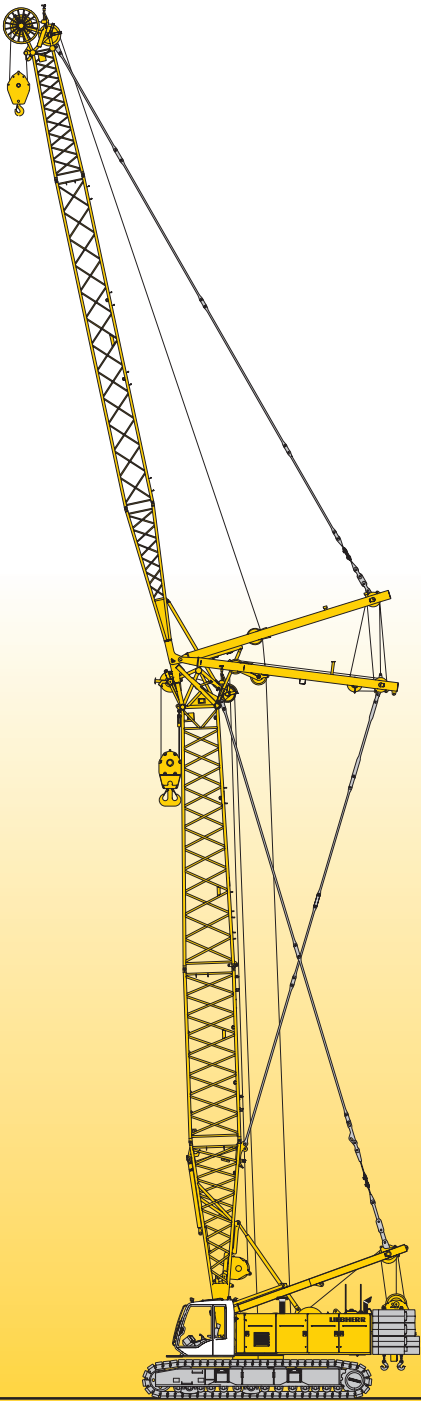




**Technische Daten**  
**Raupenkran**

**LR 1130**  
Litronic®

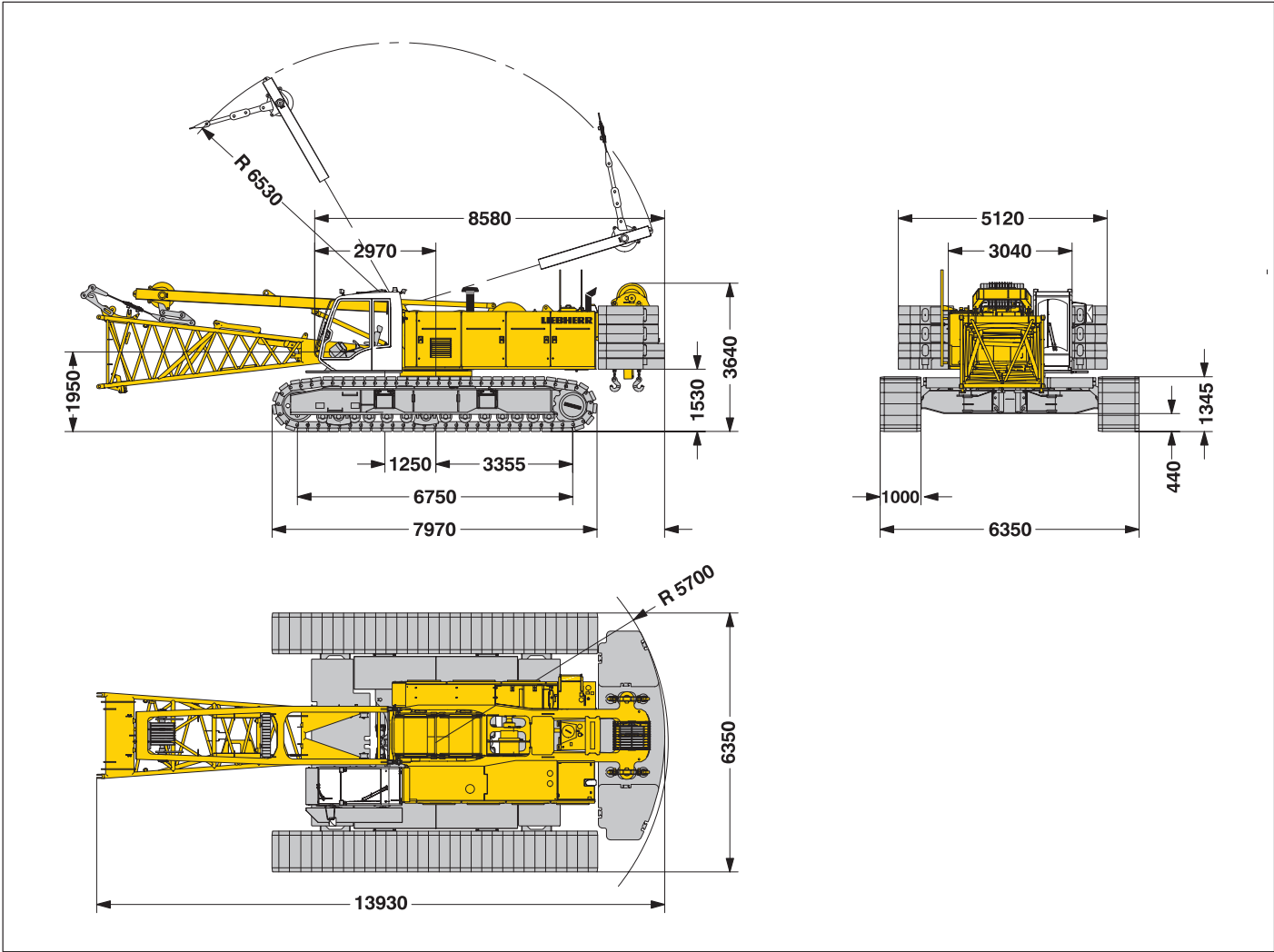


**LIEBHERR**



# Abmessungen

## Grundgerät mit Unterwagen



### Dienstgewicht

Die Dienstgewichte beinhalten das Grundgerät mit Plattenlaufwerk, 2 Hauptwinden 120 kN und 17 m Hauptausleger, bestehend aus Aufrichtmast, Anlenkstück (7 m) und Auslegerkopf (10 m), 50.9 t Oberwagenballast, 20 t Zentralballast und eine 160 t Hakenflasche.

Gesamtgewicht \_\_\_\_\_ ca. 146.1 t

### Bodenbelastung

Bodenbelastung \_\_\_\_\_ 1.08 kg/cm<sup>2</sup>

### Arbeitsausrüstung

Hauptausleger (No. 2017.xx) max. Länge \_\_\_\_\_ 80.0 m  
Leichtausleger (No. 2017.xx und 1309.xx) \_\_\_\_\_ 92.9 m  
Verstellbarer Nadelausleger (No. 1309.xx) max. Länge \_\_\_\_\_ 78.5 m  
Max. Kombination \_\_\_\_\_ Hauptausleger 47.0 m  
Verstellbarer Nadelausleger 78.5 m  
Feststehender Nadelausleger (No. 0806.xx) \_\_\_\_\_ 11 m – 32 m  
Spitzenausleger 24 t (optional 36 t)

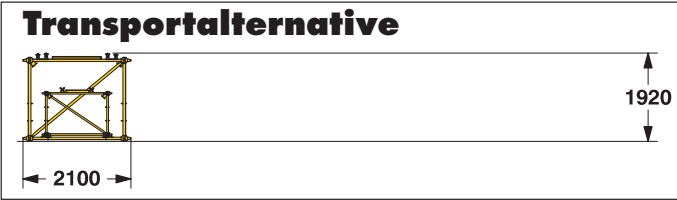
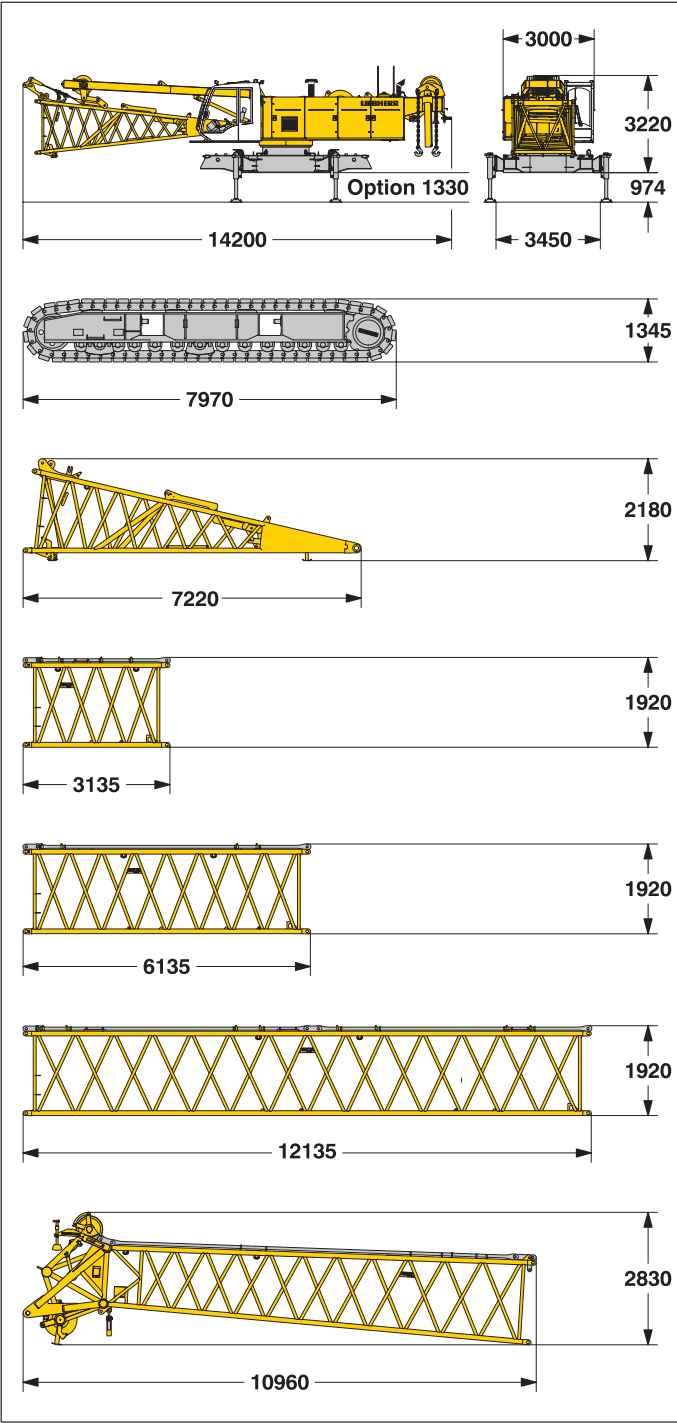
### Anmerkungen

1. Traglasten für Einsatz als Montagekran (entspricht Kraneinstufung nach F.E.M. 1.001, Krangruppe A1).
2. Die Maschine steht auf tragfähigem, waagrechtem Untergrund.
3. Das Gewicht des Lastaufnahmemittels (Hakenflasche, Hubseile, Schäkel usw.) ist von der Traglast abzuziehen.
4. Zusatzlasten am Ausleger (wie z.B. Podeste) sind von den Traglasten abzuziehen.
5. Die maximal zulässige Windgeschwindigkeit entnehmen Sie bitte dem Traglasttabellenbuch.
6. Die Ausladungen sind von Mitte Drehkranz und unter Last angegeben.
7. Die Traglasten sind in Tonnen angegeben und rundum schwenkbar.
8. Desweiteren sind für die Berechnung der Standsicherheit die DIN 15019 / Teil 2 / Tab. 1 und ISO 4305 Tab. 1 + 2, als auch die Kippwinkelmethode 4° zugrunde gelegt.
9. Für die Stahltragwerke gilt F.E.M. 1.001 – 1998 (prEN 13001 / T2 / 1997).



# Transportmaße und Gewichte

## Grundgerät und Hauptausleger (No.2017.xx)



\*) Inklusive Haltestangen

### Grundgerät

mit Aufrichtmast, 2x 120 kN Kranwinden und Anlenkstück, ohne Hubseile, Grundballast und Laufwerke

|         |    |       |
|---------|----|-------|
| Breite  | mm | 3000  |
| Gewicht | kg | 33400 |

### Laufwerk

2x

|                   |    |                      |
|-------------------|----|----------------------|
| Flachbodenplatten | mm | (optional 1200) 1000 |
| Breite            | mm | 1400                 |
| Gewicht           | kg | 16000                |

### Anlenkstück (No. 2017.24)

|                              |    |      |
|------------------------------|----|------|
| Breite                       | mm | 2100 |
| Gewicht mit Winde inkl. Seil | kg | 4100 |
| Gewicht ohne Winde           | kg | 2600 |

### Zwischenstück (No. 2017.21)

3 m

|          |    |      |
|----------|----|------|
| Breite   | mm | 2100 |
| Gewicht* | kg | 650  |

### Zwischenstück (No. 2017.21)

6 m

|          |    |      |
|----------|----|------|
| Breite   | mm | 2100 |
| Gewicht* | kg | 1040 |

### Zwischenstück (No. 2017.21)

12 m

|          |    |      |
|----------|----|------|
| Breite   | mm | 2100 |
| Gewicht* | kg | 1900 |

### Auslegerkopf (No. 2017.21)

|          |    |      |
|----------|----|------|
| Breite   | mm | 2100 |
| Gewicht* | kg | 3100 |

### Transportalternative

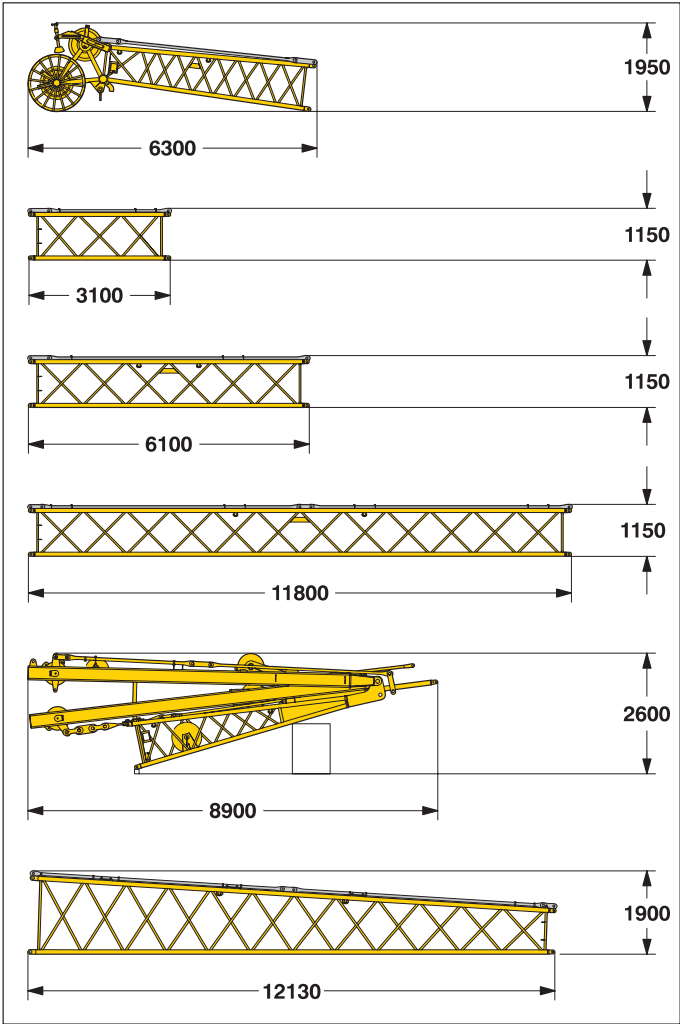
12 m Haupt – und 11.7 m Nadelauslegerzwischenstück  
6 m Haupt – und 6.0 m Nadelauslegerzwischenstück

|                       |       |            |
|-----------------------|-------|------------|
| (No. 2017.xx/1309.xx) | 6m/6m | 12m/11.7m  |
| Länge                 | mm    | 6130 12130 |
| Gewicht*              | kg    | 1560 2860  |



