise of Digital Reading Din 15018 Design
- Advantages of eBooks Over Traditional Books
- 2. Identifying Din 15018 Design
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Din 15018 Design
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Din 15018 Design
 - Personalized Recommendations
 - Din 15018 Design User Reviews and Ratings
 - Din 15018 Design and Bestseller Lists
- 5. Accessing Din 15018 Design Free and Paid eBooks
 - Din 15018 Design Public Domain eBooks
 - Din 15018 Design eBook Subscription Services
 - Din 15018 Design Budget-Friendly Options
- 6. Navigating Din 15018 Design eBook Formats
 - ePub, PDF, MOBI, and More
 - Din 15018 Design Compatibility with Devices
 - Din 15018 Design Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Din 15018 Design
 - Highlighting and Note-Taking Din 15018 Design
 - Interactive Elements Din 15018 Design
- 8. Staying Engaged with Din 15018 Design
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Din 15018 Design

9. Balancing eBooks and Physical Books Din 15018 Design
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Din 15018 Design
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Din 15018 Design
 - Setting Reading Goals Din 15018 Design
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Din 15018 Design
 - Fact-Checking eBook Content of Din 15018 Design
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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