# Transportmaße und Gewichte

Verstellbarer Nadelausleger (No. 1309.xx)



| Nadelkopf (No. 1309.22) |    |  |      |
|-------------------------|----|--|------|
| Breite                  | mm |  | 1390 |
| Gewicht*                | kg |  | 1600 |

| Zwischenstück (No. 1309.20) 3 m |    |  |      |
|---------------------------------|----|--|------|
| Breite                          | mm |  | 1390 |
| Gewicht*                        | kg |  | 420  |

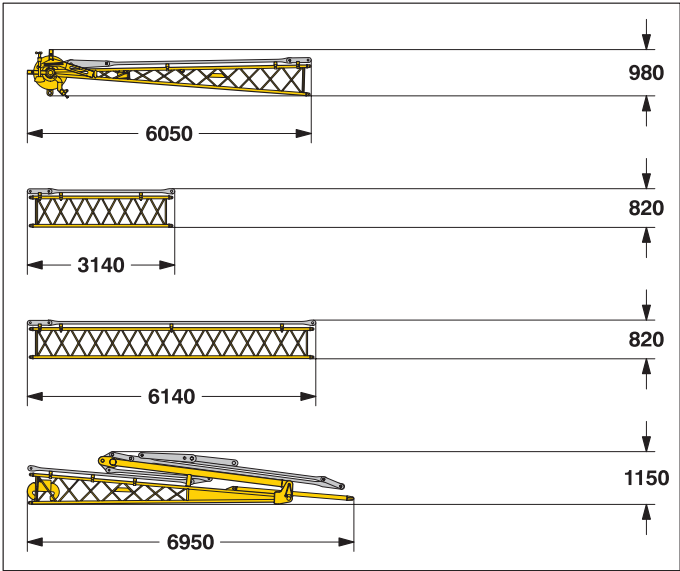
| Zwischenstück (No. 1309.20) 6 m |    |  |      |
|---------------------------------|----|--|------|
| Breite                          | mm |  | 1390 |
| Gewicht*                        | kg |  | 520  |

| Zwischenstück (No. 1309.20) 11.7 m |    |  |      |
|------------------------------------|----|--|------|
| Breite                             | mm |  | 1390 |
| Gewicht*                           | kg |  | 960  |

| Anlenkstück mit A-Böcken (No. 1309.22) |    |  |      |
|----------------------------------------|----|--|------|
| Breite                                 | mm |  | 1700 |
| Gewicht*                               | kg |  | 4450 |

| Reduzierstück (No. 2017/1309.20) 12 m |    |  |      |
|---------------------------------------|----|--|------|
| Breite                                | mm |  | 2100 |
| Gewicht*                              | kg |  | 1060 |

## Feststehender Nadelausleger (No. 0806.xx)



| Nadelkopf (No. 0806.16) |    |  |     |
|-------------------------|----|--|-----|
| Breite                  | mm |  | 950 |
| Gewicht*                | kg |  | 460 |

| Zwischenstück (No. 0806.15) 3 m |    |  |     |
|---------------------------------|----|--|-----|
| Breite                          | mm |  | 950 |
| Gewicht*                        | kg |  | 145 |

| Zwischenstück (No. 0806.15) 6 m |    |  |     |
|---------------------------------|----|--|-----|
| Breite                          | mm |  | 950 |
| Gewicht*                        | kg |  | 250 |

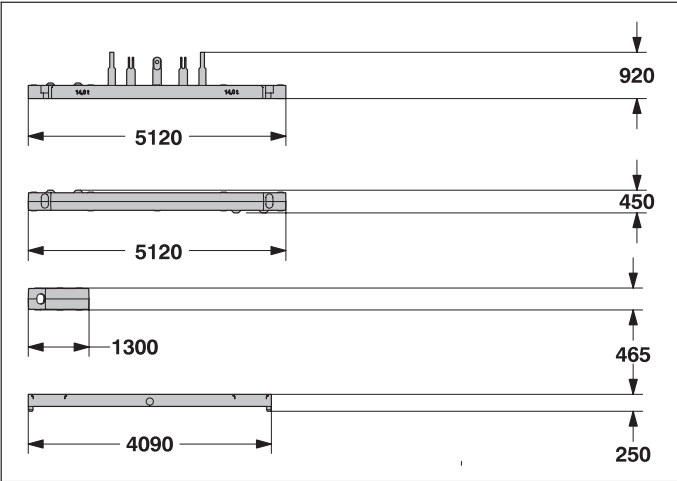
| Anlenkstück mit A-Bock (No. 0806.16) |    |  |      |
|--------------------------------------|----|--|------|
| Breite                               | mm |  | 2200 |
| Gewicht*                             | kg |  | 1010 |

\*) Inklusive Haltestangen



# Transportmaße und Gewichte

## Ballaste



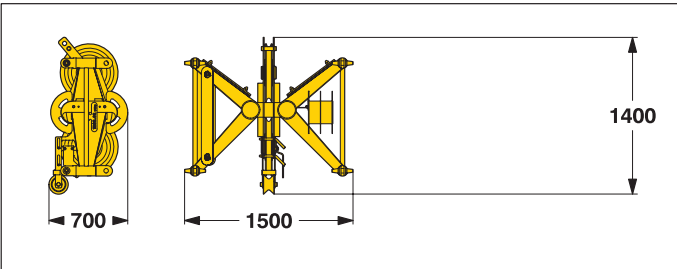
| Ballastplatte |    | 1x    |
|---------------|----|-------|
| Breite        | mm | 1660  |
| Gewicht       | kg | 14500 |

| Ballastplatte |    | 1x    |
|---------------|----|-------|
| Breite        | mm | 1660  |
| Gewicht       | kg | 16300 |

| Ballastplatte |    | 4x   |
|---------------|----|------|
| Breite        | mm | 1360 |
| Gewicht       | kg | 5100 |

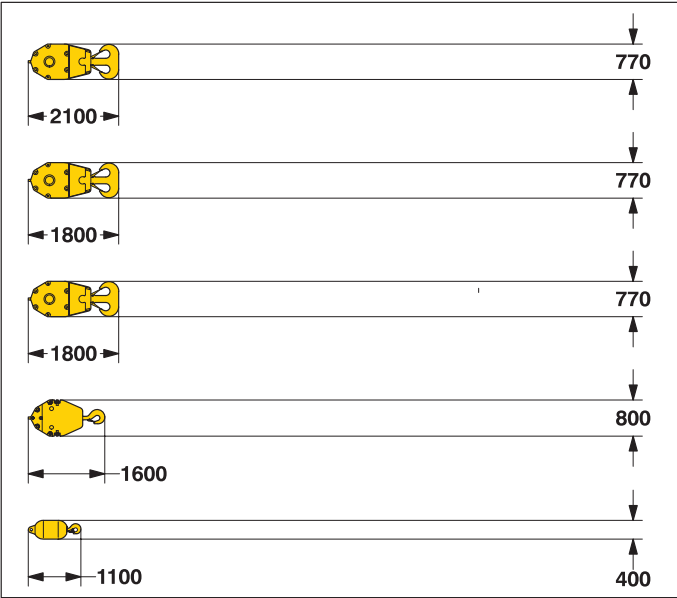
| Zentralballastplatte |    | 2x    |
|----------------------|----|-------|
| Breite               | mm | 1450  |
| Gewicht              | kg | 10000 |

## Mid fall (optional)



| Mid fall Zwischenstück (No. 1309.32) |    | 0.35 m |
|--------------------------------------|----|--------|
| Breite                               | mm | 700    |
| Gewicht                              | kg | 270    |

## Haken



| 160 t Hakenflasche - 7 Rollen |                       |
|-------------------------------|-----------------------|
| Breite                        | mm 640 — 760 — 880    |
| Gewicht                       | kg 1500 — 2250 — 3000 |

| 100 t Hakenflasche - 5 Rollen |                       |
|-------------------------------|-----------------------|
| Breite                        | mm 540 — 670 — 770    |
| Gewicht                       | kg 1300 — 1800 — 2300 |

| 80 t Hakenflasche - 3 Rollen |                       |
|------------------------------|-----------------------|
| Breite                       | mm 360 — 460 — 560    |
| Gewicht                      | kg 1000 — 1500 — 2000 |

| 40 t Hakenflasche - 1 Rolle |                      |
|-----------------------------|----------------------|
| Breite                      | mm 300 — 400 — 500   |
| Gewicht                     | kg 700 — 1100 — 1500 |

| 12.5 t Einzelhaken |        |
|--------------------|--------|
| Breite             | mm 400 |
| Gewicht            | kg 600 |



# Technische Beschreibung



## Motor

Leistung nach ISO 9249, 270 kW (367 PS) bei 2000 U/min  
Modell \_\_\_\_\_ Liebherr D 936 L A6  
Kraftstofftank \_\_\_\_\_ 830 l Tankinhalt mit kontinuierlicher  
Niveauanzeige und Reserveangabe  
Der Dieselmotor entspricht der Abgaszertifizierung für mobile Maschinen  
nach EPA/CARB Tier 3 und 97/68 EG Stufe III



## Hydraulikanlage

Eine doppelte Verstellpumpe versorgt die Hydraulikanlage im offenen  
Kreislauf und ermöglicht das gleichzeitige Fahren aller Bewegungen. Um  
hydraulische Druckspitzen abzufangen wurde eine automatisch arbeitende  
Druckabschneidung integriert.  
Alle Filter werden elektronisch überwacht.  
Die Verwendung synthetischer, umweltfreundlicher Öle ist möglich.  
Arbeitsdruck \_\_\_\_\_ max. 350 bar  
Hydrauliktankinhalt \_\_\_\_\_ 650 l



## Nadelausleger-Verstellwinde

Seilzug \_\_\_\_\_ max. 105 kN  
Seildurchmesser \_\_\_\_\_ 20 mm  
Verstellung Nadelausleger von 15° bis 78° in 46 sec.



## Hauptausleger-Verstellwinde

Seilzug \_\_\_\_\_ max. 217 kN  
Seildurchmesser \_\_\_\_\_ 24 mm  
Verstellung Hauptausleger von 15° bis 86° in 96 sec.



## Schwenkwerk

Rollendrehkranz mit außenliegender Verzahnung, Schwenkwerk mit  
Axialkolbenmotor, hydraulisch lüftbare Lamellenbremse, Planeten-  
getriebe und Drehwerksritzel.  
Das Schwenkwerk kann sowohl mit Geschwindigkeitsvorwahl wie auch im  
Freilauf betrieben werden.  
Bei der Geschwindigkeitsvorwahl schließt eine Lamellenbremse  
(Stillstandsbremse), wenn keine Drehbewegung vorhanden ist.  
Drehwerksgeschwindigkeit 0 – 3 U/min stufenlos regelbar.



## Windwerke

Seilzug in der 1. Lage \_\_\_\_\_ max. 175 kN  
Seilzug in der 7. Lage \_\_\_\_\_ 120 kN  
Seildurchmesser \_\_\_\_\_ 26 mm  
Seiltrommeldurchmesser \_\_\_\_\_ 580 mm  
Seilgeschwindigkeit m/min \_\_\_\_\_ 0 – 136  
Seilkapazität in 7 Lagen \_\_\_\_\_ 489 m  
Die Winden zeichnen sich durch ihre kompakte, montagefreundliche  
Bauweise aus.  
In Öl laufende, innenliegende, wartungsarme Planetengetriebe.  
Lastabstützung über Hydraulikanlage, zusätzliche Sicherheit durch  
federbelastete Lamellenbremse (Stillstandsbremse).  
Für die Hauptwinden werden hochdruckgeregelte Verstellölmotoren  
verwendet. Diese erlauben schon im Teillastbereich die volle Ausnutzung der  
installierten Motorleistung durch Geschwindigkeitsanpassung an den  
jeweiligen Seilzug.  
Auf Wunsch – Winde mit Freifalleinrichtung:  
Bei der Freifalleinrichtung wird sowohl die Kupplungs– als auch die  
Bremsfunktion über die Arbeitsbremse realisiert. Diese Bremse ist eine  
verschleißarme, wartungsfreie Lamellenbremse in kompakter Bauweise.



## Fahrwerk

Fahrwerksantrieb mit Axialkolbenmotor, hydraulisch lüftbare, federbelastete  
Lamellenbremse, Laufwerk mit hydraulischer Kettenspannung.  
Flachbodenplatten \_\_\_\_\_ 1000 mm  
Fahrgeschwindigkeit \_\_\_\_\_ 0 – 2.1 km/h



## Steuerung

Die von Liebherr entwickelte und im eigenen Haus gefertigte Steuerung ist für  
den harten Baustelleneinsatz und extreme Umweltbedingungen wie große  
Temperaturschwankungen, starke Vibrationen und elektromagnetische  
Interferenzen konzipiert.  
Alle Betriebsdaten des Gerätes werden auf einem kontraststarken Bildschirm  
angezeigt.  
Standard–Betriebsinformationen erscheinen in Form von Symbolen,  
Fehleranzeigen im Klartext auf dem Bildschirm (mehr als 15 Sprachen  
verfügbar).  
Eine elektrohydraulische, stufenlose Proportionalsteuerung ermöglicht das  
Fahren aller Bewegungen gleichzeitig.  
Die Bedienung erfolgt über 2 Einhebel–Kreuzschaltungen für “Winde I und  
Einziehwerk” und für “Winde II und Drehwerk”.  
Auf Wunsch:  
Doppel–T–Hebel für den gleichzeitigen Betrieb von Winde und verstellbarem  
Nadelausleger.  
Das Fahrwerk wird über zwei Fußpedale gesteuert und kann über zwei Hebel  
in eine Hand–Fahrwerks–Steuerung umgewandelt werden.  
Fernsteuerung für die Heckballastmontage.

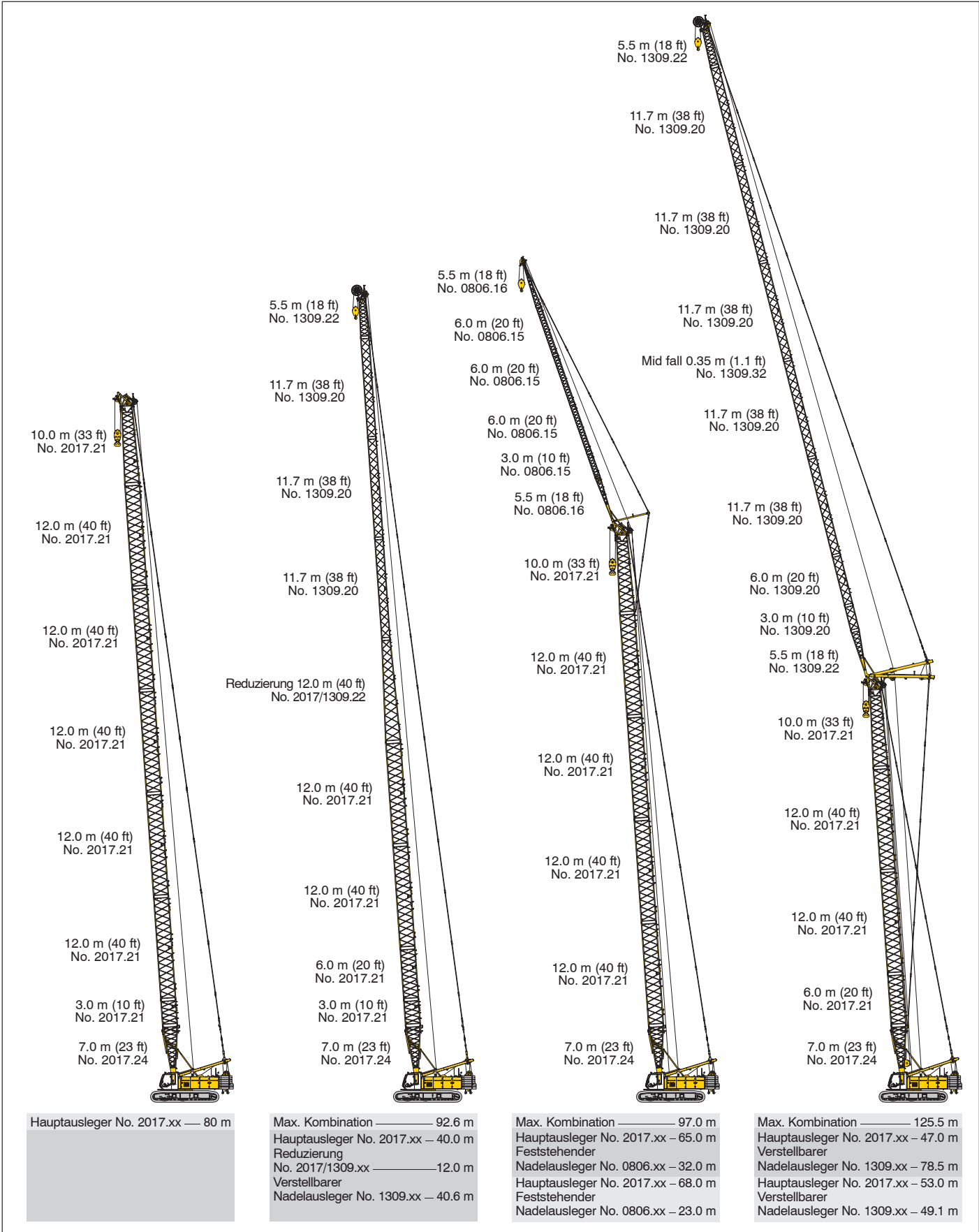


## Schallemission

Die Schallemissionen entsprechen der Richtlinie 2000/14/EG über  
Geräuschemissionen von zur Verwendung im Freien vorgesehenen Geräten  
und Maschinen.

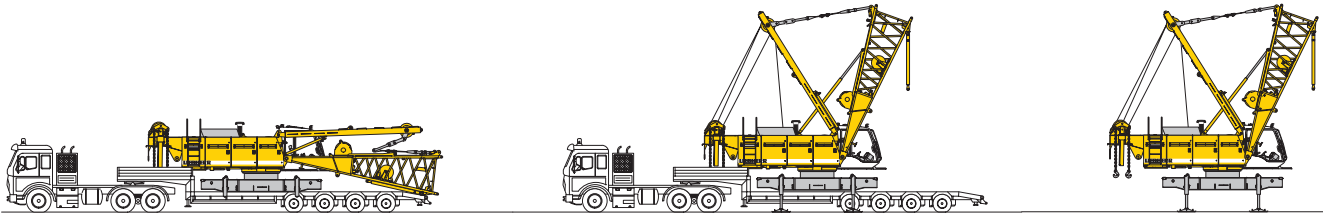


# Auslegerkombinationen

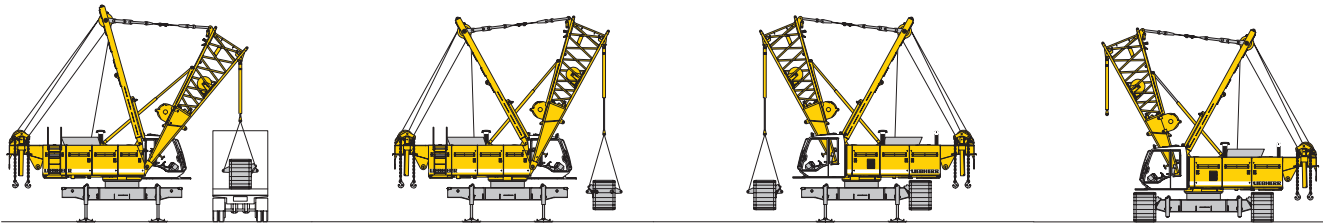




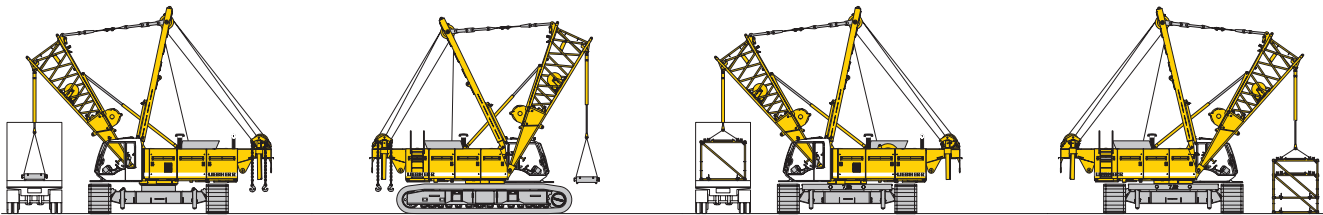
# Selbstmontage-System



Entladung des Grundgerätes

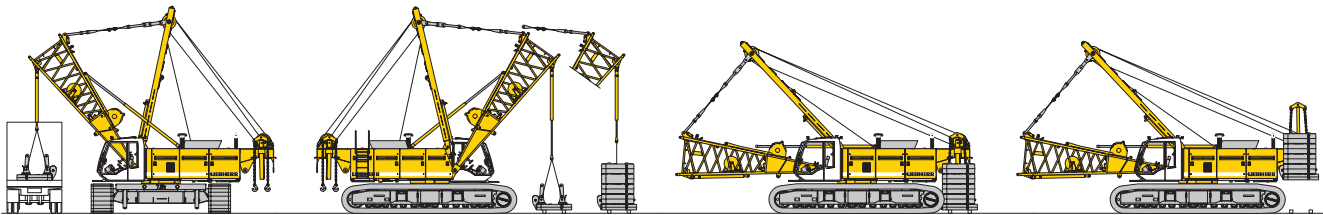


Entladung und Anbau der Laufwerke

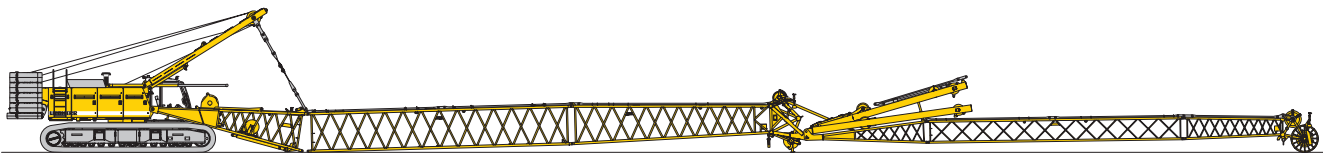


Entladung und Anbau des Zentralballastes

Entladung und Zusammenbau des Auslegers



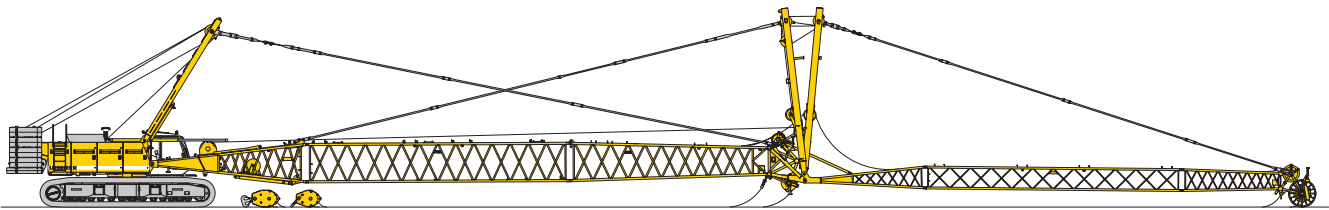
Entladung, Zusammen- und Anbau des Gegengewichtes



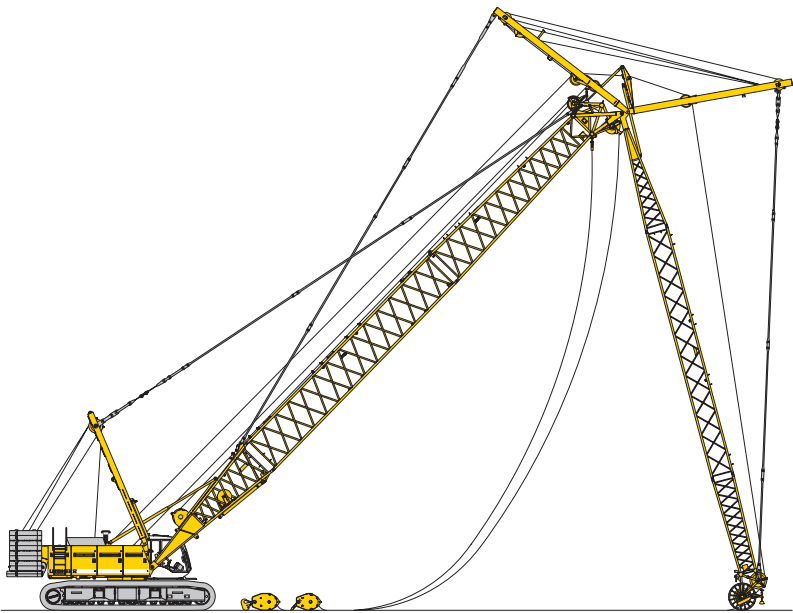
Anbau des Auslegers



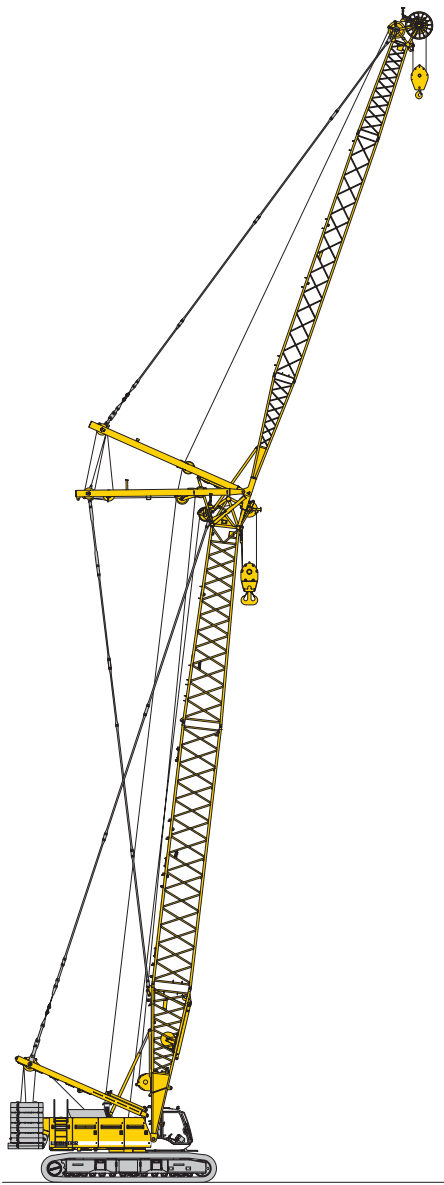
# Ausleger aufrichten – Kran in Arbeitsposition



Einziehen der Hub- und Nadelseile



Haupt- und Nadelausleger anheben



Kran in Arbeitsposition

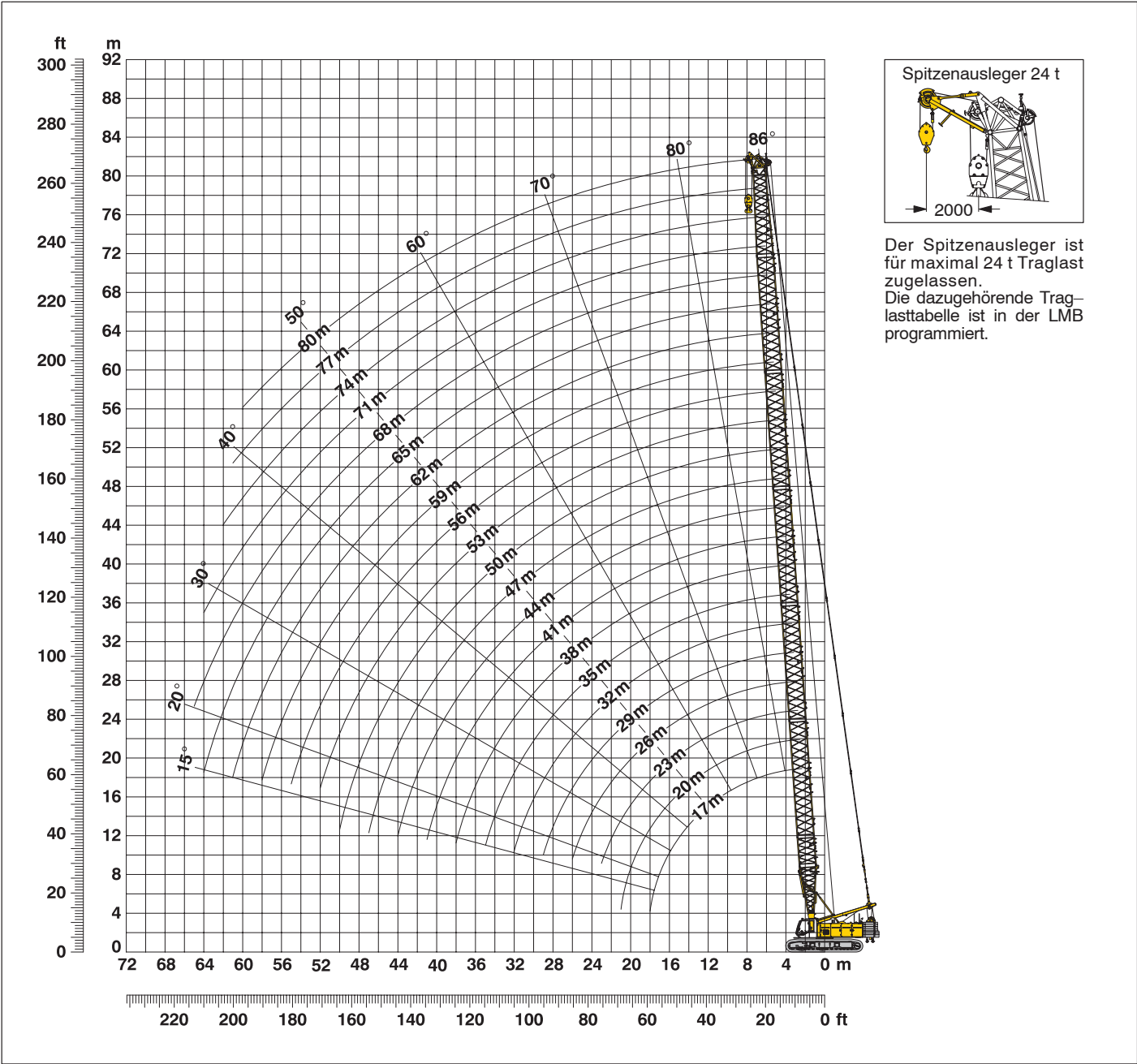


# Hauptausleger

(No. 2017.xx)

50.9 t Ballast und 20 t Zentralballast

# 86° - 15°





# Traglasten – Hauptausleger (No. 2017.xx)

| Traglasten in t bei Hauptauslegerlängen von 17 m bis 80 m – mit 120 kN Winden<br>50.9 t Ballast und 20 t Zentralballast |                        |       |       |      |      |      |      |      |      |      |      |      |        |
|-------------------------------------------------------------------------------------------------------------------------|------------------------|-------|-------|------|------|------|------|------|------|------|------|------|--------|
| Radius                                                                                                                  | Hauptauslegerlänge (m) |       |       |      |      |      |      |      |      |      |      |      | Radius |
|                                                                                                                         | 17                     | 20    | 26    | 32   | 38   | 44   | 50   | 56   | 62   | 68   | 74   | 80   |        |
| (m)                                                                                                                     | t                      | t     | t     | t    | t    | t    | t    | t    | t    | t    | t    | t    | (m)    |
| 3.4                                                                                                                     | 137.2                  |       |       |      |      |      |      |      |      |      |      |      | 3.4    |
| 4                                                                                                                       | 137.2                  | 133.4 |       |      |      |      |      |      |      |      |      |      | 4      |
| 5                                                                                                                       | 112.8                  | 108.4 | 106.9 | 97.3 | 79.4 |      |      |      |      |      |      |      | 5      |
| 6                                                                                                                       | 94.8                   | 97.3  | 87.0  | 87.7 | 74.6 | 62.0 | 52.7 |      |      |      |      |      | 6      |
| 7                                                                                                                       | 85.7                   | 77.6  | 81.1  | 73.9 | 68.3 | 55.7 | 50.3 | 44.5 | 36.7 | 29.1 |      |      | 7      |
| 8                                                                                                                       | 73.0                   | 74.1  | 71.1  | 67.7 | 61.9 | 52.4 | 46.6 | 42.5 | 35.0 | 28.9 | 23.4 | 18.9 | 8      |
| 9                                                                                                                       | 64.9                   | 63.4  | 61.7  | 61.2 | 56.1 | 48.6 | 44.1 | 41.2 | 33.9 | 27.7 | 22.6 | 18.8 | 9      |
| 10                                                                                                                      | 60.2                   | 56.4  | 57.0  | 52.3 | 52.3 | 44.4 | 41.5 | 39.2 | 32.9 | 26.7 | 21.8 | 18.0 | 10     |
| 12                                                                                                                      | 49.4                   | 49.4  | 44.4  | 45.3 | 42.2 | 39.4 | 37.4 | 36.2 | 30.3 | 24.7 | 20.4 | 16.9 | 12     |
| 14                                                                                                                      | 40.8                   | 40.8  | 40.7  | 38.9 | 38.2 | 33.0 | 31.2 | 32.0 | 28.4 | 22.2 | 19.0 | 15.6 | 14     |
| 16                                                                                                                      | 34.0                   | 33.9  | 32.9  | 33.9 | 31.2 | 30.6 | 28.3 | 27.9 | 25.4 | 21.0 | 18.0 | 14.7 | 16     |
| 18                                                                                                                      | 12.1                   | 29.1  | 29.0  | 28.9 | 28.7 | 27.2 | 25.7 | 24.9 | 21.7 | 19.4 | 16.7 | 13.8 | 18     |
| 20                                                                                                                      |                        | 25.2  | 25.2  | 25.1 | 24.9 | 24.5 | 21.4 | 22.0 | 21.0 | 18.2 | 15.6 | 12.9 | 20     |
| 22                                                                                                                      |                        |       | 22.1  | 22.0 | 21.2 | 21.6 | 20.2 | 19.8 | 19.0 | 17.2 | 14.6 | 10.9 | 22     |
| 24                                                                                                                      |                        |       | 19.6  | 19.6 | 19.3 | 19.1 | 18.9 | 18.0 | 17.1 | 15.7 | 13.9 | 10.4 | 24     |
| 26                                                                                                                      |                        |       | 17.5  | 17.5 | 17.3 | 17.1 | 16.8 | 16.5 | 15.5 | 14.3 | 12.8 | 10.1 | 26     |
| 28                                                                                                                      |                        |       |       | 15.8 | 15.6 | 15.4 | 15.1 | 14.9 | 14.2 | 13.1 | 10.8 | 9.5  | 28     |
| 30                                                                                                                      |                        |       |       | 14.3 | 14.1 | 13.9 | 13.6 | 13.4 | 13.1 | 12.2 | 10.2 | 9.0  | 30     |
| 32                                                                                                                      |                        |       |       | 13.0 | 12.8 | 12.6 | 12.4 | 12.1 | 11.0 | 11.2 | 9.7  | 8.5  | 32     |
| 34                                                                                                                      |                        |       |       |      | 11.8 | 11.4 | 11.3 | 10.8 | 10.3 | 10.3 | 9.3  | 8.1  | 34     |
| 36                                                                                                                      |                        |       |       |      | 10.8 | 10.6 | 10.4 | 10.1 | 9.6  | 9.4  | 8.7  | 7.8  | 36     |
| 38                                                                                                                      |                        |       |       |      | 9.9  | 9.7  | 9.5  | 9.2  | 8.9  | 8.6  | 8.0  | 7.4  | 38     |
| 40                                                                                                                      |                        |       |       |      |      | 9.0  | 8.7  | 8.4  | 8.1  | 7.9  | 7.3  | 6.8  | 40     |
| 42                                                                                                                      |                        |       |       |      |      | 8.2  | 8.0  | 7.7  | 7.4  | 7.2  | 6.7  | 6.2  | 42     |
| 44                                                                                                                      |                        |       |       |      |      | 7.6  | 7.3  | 7.1  | 6.8  | 6.5  | 6.1  | 5.7  | 44     |
| 46                                                                                                                      |                        |       |       |      |      |      | 6.8  | 6.5  | 6.2  | 6.0  | 5.6  | 5.2  | 46     |
| 50                                                                                                                      |                        |       |       |      |      |      | 5.7  | 5.5  | 5.2  | 4.9  | 4.6  | 4.3  | 50     |
| 55                                                                                                                      |                        |       |       |      |      |      |      | 4.4  | 4.2  | 3.9  | 3.6  | 3.3  | 55     |
| 60                                                                                                                      |                        |       |       |      |      |      |      |      | 3.3  | 3.0  | 2.7  | 2.4  | 60     |
| 65                                                                                                                      |                        |       |       |      |      |      |      |      |      | 2.3  |      |      | 65     |

Oben angeführte Traglastwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.

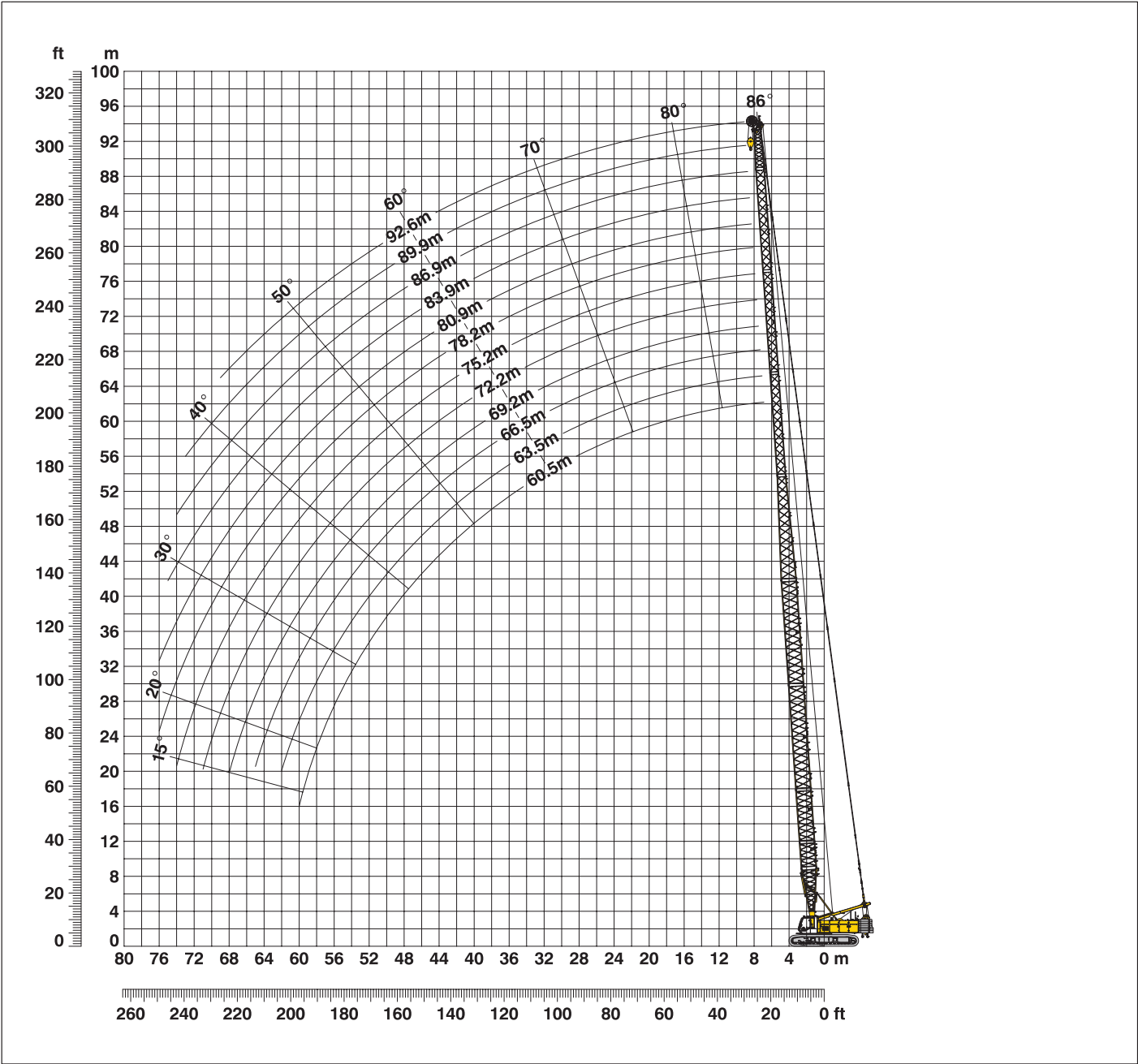


Leichtausleger

(No. 2017 / 1309.xx)

60.5 m - 92.9 m

Arbeitsbereich 86° - 15°



Leichtauslegerzusammenbau mit 40 m Hauptausleger

(No. 2017.xx / No. 1309.xx)

| Auslegerzusammenbau für Leichtauslegerlängen von 60.5 m bis 92.6 m |        |                                           |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------|--------|-------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                    | Länge  | Anzahl der Haupt- und Nadelauslegerstücke |      |      |      |      |      |      |      |      |      |      |      |
| Anlenkstück                                                        | 7.0 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Z-Stück                                                            | 3.0 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Z-Stück                                                            | 6.0 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Z-Stück                                                            | 12.0 m | 2                                         | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Reduzierung                                                        | 12.0 m | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Nadel-Z-Stück                                                      | 3.0 m  | 1                                         |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      |
| Nadel-Z-Stück                                                      | 6.0 m  |                                           | 1    | 1    |      |      | 1    | 1    |      |      | 1    | 1    |      |
| Nadel-Z-Stück                                                      | 11.7 m |                                           |      |      | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 3    |
| Nadelkopf                                                          | 5.5 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Max. Leichtauslegerlänge (m)                                       |        | 60.5                                      | 63.5 | 66.5 | 69.5 | 72.2 | 75.2 | 78.2 | 80.9 | 83.9 | 86.9 | 89.9 | 92.6 |



# Traglasten – Leichtausleger (No. 2017 / 1309.xx)

## Hauptausleger 40 m

| Traglasten in t<br>50.9 t Ballast und 20 t Zentralballast |                         |      |      |      |      |
|-----------------------------------------------------------|-------------------------|------|------|------|------|
|                                                           | Leichtauslegerlänge (m) |      |      |      |      |
|                                                           | 60.5                    | 72.2 | 80.9 | 89.9 | 92.6 |
| Radius (m)                                                | t                       | t    | t    | t    | t    |
| 6                                                         | 40.0                    |      |      |      |      |
| 7                                                         | 39.5                    | 21.7 |      |      |      |
| 8                                                         | 37.8                    | 21.3 | 13.4 |      |      |
| 9                                                         | 34.6                    | 20.7 | 12.8 | 7.7  | 6.8  |
| 12                                                        | 29.3                    | 18.6 | 11.2 | 6.9  | 6.0  |
| 14                                                        | 25.6                    | 17.5 | 10.4 | 6.4  | 5.6  |
| 16                                                        | 22.3                    | 16.3 | 9.7  | 6.1  | 5.3  |
| 18                                                        | 19.9                    | 15.4 | 9.0  | 5.6  | 5.0  |
| 20                                                        | 18.2                    | 14.2 | 8.5  | 5.3  | 4.7  |
| 22                                                        | 16.7                    | 13.3 | 7.9  | 5.0  | 4.5  |
| 24                                                        | 15.6                    | 12.6 | 7.5  | 4.8  | 4.2  |
| 26                                                        | 14.4                    | 10.8 | 7.1  | 4.6  | 4.0  |
| 28                                                        | 13.1                    | 10.5 | 6.5  | 4.4  | 3.9  |
| 30                                                        | 11.7                    | 10.2 | 6.1  | 4.1  | 3.7  |
| 32                                                        | 11.5                    | 9.5  | 5.7  | 3.8  | 3.4  |
| 34                                                        | 10.5                    | 8.8  | 5.4  | 3.6  | 3.2  |
| 36                                                        | 9.6                     | 8.3  | 5.2  | 3.4  | 3.0  |
| 38                                                        | 8.9                     | 7.8  | 5.0  | 3.3  | 2.8  |
| 40                                                        | 8.3                     | 7.2  | 4.9  | 3.2  | 2.7  |
| 42                                                        | 7.6                     | 6.7  | 4.7  | 3.1  | 2.7  |
| 44                                                        | 7.1                     | 6.3  | 4.6  | 3.0  | 2.6  |
| 46                                                        | 6.6                     | 5.9  | 4.4  | 2.9  | 2.5  |
| 50                                                        | 5.7                     | 5.2  | 4.2  | 2.7  | 2.4  |
| 55                                                        | 4.8                     | 4.4  | 3.7  | 2.6  | 2.2  |
| 60                                                        | 4.0                     | 3.7  | 3.2  | 2.3  | 2.1  |
| 65                                                        |                         | 3.2  | 2.7  | 2.1  | 2.1  |
| 70                                                        |                         | 2.6  | 2.2  | 2.3  |      |
| 75                                                        |                         |      | 2.2  |      |      |

## Hauptausleger 52 m

| Traglasten in t<br>50.9 t Ballast und 20 t Zentralballast |                         |      |      |      |      |
|-----------------------------------------------------------|-------------------------|------|------|------|------|
|                                                           | Leichtauslegerlänge (m) |      |      |      |      |
|                                                           | 72.5                    | 78.5 | 84.2 | 90.2 | 92.9 |
| Radius (m)                                                | t                       | t    | t    | t    | t    |
| 6.9                                                       | 26.5                    |      |      |      |      |
| 8                                                         | 26.1                    | 20.3 | 16.0 |      |      |
| 9                                                         | 25.3                    | 20.0 | 15.8 | 11.2 | 9.3  |
| 12                                                        | 22.7                    | 18.4 | 14.6 | 10.4 | 8.5  |
| 14                                                        | 21.3                    | 17.3 | 13.8 | 9.9  | 8.0  |
| 16                                                        | 19.2                    | 16.0 | 13.1 | 9.4  | 7.5  |
| 18                                                        | 17.7                    | 14.8 | 12.4 | 8.9  | 7.0  |
| 20                                                        | 15.6                    | 13.7 | 10.4 | 8.5  | 6.6  |
| 22                                                        | 13.9                    | 12.4 | 9.6  | 8.1  | 6.2  |
| 24                                                        | 12.8                    | 10.0 | 8.8  | 7.4  | 5.9  |
| 26                                                        | 11.5                    | 9.5  | 8.2  | 6.9  | 5.6  |
| 28                                                        | 11.1                    | 9.1  | 7.8  | 6.5  | 5.4  |
| 30                                                        | 10.8                    | 8.8  | 7.5  | 6.2  | 5.1  |
| 32                                                        | 9.8                     | 8.6  | 7.3  | 6.0  | 4.8  |
| 34                                                        | 8.9                     | 7.9  | 7.1  | 5.8  | 4.6  |
| 36                                                        | 8.2                     | 7.3  | 6.6  | 5.6  | 4.4  |
| 38                                                        | 7.6                     | 6.8  | 6.1  | 5.3  | 4.2  |
| 40                                                        | 7.0                     | 6.4  | 5.7  | 4.9  | 4.0  |
| 42                                                        | 6.4                     | 6.0  | 5.3  | 4.6  | 3.9  |
| 44                                                        | 5.9                     | 5.5  | 5.0  | 4.3  | 3.8  |
| 46                                                        | 5.5                     | 5.1  | 4.6  | 4.0  | 3.6  |
| 48                                                        | 5.1                     | 4.7  | 4.3  | 3.7  | 3.6  |
| 50                                                        | 4.8                     | 4.4  | 4.0  | 3.4  | 3.3  |
| 55                                                        | 4.0                     | 3.6  | 3.4  | 2.8  | 2.7  |
| 60                                                        | 3.3                     | 3.1  | 2.8  | 2.3  | 2.3  |
| 65                                                        | 2.8                     | 2.5  | 2.3  | 2.3  | 2.2  |
| 70                                                        | 2.3                     | 2.1  | 2.1  |      |      |
| 75                                                        |                         | 2.0  |      |      |      |

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## Leichtauslegerzusammenbau mit 52 m Hauptausleger (No. 2017.xx / No. 1309.xx)

| Auslegerzusammenbau für Leichtauslegerlängen von 72.5 m bis 92.9 m |        |                                           |      |      |      |      |      |      |      |
|--------------------------------------------------------------------|--------|-------------------------------------------|------|------|------|------|------|------|------|
|                                                                    | Länge  | Anzahl der Haupt- und Nadelauslegerstücke |      |      |      |      |      |      |      |
|                                                                    |        |                                           |      |      |      |      |      |      |      |
| Anlenkstück                                                        | 7.0 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Z-Stück                                                            | 3.0 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Z-Stück                                                            | 6.0 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Z-Stück                                                            | 12.0 m | 3                                         | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| Reduzierstück                                                      | 12.0 m | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Nadel-Z-Stück                                                      | 3.0 m  | 1                                         |      | 1    |      | 1    |      | 1    |      |
| Nadel-Z-Stück                                                      | 6.0 m  |                                           | 1    | 1    |      |      | 1    | 1    |      |
| Nadel-Z-Stück                                                      | 11.7 m |                                           |      |      | 1    | 1    | 1    | 1    | 2    |
| Nadelkopf                                                          | 5.5 m  | 1                                         | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Max. Leichtauslegerlänge (m)                                       |        | 72.5                                      | 75.5 | 78.5 | 81.2 | 84.2 | 87.2 | 90.2 | 92.9 |

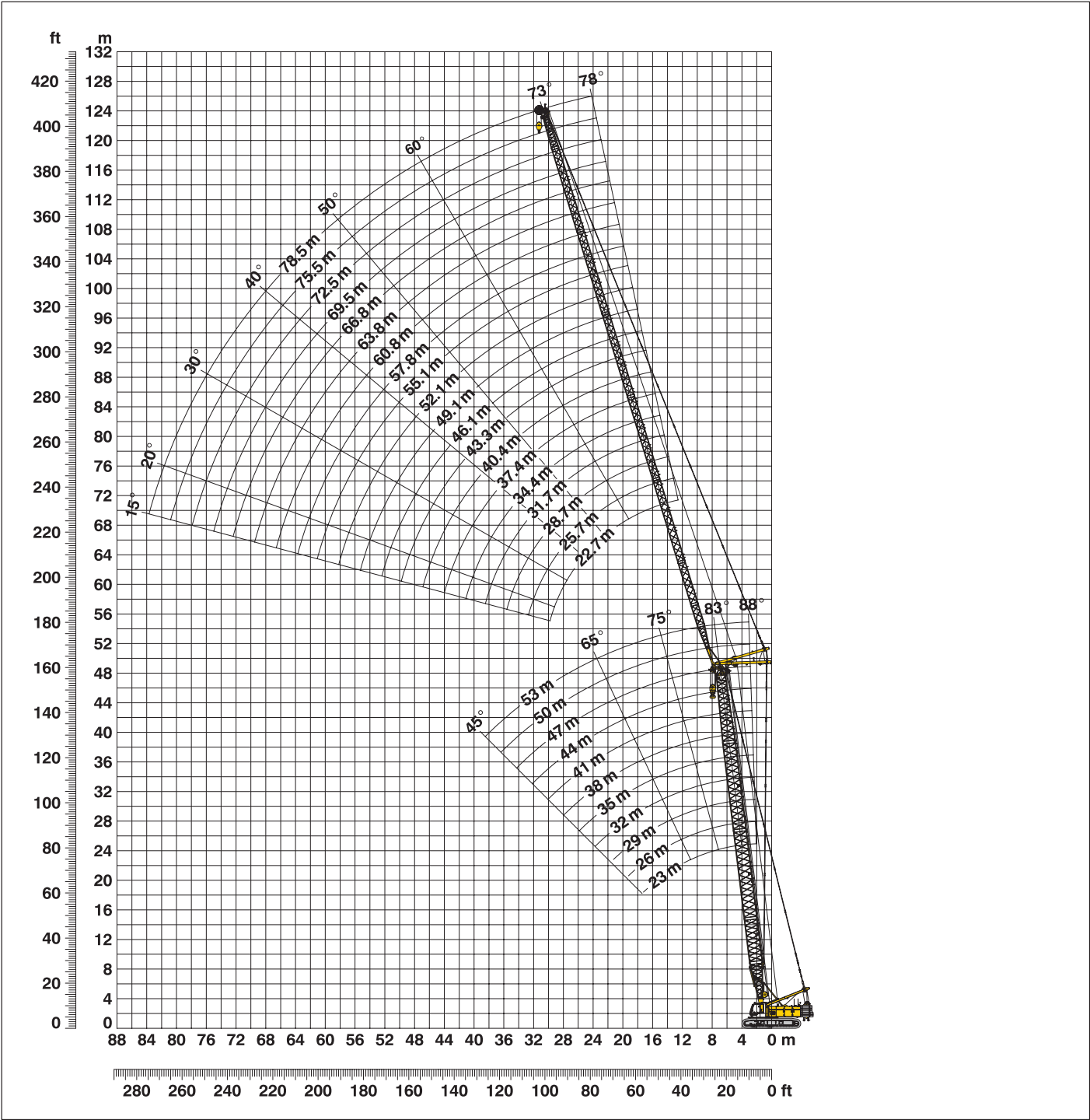


Verstellbarer Nadelausleger

Hauptausleger 88° - 45°

(No. 1309.xx)

78° - 15°



**Auslegerzusammenbau für Hauptauslegerlängen von 23 m - 53 m** – s. Tab. 1, Seite 10  
**Konfiguration mit verstellbarem Nadelausleger (22.7 m - 78.5 m)**

|                  | Länge  | Anzahl der Nadelauslegerstücke |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------|--------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Nadelanlenkstück | 5.5 m  | 1                              | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |      |
| Nadel-Z-Stück    | 3.0 m  |                                | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    | 1    |      |
| Nadel-Z-Stück    | 6.0 m  |                                |      | 1    | 1    |      |      | 1    | 1    |      |      | 1    | 1    |      |      | 1    | 1    |      |      | 1    | 1    |
| Nadel-Z-Stück    | 11.7 m | 1                              | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 5    |
| Nadelkopfstück   | 5.5 m  | 1                              | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Nadellänge (m)   |        | 22.7                           | 25.7 | 28.7 | 31.7 | 34.4 | 37.4 | 40.4 | 43.4 | 46.1 | 49.1 | 52.1 | 55.1 | 57.8 | 60.8 | 63.8 | 66.8 | 69.5 | 72.5 | 75.5 | 78.5 |



Traglasten - verstellb. Nadelausleger (No. 1309.xx)

Hauptausleger 88°

Hauptausleger 23 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 8.2        | 43.3           |      |      |      |      |      |      |      |
| 10         | 38.5           | 33.8 |      |      |      |      |      |      |
| 11         | 34.9           | 31.7 | 26.3 |      |      |      |      |      |
| 12         | 33.1           | 29.6 | 25.6 | 20.1 |      |      |      |      |
| 14         | 28.8           | 26.3 | 22.9 | 19.3 | 13.3 |      |      |      |
| 17         | 22.9           | 21.9 | 19.9 | 17.6 | 12.4 | 7.7  |      |      |
| 18         | 22.2           | 20.6 | 18.9 | 17.0 | 12.1 | 7.6  | 5.8  |      |
| 20         | 19.8           | 18.5 | 17.3 | 15.4 | 11.2 | 7.3  | 5.0  | 3.6  |
| 22         | 18.1           | 16.9 | 15.7 | 14.2 | 10.7 | 6.9  | 4.8  | 3.1  |
| 24         | 16.7           | 15.3 | 14.5 | 13.2 | 10.1 | 6.7  | 4.7  | 2.9  |
| 30         |                | 11.7 | 11.3 | 10.9 | 8.9  | 6.1  | 4.3  | 2.6  |
| 36         |                |      | 9.5  | 9.1  | 7.9  | 5.7  | 4.0  | 2.3  |
| 42         |                |      |      | 7.9  | 6.8  | 5.3  | 3.7  | 2.1  |
| 50         |                |      |      |      | 5.4  | 4.6  | 3.3  | 2.1  |
| 55         |                |      |      |      |      | 4.2  | 3.1  | 2.0  |
| 60         |                |      |      |      |      | 3.6  | 2.9  |      |
| 70         |                |      |      |      |      |      | 2.3  |      |

Hauptausleger 32 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 8.5        | 36.1           |      |      |      |      |      |      |      |
| 10         | 33.4           | 28.8 |      |      |      |      |      |      |
| 11         | 31.1           | 27.5 | 22.9 |      |      |      |      |      |
| 13         | 27.5           | 24.6 | 21.6 | 17.8 |      |      |      |      |
| 15         | 24.7           | 22.0 | 19.7 | 17.0 | 12.2 |      |      |      |
| 17         | 21.5           | 20.0 | 18.0 | 15.7 | 11.3 | 7.0  |      |      |
| 19         | 19.4           | 18.0 | 16.4 | 14.6 | 10.8 | 6.9  | 4.8  |      |
| 22         | 16.0           | 15.6 | 14.2 | 13.0 | 10.1 | 6.6  | 4.6  | 2.9  |
| 24         | 14.2           | 13.8 | 13.0 | 12.1 | 9.6  | 6.3  | 4.5  | 2.8  |
| 30         |                | 10.8 | 10.2 | 9.9  | 8.3  | 5.9  | 4.1  | 2.5  |
| 36         |                |      | 8.3  | 7.8  | 7.3  | 5.4  | 3.9  | 2.3  |
| 38         |                |      |      | 7.3  | 6.8  | 5.3  | 3.8  | 2.2  |
| 42         |                |      |      | 6.4  | 5.9  | 5.0  | 3.6  | 2.1  |
| 46         |                |      |      |      | 5.2  | 4.5  | 3.4  | 2.2  |
| 50         |                |      |      |      | 4.6  | 4.0  | 3.2  | 2.1  |
| 60         |                |      |      |      |      | 3.0  | 2.5  |      |
| 65         |                |      |      |      |      |      | 2.1  |      |

Hauptausleger 38 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 8.8        | 31.5           |      |      |      |      |      |      |      |
| 10         | 29.8           | 25.4 |      |      |      |      |      |      |
| 12         | 26.5           | 23.3 | 20.3 |      |      |      |      |      |
| 13         | 24.8           | 21.9 | 19.4 | 16.4 |      |      |      |      |
| 15         | 22.0           | 19.8 | 17.8 | 15.4 | 11.1 |      |      |      |
| 17         | 19.6           | 17.9 | 16.3 | 14.2 | 10.6 | 6.7  |      |      |
| 19         | 17.7           | 16.2 | 14.8 | 13.2 | 10.1 | 6.6  | 4.6  |      |
| 22         | 14.9           | 14.1 | 12.9 | 11.3 | 9.4  | 6.3  | 4.4  | 2.9  |
| 24         | 13.5           | 12.7 | 11.4 | 10.8 | 8.8  | 6.0  | 4.3  | 2.7  |
| 30         |                | 10.0 | 9.5  | 9.0  | 7.6  | 5.6  | 4.0  | 2.4  |
| 36         |                |      | 7.8  | 7.3  | 6.7  | 5.1  | 3.7  | 2.2  |
| 42         |                |      |      | 6.1  | 5.4  | 4.6  | 3.4  | 2.0  |
| 46         |                |      |      |      | 4.9  | 4.1  | 3.2  | 2.1  |
| 50         |                |      |      |      | 4.4  | 3.6  | 3.0  | 2.0  |
| 55         |                |      |      |      |      | 3.2  | 2.6  |      |
| 60         |                |      |      |      |      | 2.7  | 2.2  |      |

Hauptausleger 47 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 9.1        | 25.0           |      |      |      |      |      |      |      |
| 11         | 22.6           | 20.0 |      |      |      |      |      |      |
| 12         | 21.2           | 18.9 | 16.7 |      |      |      |      |      |
| 13         | 20.0           | 17.9 | 15.9 | 13.6 |      |      |      |      |
| 15         | 17.9           | 16.1 | 14.4 | 12.7 | 9.6  |      |      |      |
| 18         | 15.1           | 13.9 | 12.5 | 11.0 | 8.9  | 6.0  |      |      |
| 19         | 14.5           | 13.1 | 11.4 | 10.7 | 8.5  | 5.9  | 4.8  |      |
| 22         | 12.7           | 11.2 | 10.5 | 9.3  | 7.7  | 5.5  | 4.1  | 2.7  |
| 26         | 9.8            | 9.9  | 9.1  | 8.1  | 6.8  | 5.1  | 3.9  | 2.5  |
| 32         |                | 7.1  | 7.6  | 6.9  | 5.8  | 4.5  | 3.5  | 2.2  |
| 36         |                |      | 6.3  | 6.3  | 5.3  | 4.1  | 3.3  | 2.1  |
| 42         |                |      |      | 5.0  | 4.6  | 3.6  | 2.9  | 2.1  |
| 44         |                |      |      |      | 4.4  | 3.5  | 2.7  | 2.0  |
| 50         |                |      |      |      | 3.9  | 3.0  | 2.4  |      |
| 55         |                |      |      |      |      | 2.7  | 2.0  |      |
| 60         |                |      |      |      |      | 2.3  |      |      |

Hauptausleger 50 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 55.1 | 60.8 | 69.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 9.2        | 22.7           |      |      |      |      |      |      |      |
| 11         | 20.8           | 18.4 |      |      |      |      |      |      |
| 12         | 19.5           | 17.4 | 15.3 |      |      |      |      |      |
| 13         | 18.4           | 16.4 | 14.6 | 12.5 |      |      |      |      |
| 15         | 16.5           | 14.8 | 13.2 | 11.5 | 8.9  |      |      |      |
| 16         | 15.5           | 14.0 | 12.7 | 11.1 | 8.8  | 7.7  |      |      |
| 18         | 14.0           | 12.8 | 11.4 | 10.1 | 8.2  | 6.9  | 5.7  |      |
| 19         | 13.4           | 12.1 | 10.9 | 9.8  | 7.9  | 6.7  | 5.6  | 4.6  |
| 22         | 11.2           | 10.5 | 9.7  | 8.5  | 7.1  | 6.0  | 5.1  | 3.9  |
| 26         | 8.9            | 9.3  | 8.3  | 7.4  | 6.2  | 5.4  | 4.6  | 3.6  |
| 32         |                | 7.0  | 6.9  | 6.4  | 5.3  | 4.7  | 4.1  | 3.2  |
| 36         |                |      | 6.2  | 5.9  | 4.9  | 4.3  | 3.8  | 3.0  |
| 42         |                |      |      | 4.8  | 4.3  | 3.8  | 3.3  | 2.6  |
| 50         |                |      |      |      | 3.7  | 3.2  | 2.7  | 2.1  |
| 55         |                |      |      |      |      | 2.9  | 2.5  |      |
| 60         |                |      |      |      |      |      | 2.1  |      |

Hauptausleger 53 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 25.7 | 28.7 | 31.7 | 34.4 | 37.4 | 40.4 | 49.1 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 9.3        | 20.7           |      |      |      |      |      |      |      |
| 10         | 20.3           | 18.6 |      |      |      |      |      |      |
| 11         | 19.1           | 17.8 | 16.9 |      |      |      |      |      |
| 12         | 17.9           | 16.9 | 15.9 | 15.0 | 14.0 |      |      |      |
| 13         | 16.9           | 15.9 | 15.1 | 14.2 | 13.4 | 12.5 | 11.4 |      |
| 15         | 15.2           | 14.2 | 13.6 | 12.9 | 12.2 | 11.3 | 10.6 | 8.7  |
| 20         | 11.7           | 11.0 | 10.6 | 10.2 | 9.6  | 9.0  | 8.5  | 6.9  |
| 24         | 9.8            | 9.5  | 9.0  | 8.6  | 8.1  | 7.7  | 7.2  | 6.0  |
| 26         | 10.1           | 8.9  | 8.4  | 8.0  | 7.6  | 7.1  | 6.7  | 5.6  |
| 28         |                | 7.8  | 7.9  | 7.6  | 7.2  | 6.7  | 6.3  | 5.3  |
| 32         |                |      | 6.5  | 6.7  | 6.6  | 6.1  | 5.8  | 4.8  |
| 34         |                |      |      | 6.2  | 6.2  | 5.9  | 5.5  | 4.6  |
| 36         |                |      |      |      | 5.8  | 5.6  | 5.3  | 4.4  |
| 40         |                |      |      |      |      | 4.8  | 4.8  | 4.1  |
| 42         |                |      |      |      |      |      | 4.4  | 3.9  |
| 50         |                |      |      |      |      |      |      | 3.3  |

Traglasten in t mit verstellbarem Nadelausleger (No. 1309.xx) 50.9 t Ballast + 20 t Zentralballast. Oben angeführte Traglasttabellenwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.



Traglasten - verstellb. Nadelausleger (No. 1309.xx)

Hauptausleger 83°

Hauptausleger 23 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 12.2       | 37.6           |      |      |      |      |      |      |      |
| 14         | 33.7           | 30.1 |      |      |      |      |      |      |
| 16         | 29.1           | 27.0 | 23.6 |      |      |      |      |      |
| 18         | 25.4           | 22.8 | 21.9 | 18.1 |      |      |      |      |
| 20         | 22.4           | 21.0 | 19.6 | 17.3 | 11.8 |      |      |      |
| 24         | 18.2           | 17.1 | 16.2 | 14.8 | 10.6 | 6.8  |      |      |
| 26         | 16.9           | 15.7 | 14.9 | 13.8 | 10.2 | 6.6  | 5.1  |      |
| 28         |                | 14.5 | 13.9 | 12.9 | 9.9  | 6.5  | 4.4  |      |
| 30         |                | 13.7 | 12.9 | 12.1 | 9.6  | 6.3  | 4.4  | 2.7  |
| 32         |                | 12.9 | 12.1 | 11.4 | 9.2  | 6.1  | 4.3  | 2.6  |
| 38         |                |      | 10.2 | 9.5  | 8.2  | 5.7  | 4.0  | 2.3  |
| 44         |                |      |      | 8.8  | 7.2  | 5.4  | 3.7  | 2.1  |
| 46         |                |      |      |      | 7.0  | 5.2  | 3.6  | 2.1  |
| 50         |                |      |      |      | 6.4  | 4.9  | 3.5  | 2.2  |
| 55         |                |      |      |      |      | 4.6  | 3.2  | 2.1  |
| 60         |                |      |      |      |      | 4.2  | 3.0  |      |
| 70         |                |      |      |      |      |      | 2.6  |      |

Hauptausleger 32 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 13.3       | 30.4           |      |      |      |      |      |      |      |
| 15         | 28.1           | 24.7 |      |      |      |      |      |      |
| 17         | 24.9           | 22.5 | 20.0 |      |      |      |      |      |
| 19         | 21.7           | 20.2 | 18.5 | 15.9 |      |      |      |      |
| 22         | 18.7           | 17.4 | 16.1 | 14.5 | 10.6 |      |      |      |
| 26         | 15.7           | 14.8 | 13.8 | 12.7 | 9.7  | 6.4  |      |      |
| 28         | 15.2           | 13.8 | 13.0 | 11.5 | 9.4  | 6.2  | 4.4  |      |
| 30         |                | 12.9 | 12.2 | 11.0 | 9.1  | 6.1  | 4.2  | 2.6  |
| 34         |                | 11.3 | 10.7 | 10.1 | 8.4  | 5.8  | 4.0  | 2.4  |
| 38         |                |      | 9.6  | 9.0  | 7.8  | 5.6  | 3.9  | 2.3  |
| 40         |                |      |      | 8.6  | 7.5  | 5.4  | 3.8  | 2.2  |
| 44         |                |      |      | 7.6  | 6.8  | 5.2  | 3.6  | 2.1  |
| 46         |                |      |      |      | 6.6  | 5.1  | 3.5  | 2.0  |
| 50         |                |      |      |      | 5.9  | 4.7  | 3.4  | 2.1  |
| 55         |                |      |      |      |      | 4.4  | 3.2  | 2.0  |
| 65         |                |      |      |      |      | 3.4  | 2.7  |      |
| 70         |                |      |      |      |      |      | 2.5  |      |

Hauptausleger 38 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 14         | 24.9           |      |      |      |      |      |      |      |
| 16         | 22.3           | 20.1 |      |      |      |      |      |      |
| 18         | 20.0           | 18.3 | 16.6 |      |      |      |      |      |
| 20         | 17.7           | 16.4 | 15.1 | 13.5 |      |      |      |      |
| 22         | 16.2           | 14.9 | 13.7 | 12.4 | 10.0 |      |      |      |
| 26         | 13.8           | 12.7 | 11.4 | 10.6 | 8.8  | 6.0  |      |      |
| 28         | 12.9           | 11.5 | 10.9 | 10.0 | 8.3  | 5.9  | 4.2  |      |
| 32         |                | 10.7 | 9.8  | 9.0  | 7.6  | 5.6  | 4.0  | 2.5  |
| 34         |                | 10.1 | 9.4  | 8.6  | 7.3  | 5.4  | 3.9  | 2.4  |
| 40         |                |      | 8.6  | 7.4  | 6.4  | 4.9  | 3.6  | 2.2  |
| 46         |                |      |      | 6.3  | 5.6  | 4.4  | 3.3  | 2.2  |
| 48         |                |      |      |      | 5.4  | 4.2  | 3.2  | 2.1  |
| 50         |                |      |      |      | 5.2  | 4.1  | 3.1  | 2.1  |
| 55         |                |      |      |      |      | 3.7  | 2.8  |      |
| 65         |                |      |      |      |      | 3.0  | 2.3  |      |
| 70         |                |      |      |      |      |      | 2.1  |      |

Hauptausleger 47 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 15.1       | 18.1           |      |      |      |      |      |      |      |
| 17         | 16.6           | 14.8 |      |      |      |      |      |      |
| 19         | 14.8           | 13.5 | 12.2 |      |      |      |      |      |
| 22         | 12.6           | 11.3 | 10.5 | 9.5  |      |      |      |      |
| 24         | 11.5           | 10.5 | 9.6  | 8.7  | 7.2  |      |      |      |
| 28         | 10.3           | 9.2  | 8.3  | 7.6  | 6.3  | 4.8  |      |      |
| 30         | 10.3           | 8.8  | 7.9  | 7.1  | 6.0  | 4.6  | 3.6  |      |
| 32         |                | 8.4  | 7.5  | 6.7  | 5.7  | 4.4  | 3.4  | 2.3  |
| 36         |                | 7.4  | 6.8  | 6.1  | 5.1  | 4.0  | 3.2  | 2.2  |
| 38         |                |      | 6.5  | 5.8  | 4.9  | 3.8  | 3.0  | 2.1  |
| 40         |                |      | 6.2  | 5.6  | 4.7  | 3.6  | 2.9  | 2.3  |
| 44         |                |      |      | 5.2  | 4.4  | 3.3  | 2.6  | 2.0  |
| 46         |                |      |      | 4.9  | 4.2  | 3.1  | 2.4  |      |
| 50         |                |      |      |      | 3.9  | 2.9  | 2.2  |      |
| 55         |                |      |      |      | 3.5  | 2.6  | 2.2  |      |
| 65         |                |      |      |      |      | 2.1  |      |      |

Hauptausleger 50 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 55.1 | 60.8 | 69.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 15.5       | 16.2           |      |      |      |      |      |      |      |
| 18         | 14.2           | 13.0 |      |      |      |      |      |      |
| 19         | 13.5           | 12.3 | 11.0 |      |      |      |      |      |
| 22         | 11.2           | 10.4 | 9.6  | 8.5  |      |      |      |      |
| 24         | 10.5           | 9.5  | 8.7  | 7.8  | 6.4  |      |      |      |
| 26         | 10.0           | 8.8  | 8.1  | 7.2  | 6.0  | 5.2  |      |      |
| 28         | 9.5            | 8.4  | 7.5  | 6.8  | 5.7  | 5.0  | 4.3  |      |
| 30         | 8.9            | 8.0  | 7.1  | 6.3  | 5.4  | 4.8  | 4.1  | 3.1  |
| 36         |                | 6.8  | 6.2  | 5.5  | 4.6  | 4.1  | 3.5  | 2.8  |
| 42         |                |      | 5.4  | 4.9  | 4.0  | 3.5  | 3.0  | 2.3  |
| 44         |                |      |      | 4.7  | 3.9  | 3.4  | 2.8  | 2.2  |
| 46         |                |      |      | 4.5  | 3.8  | 3.2  | 2.7  | 2.1  |
| 50         |                |      |      |      | 3.5  | 3.0  | 2.5  | 2.1  |
| 55         |                |      |      |      | 3.2  | 2.7  | 2.2  |      |
| 60         |                |      |      |      |      | 2.4  | 2.0  |      |
| 65         |                |      |      |      |      |      | 2.0  |      |

Hauptausleger 53 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 25.7 | 28.7 | 31.7 | 34.4 | 37.4 | 40.4 | 49.1 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 15.9       | 14.4           |      |      |      |      |      |      |      |
| 17         | 13.7           | 13.0 |      |      |      |      |      |      |
| 18         | 13.0           | 12.4 | 11.2 |      |      |      |      |      |
| 19         | 12.3           | 11.4 | 10.9 | 10.2 |      |      |      |      |
| 20         | 11.3           | 10.8 | 10.4 | 9.9  | 9.4  |      |      |      |
| 22         | 10.3           | 9.9  | 9.4  | 9.0  | 8.6  | 8.1  | 7.7  |      |
| 24         | 9.6            | 9.0  | 8.7  | 8.2  | 7.8  | 7.4  | 6.9  | 5.6  |
| 28         | 8.7            | 8.1  | 7.5  | 7.1  | 6.7  | 6.4  | 6.0  | 5.1  |
| 30         | 8.1            | 7.7  | 7.2  | 6.7  | 6.3  | 6.0  | 5.7  | 4.8  |
| 32         |                | 7.3  | 6.9  | 6.4  | 6.0  | 5.6  | 5.4  | 4.6  |
| 36         |                |      | 6.2  | 5.9  | 5.6  | 5.2  | 4.9  | 4.1  |
| 38         |                |      |      | 5.6  | 5.4  | 5.0  | 4.7  | 3.9  |
| 42         |                |      |      |      | 4.9  | 4.7  | 4.4  | 3.6  |
| 44         |                |      |      |      |      | 4.4  | 4.3  | 3.5  |
| 48         |                |      |      |      |      |      | 3.8  | 3.2  |
| 55         |                |      |      |      |      |      |      | 2.8  |

Traglasten in t mit verstellbarem Nadelausleger (No. 1309.xx) 50.9 t Ballast + 20 t Zentralballast. Oben angeführte Traglasttabellenwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.



Traglasten - verstellb. Nadelausleger (No. 1309.xx)  
Hauptausleger 75°

Hauptausleger 23 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 18.3       | 27.9           |      |      |      |      |      |      |      |
| 22         | 22.8           | 22.2 |      |      |      |      |      |      |
| 24         | 20.7           | 20.4 | 19.5 |      |      |      |      |      |
| 26         | 18.7           | 18.5 | 17.7 | 15.8 |      |      |      |      |
| 30         | 15.6           | 15.5 | 15.1 | 14.4 | 9.9  |      |      |      |
| 36         |                | 12.3 | 12.2 | 11.6 | 9.2  | 5.8  |      |      |
| 40         |                |      | 10.7 | 10.2 | 8.7  | 5.7  | 4.0  |      |
| 42         |                |      |      | 9.7  | 8.3  | 5.6  | 3.9  | 2.5  |
| 44         |                |      |      | 9.2  | 8.0  | 5.5  | 3.8  | 2.2  |
| 46         |                |      |      | 8.7  | 7.7  | 5.4  | 3.8  | 2.1  |
| 48         |                |      |      |      | 7.4  | 5.3  | 3.7  | 2.1  |
| 50         |                |      |      |      | 7.1  | 5.2  | 3.6  | 2.0  |
| 55         |                |      |      |      | 6.3  | 4.9  | 3.4  | 2.1  |
| 60         |                |      |      |      |      | 4.6  | 3.2  |      |
| 65         |                |      |      |      |      | 4.2  | 3.0  |      |
| 70         |                |      |      |      |      |      | 2.9  |      |
| 75         |                |      |      |      |      |      | 2.7  |      |

Hauptausleger 32 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 20.6       | 21.5           |      |      |      |      |      |      |      |
| 24         | 18.5           | 17.6 |      |      |      |      |      |      |
| 26         | 17.1           | 16.3 | 15.3 |      |      |      |      |      |
| 30         | 15.0           | 14.0 | 13.4 | 12.6 |      |      |      |      |
| 32         | 13.9           | 13.0 | 12.5 | 11.7 | 9.5  |      |      |      |
| 38         |                | 11.0 | 10.4 | 9.9  | 8.4  | 5.6  |      |      |
| 40         |                |      | 10.0 | 9.3  | 8.0  | 5.5  |      |      |
| 42         |                |      | 9.5  | 8.9  | 7.7  | 5.4  | 3.8  |      |
| 44         |                |      | 9.0  | 8.4  | 7.4  | 5.3  | 3.7  |      |
| 46         |                |      |      | 8.1  | 7.1  | 5.2  | 3.7  | 2.1  |
| 48         |                |      |      | 7.7  | 6.8  | 5.1  | 3.6  | 2.0  |
| 50         |                |      |      | 7.3  | 6.5  | 5.0  | 3.5  | 2.2  |
| 55         |                |      |      |      | 5.9  | 4.7  | 3.4  | 2.1  |
| 60         |                |      |      |      |      | 4.4  | 3.2  |      |
| 65         |                |      |      |      |      | 4.0  | 3.0  |      |
| 70         |                |      |      |      |      |      | 2.8  |      |
| 75         |                |      |      |      |      |      | 2.6  |      |

Hauptausleger 38 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 22.2       | 17.2           |      |      |      |      |      |      |      |
| 26         | 14.6           | 13.7 |      |      |      |      |      |      |
| 28         | 13.6           | 12.8 | 11.8 |      |      |      |      |      |
| 30         | 12.7           | 11.6 | 11.1 | 10.0 |      |      |      |      |
| 34         | 12.0           | 10.5 | 9.8  | 9.1  | 7.7  |      |      |      |
| 40         |                | 9.7  | 8.3  | 7.7  | 6.8  | 5.0  |      |      |
| 42         |                |      | 8.0  | 7.3  | 6.5  | 4.9  | 3.9  |      |
| 44         |                |      | 7.7  | 7.0  | 6.2  | 4.8  | 3.4  |      |
| 46         |                |      |      | 6.7  | 5.9  | 4.7  | 3.4  | 2.3  |
| 48         |                |      |      | 6.4  | 5.6  | 4.5  | 3.3  | 2.0  |
| 50         |                |      |      | 6.2  | 5.4  | 4.3  | 3.3  | 2.2  |
| 55         |                |      |      |      | 4.9  | 3.9  | 3.0  | 2.1  |
| 60         |                |      |      |      | 4.5  | 3.5  | 2.8  |      |
| 65         |                |      |      |      |      | 3.2  | 2.5  |      |
| 70         |                |      |      |      |      | 2.9  | 2.3  |      |
| 75         |                |      |      |      |      |      | 2.1  |      |

Hauptausleger 47 m

|            | Nadellänge (m) |      |      |      |      |      |      |  |
|------------|----------------|------|------|------|------|------|------|--|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 |  |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    |  |
| 24.5       | 11.5           |      |      |      |      |      |      |  |
| 28         | 10.0           | 9.2  |      |      |      |      |      |  |
| 30         | 9.4            | 8.6  | 7.9  |      |      |      |      |  |
| 32         | 8.8            | 8.0  | 7.4  | 7.2  |      |      |      |  |
| 34         | 8.3            | 7.6  | 7.0  | 6.4  |      |      |      |  |
| 36         | 8.0            | 7.1  | 6.5  | 6.0  | 5.0  |      |      |  |
| 38         |                | 6.7  | 6.2  | 5.6  | 4.9  |      |      |  |
| 40         |                | 6.5  | 5.8  | 5.3  | 4.6  |      |      |  |
| 42         |                | 6.2  | 5.5  | 5.1  | 4.4  | 3.5  |      |  |
| 44         |                |      | 5.3  | 4.8  | 4.2  | 3.3  |      |  |
| 46         |                |      | 5.2  | 4.6  | 4.0  | 3.1  | 2.4  |  |
| 48         |                |      | 5.0  | 4.4  | 3.8  | 3.0  | 2.4  |  |
| 50         |                |      |      | 4.3  | 3.6  | 2.8  | 2.2  |  |
| 55         |                |      |      |      | 3.2  | 2.4  | 2.1  |  |
| 60         |                |      |      |      | 3.0  | 2.1  |      |  |
| 65         |                |      |      |      |      | 2.1  |      |  |

Hauptausleger 50 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 55.1 | 60.8 | 69.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 25.3       | 10.0           |      |      |      |      |      |      |      |
| 28         | 8.8            | 8.4  |      |      |      |      |      |      |
| 32         | 7.6            | 7.0  | 6.4  |      |      |      |      |      |
| 34         | 7.2            | 6.5  | 6.0  | 5.4  |      |      |      |      |
| 36         | 7.0            | 6.1  | 5.6  | 5.1  |      |      |      |      |
| 38         |                | 5.8  | 5.3  | 4.8  | 4.1  |      |      |      |
| 40         |                | 5.5  | 5.0  | 4.5  | 3.9  | 3.5  |      |      |
| 42         |                | 5.4  | 4.8  | 4.3  | 3.7  | 3.3  | 2.8  |      |
| 46         |                |      | 4.5  | 3.9  | 3.3  | 2.9  | 2.5  | 2.2  |
| 48         |                |      | 4.3  | 3.7  | 3.2  | 2.8  | 2.4  | 2.1  |
| 50         |                |      |      | 3.6  | 3.0  | 2.6  | 2.2  |      |
| 55         |                |      |      |      | 2.7  | 2.3  | 2.2  |      |
| 60         |                |      |      |      | 2.5  | 2.3  |      |      |
| 65         |                |      |      |      |      | 2.1  |      |      |

Hauptausleger 53 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 25.7 | 28.7 | 31.7 | 34.4 | 37.4 | 40.4 | 49.1 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 26.1       | 8.6            |      |      |      |      |      |      |      |
| 28         | 7.6            | 7.2  |      |      |      |      |      |      |
| 30         | 7.1            | 6.7  | 6.4  | 6.6  |      |      |      |      |
| 32         | 6.6            | 6.2  | 6.0  | 5.7  | 5.4  |      |      |      |
| 34         | 6.2            | 5.9  | 5.6  | 5.3  | 5.1  | 4.8  | 4.5  |      |
| 38         | 6.7            | 5.3  | 5.0  | 4.8  | 4.5  | 4.3  | 4.1  | 3.4  |
| 40         |                | 5.2  | 4.8  | 4.5  | 4.3  | 4.0  | 3.8  | 3.2  |
| 42         |                |      | 4.7  | 4.3  | 4.1  | 3.9  | 3.7  | 3.1  |
| 44         |                |      | 4.5  | 4.2  | 3.9  | 3.7  | 3.5  | 2.9  |
| 46         |                |      |      | 4.1  | 3.8  | 3.5  | 3.3  | 2.7  |
| 48         |                |      |      |      | 3.7  | 3.4  | 3.1  | 2.6  |
| 50         |                |      |      |      |      | 3.3  | 3.0  | 2.4  |
| 55         |                |      |      |      |      |      | 2.9  | 2.1  |
| 60         |                |      |      |      |      |      |      | 2.3  |

Traglasten in t mit verstellbarem Nadelausleger (No. 1309.xx) 50.9 t Ballast + 20 t Zentralballast. Oben angeführte Traglasttabellenwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.



Traglasten - verstellb. Nadelausleger (No. 1309.xx)  
Hauptausleger 65°

Hauptausleger 23 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 25.4       | 18.1           |      |      |      |      |      |      |      |
| 30         | 14.7           | 14.5 |      |      |      |      |      |      |
| 34         | 12.6           | 12.4 | 12.2 |      |      |      |      |      |
| 36         |                | 11.6 | 11.4 | 11.1 |      |      |      |      |
| 40         |                | 10.1 | 9.9  | 9.7  |      |      |      |      |
| 42         |                |      | 9.3  | 9.1  | 8.3  |      |      |      |
| 44         |                |      | 8.7  | 8.5  | 8.0  |      |      |      |
| 46         |                |      |      | 8.0  | 7.7  |      |      |      |
| 48         |                |      |      | 7.5  | 7.2  | 5.4  |      |      |
| 50         |                |      |      | 7.1  | 6.8  | 5.3  |      |      |
| 55         |                |      |      |      | 5.9  | 5.1  | 3.5  |      |
| 60         |                |      |      |      |      | 4.7  | 3.3  | 2.0  |
| 65         |                |      |      |      |      | 4.1  | 3.2  |      |
| 70         |                |      |      |      |      | 3.5  | 3.0  |      |
| 75         |                |      |      |      |      |      | 2.8  |      |

Hauptausleger 32 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 | 78.5 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 29.2       | 14.1           |      |      |      |      |      |      |      |
| 34         | 11.7           | 11.4 |      |      |      |      |      |      |
| 36         | 10.9           | 10.6 | 10.4 |      |      |      |      |      |
| 38         | 10.1           | 9.9  | 9.7  |      |      |      |      |      |
| 40         |                | 9.3  | 9.1  | 8.8  |      |      |      |      |
| 42         |                | 8.7  | 8.5  | 8.2  |      |      |      |      |
| 44         |                | 8.1  | 8.0  | 7.7  |      |      |      |      |
| 46         |                |      | 7.5  | 7.2  | 6.8  |      |      |      |
| 48         |                |      | 7.1  | 6.8  | 6.4  |      |      |      |
| 50         |                |      |      | 6.4  | 6.1  |      |      |      |
| 55         |                |      |      | 5.6  | 5.2  | 4.6  |      |      |
| 60         |                |      |      |      | 4.5  | 4.1  | 3.2  |      |
| 65         |                |      |      |      |      | 3.5  | 3.0  |      |
| 70         |                |      |      |      |      | 3.0  | 2.7  |      |
| 75         |                |      |      |      |      | 2.6  | 2.3  |      |

Hauptausleger 38 m

|            | Nadellänge (m) |      |      |      |      |      |      |  |
|------------|----------------|------|------|------|------|------|------|--|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 | 69.5 |  |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    |  |
| 31.8       | 11.9           |      |      |      |      |      |      |  |
| 36         | 10.2           | 9.9  |      |      |      |      |      |  |
| 40         | 8.9            | 8.6  | 8.4  |      |      |      |      |  |
| 42         |                | 8.1  | 7.9  | 7.6  |      |      |      |  |
| 46         |                | 7.1  | 6.9  | 6.6  |      |      |      |  |
| 48         |                |      | 6.5  | 6.3  | 5.7  |      |      |  |
| 50         |                |      | 6.2  | 5.9  | 5.4  |      |      |  |
| 55         |                |      |      | 5.1  | 4.7  | 4.0  |      |  |
| 60         |                |      |      |      | 4.1  | 3.5  | 2.9  |  |
| 65         |                |      |      |      | 3.5  | 3.0  | 2.5  |  |
| 70         |                |      |      |      |      | 2.6  | 2.1  |  |
| 75         |                |      |      |      |      | 2.2  |      |  |

Hauptausleger 47 m

|            | Nadellänge (m) |      |      |      |      |      |  |  |
|------------|----------------|------|------|------|------|------|--|--|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 |  |  |
| Radius (m) | t              | t    | t    | t    | t    | t    |  |  |
| 35.6       | 9.0            |      |      |      |      |      |  |  |
| 38         | 8.4            |      |      |      |      |      |  |  |
| 40         | 7.9            | 7.5  |      |      |      |      |  |  |
| 42         | 7.4            | 7.0  |      |      |      |      |  |  |
| 44         | 6.9            | 6.6  | 6.2  |      |      |      |  |  |
| 46         |                | 6.2  | 5.8  | 5.5  |      |      |  |  |
| 48         |                | 5.9  | 5.5  | 5.1  |      |      |  |  |
| 50         |                | 5.5  | 5.2  | 4.8  |      |      |  |  |
| 55         |                |      | 4.6  | 4.3  | 3.7  |      |  |  |
| 60         |                |      |      | 3.7  | 3.2  | 2.5  |  |  |
| 65         |                |      |      |      | 2.8  | 2.1  |  |  |
| 70         |                |      |      |      | 2.4  |      |  |  |

Hauptausleger 50 m

|            | Nadellänge (m) |      |      |      |      |      |  |
|------------|----------------|------|------|------|------|------|--|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 |  |
| Radius (m) | t              | t    | t    | t    | t    | t    |  |
| 36.8       | 8.1            |      |      |      |      |      |  |
| 42         | 6.9            | 6.4  |      |      |      |      |  |
| 44         | 6.6            | 6.1  | 5.4  |      |      |      |  |
| 46         |                | 5.7  | 5.3  |      |      |      |  |
| 48         |                | 5.5  | 5.0  | 4.5  |      |      |  |
| 50         |                | 5.2  | 4.8  | 4.3  |      |      |  |
| 55         |                |      | 4.3  | 3.9  | 3.3  |      |  |
| 60         |                |      |      | 3.4  | 2.8  | 2.1  |  |
| 65         |                |      |      |      | 2.4  |      |  |
| 70         |                |      |      |      | 2.1  |      |  |

Hauptausleger 53 m

|            | Nadellänge (m) |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
|            | 22.7           | 25.7 | 28.7 | 31.7 | 34.4 | 37.4 | 40.4 | 49.1 |
| Radius (m) | t              | t    | t    | t    | t    | t    | t    | t    |
| 38.1       | 7.2            |      |      |      |      |      |      |      |
| 40         | 6.3            | 6.5  |      |      |      |      |      |      |
| 42         | 6.0            | 5.7  | 5.3  |      |      |      |      |      |
| 44         | 5.7            | 5.4  | 5.1  | 4.8  |      |      |      |      |
| 46         | 5.6            | 5.1  | 4.9  | 4.6  | 4.4  |      |      |      |
| 48         |                | 5.1  | 4.7  | 4.4  | 4.2  | 4.0  |      |      |
| 50         |                | 5.0  | 4.6  | 4.2  | 4.0  | 3.8  | 3.6  |      |
| 55         |                |      |      | 4.0  | 3.7  | 3.4  | 3.2  | 2.6  |
| 60         |                |      |      |      |      | 3.2  | 3.0  | 2.3  |
| 65         |                |      |      |      |      |      |      | 2.1  |

Traglasten in t mit verstellbarem Nadelausleger (No. 1309.xx) 50.9 t Ballast + 20 t Zentralballast. Oben angeführte Traglasttabellenwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.



Traglasten - verstellb. Nadelausleger

(No. 1309.xx)

Hauptausleger 45°

Hauptausleger 23 m

|            | Nadellänge (m) |      |      |      |      |      |  |  |
|------------|----------------|------|------|------|------|------|--|--|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 | 60.8 |  |  |
| Radius (m) | t              | t    | t    | t    | t    | t    |  |  |
| 37.3       | 9.8            |      |      |      |      |      |  |  |
| 40         | 9.0            |      |      |      |      |      |  |  |
| 44         |                | 7.7  |      |      |      |      |  |  |
| 46         |                | 7.3  |      |      |      |      |  |  |
| 48         |                |      | 6.6  |      |      |      |  |  |
| 50         |                |      | 6.3  |      |      |      |  |  |
| 55         |                |      |      | 5.2  |      |      |  |  |
| 60         |                |      |      |      | 4.2  |      |  |  |
| 65         |                |      |      |      | 3.6  |      |  |  |
| 70         |                |      |      |      |      | 2.7  |  |  |
| 75         |                |      |      |      |      | 2.3  |  |  |

Hauptausleger 32 m

|            | Nadellänge (m) |      |      |      |      |  |  |  |
|------------|----------------|------|------|------|------|--|--|--|
|            | 22.7           | 28.7 | 34.4 | 40.4 | 49.1 |  |  |  |
| Radius (m) | t              | t    | t    | t    | t    |  |  |  |
| 43.7       | 6.8            |      |      |      |      |  |  |  |
| 44         | 6.7            |      |      |      |      |  |  |  |
| 46         | 6.3            |      |      |      |      |  |  |  |
| 50         |                | 5.3  |      |      |      |  |  |  |
| 55         |                |      | 4.4  |      |      |  |  |  |
| 60         |                |      |      | 3.6  |      |  |  |  |
| 70         |                |      |      |      | 2.3  |  |  |  |
|            |                |      |      |      |      |  |  |  |
|            |                |      |      |      |      |  |  |  |
|            |                |      |      |      |      |  |  |  |

Hauptausleger 38 m

|            | Nadellänge (m) |      |      |      |  |  |  |  |
|------------|----------------|------|------|------|--|--|--|--|
|            | 22.7           | 28.7 | 34.4 | 40.4 |  |  |  |  |
| Radius (m) | t              | t    | t    | t    |  |  |  |  |
| 47.9       | 5.1            |      |      |      |  |  |  |  |
| 50         | 4.8            |      |      |      |  |  |  |  |
| 55         |                | 3.9  |      |      |  |  |  |  |
| 60         |                |      | 3.1  |      |  |  |  |  |
| 65         |                |      |      | 2.4  |  |  |  |  |

Hauptausleger 47 m

|            | Nadellänge (m) |      |  |  |  |  |  |  |
|------------|----------------|------|--|--|--|--|--|--|
|            | 22.7           | 28.7 |  |  |  |  |  |  |
| Radius (m) | t              | t    |  |  |  |  |  |  |
| 54.3       | 3.0            |      |  |  |  |  |  |  |
| 55         | 2.9            |      |  |  |  |  |  |  |
| 60         |                | 2.2  |  |  |  |  |  |  |
|            |                |      |  |  |  |  |  |  |
|            |                |      |  |  |  |  |  |  |
|            |                |      |  |  |  |  |  |  |

Traglasten in t mit verstellbarem Nadelausleger (No. 1309.xx) 50.9 t Ballast + 20 t Zentralballast. Oben angeführte Traglasttabellenwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.





Traglasten – festst. Nadelausleger (No. 0806.xx)  
offset 15°

Hauptausleger 17 m

|            | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| Radius (m) | t              | t    | t   | t   |
| 5.5        | 24.0           |      |     |     |
| 10         | 24.0           | 14.2 |     |     |
| 12         | 23.6           | 13.4 | 7.7 |     |
| 15         | 22.5           | 12.3 | 7.0 | 4.3 |
| 18         | 21.1           | 10.2 | 6.5 | 4.1 |
| 20         | 19.4           | 9.7  | 6.2 | 3.9 |
| 22         | 18.0           | 9.2  | 5.9 | 3.8 |
| 24         | 16.8           | 8.9  | 5.7 | 3.7 |
| 26         | 15.6           | 8.5  | 5.5 | 3.5 |
| 36         |                | 7.1  | 4.8 | 3.2 |
| 42         |                |      | 4.6 | 3.1 |
| 48         |                |      |     | 2.9 |

Hauptausleger 26 m

|            | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| Radius (m) | t              | t    | t   | t   |
| 5.8        | 24.0           |      |     |     |
| 10         | 24.0           | 14.3 |     |     |
| 12         | 24.0           | 13.6 | 8.7 |     |
| 15         | 22.9           | 12.6 | 7.2 | 4.3 |
| 20         | 20.9           | 10.3 | 6.4 | 3.9 |
| 24         | 19.2           | 9.5  | 5.9 | 3.7 |
| 28         | 16.5           | 8.9  | 5.6 | 3.5 |
| 32         | 13.7           | 8.5  | 5.3 | 3.4 |
| 34         | 12.6           | 8.2  | 5.2 | 3.3 |
| 44         |                | 7.2  | 4.7 | 3.1 |
| 50         |                |      | 4.6 | 3.0 |
| 55         |                |      |     | 2.9 |

Hauptausleger 35 m

|            | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| Radius (m) | t              | t    | t   | t   |
| 6.1        | 24.0           |      |     |     |
| 10         | 24.0           | 13.6 |     |     |
| 13         | 23.7           | 12.8 | 7.3 |     |
| 15         | 23.2           | 12.3 | 7.0 | 4.3 |
| 20         | 21.2           | 10.1 | 6.3 | 3.9 |
| 28         | 16.2           | 8.9  | 5.6 | 3.6 |
| 36         | 11.2           | 8.2  | 5.1 | 3.3 |
| 40         | 9.5            | 7.9  | 5.0 | 3.2 |
| 42         | 8.8            | 7.8  | 4.9 | 3.2 |
| 50         |                | 6.8  | 4.7 | 3.1 |
| 55         |                |      | 4.6 | 3.0 |
| 60         |                |      |     | 2.9 |

Hauptausleger 44 m

|            | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| Radius (m) | t              | t    | t   | t   |
| 6.4        | 24.0           |      |     |     |
| 11         | 23.9           | 13.2 |     |     |
| 13         | 23.1           | 12.7 | 7.3 |     |
| 16         | 21.9           | 12.1 | 6.9 | 4.1 |
| 20         | 20.2           | 10.2 | 6.4 | 3.9 |
| 28         | 15.7           | 9.2  | 5.7 | 3.6 |
| 36         | 10.8           | 8.5  | 5.3 | 3.4 |
| 44         | 7.8            | 7.5  | 5.0 | 3.2 |
| 50         | 6.1            | 6.7  | 4.8 | 3.1 |
| 60         |                | 4.6  | 4.5 | 3.0 |
| 65         |                |      | 4.1 | 2.9 |
| 70         |                |      |     | 2.8 |

Hauptausleger 53 m

|            | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| Radius (m) | t              | t    | t   | t   |
| 6.7        | 24.0           |      |     |     |
| 11         | 22.5           | 12.3 |     |     |
| 13         | 21.7           | 11.0 | 7.6 |     |
| 16         | 20.5           | 10.4 | 6.6 | 4.1 |
| 20         | 18.9           | 9.7  | 6.2 | 3.9 |
| 28         | 15.2           | 8.7  | 5.6 | 3.6 |
| 36         | 10.4           | 8.0  | 5.2 | 3.4 |
| 44         | 7.3            | 7.2  | 4.9 | 3.2 |
| 55         | 4.6            | 5.1  | 4.5 | 3.0 |
| 65         |                | 3.4  | 3.7 | 2.9 |
| 70         |                |      | 3.0 | 2.9 |
| 75         |                |      |     | 2.6 |

Hauptausleger 59 m

|            | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| Radius (m) | t              | t    | t   | t   |
| 6.9        | 22.4           |      |     |     |
| 11         | 20.9           | 10.8 |     |     |
| 14         | 19.9           | 10.4 | 6.6 |     |
| 16         | 19.0           | 10.0 | 6.4 | 4.0 |
| 20         | 17.7           | 9.4  | 6.0 | 3.9 |
| 28         | 14.0           | 8.5  | 5.5 | 3.6 |
| 36         | 9.6            | 7.9  | 5.2 | 3.4 |
| 44         | 7.0            | 6.7  | 4.9 | 3.2 |
| 55         | 4.3            | 4.8  | 4.4 | 3.0 |
| 60         | 3.4            | 3.9  | 4.0 | 3.0 |
| 70         |                | 2.4  | 2.7 | 2.8 |
| 75         |                |      | 2.1 | 2.3 |

Hauptausleger 65 m

|            | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| Radius (m) | t              | t    | t   | t   |
| 7.2        | 20.3           |      |     |     |
| 11         | 19.2           | 11.0 |     |     |
| 14         | 18.0           | 9.9  | 6.4 |     |
| 16         | 17.2           | 9.5  | 6.2 | 4.5 |
| 20         | 15.8           | 9.0  | 5.9 | 3.8 |
| 28         | 12.5           | 8.1  | 5.4 | 3.6 |
| 36         | 9.3            | 7.7  | 5.0 | 3.4 |
| 44         | 6.7            | 6.3  | 4.8 | 3.2 |
| 55         | 4.0            | 4.5  | 4.4 | 3.0 |
| 65         | 2.3            | 2.8  | 3.1 | 2.8 |
| 70         |                | 2.1  | 2.4 | 2.6 |
| 75         |                |      |     | 2.1 |

Hauptausleger 68 m

|            | Nadellänge (m) |      |      |     |
|------------|----------------|------|------|-----|
|            | 11             | 14   | 20   | 26  |
| Radius (m) | t              | t    | t    | t   |
| 7.3        | 19.1           |      |      |     |
| 9          | 18.7           | 15.7 |      |     |
| 11         | 18.0           | 15.3 | 10.6 |     |
| 14         | 16.8           | 14.5 | 9.5  | 6.2 |
| 16         | 16.1           | 14.0 | 9.2  | 6.1 |
| 20         | 14.5           | 12.9 | 8.7  | 5.7 |
| 28         | 11.2           | 10.6 | 7.8  | 5.2 |
| 36         | 9.0            | 8.9  | 7.2  | 4.9 |
| 44         | 6.5            | 6.5  | 6.0  | 4.7 |
| 55         | 3.8            | 4.0  | 4.4  | 4.2 |
| 65         | 2.2            | 2.3  | 2.7  | 3.0 |
| 70         |                |      |      | 2.3 |

Hauptausleger 71 m

|            | Nadellänge (m) |      |      |  |
|------------|----------------|------|------|--|
|            | 11             | 14   | 17   |  |
| Radius (m) | t              | t    | t    |  |
| 7.3        | 19.1           |      |      |  |
| 9          | 18.7           | 15.7 |      |  |
| 10         | 18.4           | 15.5 | 13.0 |  |
| 12         | 17.6           | 15.1 | 12.7 |  |
| 14         | 16.8           | 14.5 | 12.4 |  |
| 16         | 16.1           | 14.0 | 11.3 |  |
| 20         | 14.5           | 12.9 | 10.7 |  |
| 28         | 11.2           | 10.6 | 9.6  |  |
| 36         | 9.0            | 8.9  | 8.8  |  |
| 44         | 6.5            | 6.5  | 6.5  |  |
| 55         | 3.8            | 4.0  | 4.2  |  |
| 65         | 2.2            | 2.3  | 2.5  |  |

Traglasten in t mit feststehendem Nadelausleger (No. 0806.xx) 50.9 t Ballast + 20 t Zentralballast. Oben angeführte Traglasttabellenwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.



Traglasten – festst. Nadelausleger (No. 0806.xx)  
offset 30°

Hauptausleger 17 m

| Radius (m) | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| 8          | t              | t    | t   | t   |
| 14         | 24.0           | 10.2 |     |     |
| 18         | 18.0           | 9.2  | 5.9 |     |
| 22         | 15.7           | 8.4  | 5.4 | 3.5 |
| 24         | 14.9           | 8.1  | 5.2 | 3.4 |
| 26         | 14.4           | 7.8  | 5.0 | 3.3 |
| 28         | 13.9           | 7.5  | 4.9 | 3.3 |
| 36         |                | 6.8  | 4.5 | 3.1 |
| 38         |                |      | 4.5 | 3.1 |
| 42         |                |      | 4.4 | 3.0 |
| 44         |                |      |     | 3.0 |
| 48         |                |      |     | 2.9 |

Hauptausleger 26 m

| Radius (m) | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| 8.3        | t              | t    | t   | t   |
| 14         | 24.0           | 11.7 |     |     |
| 18         | 19.9           | 9.6  | 6.0 |     |
| 22         | 17.7           | 8.9  | 5.6 | 3.5 |
| 24         | 16.8           | 8.6  | 5.4 | 3.4 |
| 28         | 15.4           | 8.1  | 5.1 | 3.3 |
| 32         | 13.9           | 7.7  | 4.9 | 3.2 |
| 34         | 12.7           | 7.5  | 4.8 | 3.2 |
| 36         | 11.6           | 7.3  | 4.8 | 3.1 |
| 44         |                | 6.8  | 4.6 | 3.0 |
| 50         |                |      | 4.4 | 2.8 |
| 55         |                |      |     | 2.7 |

Hauptausleger 35 m

| Radius (m) | Nadellänge (m) |     |     |     |
|------------|----------------|-----|-----|-----|
|            | 11             | 20  | 26  | 32  |
| 8.6        | t              | t   | t   | t   |
| 15         | 23.4           | 9.8 |     |     |
| 18         | 20.1           | 9.2 | 6.6 |     |
| 22         | 19.3           | 8.6 | 5.4 | 3.5 |
| 28         | 16.4           | 8.1 | 5.1 | 3.3 |
| 32         | 13.6           | 7.7 | 4.9 | 3.2 |
| 36         | 11.4           | 7.4 | 4.8 | 3.1 |
| 40         | 9.6            | 7.1 | 4.7 | 3.1 |
| 42         | 8.9            | 7.0 | 4.6 | 3.0 |
| 50         |                | 6.5 | 4.5 | 2.9 |
| 55         |                |     | 4.4 | 2.8 |
| 60         |                |     |     | 2.8 |

Hauptausleger 44 m

| Radius (m) | Nadellänge (m) |     |     |     |
|------------|----------------|-----|-----|-----|
|            | 11             | 20  | 26  | 32  |
| 8.9        | t              | t   | t   | t   |
| 15         | 22.1           | 9.8 |     |     |
| 19         | 19.3           | 9.2 | 5.7 |     |
| 24         | 18.0           | 8.6 | 5.4 | 3.4 |
| 28         | 15.9           | 8.3 | 5.2 | 3.3 |
| 36         | 11.0           | 7.8 | 4.9 | 3.2 |
| 44         | 7.9            | 7.2 | 4.7 | 3.0 |
| 48         | 6.7            | 6.7 | 4.6 | 3.0 |
| 50         | 6.2            | 6.5 | 4.6 | 3.0 |
| 60         |                | 4.6 | 4.4 | 2.9 |
| 65         |                |     | 4.1 | 2.9 |
| 70         |                |     |     | 2.8 |

Hauptausleger 53 m

| Radius (m) | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 20   | 26  | 32  |
| 9.3        | t              | t    | t   | t   |
| 15         | 20.6           | 10.1 |     |     |
| 19         | 18.1           | 8.7  | 5.5 |     |
| 24         | 16.3           | 8.2  | 5.2 | 3.4 |
| 28         | 15.0           | 7.9  | 5.0 | 3.3 |
| 36         | 10.4           | 7.6  | 4.8 | 3.2 |
| 44         | 7.5            | 6.8  | 4.6 | 3.1 |
| 48         | 6.3            | 6.4  | 4.5 | 3.0 |
| 55         | 4.7            | 5.3  | 4.4 | 3.0 |
| 65         |                | 3.5  | 3.8 | 2.9 |
| 70         |                |      | 3.1 | 2.9 |
| 80         |                |      |     | 2.1 |

Hauptausleger 59 m

| Radius (m) | Nadellänge (m) |     |     |     |
|------------|----------------|-----|-----|-----|
|            | 11             | 20  | 26  | 32  |
| 9.5        | t              | t   | t   | t   |
| 16         | 19.3           | 8.7 |     |     |
| 19         | 17.8           | 8.7 |     |     |
| 19         | 16.5           | 8.5 | 5.3 |     |
| 24         | 14.8           | 8.0 | 5.1 | 3.3 |
| 28         | 13.4           | 7.7 | 4.9 | 3.3 |
| 36         | 9.9            | 7.4 | 4.7 | 3.1 |
| 44         | 7.2            | 6.5 | 4.6 | 3.0 |
| 48         | 6.0            | 6.1 | 4.5 | 3.0 |
| 55         | 4.4            | 5.1 | 4.4 | 2.9 |
| 60         | 3.5            | 4.1 | 4.0 | 2.9 |
| 70         |                | 2.5 | 2.9 | 2.8 |
| 75         |                |     | 2.2 | 2.5 |

Hauptausleger 65 m

| Radius (m) | Nadellänge (m) |     |     |     |
|------------|----------------|-----|-----|-----|
|            | 11             | 20  | 26  | 32  |
| 9.7        | t              | t   | t   | t   |
| 16         | 17.6           | 8.4 |     |     |
| 20         | 16.1           | 8.4 |     |     |
| 20         | 14.7           | 8.0 | 5.2 |     |
| 24         | 13.6           | 7.7 | 5.0 | 3.3 |
| 28         | 12.2           | 7.4 | 4.8 | 3.2 |
| 36         | 9.6            | 7.0 | 4.6 | 3.1 |
| 44         | 6.9            | 6.3 | 4.5 | 3.0 |
| 48         | 5.8            | 5.8 | 4.4 | 3.0 |
| 55         | 4.1            | 4.8 | 4.3 | 2.9 |
| 65         | 2.4            | 3.0 | 3.4 | 2.8 |
| 70         |                | 2.3 | 2.6 | 2.6 |
| 75         |                |     |     | 2.3 |

Hauptausleger 68 m

| Radius (m) | Nadellänge (m) |      |     |     |
|------------|----------------|------|-----|-----|
|            | 11             | 14   | 20  | 26  |
| 9.8        | t              | t    | t   | t   |
| 12         | 16.5           | 13.6 |     |     |
| 16         | 14.9           | 13.0 | 8.1 |     |
| 20         | 13.5           | 12.2 | 7.8 | 5.1 |
| 24         | 12.4           | 10.7 | 7.5 | 4.9 |
| 28         | 11.2           | 10.1 | 7.2 | 4.7 |
| 36         | 9.3            | 9.0  | 6.7 | 4.6 |
| 44         | 6.6            | 6.6  | 6.0 | 4.5 |
| 48         | 5.6            | 5.8  | 5.5 | 4.4 |
| 55         | 4.0            | 4.2  | 4.7 | 4.1 |
| 65         | 2.3            | 2.5  | 2.9 | 3.2 |
| 70         |                |      | 2.1 | 2.5 |

Hauptausleger 71 m

| Radius (m) | Nadellänge (m) |      |      |   |
|------------|----------------|------|------|---|
|            | 11             | 14   | 17   |   |
| 9.9        | t              | t    | t    | t |
| 12         | 15.4           | 12.9 |      |   |
| 12         | 15.0           | 12.9 |      |   |
| 14         | 14.5           | 12.6 | 10.1 |   |
| 16         | 13.8           | 12.3 | 9.9  |   |
| 20         | 12.7           | 11.0 | 9.5  |   |
| 28         | 10.4           | 9.5  | 8.5  |   |
| 36         | 8.9            | 8.3  | 7.6  |   |
| 40         | 7.5            | 7.5  | 7.3  |   |
| 44         | 6.3            | 6.4  | 6.4  |   |
| 48         | 5.4            | 5.5  | 5.5  |   |
| 55         | 3.8            | 4.1  | 4.3  |   |
| 65         | 2.1            | 2.3  | 2.5  |   |

Traglasten in t mit feststehendem Nadelausleger (No. 0806.xx) 50.9 t Ballast + 20 t Zentralballast. Oben angeführte Traglasttabellenwerte sind nur zur Information. Für Ihren aktuellen Hub verwenden Sie bitte die Traglastwerte aus dem Traglasttabellenbuch.



## Notizen

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

